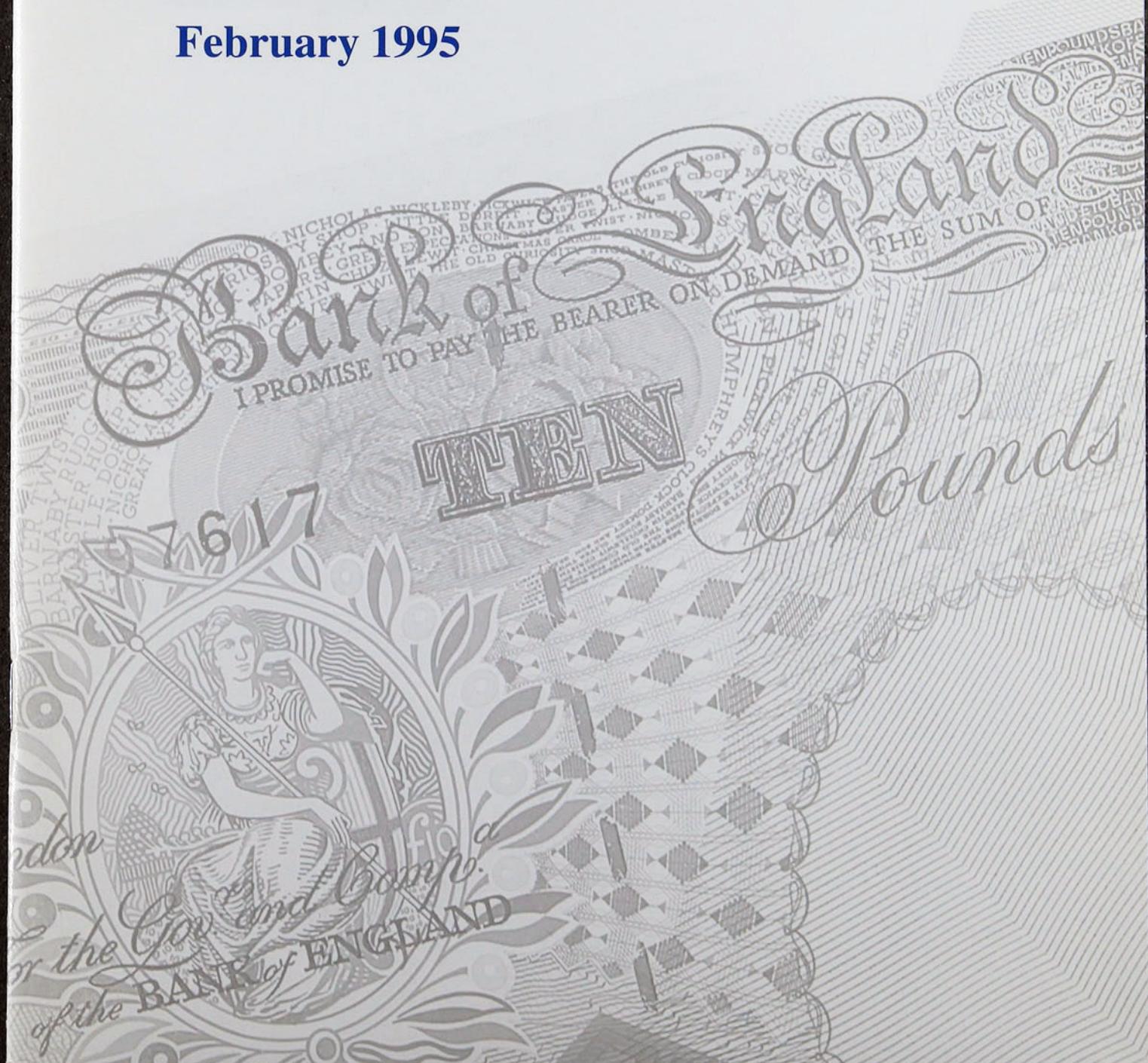


Bank of England

Inflation Report

February 1995



Inflation Report

February 1995

Summary	3
1 Recent developments in inflation	5
1.1 Retail prices	5
1.2 Output prices	6
1.3 Expenditure deflators	6
1.4 Other measures of inflation	7
1.5 Summary	7
<i>Box RPI Advisory Committee</i>	8
2 Money and interest rates	10
2.1 Money and credit aggregates	10
Narrow money	10
Broad money and credit	11
Divisia	13
2.2 Interest rates and exchange rates	13
Interest rates	13
Exchange rates	14
Market expectations	15
2.3 Summary	17
<i>Box Note circulation: breakdown by denomination</i>	16
3 Demand and supply	18
3.1 Domestic demand	18
Consumption	18
The housing market	19
Investment	20
Government spending	21
3.2 Net external trade	21
3.3 Business confidence	22
3.4 Output	23
3.5 Summary	24

4	The labour market	25
4.1	Earnings	25
4.2	Labour demand	26
4.3	Unemployment	27
4.4	Alternative measures of labour market tightness	28
4.5	Productivity and unit labour costs	30
4.6	Expectations	31
4.7	Summary	32
5	Pricing behaviour	33
5.1	External influences	33
	Overseas inflation and import prices	34
5.2	Profitability	35
	Manufacturing	35
	Utilities	37
	Retailing	38
5.3	Summary	39
6	Prospects for inflation	40
6.1	The economic news	40
6.2	The Bank's medium-term inflation projection	41
6.3	Private sector inflation forecasts	43
6.4	The risks to the inflation outlook	44
7	Conclusions	46

Symbols and conventions

- ... not available.
- nil or less than half the final digit shown.
Because of rounding, the sum of the separate items may sometimes differ from the total shown.
- On the horizontal axes of graphs, larger ticks denote the first observation within the relevant period, eg data for the first quarter of the year.

Summary

All measures of inflation (except for services) have risen since the time of the November *Inflation Report*. The Government's target measure of inflation—the 12-month rise in the retail prices index excluding mortgage interest payments (RPIX)—rose in November to 2.3% and again in December to 2.5%. The Bank's RPIY measure—which excludes indirect taxes as well as mortgage interest payments—also rose.

Output has continued to grow at well above trend, though it slowed down during 1994. Labour demand has increased and unemployment has fallen more rapidly than expected. Pay settlements have edged up. The sharp dichotomy between export and domestic demand has meant that the capacity of producers of tradable goods and services has come under particular pressure.

The longer-term influences on inflation remain favourable. Broad money growth remained subdued in the fourth quarter. M0 continues to grow at above its 0%–4% monitoring range, but, as expected, has recently been slowing down. UK gilt yields have fallen in the past three months and outperformed several other bond markets. Against a volatile international background, sterling has remained relatively stable.

There are still strong pressures from the costs side. Most commodity prices and manufacturers' input prices have been rising rapidly. Shorter-run measures of cost inflation suggest that the pressure on margins from this source has eased a little, but is still considerable. Further along the supply chain, the annual inflation of producer output prices has increased. Some of last year's compression of retail margins is likely to unwind as recovery continues.

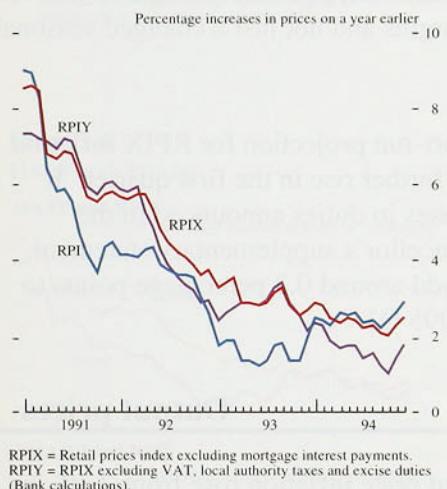
Without the increases in interest rates since the previous Report, the Bank's central projection would now have been for inflation to be in the upper half of the target range. As it is, the Bank is still projecting a rate two years ahead of around 2½%, the mid point of the range—with the upside risks somewhat less than before. The tightening of monetary policy since November has therefore improved the prospect of achieving the lower half of the target range by the end of the present parliament.

Recent developments in inflation

1.1

Retail prices

Chart 1.1
Inflation



All measures of inflation (except for services) have risen since the time of the November *Inflation Report*. The Government's target measure of inflation—the 12-month rise in the retail prices index excluding mortgage interest payments (RPIX)—was unchanged in October at 2.0%, but then rose in November to 2.3%, and again in December to 2.5% (see Chart 1.1).

Headline RPI inflation rose in each of the three months in the fourth quarter, by 0.2 percentage points in both October and November, and then by 0.3 percentage points in December. Its 12-month rate of increase was 2.9% in December, compared with 2.2% in September.

As expected, the increases in duties announced in the November Budget, in particular tobacco, petrol and vehicle excise duties, added to inflation in December. However, the Bank's RPIY measure—which excludes indirect taxes as well as mortgage interest payments—also rose. After falling to a low of 1.0% in October, RPIY inflation increased to 1.4% in November and 1.7% in December.

Table 1.A
Short-run measures of inflation

Percentage changes (a)

	1993		1994					
	Dec.	Mar.	June	Sept.	Oct.	Nov.	Dec.	
RPI								
3-month	1.4	2.5	2.4	2.4	2.6	2.5	4.0	
6-month	2.7	1.9	2.5	2.4	2.5	2.6	3.2	
RPIX								
3-month	1.6	2.8	1.2	2.6	2.2	1.9	3.2	
6-month	2.8	2.2	2.0	1.9	2.1	2.2	2.9	
RPIY								
3-month	-0.2	2.1	1.8	1.2	0.9	0.8	1.6	
6-month	1.5	0.9	1.9	1.5	1.2	1.2	1.4	
HARP								
3-month	0.5	3.6	0.5	1.4	1.2	1.4	2.4	
6-month	2.4	2.1	2.0	1.0	1.3	1.6	1.9	
THARP								
3-month	-0.8	2.9	0.6	0.6	0.3	0.3	1.1	
6-month	1.6	1.0	1.7	0.6	0.6	0.7	0.8	
RPIY goods								
3-month	-2.8	2.3	2.3	0.2	-1.0	—	1.3	
6-month	—	-0.3	2.3	1.3	0.7	0.7	0.8	
RPIY services								
3-month	3.5	1.7	1.6	2.1	1.7	1.5	1.9	
6-month	3.6	2.6	1.6	1.8	1.9	1.9	2.0	

(a) The change between latest month and three/six months earlier (seasonally adjusted and annualised). The natural logarithms of the price series were seasonally adjusted using a Kalman filter to decompose the series into trend, cyclical, irregular and seasonal components.

Table 1.A shows how short-run measures of inflation have varied during the past year. These can give an early indication of a turning-point in inflation but are more volatile than the longer-run measures. The seasonally adjusted three-month annualised figures all rose in December. The six-month annualised figures also suggest that inflation has passed its trough.

The increase in inflation was spread across most components of RPIX (see Table 1.B). On a three-month annualised basis, inflation in the household goods sector increased throughout 1994; in the car sector, it started to increase in the summer. Inflation in the clothing and footwear sector turned up in December, as discounts seen in the autumn were withdrawn.

Chart 1.2 shows that the 12-month rate of increase in the prices of food, household goods, clothing and footwear, and cars were all higher in December than November.

Table 1.B
Components of the RPI: short-run rates of increase

Percentage changes (a)

	1993		1994					
	Dec.	Mar.	June	Sept.	Oct.	Nov.	Dec.	
RPIX food								
3-month	-4.2	1.3	4.6	1.1	1.0	1.8	3.0	
6-month	-0.7	-1.5	3.0	2.9	2.3	2.3	2.0	
RPIX cars								
3-month	-4.5	11.9	-4.0	-4.8	-1.8	3.9	7.0	
6-month	0.8	3.4	3.6	-4.4	-4.0	-1.7	0.9	
RPIX clothing and footwear								
3-month	0.1	0.4	-1.0	0.5	—	-0.2	0.4	
6-month	1.4	0.3	-0.3	-0.3	—	0.3	0.4	
RPIX household goods								
3-month	-0.1	-0.6	-0.4	1.8	3.2	3.4	3.5	
6-month	1.0	-0.3	-0.5	0.7	1.9	2.7	2.7	

(a) The change between latest month and three/six months earlier (seasonally adjusted and annualised). The natural logarithms of the price series were seasonally adjusted using a Kalman filter to decompose the series into trend, cyclical, irregular and seasonal components.

Chart 1.2
Retail prices

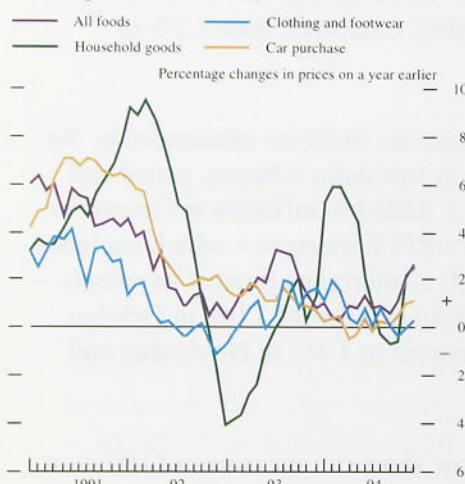
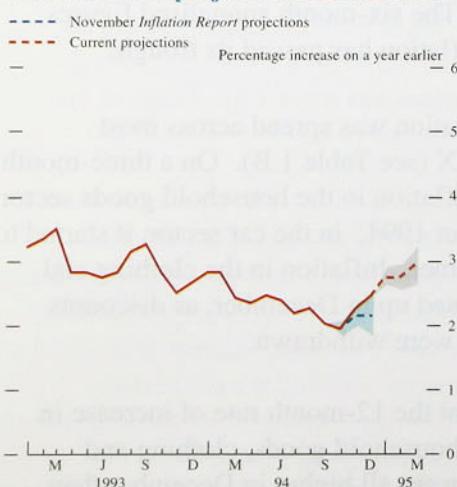


Chart 1.3
RPIX inflation projections and outturns



The range is defined as the central projection plus or minus the average absolute error on such projections in the past.

Both RPIX and RPIY are subject to seasonal variations. RPIX, for example, tends to increase most in April (mainly because of changes in administered prices such as rents and local authority taxation) and least in January and July, because of the traditional timing of winter and summer sales. The short-run measures of inflation which show turning-points are seasonally adjusted to take account of these effects. But seasonal adjustment is not straightforward: the timing of sales and the extent of discounting could reflect either a change in the underlying trend of inflation or a change in the seasonal pattern. In 1994, for example, the early summer and winter sales were probably a sign of weakening retail margins and not just a changed seasonal pattern.

The Bank's new short-run projection for RPIX inflation (Chart 1.3) shows a further rise in the first quarter. It allows for the increases in duties announced in the Budget and the Chancellor's supplementary statement, which are likely to add around 0.3 percentage points to RPIX inflation in 1995 Q1.

1.2

Output prices

Twelve-month output price inflation rose from 2.3% in September to 2.6% in December. If the more volatile prices of two sectors—food, drink and tobacco, and petroleum refining—are excluded, the rise was slightly stronger, from 2.1% in September to 2.8% in December. Short-run measures also picked up; the seasonally adjusted three-month annualised rate excluding the two volatile sectors rose from 3.6% in September to 4.3% in December. Cost increases continued to pass along the manufacturing supply chain and further increases in producer price inflation are expected. The relationship between producer prices and retail prices is discussed in Section 5.

1.3

Expenditure deflators

Table 1.C reports the annual rate of increase in the price deflators for the major categories of expenditure used in the National Accounts. These provide comprehensive measures of inflation, but are less up-to-date than other indicators. The implied GDP deflator rose by 0.7% in the third quarter, after being flat in the second. Its four-quarter rate of increase was 1.6%. The consumers' expenditure deflator rose only slightly in the second and third quarters, and its four-quarter rate of increase fell

Table 1.C
Expenditure deflators

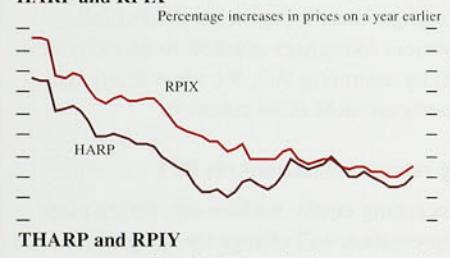
Percentage changes on a year earlier

	Consum- ption	Invest- ment	Government	Domestic demand (a)	Exports	Imports	GDP
1992	4.7	-2.8	6.3	3.8	1.5	—	4.6
1993	3.5	0.5	4.2	3.2	9.2	8.1	3.8
Seasonally adjusted growth rates							
1993 Q1	3.6	-0.5	6.2	3.6	10.2	8.8	4.3
Q2	3.5	0.6	4.4	3.2	9.1	9.9	3.4
Q3	3.6	1.1	3.0	3.2	11.1	10.9	3.4
Q4	3.2	0.7	3.2	2.9	6.6	3.2	4.1
1994 Q1	2.9	0.6	2.4	2.4	-0.5	-0.8	2.6
Q2	2.6	0.3	2.5	2.3	0.2	2.2	1.3
Q3	2.6	1.2	3.0	2.5	1.1	3.0	1.6
Q2 on Q1	0.6	0.6	0.7	0.9	0.4	3.1	—
Q3 on Q2	0.7	1.2	0.7	0.6	2.1	1.6	0.7

(a) Domestic demand also includes value of physical increase in stocks and work in progress which is not referred to in this table.

Chart 1.4
HARP and THARP

HARP and RPIX



THARP and RPIY

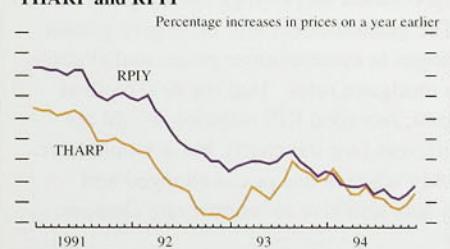
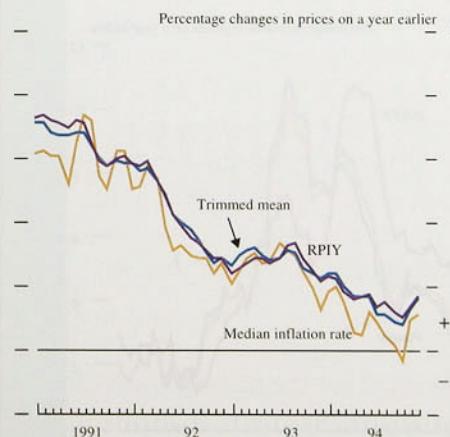


Chart 1.5
Alternative measures of inflation



from 2.9% in the first quarter of 1994 to 2.6% in the second and third. The investment and government expenditure deflators, on the other hand, rose more rapidly over the same period.

1.4 Other measures of inflation

Both RPIX and RPIY measures exclude mortgage interest payments and hence any impact of changes in the cost of owner-occupied housing. The housing-adjusted RPI (HARP index) attempts to rectify this omission by adding a Bank estimate of the user-cost of housing to the components of RPIX. Indirect taxes can be excluded from the HARP index to provide an alternative to RPIY—the THARP index of tax and housing-adjusted retail prices. Because of the continuing weakness in house prices, HARP and THARP inflation rates have been below the corresponding RPIX and RPIY rates, although they too picked up during the fourth quarter (Chart 1.4). HARP and THARP inflation stood at 2.0% and 1.3% respectively in December, compared with 1.5% and 0.8% in September.

Chart 1.5 shows RPIY and two other measures of inflation which attempt to allow for the potentially distorting effect of large movements in relative prices. The median inflation measure uses all the component RPIY price series to compute a median rate of change for each month. A variant of this approach is to exclude the largest and smallest price changes to give a 'trimmed mean'.⁽¹⁾ Although the trimmed-mean inflation measure tracked RPIY inflation quite closely during 1994, the median inflation rate was lower, suggesting that the distribution of price changes was skewed upwards. The trimmed-mean and median rates, on both 12-month and three-month annualised bases, turned up in the fourth quarter.

The Tax and Price Index (TPI) adjusts the RPI for changes in direct taxation to obtain an index of consumers' purchasing power. TPI inflation rose to 3.4% in December from 2.6% in September.

1.5 Summary

Most measures suggest that inflation has now passed its trough. In particular, all the short-run measures of inflation turned up in December. The 12-month rates of

(1) The Bank's calculations exclude the components with the largest and smallest 15% of price changes.

RPI Advisory Committee

The Retail Prices Index Advisory Committee (RPIAC) reported in December 1994 on the treatment of owner-occupiers' housing costs and car prices in the retail prices index (RPI). In framing its recommendations, the Committee was asked to take account of practices in other European Union countries. Its proposals, which were formally accepted by the Chancellor on 6 January, mainly concerned the treatment of housing.

The Committee concentrated on the shelter costs of owner-occupiers, at present estimated by a mathematical model of mortgage interest payments (MIPs) and *not* by actual payments. It recommended that the RPI should continue to include mortgage interest payments as a component of owner-occupiers' shelter costs, but that a new element should be included to represent the cost of depreciation of owner-occupied housing.

Depreciation: in addition to the housing repairs and maintenance category already included in the RPI, an element of depreciation is to be incorporated. The depreciation rate will be derived from the national accounts model of housing capital consumption. The initial rate—1.4%—is based on data from the past ten years and will be reviewed annually. The price indicator will be based on a house price index. Hence the inclusion of depreciation will introduce house prices into the RPI.

Although it was recognised that there is no unique way of treating owner-occupier housing costs, the inclusion of depreciation does not remove the problem that an increase in interest rates which will reduce underlying inflation will increase the 12-month rate of RPI inflation for 12 months. An alternative way of treating owner-occupier costs would be to treat them as the costs of hiring a consumer durable. The Bank's HARP index incorporates an estimate of the user-cost of housing. The HARP index does not respond to interest rates to the same extent as the RPI.

Other changes to the index will include:

Change of sample: where possible, the input data series should match the sample of households represented in the RPI. This sample is based on the Family Expenditure Survey and is known as the 'Index Households'. It represents all households except those with the highest 4% of incomes and pensioners who derive 75% or more of their income from state benefits (in total these account for about 16% of all households).

Change of the interest rate series: the current representative interest rate series for mortgage payments is an average of bank and building society base rates. The Committee recommended that a more accurate series, based on the average of all loan rates, be evaluated.

Change to the equity withdrawal assumption: the existing RPI calculation already removes an element of equity withdrawal from the estimate of mortgage interest costs—that is, the interest cost of borrowing secured on housing, but used for purposes other than house purchase. However, the increasing incidence of equity withdrawal has meant that this adjustment is insufficient. Rectifying this means adjusting downwards the estimate of the average percentage of the house purchase price which is borrowed for housing purposes. The RPIAC recommended that it be reduced from 65% to 55%, and that this figure be kept under review.

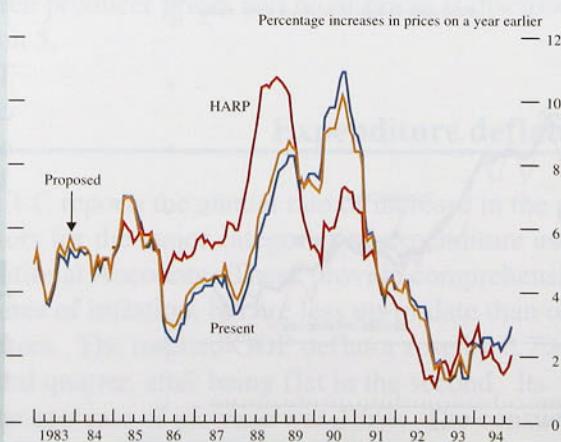
Change of assumptions concerning type of mortgage: the current index assumes that all mortgages are of the repayment type and thus measures only interest payments. Capital repayments are treated as an element of saving and therefore not a housing cost. The outstanding debt on a repayment mortgage and, consequently, mortgage interest payments (MIPs) fall over time. Endowment mortgages are now to be included in the MIPs model by assuming that, for some mortgages, the outstanding mortgage debt stays constant.

Effect of housing recommendations on RPI

The proposals concerning equity withdrawal, endowment mortgages and depreciation will change the weights within the RPI. The general effect will be to give greater importance to changes in current house prices and slightly less to changes in mortgage rates. Had the new method been used in the past, recorded RPI inflation would not have been very different (see the chart), but it would have reacted more quickly when house prices changed and have been slightly less sensitive to interest rate changes.

These changes to the RPI will be introduced in the index for February, released in March, at the same time as the annual revision to RPI weights.

All-items RPI: present and proposed version



RPIX and RPIY inflation have also risen; they are expected to increase further in the first quarter of 1995.

Price movements

The latest available data from the Central Statistical Bureau show that the rate of inflation in December 1994 was 10.2% (Chart 2). This compares with 9.6% in November 1994 and 9.2% in October 1994.

On general grounds because there was no significant change in the rate of inflation between November and December 1994, it can be inferred that the rate of inflation in January 1995 will be around 10.2%.

It is to be noted that the rate of inflation has continued to rise over the last few months. In the period from July 1993 to December 1994, the rate of inflation increased from 1.5% to 10.2%. This is a rise of 9.7 percentage points, or 650%.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

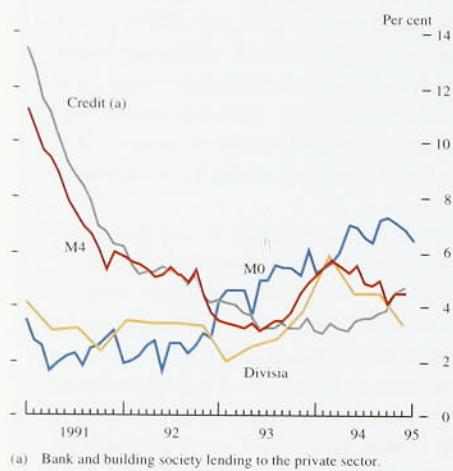
It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

It is to be noted that the rate of inflation has increased by 1.5 percentage points in each of the last three months.

2

Money and interest rates

Chart 2.1
12-month growth rates of M0, M4, Divisia
and credit



(a) Bank and building society lending to the private sector.

Table 2.A
Growth rates of monetary aggregates

	1994	1 month	3 months (a)	6 months (a)	12 months
Notes and coin	Oct.	0.4	6.5	6.6	7.1
	Nov.	0.3	5.8	5.9	6.8
	Dec.	0.4	4.9	5.6	6.5
	Jan.	-0.1	2.6	4.6	5.8
	Oct.	0.5	7.0	6.7	7.3
	Nov.	0.2	6.9	6.1	7.1
M0	Dec.	0.8	5.9	6.8	6.7
	Jan.	-0.3	2.6	4.8	6.4
	Sept.	0.4	3.4	3.3	4.9
	Oct.	—	3.1	2.9	4.1
	Nov.	0.8	4.7	4.0	4.5
	Dec.	0.5	5.0	4.2	4.5
M4	Sept.	0.5	5.1	4.4	3.7
	Oct.	0.3	4.9	4.8	3.8
	Nov.	0.7	6.4	5.7	4.4
	Dec.	0.6	6.9	6.0	4.6
	1994 Q1	1994 Q2	1994 Q3	1994 Q4	
	Divisia				
3 months		1.8	—	1.0	0.5
	12 months	5.8	4.4	4.5	3.4

(a) Annualised.

2.1

Money and credit aggregates

Broad money growth remained subdued during the fourth quarter. M4's 12-month growth rate was 4.5% in December, well within the lower half of its 3%–9% monitoring range and a little lower than in September. Credit growth, however, picked up from 3.7% in September to 4.6% in December. The 12-month growth rate of M0 remains above its 0%–4% monitoring range, although recent data indicate a noticeable slowdown: it was 6.4% in January, compared with 7.3% in October (Chart 2.1). The three-month annualised growth rate of M0 was 2.6% in January.

Narrow money

In the three months to October, monthly notes and coin growth averaged 0.5%—slightly lower than in the first half of the year, but still higher than anticipated. However, in the three months to January, notes and coin growth averaged 0.2% per month. As a result, its 12-month growth rate fell from 7.1% in October to 5.8% in January, and the three and six-month annualised increases—at 2.6% and 4.6% respectively—were the lowest for over two years (Table 2.A). The reductions in interest rates between September 1992 and February 1994 had been expected to increase narrow money growth by reducing the opportunity cost of holding cash balances. As expected, this effect began to wear off by the end of 1994.

In the past, narrow money—particularly notes and coin—has been a good guide to trends in retail sales. Much of the increase in the value of retail sales in the three months to December was the result of sales of more expensive items, such as household goods, which tend to be financed by credit. The slowdown in the growth of food sales, which are more likely to be cash financed, may have contributed to weaker narrow money growth.

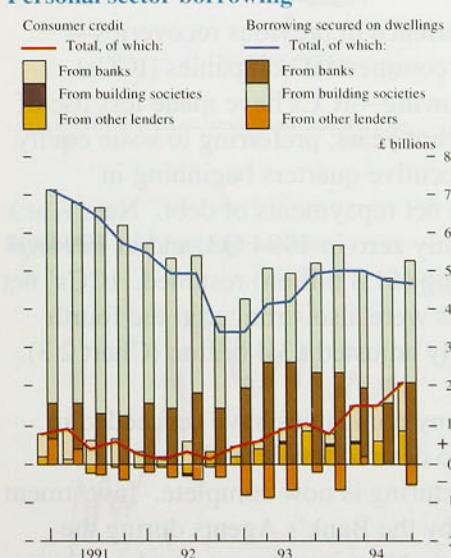
One explanation put forward for the rapid growth of narrow money during the past two years is that there was an increase in unrecorded activity financed by high-value banknotes. The box on page 16 examines the

bond-run money series. In fact, no evidence was found of any significant relationship between the bond-run money series and the growth of broad money.

The level of household net worth increased during 1994, reflecting an acceleration in real household income growth and a reduction in the rate of household real asset price inflation. This was reflected in the increase in the household wealth ratio but this is observed in the same period as the reduced real asset prices observed earlier in the year. In addition, household net worth growth was partially offset by a decline in the value of financial assets held abroad, which fell from £10.5 billion in December 1993 to £9.5 billion in December 1994. This produced a fall in the household wealth ratio in the fourth quarter of 1994.

beyond this, no annual information will be provided on the composition of household net worth. However, similar information will be provided on the composition of household net worth in the first quarter of 1995. This will allow for a more detailed analysis of the factors influencing household net worth over the longer term.

Chart 2.2
Personal sector borrowing



use of different denominations of notes in circulation and finds no evidence to support this hypothesis.

Broad money and credit

M4 growth continued to fall in the fourth quarter. Its 12-month growth rate stood at 4.5% in December, compared with 4.9% in September and its recent peak of 5.6% in March. Shorter-run measures of M4, however, picked up: its three-month annualised rate increased from 3.4% in September to 5% in December. Bank and building society lending speeded up: it increased by 1.7% in the fourth quarter, compared with an average of 0.9% in the previous three quarters. The 12-month growth rate of bank and building society lending was 4.6% in December, compared with 3.7% in September.

An article on pages 46–53 of the February *Quarterly Bulletin* examines the factors influencing broad money growth. Broad money, M4, is used both as a means of payment and a store of value. Increases in M4 usually indicate increased future spending, because they signal either increases in perceived wealth or planned increases in transactions. But different types of agent—individuals, industrial and commercial companies, financial institutions—have different motives for holding M4. It is therefore helpful to look at M4's sectoral components.⁽¹⁾

Individuals' holdings of bank and building society deposits rose by £2.9 billion in the three months to December. Although slightly lower than the £3.0 billion recorded in the third quarter of 1994, this was higher than the average of £2.0 billion per quarter in the first half of 1994. Lending to individuals by banks and building societies rose by £6.5 billion in 1994 Q4, the strongest recorded increase since 1991 Q4. This growth reflected a pick-up in both mortgage and consumption lending (Chart 2.2).

Growth in lending for consumption by the banks and building societies has been very low in the current recovery. Consumption lending, however, rose by £1.2 billion in the fourth quarter—the strongest quarterly increase since 1989 Q3. Banks' credit card lending was £0.5 billion, the highest since 1990 Q4. Other bank credit—personal loans and overdrafts—increased by £0.8 billion. This demand for credit appears consistent

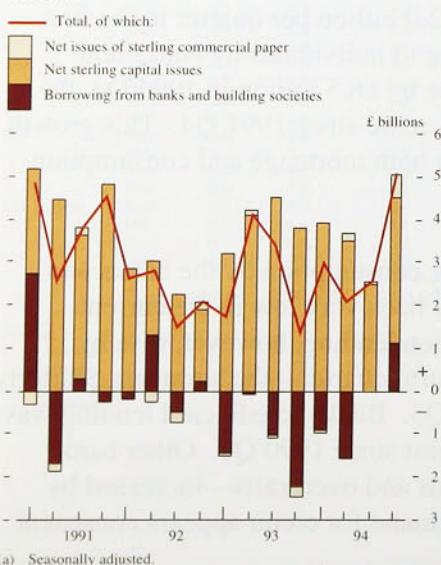
(1) All the sectoral credit data referred to in this section exclude the effects of securitisations and loan transfers.

with stronger contributions to retail sales from non-food items, particularly household goods.

As discussed in Section 1, retailers appear to have avoided further reductions in the prices of household goods in the fourth quarter by offering special finance deals on items such as electrical goods and furnishings. Many of these deals are likely to have been financed by banks and finance houses, and the growth in expenditure on household goods is therefore consistent with the strong increases in both credit card and other consumer lending by the banks. Specialist lenders (other than banks and building societies) increased their lending by £0.4 billion in 1994 Q4—the strongest rise since the series started in 1987 Q1. The 12-month rate of increase of total consumer credit was 11% in December, compared with 9% in September.

Borrowing for consumption accounts for only around 10% of individuals' borrowing from banks and building societies. Mortgage lending, which makes up the other 90%, increased by £5.2 billion in the fourth quarter, slightly higher than in the second and third quarters of 1994. Within this, banks increased their lending by £2.1 billion and building societies by £3.1 billion. Using the wider definition of mortgage lenders, net lending remained stable in the second half of 1994: specialist lenders were not as active in the mortgage market as earlier in the year.

Chart 2.3
Total quarterly sterling borrowing by
ICCs^(a)



(a) Seasonally adjusted.

Contrary to the experience in previous recoveries—when industrial and commercial companies (ICCs) increased their borrowing—ICCs have made less use of debt financing in recent years, preferring to issue equity. Indeed, for six consecutive quarters beginning in 1993 Q1, they made net repayments of debt. Net borrowing was roughly zero in 1994 Q3, and in 1994 Q4 positive net borrowing (£1.3 billion) resumed. ICCs' net sterling capital issues were also stronger in the fourth quarter at a seasonally adjusted £3.4 billion (Chart 2.3).

It is possible that many companies have succeeded in reducing their debt to desired levels, and their balance-sheet restructuring is now complete. Investment surveys and reports by the Bank's Agents during the fourth quarter suggested that investment was beginning to increase; if confirmed, this could explain the turnaround in corporate borrowing.

ICCs also increased their holdings of M4 deposits by £1.1 billion in the fourth quarter, compared with an average rise of £0.3 billion in the two previous quarters.

Chart 2.4 illustrates the movement of various interest rates over time. It shows the average variable mortgage rate, minimum lending rate, ten-year benchmark, and three-month interbank rate from 1991 to 1995.

The chart indicates a general downward trend in most interest rates during the period. The three-month interbank rate shows significant volatility, particularly around 1992 and 1994. The minimum lending rate and ten-year benchmark also show some fluctuations, with the latter remaining relatively stable around 8%.

British companies now appear to be in a strong financial position and are able to increase investment using their own internal funds. A recent survey by the Bank Consultancy Group reported that the availability and cost of bank finance is less of a concern to companies than it was in 1992.

Divisia

The Bank's Divisia measure of money, which weights the various components of M4 according to their transactions characteristics, rose by 0.5% in the fourth quarter, less than the strong increase of 1.0% recorded in the previous quarter. This gave a four-quarter growth rate of 3.4%. Personal and corporate sector Divisia increased by 0.2% and 1.6% respectively in 1994 Q4; their 12-month growth rates fell to 2.6% and 6.1%.

2.2 Interest rates and exchange rates

Developments in the financial markets affect the assessment of future inflation in three ways:

- First, they may affect the outlook for aggregate demand. For instance, an increase in long-term interest rates is likely to reduce planned investment.
- Second, financial capital flows can alter exchange rates and import prices. An unexpected tightening in domestic monetary policy, for instance, is likely to lead to a temporary appreciation, and therefore cheaper imports for a time.
- Third, financial markets provide information about their participants' average inflation and interest rate expectations. The higher are inflation expectations in the short run, the larger will be the price increases sought by producers. The higher are inflation expectations in the long run, the less is the long-run credibility of monetary policy.

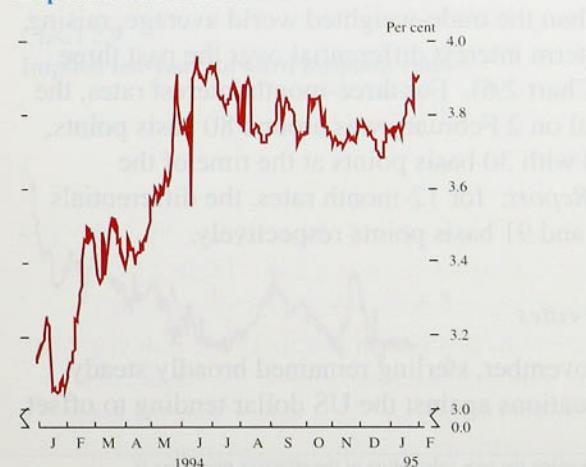
Interest rates

Ten-year gilt yields fell by 29 basis points between 26 October (the closing date for financial data used in the November *Report*) and 2 February, to stand at 8.55%. This change was small relative to intra-period volatility. Chart 2.4 displays the ten-year gilt yield together with a selection of other interest rates. Yields on index-linked gilts provide estimates of real interest rates. Chart 2.5 shows that they have increased slightly since the last *Report*, and are still higher than at the beginning of 1994.

Chart 2.4
Interest rates



Chart 2.5
Expected real interest rates^(a)



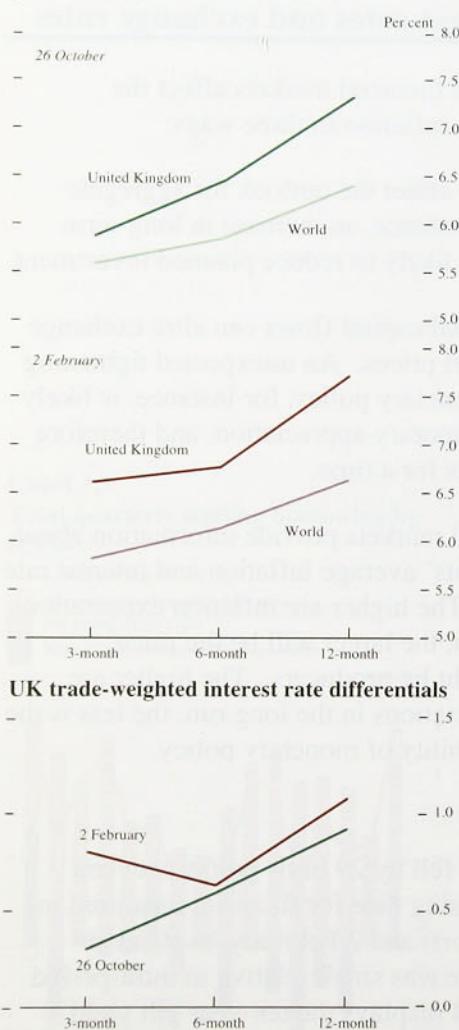
(a) Derived from the par yield curve using the Svensson method.

Table 2.B
Official and key interest rates

Per cent per annum

Country	Interest rate	Date	Change (basis points)	Current level
Sweden	Repo rate	2 Nov.	+20	7.40
United States	Federal funds rate	15 Nov.	+75	5.50
	Discount rate		+75	4.75
United Kingdom	Base rate	7 Dec.	+50	6.25
Finland	Tender rate	9 Dec.	+49	5.50
Australia	Official cash rate	13 Dec.	+100	7.50
Sweden	Repo rate	14 Dec.	+20	7.60
Spain	10-day repo rate	4 Jan.	+65	8.00
Canada	Bank rate	12 Jan.	+12	7.24
		18 Jan.	+97	8.21
United States	Federal funds rate	1 Feb.	+50	6.00
	Discount rate		+50	5.25
United Kingdom	Base rate	2 Feb.	+50	6.75

Chart 2.6
UK and trade-weighted world interest rate yield curves



The 50 basis-point rises in UK short-term official interest rates on 7 December and 2 February had a positive market impact. Following the December rise, sterling rose in effective terms from 89.2 to 89.3;⁽¹⁾ it increased slightly against the dollar from \$1.5630 to \$1.5642. One-month interest rates rose by only $\frac{1}{16}\%$; rates beyond three months held steady or fell; and long-term inflation expectations⁽²⁾ were revised down on the day—although this decline was less significant and more short-lived than the one following the rate rise in September.

Most mortgage lenders announced an increase in their variable mortgage rates following the half-point rise in base rates in December 1994, though generally not by the full amount. The average variable rate (taking the five largest banks and building societies) was 8.27% on 1 February, compared with 8.11% a month earlier.

The February increase in official interest rates appeared to have been generally anticipated in the financial markets. Sterling fell slightly against the Deutsche Mark—to DM 2.405 at the close on 2 February, compared with DM 2.4083 a day earlier—and rose a fraction against the dollar to \$1.582 from \$1.5815. The three-month interest rate implied by the futures contract for March 1995 fell slightly and there was very little change in the three-month rates implied for later dates. Long gilt prices fell a little, but outperformed the German and US government bond markets; long-term inflation expectations were unchanged on the day.

Official interest rates have risen in a number of countries since the November *Report* (see Table 2.B). However, as a result of the tightening of policy in December, short-term rates in the United Kingdom have increased by more than the trade-weighted world average, raising the short-term interest differential over the past three months (Chart 2.6). For three-month interest rates, the differential on 2 February was around 80 basis points, compared with 30 basis points at the time of the previous *Report*; for 12-month rates, the differentials were 109 and 91 basis points respectively.

Exchange rates

During November, sterling remained broadly steady, with fluctuations against the US dollar tending to offset

(1) A note explaining the new calculation of the effective rate index is included in the February *Quarterly Bulletin*, pages 24–25.

(2) As measured by reference to the yields on conventional and index-linked gilts.

Chart 2.7
Sterling exchange rates

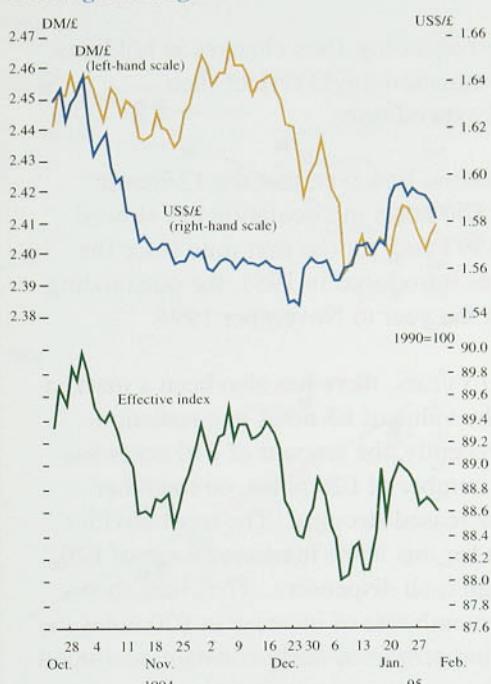
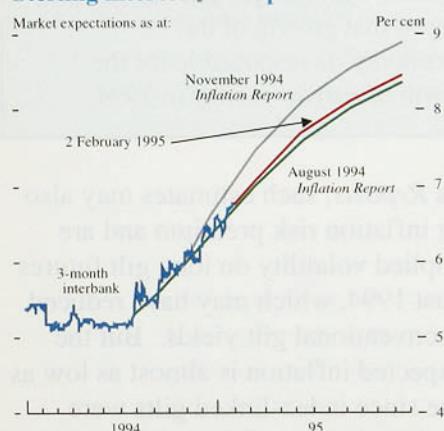
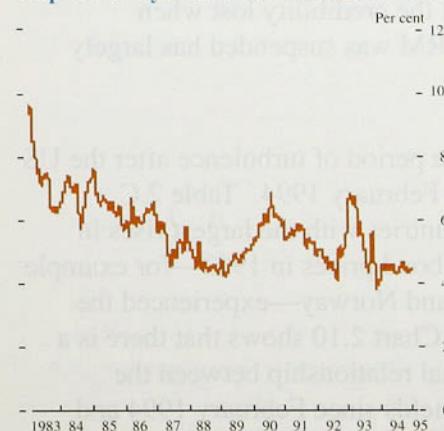


Chart 2.8
Sterling interest rate expectations^(a)



(a) Based on a combination of sterling interest rate future contracts.

Chart 2.9
Implied ten-year forward inflation rates^(a)



(a) 20-day moving average.

movements against the Deutsche Mark (Chart 2.7). The dollar strengthened immediately following the Mexican peso devaluation on 20 December (with investors switching to dollar assets) contributing to a fall in the sterling effective rate (ERI). Sterling weakened against the Deutsche Mark during January, as the latter attracted 'safe-haven' funds.

Sterling's effective rate was expected to depreciate slightly at the time of the November *Report*.

Three-month interest rates were higher on average in the United Kingdom than abroad; for expected returns to be equalised across countries, sterling would have had to fall by around 0.2% over the following three months. In the event, sterling's effective index depreciated by 0.8%, compared with a rise of 3.1% in the dollar index and 1.2% in the Deutsche Mark index. The depreciation took place despite the increase in the trade-weighted interest rate differential in favour of the United Kingdom, which would have tended to strengthen the exchange rate unless it had been entirely discounted in advance. This suggests that market participants revised downwards slightly their view of the likely long-run nominal exchange rate during the quarter.

Market expectations

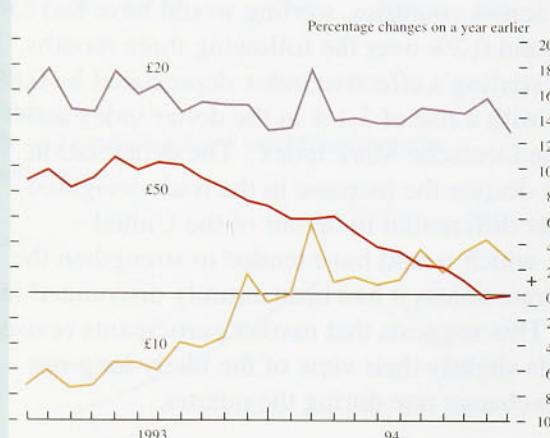
The current structure of short-sterling futures prices suggests that the markets expect further rises in interest rates, although the implied interest rate profile is slightly lower than at the time of the November *Report* (see Chart 2.8). On 26 October, three-month rates in the futures market were 7.5% for March 1995 contracts and 8.9% for December 1995 contracts. However, by 2 February implied rates had fallen to 7.0% for March 1995 and 8.4% for December 1995. Implied forward rates suggest that short-term interest rates are expected to reach a peak of around 9.0% in around 1998. Actual market expectations, however, may be lower than this as futures rates and implied forward rates embody a risk premium. Futures contracts are used as hedging instruments for short-maturity gilts, swaps and fixed-rate mortgages. If, for example, market participants were risk-averse, increased uncertainty over three-month rates (related to uncertainty about the timing and size of prospective base rate rises), might lead to a higher risk premium being incorporated into short-sterling futures rates.

Chart 2.9 shows an estimate of the 12-month inflation rate expected by the gilt market ten years ahead. As

Note circulation: breakdown by denomination

There has been speculation recently that unrecorded transactions have boosted narrow money growth. It is almost impossible to quantify the effects of the 'underground' economy, but additional information may be gained by examining the use of different denominations of banknotes in circulation. If a large proportion of the £50 notes in issue circulate mainly in the

Circulation of £10, £20 and £50 notes



Seasonally adjusted Bank of England note denominations data, corresponding to the last Wednesday figures of each month.

underground economy, then changes in holdings of the denomination might reflect such unrecorded expenditures.

The chart shows, however, that the 12-month increase of £50 notes in circulation has slowed since mid 1993 and, for the first time since the £50 note was introduced in 1981, the outstanding stock fell in the year to November 1994.

In the past 15 years, there has also been a marked decline in the value of £5 notes in circulation. And more recently, the amount of £10 notes has fallen. The number of £20 notes, on the other hand, has increased strongly. The most obvious explanation for this is the increased issue of £20 notes through cash dispensers. The chart shows that the 12-month rate of increase in £20 notes in circulation has remained fairly constant, at around 15% over the past two years.

Recent developments accordingly provide no evidence to suggest that growth of the 'underground economy' is responsible for the high rate of growth of narrow money in 1994.

Table 2.C
Financial market developments

	Long-dated bond yields (a) (basis-point change)			Current yield (2 Feb.)
	(b)	(c)	(d)	
United Kingdom	-29	250	-227	8.55
United States	-20	199	-79	7.67
Germany	-16	208	-166	7.46
France	-27	257	-247	8.10
Japan	-2	131	-147	4.63
Italy	29	368	-497	12.36
Canada	4	247	-127	9.15
Sweden	-10	385	-298	10.88
Switzerland	-33	114	-166	5.25
Belgium	-18	195	-139	8.33
Netherlands	-1	213	-165	7.63
Spain	47	377	-446	11.71
Denmark	—	302	-286	8.94
Norway	-65	238	-351	8.06
Finland	16	328	-398	10.23
Austria	2	179	-140	7.72
Australia	-16	321	-235	10.27

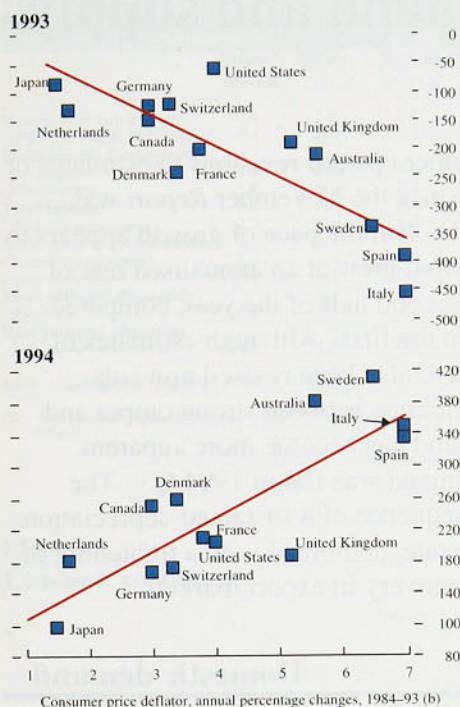
Source: Datastream.

- (a) Ten-year benchmark government bonds, redemption yields, mid-day yields.
- (b) Changes between previous *Inflation Report* (26 October) and 2 February 1995.
- (c) Changes between 4 January and 30 December 1994.
- (d) Changes between 4 January and 31 December 1993.

explained in previous *Reports*, such estimates may also incorporate a varying inflation risk premium and are approximate. The implied volatility on long gilt futures has fallen since August 1994, which may have reduced the risk premium in conventional gilt yields. But the chart suggests that expected inflation is almost as low as it has been at any time since index-linked gilts were introduced in 1981 and made it possible to measure expectations in this way. If these estimates are a measure of the anti-inflationary credibility of monetary policy, it appears that the credibility lost when membership of the ERM was suspended has largely been regained.

The markets entered a period of turbulence after the US interest rate rise on 4 February 1994. Table 2.C illustrates that the countries with the largest rises in ten-year government bond prices in 1993—for example Italy, Spain, Finland and Norway—experienced the largest falls in 1994. Chart 2.10 shows that there is a positive cross-sectional relationship between the movements in bond yields since February 1994 and average annual inflation rates between 1984 and 1994.

Chart 2.10
Yield changes and inflation^(a)



Not surprisingly, an economy's past experience of inflation appears to have been an important determinant of inflation expectations.

International bond markets stabilised towards the end of 1994. UK gilts have risen in price and outperformed several other government bond markets since the November *Report*. In particular, the spread of ten-year gilt yields over US and German equivalents has narrowed, by nine and 131 basis points respectively.

2.3

Summary

Broad money growth remained subdued in the fourth quarter. Credit growth, however, picked up—its 12-month growth rate was 4.6% in December, up from 3.7% in September. M0 continues to grow above its 0%–4% monitoring range, but, as expected, has recently been slowing down.

Financial market developments have given encouraging signals about the credibility of UK monetary policy. The short-term interest rates implied by futures markets have fallen since the November *Report*, though they still indicate that further rises in interest rates are expected. International bond markets stabilised towards the end of 1994. UK gilt yields have fallen in the past three months and outperformed several other bond markets. Against a volatile international background, sterling has remained relatively stable.

Chart 3.1
Revisions to GDP at 1990 factor cost

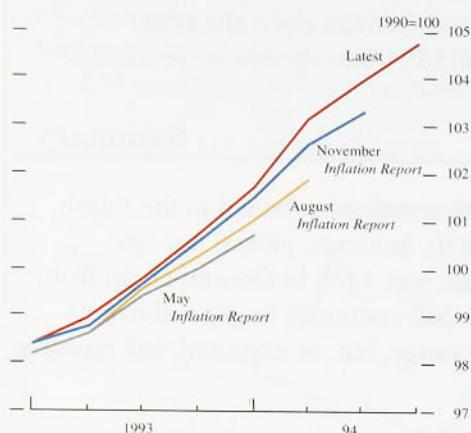


Chart 3.2
Revisions to domestic demand at 1990 market prices

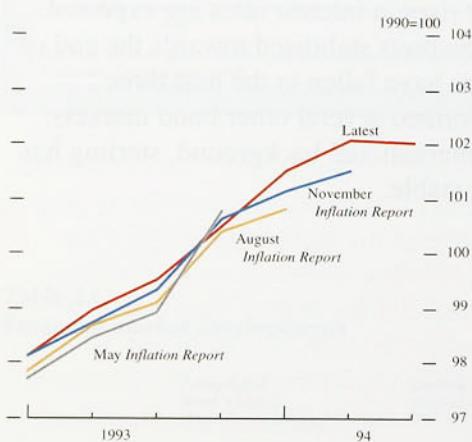


Table 3.A
Real GDP and domestic demand

Percentage quarterly changes; 1990 market prices

	1994 Q3	1994 Q4	1992 Q1–94 Q2 average
Consumption	0.5	..	0.6
Investment	-0.6	..	0.3
Government spending	0.3	..	0.1
Stockbuilding (a)	-0.3	..	0.1
Domestic demand	—	..	0.6
Net trade (a)	0.9	..	0.2
Factor cost adjustment (a)	-0.1	..	-0.1
GDP at 1990 factor cost	0.8	0.8	0.7
of which, non-oil	0.8	0.7	0.6

.. not available.

(a) Percentage contribution to GDP.

There have been further upward revisions to estimates of real output in 1994 since the November *Report* was published (Chart 3.1). But the pace of growth appears to have slackened—output grew at an annualised rate of just over 3% in the second half of the year, compared with well over 4% in the first. Although estimates of domestic demand have also been revised upwards (Chart 3.2), the divergence between strong output and weak domestic demand has become more apparent. Indeed, domestic demand was flat in 1994 Q3. The divergence is a consequence of a sustained depreciation in the real exchange rate, combined with a tightening of fiscal policy and a recovery in export markets.

3.1

Domestic demand

Real domestic demand increased by 2.5% in the year to 1994 Q3. Nominal domestic demand increased by 5.0%. Growth in every major component of private sector domestic demand was less in the third quarter of 1994 than on average in the recovery up to that date (Table 3.A).

Consumption

Personal sector consumption growth slowed in the first three quarters of 1994 to an average quarterly rate of 0.4%. This compares with an average rate of 0.8% in 1993. Tax increases and the uncertainty about employment prospects reflected in survey evidence (see Section 4) were the main factors behind the slowdown. In 1994 Q3, spending on services spearheaded the 0.5% increase in personal consumption. Retail sales volumes increased by 0.5% in the fourth quarter, compared with 0.8% in the third. Much of the increase came in December; the household goods sector was particularly strong. The January CBI Distributive Trades Survey showed that sales by retailers were broadly in line with what they expected in December, after several months when they had been below expected levels.

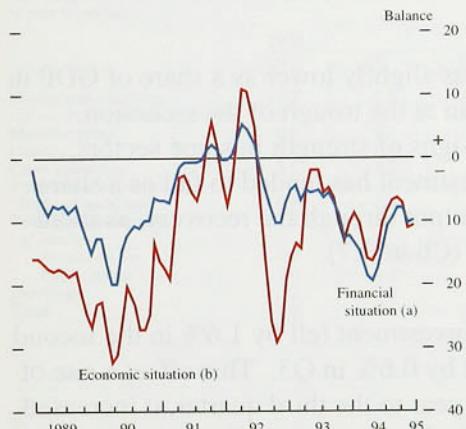
The CBI Distributive Trades Survey also found that retailers expected sales in January to be slightly below normal for the time of year. According to data released by the British Retail Consortium and Touche Ross,

Table 3.B
Personal disposable income at current prices

	Quarterly changes	Four-quarter changes		
	1994 Q2	1994 Q3	1994 Q2	1994 Q3
Income from employment of which, wages and salaries	-0.4	1.0	3.1	3.4
Current grants from general government	-0.4	1.0	3.2	3.6
Other income	-1.0	3.0	4.9	6.5
Total income	0.5	2.2	3.4	5.3
UK taxes on income	2.3	4.4	6.8	12.4
Social security contributions	2.2	-0.3	8.9	7.0
Council tax payments	7.5	—	7.5	7.5
Other deductions	7.4	-1.4	9.4	-0.3
Total personal disposable income	-0.1	2.2	2.4	4.1
Real personal disposable income (a)	-0.7	1.5	-0.2	1.5
Memo: saving ratio (per cent)	9.6	10.5		

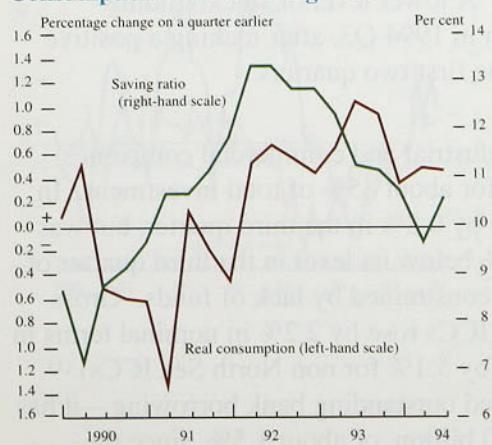
(a) Total personal disposable income revalued by the implied consumers' expenditure deflator.

Chart 3.3
Consumer confidence



(a) Response to a question on financial situation of respondent's household over the next year.
(b) Response to a question on general economic situation over the next year.

Chart 3.4
Consumption and the saving ratio



non-food sales in the first three weeks of January were little changed from those a year earlier.

Personal consumption is determined by expectations of future, as well as current, real income. This means it tends to fluctuate less than real personal disposable income, which fell by 0.7% in 1994 Q2, but rose by 1.5% in 1994 Q3 (Table 3.B). Recent Gallup surveys of consumer confidence have shown no clear trend (Chart 3.3). In the period from November to January, the balance of respondents expecting the general economic situation to improve in the next year was close to its long-run average. However, the balance expecting their household's financial position to improve was below its long-run average. Consumers are, therefore, likely to remain cautious about their real income growth in the short term and to save most of any increase in disposable income (Chart 3.4).

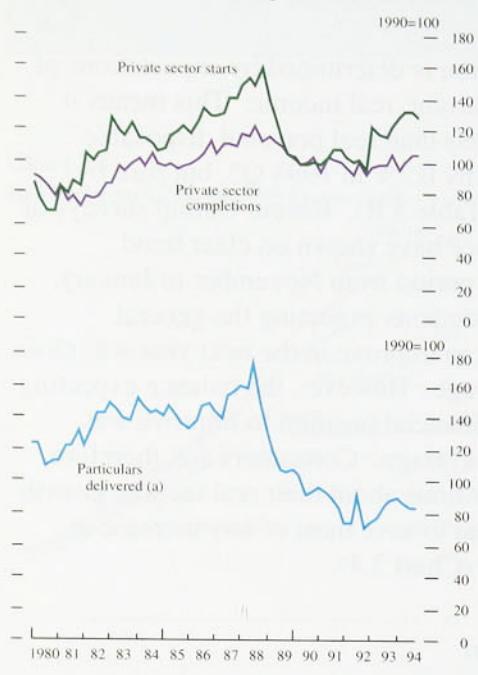
The housing market

The housing market has been affected by the factors restraining personal consumption. Turnover, as measured by particulars delivered, is subdued; as a proportion of the owner-occupied housing stock, it is now about 25% lower than in 1980. Activity in the new homes sector is more buoyant: housing starts and completions both appear to be on an upward trend (Chart 3.5).

In January, house prices were 0.4% above their level a year earlier on the Halifax Building Society's index. Second-hand house prices have been more volatile than new house prices (Chart 3.6). In the early 1990s, second-hand house prices were depressed by distress selling and by sales of possessed properties. More recently, they have increased more rapidly than new house prices, partly because there have been fewer possessed properties on the market. The stock of possessed properties held by lenders fell to 29,400 in the second half of 1994, from a peak of 67,400 in the second half of 1991; 24,200 properties were taken into possession. The Nationwide Building Society's seasonally adjusted index shows that prices were 0.5% lower than a year earlier.

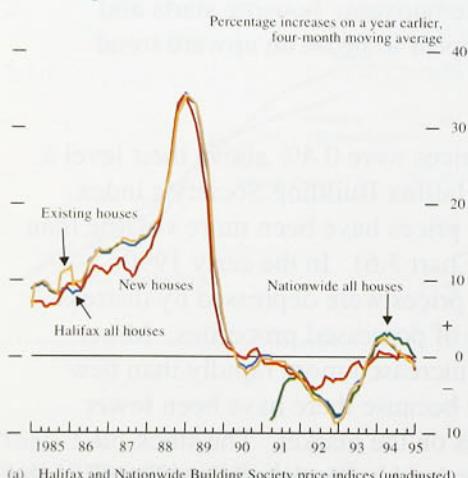
The Bank estimates that negative equity amounted to around £6 billion in the fourth quarter of 1994, some £1½ billion less than a year earlier (based on non seasonally adjusted regional house price indices from the Halifax Building Society). Around 1¼ million

Chart 3.5
Housing market activity



(a) As a proportion of owner-occupied housing stock.

Chart 3.6
House prices^(a)



(a) Halifax and Nationwide Building Society price indices (unadjusted).

households were affected. The figures suggest that negative equity was higher than in the third quarter, but this was largely the result of the normal seasonal fall in house prices. Estimates of negative equity are sensitive to the particular measure of house prices chosen. Approximately 250,000 mortgages were more than six months in arrears at the end of 1994—about 2½% of outstanding mortgages.

In recent years, potential first-time buyers have become more cautious because of reductions in MIRAS tax relief, changes in income support rules and greater perceived job insecurity. Demographics have also had an impact, reducing the size of the relevant age group. Hence an increase in turnover and house price inflation to the levels seen in the mid and late 1980s should not be expected.

Investment

Total investment was slightly lower as a share of GDP in the third quarter than at the trough of the recession, although there are signs of strength in some sectors. Manufacturing investment has tended to fall as a share of manufacturing output through the recovery, as it did in the previous one (Chart 3.7).

In real terms, total investment fell by 1.6% in the second quarter of 1994 and by 0.6% in Q3. This offset a rise of 2.3% in Q1. In the year to the third quarter, it increased by 2.2% (Table 3.C). The subdued state of the housing market was reflected in a fall of 1.3% in investment in dwellings. This, coupled with a fall in investment in oil and gas extraction, masked relative strength in other sectors. If dwellings, oil and gas extraction are excluded, private sector investment rose by 5.2% in the year to 1994 Q3. A lower level of stockbuilding restrained growth in 1994 Q3, after making a positive contribution in the first two quarters.

Investment by industrial and commercial companies (ICCs) accounts for about 45% of total investment. In real terms, it rose by 0.8% in the third quarter, but was nevertheless 4.6% below its level in the third quarter of 1993. It was not constrained by lack of funds. Gross trading profits of ICCs rose by 2.2% in nominal terms in the third quarter (by 5.1% for non North Sea ICCs).⁽¹⁾ ICCs again reduced outstanding bank borrowing—it has fallen by over £20 billion, or about 1.5%, since the

(1) ICCs' profitability is also discussed in Section 5 of the Report.

Chart 3.7
Investment as a share of output

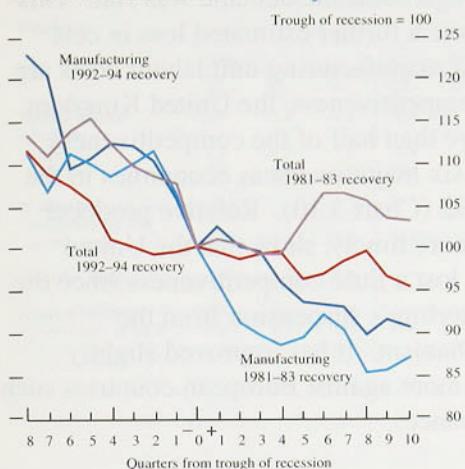
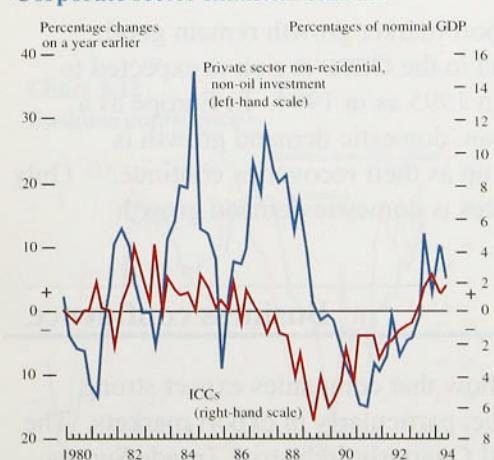


Table 3.C
Gross domestic fixed capital formation

Percentage contributions to total investment growth
in year to period

	1994		
	Q1	Q2	Q3
Mining and quarrying	-2.5	-1.5	-0.9
of which, oil and gas extraction	-2.4	-1.7	-0.8
Manufacturing	-0.5	0.2	0.2
Utilities	-0.1	-0.7	-1.0
Other industries	3.3	5.2	4.2
Transfers of existing land and buildings	0.9	0.4	—
Total non-residential	1.1	3.7	2.5
of which:			
Private sector	-0.9	3.9	2.2
Public sector	2.0	-0.2	0.2
Dwellings	2.2	0.9	-0.3
Total	3.3	4.6	2.2

Chart 3.8
Corporate sector financial balance



trough of the recession.⁽¹⁾ ICCs recorded a financial surplus of £2.7 billion or 1.9% of GDP, the fifth consecutive quarterly surplus (Chart 3.8).

The commercial property market is moving slowly out of recession, although a recent CBI survey reported that demand for commercial property is not increasing as rapidly as activity, and that a third of large corporations expect to reduce their property holdings in the first half of 1995. Rents for prime sites are beginning to recover, but there is little sign of any general increase in rents.

Government spending

General government current expenditure rose by 0.3% in real terms in the third quarter of 1994. This was much in line with the increases seen in the recovery so far, but a little above what had been expected, as lower inflation increased the real spending permitted by the Control Total (public spending net of cyclical social security, debt interest and accounting adjustments). Central government increased spending most; local government current spending remained extremely subdued. Public sector investment—which is often volatile—rose by 12% in 1994 Q3, and was 7.0% above its 1993 Q3 level. The public sector borrowing requirement (PSBR) between April and December 1994 was £23.3 billion, down from £31.4 billion in the same period of 1993/94.

The Budget presented on 29 November confirmed the path of fiscal consolidation laid out in previous Budgets. The PSBR is now expected to fall more sharply than forecast in November 1993, because of stronger than anticipated activity and lower than anticipated inflation. It is projected to be £21½ billion (3% of GDP) in 1995/96. This will require a 0.8% cut in real terms in the Control Total.

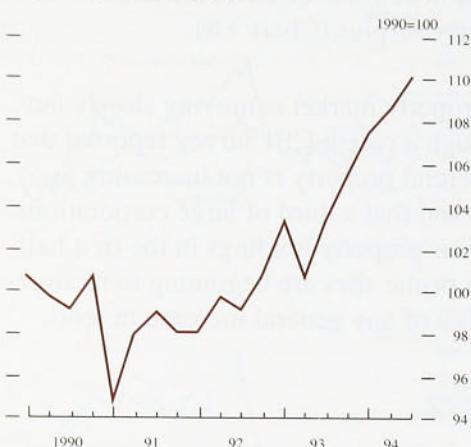
3.2

Net external trade

With domestic demand restrained, net external trade accounted for all the growth in output in the third quarter of 1994 (Table 3.A). From the start of the recovery to the end of 1993, growth had been driven by domestic demand. In 1994, demand shifted from foreign-produced to UK-produced traded goods in both foreign and domestic markets. Export volumes rose by 2.6% in 1994 Q3, although estimated export market

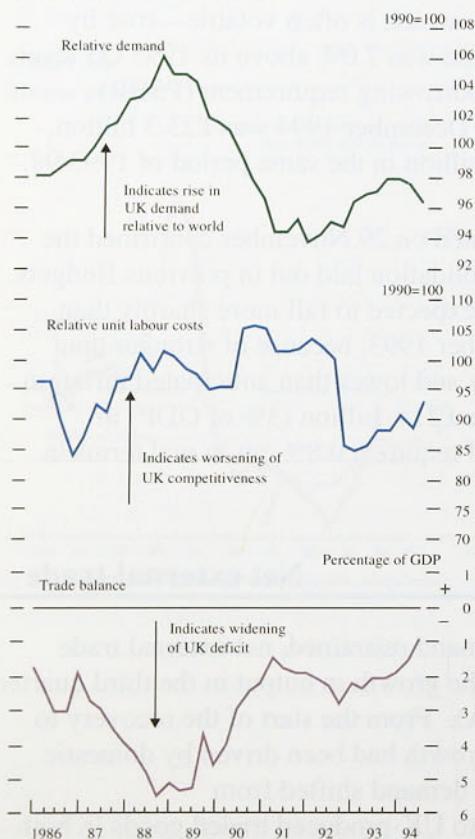
(1) Banking data discussed in Section 2 of the Report show that bank borrowing by ICCs was flat in 1994 Q3. However, the financial transactions account reported here contains a large balancing item.

Chart 3.9
Export market share^(a)



(a) Exports of goods and services, as a share of domestic demand in the major overseas economies.

Chart 3.10
Relative demand and costs and the trade balance



growth was only about 1% (Chart 3.9). Import volumes fell by 0.3%, although domestic demand was flat. This shift occurred despite a further estimated loss in cost competitiveness. If manufacturing unit labour costs are used to measure competitiveness, the United Kingdom has lost a little more than half of the competitiveness gained against the six major overseas economies in the third quarter of 1992 (Chart 3.10). Relative producer prices, which are more timely, show that the United Kingdom has only lost a little competitiveness since the period following sterling's suspension from the exchange rate mechanism. It has improved slightly against Japan, and more against European countries such as Germany and France.

The strong export performance in the third quarter of 1994 narrowed the visible trade deficit from £2.4 billion in Q2 to £1.6 billion in Q3. Together with an improvement in the invisible balance, this produced the first current account surplus since early 1987 (Table 3.D). In October 1994, the trade deficit widened slightly from £0.5 billion to £0.6 billion, but this was largely accounted for by oil and erratic items. Export volumes excluding oil and erratic items grew at an annual rate of 30% in the three months to October compared with the previous three months; import volumes increased by 10%. More timely data are available on trade with countries outside the European Union. These suggest that import volume growth has picked up. In the fourth quarter, export volumes excluding oil and erratic items rose at an annualised rate of 13%, while import volumes grew by 28%.

Prospects for export market growth remain good. Domestic demand in the OECD region is expected to grow as rapidly in 1995 as in 1994. In Europe as a whole and in Japan, domestic demand growth is expected to pick up as their recoveries continue.⁽¹⁾ Only in the United States is domestic demand growth expected to slow.

3.3

Business confidence

Recent surveys show that companies expect strong growth to continue, particularly in export markets. The January 1995 CBI Quarterly Industrial Trends Survey showed that manufacturing output rose sharply over the preceding four months, while business confidence rose for the ninth survey in succession. Both domestic and export demand grew more rapidly than had been

(1) Further details on developments in the major overseas economies are given on pages 15–23 of the February 1995 *Quarterly Bulletin*.

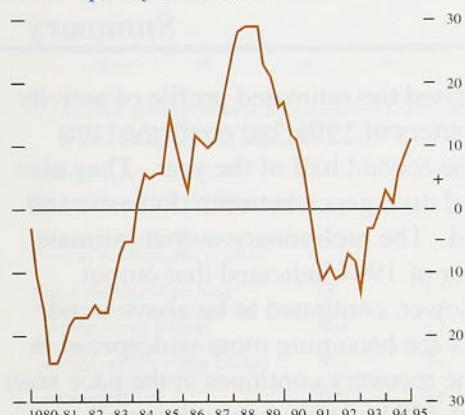
Table 3.D
External accounts

£ billions

	1994	Q1	Q2	Q3	Oct.	Nov.	Dec.
Visible balance	-3.0	-2.4	-1.6	-0.6	—	—	...
of which:							
Non-EU	-2.1	-1.5	-1.0	-0.4	-0.4	-1.1	
EU	-0.9	-0.9	-0.6	-0.2	—	—	...
Visible balance excluding oil and erratic items	-4.2	-4.1	-3.0	-0.9
Invisible balance	1.5	1.3	2.4	—	—	—	...
Current balance percentage of GDP	-1.5	-1.1	0.8	—	—	—	...
— not available.							

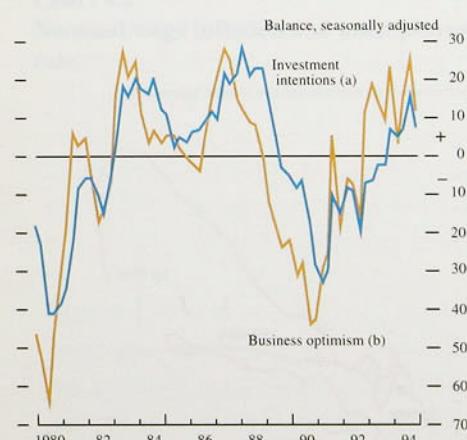
... not available.

Chart 3.11
CBI capacity utilisation^(a)



(a) Balance of respondents indicating current capacity adequate to meet demand minus long-run average (inverted).

Chart 3.12
Business confidence^(a)



Balances from CBI Industrial Trends Survey:
(a) those firms planning to increase spending on plant and machinery minus those planning to reduce it;
(b) those firms more optimistic about general business situations compared with four months earlier minus those firms less optimistic.

expected, and the number of firms reporting working below capacity fell to the lowest level seen since July 1990 (Chart 3.11). The Chartered Institute of Purchasing and Supply reported in January that the manufacturing economy continued to expand, but that growth was slowing. Increasing delivery times from suppliers indicate the existence of capacity constraints.

The British Chambers of Commerce Quarterly Economic Survey reported in January that the balance of manufacturing exporters enjoying increasing orders was the highest since the Survey began in 1985. Sales and deliveries in the domestic market also continued to increase, but the Survey reported that the impact of interest rate increases was being felt. Capacity utilisation in manufacturing was reported to be at its highest level for five years—a picture confirmed by other surveys which identified supply constraints in a number of sectors, such as chemicals.

Companies are becoming less positive about future investment. Both the CBI and the Chambers of Commerce found that investment intentions were marginally less buoyant than previously reported, despite evidence that capacity utilisation in manufacturing has reached levels last seen at the peak of the previous cycle. Respondents to the CBI Survey said any investment was undertaken to increase efficiency and not to expand capacity; uncertainty about demand was the main factor dampening investment plans (Chart 3.12).

3.4

Output

Output is now thought to have risen by 0.8% in the third quarter of 1994, and by 4.1% in the year to the third quarter (Table 3.A). These increases were previously estimated to have been 0.7% and 3.6% respectively. Non North Sea output also rose by 0.8% in 1994 Q3, giving a four-quarter growth rate of 3.6%. Preliminary estimates indicate that output grew by another 0.8% in the fourth quarter of 1994. In nominal terms, output increased by 1.5% in 1994 Q3, and by 5.7% in the year to Q3.

National Accounts data show that all the main components of output (with the exception of construction) grew robustly in the third quarter, with manufacturing output rising by 1.2% and total services output increasing by 0.8% (Table 3.E). Output is now higher than its previous peak in all sectors except construction and manufacturing. It was surprising that

Table 3.E
Output components of GDP at 1990 factor cost

Percentage changes in italics

	Weights (a)	Quarterly changes		Four-quarter changes	
		Q2	Q3	Q2	Q3
Construction	72	1.1	-1.3	3.7	2.3
Production of which:	281	2.2	1.3	6.0	5.9
Manufacturing (b)	237	1.6	1.2	3.9	5.0
Mining and quarrying including oil and gas extraction	22	4.5	0.9	25.9	18.0
Services of which:	629	1.0	0.8	3.3	3.3
Financial and business Distribution, hotels, catering	186	1.0	0.9	3.0	3.4
Transport, storage, communication	142	1.4	0.9	4.1	4.3
GDP	1,000	1.4	0.8	4.2	4.1
Non-oil	983	1.3	0.8	3.7	3.6

(a) 1990 weights in GDP, out of 1,000.

(b) Revised definition.

provisional data for November indicated that industrial production fell by 1.0% in the month; part of this was due to a fall in electricity output brought about by good weather, but manufacturing output fell by 0.7%—the largest monthly fall since June 1993—despite strong labour demand in the sector.

Output growth was slower in the second half of 1994 than in the first. But it was still higher than the rate at which output can grow in the long run without adverse inflationary consequences; the ‘output gap’ continued to close. Output growth will have to slow down to a rate consistent with the accumulation of capital, labour force growth and innovation. In the past, this has been in the range of 2%–2½% a year. At the moment, however, there is still some spare capacity (particularly in sectors catering primarily to domestic demand).

3.5

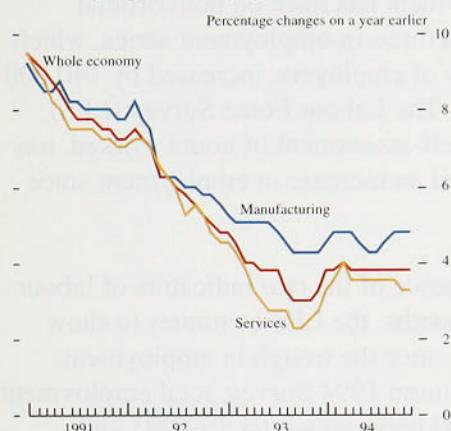
Summary

Rewrites to data raised the estimated profile of activity in the first three quarters of 1994, but confirmed that growth slowed in the second half of the year. They also showed a substantial divergence between domestic and net external demand. The preliminary output estimate for the fourth quarter of 1994 indicated that output growth, although slower, continued to be above trend. Capacity constraints are becoming more widespread in industry. Even if the recovery continues at the pace seen in the second half of 1994, supply constraints will intensify. This will increase inflationary risks unless productive capacity increases.

The labour market

Chart 4.1

'Underlying' earnings growth^(a)



(a) Underlying earnings growth is calculated by the Employment Department and makes allowances for temporary influences such as arrears of pay, variations in the timing of settlements, industrial disputes and the influence of public holidays in relation to the survey period.

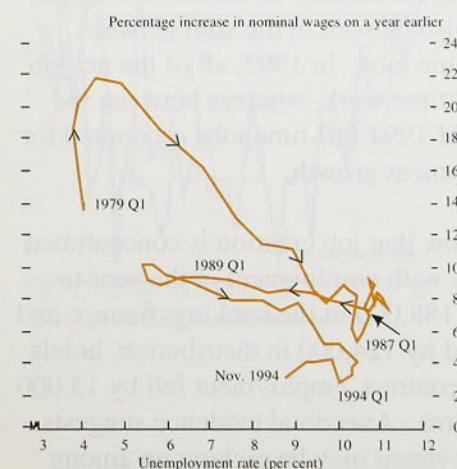
Table 4.A
Earnings and settlements

Percentage changes over a year earlier
Previous month/quarter in italics

	Q3	3.5	3.1
Wages and salaries per head			
Whole economy actual average earnings (Great Britain)	Nov.	3.2	3.9
Whole economy underlying average earnings (Great Britain)	Nov.	3 3/4	3 3/4
IRS whole economy settlements (a) (b)	Dec.	3.0	3.0
IRS private sector settlements (a) (b)	Dec.	3.0	3.0
IRS public sector settlements (a) (c)	Dec.	2.5	2.5
CBI manufacturing settlements (b)	Dec.	3.1	3.0
CBI services settlements	Q4	3.5	3.7
IDS (d)	Jan.	3.0-3.9	3.0-3.9
LRD (b) (e)	Dec.	3.0	2.9

(a) IRS = Industrial Relations Services.
(b) Median for three months ending.
(c) Median for twelve months ending.
(d) IDS = Income Data Services. Range in which the median settlement falls.
(e) Labour Research Department: Bargaining Report.

Chart 4.2
Nominal wage inflation and unemployment rate



4.1

Earnings

Whole economy underlying earnings rose by 3 3/4% in the year to November, unchanged from October. Within the total, underlying manufacturing earnings increased at a 12-month rate of 4 3/4%: this was unchanged from the previous month, but up from 4 1/2% in August. In the service sector, underlying earnings growth fell from 3 1/2% in September to 3 1/4% in November (see Chart 4.1).

There is no official measure of pay settlements, but survey evidence suggests that settlements have increased slightly since the time of the November Report (see Table 4.A). According to the Industrial Relations Services survey, for example, average settlements were around 2.5% in the first three quarters of 1994, but increased to 3% in the last three months of the year. Around a quarter of all wage agreements have January implementation dates, however, and it is not yet clear whether settlements are about to increase. Early indications are mixed. The IRS suggested that a higher level of settlements was being maintained in 1995; the CBI Pay Databank showed pay awards starting to ease towards the turn of the year.

Historical experience suggests that the current behaviour of wages is not unusual for this stage of the business cycle. In the past, wages growth has remained relatively steady for long periods while unemployment has been changing rapidly. In the mid 1980s, for example, wage inflation rose by less than three percentage points while unemployment fell by five percentage points. Similarly, between 1990 and 1992 unemployment rose by four percentage points and nominal wage inflation fell by around two percentage points. But that does not necessarily imply that wages growth will remain subdued. Wages growth can increase suddenly with little movement in the unemployment total. Chart 4.2 shows that, in 1979 alone, nominal wage inflation picked up by almost ten percentage points.

Any increase in nominal wages depends on both the real wage and the inflation expected by wage bargainers—on both sides of the table. What will happen to the real

wage? The target real wage depends upon the degree of labour market tightness, productivity increases and the structure of the labour market.

4.2

Labour demand

There is clear evidence that the demand for labour is increasing. Employment has risen on both official measures. The workforce-in-employment series, which is based on a survey of employers, increased by 140,000 in the third quarter. The Labour Force Survey (LFS), which is based on self-assessment of hours worked, has consistently recorded an increase in employment since the spring of 1993.

Despite the convergence of the two indicators of labour demand in recent months, the LFS continues to show greater job creation since the trough in employment. According to the autumn 1994 Survey, total employment increased by 408,000 between winter 1992/93 and autumn 1994. In comparison, the employer-based survey recorded a 66,000 rise in total (GB) employment between December 1992 and September 1994. One explanation for the discrepancy is that the LFS is faster at recording jobs created by new businesses. It is also possible that the workforce-in-employment series is depressed as a result of companies neglecting to declare jobs involving short-term contracts. If so, the LFS would provide a more accurate measure of demand conditions.

One way of adjusting for the number of part-time jobs when assessing the aggregate demand for labour is to consider the overall number of hours worked. According to the LFS, aggregate hours worked in the whole economy rose by around 1.4% between the summer of 1993 and the summer of 1994. This supports the picture of increasing demand for labour. Evidence of a tighter labour market can also be seen in the split between full-time and part-time jobs. In 1993, all of the net job creation was in part-time work, whereas between the spring and autumn of 1994 full-time jobs accounted for 65% of total employment growth.

Recent LFS data show that job creation is concentrated in the service sector, with employment in the year to autumn 1994 up by 188,000 in the banking, finance and insurance sector, and by 124,000 in distribution, hotels and restaurants. In contrast, employment fell by 13,000 in manufacturing firms. Anecdotal evidence suggests, however, that employment may be picking up among

smaller manufacturing firms. For example, the January CBI Quarterly Industrial Trends Survey noted that manufacturers expected almost no job losses over the next four months—the most positive outlook for jobs since April 1989—and firms with fewer than 500 staff expected to take on workers. This is consistent with strong demand for UK exports. Nevertheless, if competition in the retail sector continues to intensify, this could lead to job-shedding among larger retailers in 1995.

The dichotomy between the tradable and non-tradable sectors of the economy could, other things being equal, drive up real earnings for any given level of unemployment. This would happen if the reallocation of resources from job-shedding to job-creating sectors of the economy was slow, leading to skill shortages and greater pay differentials between the sectors. However, the decline in manufacturing employment since 1979 may mean that the skills needed to meet the demand for tradable goods will be available among the unemployed and workers in other sectors. The January CBI Quarterly Industrial Trends Survey reported that 10% of firms expected their output to be limited by a lack of skilled labour, compared with 28% when the series peaked in October 1988.

4.3

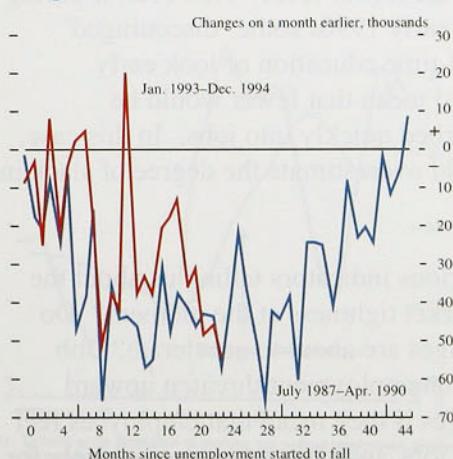
Unemployment

Claimant unemployment fell by 54,600 in December, after declining by 45,900 in November and 48,400 in October. Over the three months, the average monthly drop in the number of people claiming benefit was 49,600. This compares with 38,300 over the six months to December and 29,800 over the year as a whole. Unemployment according to the internationally-standard International Labour Office definition has also fallen sharply. It was down 144,000 in the three months to November—and has shown a similar profile to the claimant count since unemployment started to decline.

Unemployment is falling much earlier in the present output recovery than in previous recoveries. But the size of recent falls in the number of claimants is not out of line with those seen at a similar stage of the previous unemployment cycle (see Chart 4.3). Comparisons with the 1980s are complicated by the introduction of the Restart⁽¹⁾ programme in 1986, but this phenomenon, taken at face value, may be a consequence of the

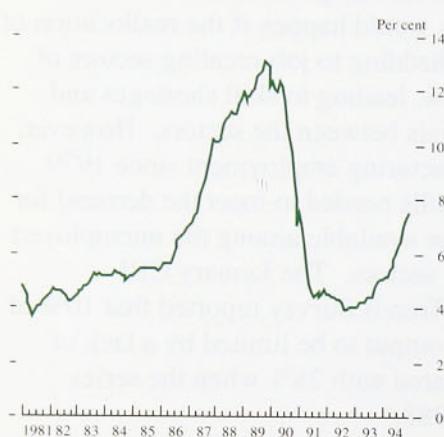
(1) From 1986 onwards, people receiving unemployment benefit have been interviewed regularly and urged to find work.

Chart 4.3
Falls in unemployment: recoveries compared



vacancies and claimants were both increasing in December, but there is a general downward trend in the ratio over the period. This reflects the fact that over time, the labour market has become more efficient at matching workers with vacancies.

Chart 4.4
Ratio of vacancies to unemployment



deregulation of the labour market. If firms found it easier to hire and fire, that would bring forward any declines in the claimant count.

4.4 Alternative measures of labour market tightness

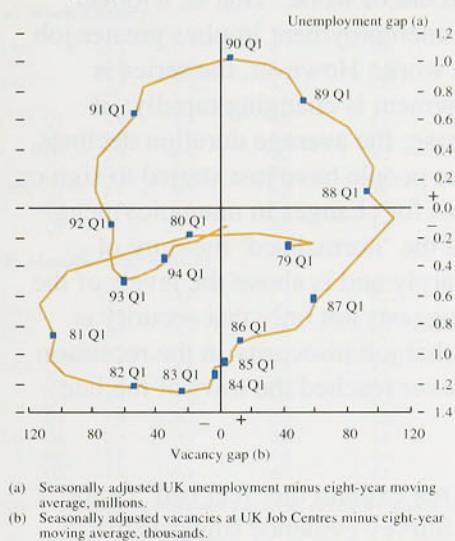
The interpretation of each labour market indicator is fraught with difficulty. Not only have different measures of labour demand sometimes shown contrasting patterns, the claimant count depends on the tax structure, eligibility rules and the efficiency of Job Centres as well as on the state of the labour market. There are, however, other measures of labour market tightness. These include vacancies and inactivity rates.

The number of vacancies advertised at Job Centres was flat in December, after rising strongly in October and November. Vacancies tend to rise as a proportion of unemployment as output strengthens. Chart 4.4 shows that the ratio of unfilled vacancies to total unemployment stood at 7.5% in December, its highest level since January 1991. However, it remained significantly below the peak of 13.1% reached in 1989.

Inactivity rates—the proportion of people of working age not employed—can also be used to assess the tightness of the labour market. Inactivity would be a good guide to the state of the labour market if there were many people out of work who would start looking for a job if they thought that the demand for labour had increased. This was the case in the mid 1980s, for instance, when all of the net jobs created in the recovery were taken by women who joined the labour force. However, if during the recession of the early 1990s some ‘discouraged’ workers entered full-time education or took early retirement, this could mean that fewer would be available to be absorbed quickly into jobs. In this case, inactivity rates would overestimate the degree of slack in the labour market.

But what are the various indicators telling us about the degree of labour market tightness at the moment? Do they suggest that wages are about to accelerate? Job creation and falling unemployment threaten upward pressure on real wages if they mean that employees feel more secure in their jobs and push more aggressively for pay increases, and employers resist less because they are eager to retain experienced workers. Pay will rise if the jobless total is pushed below the ‘natural’ rate of unemployment—the rate of unemployment consistent

Chart 4.5
Unemployment and vacancies



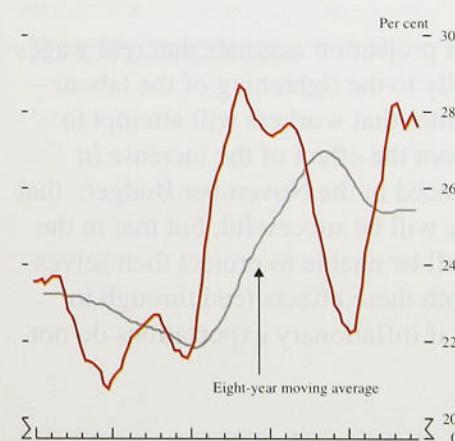
- (a) Seasonally adjusted UK unemployment minus eight-year moving average, millions.
 (b) Seasonally adjusted vacancies at UK Job Centres minus eight-year moving average, thousands.

with stable inflation given the stance of monetary policy. If this happens, upward pressure is exerted on costs, adding to the pressure for firms to charge more for their goods.

One way to gauge the degree of tightness in the labour market is to compare each indicator with its historical average. However, this ignores the fact that periods of high unemployment lead to skill erosion and demoralisation among people out of work, particularly the long-term unemployed, removing some from the pool of labour actively competing for jobs. Although demoralisation may be reversed if labour demand increases for a sustained period, skills may be lost permanently, implying that the level of unemployment which is consistent with stable inflation changes over time.

An alternative method, which acknowledges that the number of people actively looking for work changes over time, is to compare the various indicators with a more recent trend in unemployment. Using a moving average of the past eight years as a rough guide to what is happening to the natural rate of unemployment suggests that some slack remains in the labour market. Chart 4.5 shows the gap between the actual level of unemployment and its moving average against the gap between the actual number of vacancies and their moving average. It suggests that although some slack is left in the labour market it is fast being eroded. There are, of course, other methods of estimating the levels of unemployment and vacancies consistent with stable inflation.

Chart 4.6
Inactivity^(a)



- (a) Defined as the population of working age without employment divided by the population of working age, expressed as a percentage.

A comparison of the inactivity rate with its eight-year trend suggests a much greater degree of slack. Chart 4.6 shows that inactivity remains significantly above trend. Taken at face value, this would imply that downward pressure on real wages should continue for some time. However, for reasons outlined above, it is likely to exaggerate the degree of slack. The true degree of labour market slack probably lies somewhere between the estimates derived from unemployment and inactivity data, suggesting that real wages are unlikely to pick up sharply in the near future. It is also possible that a given degree of tightness in the labour market will now exert less upward pressure on real wages than it has in the past, for example, because lower perceived job security could lower the real wage targeted by employees.

So how secure do workers feel in their jobs? Falls in the unemployment count would imply greater job security if

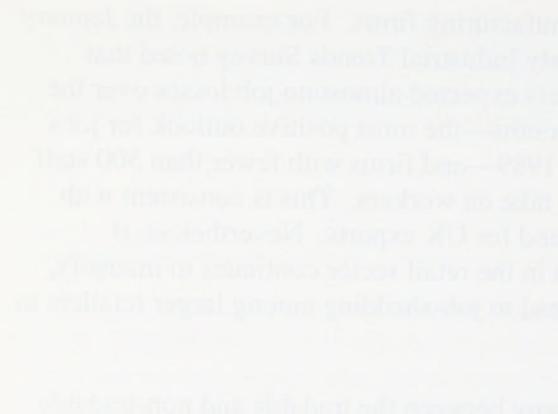


Chart 4.4
Ratio of vacancies to unemployment

deregulation of the labour market. If firms found it easier to hire and fire, that would bring forward any declines in the claimant count.

4.4 Alternative measures of labour market tightness

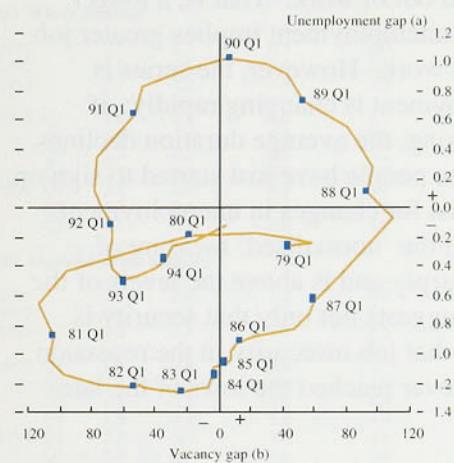
The interpretation of each labour market indicator is fraught with difficulty. Not only have different measures of labour demand sometimes shown contrasting patterns, the claimant count depends on the tax structure, eligibility rules and the efficiency of Job Centres as well as on the state of the labour market. There are, however, other measures of labour market tightness. These include vacancies and inactivity rates.

The number of vacancies advertised at Job Centres was flat in December, after rising strongly in October and November. Vacancies tend to rise as a proportion of unemployment as output strengthens. Chart 4.4 shows that the ratio of unfilled vacancies to total unemployment stood at 7.5% in December, its highest level since January 1991. However, it remained significantly below the peak of 13.1% reached in 1989.

Inactivity rates—the proportion of people of working age not employed—can also be used to assess the tightness of the labour market. Inactivity would be a good guide to the state of the labour market if there were many people out of work who would start looking for a job if they thought that the demand for labour had increased. This was the case in the mid 1980s, for instance, when all of the net jobs created in the recovery were taken by women who joined the labour force. However, if during the recession of the early 1990s some ‘discouraged’ workers entered full-time education or took early retirement, this could mean that fewer would be available to be absorbed quickly into jobs. In this case, inactivity rates would overestimate the degree of slack in the labour market.

But what are the various indicators telling us about the degree of labour market tightness at the moment? Do they suggest that wages are about to accelerate? Job creation and falling unemployment threaten upward pressure on real wages if they mean that employees feel more secure in their jobs and push more aggressively for pay increases, and employers resist less because they are eager to retain experienced workers. Pay will rise if the jobless total is pushed below the ‘natural’ rate of unemployment—the rate of unemployment consistent

Chart 4.5
Unemployment and vacancies



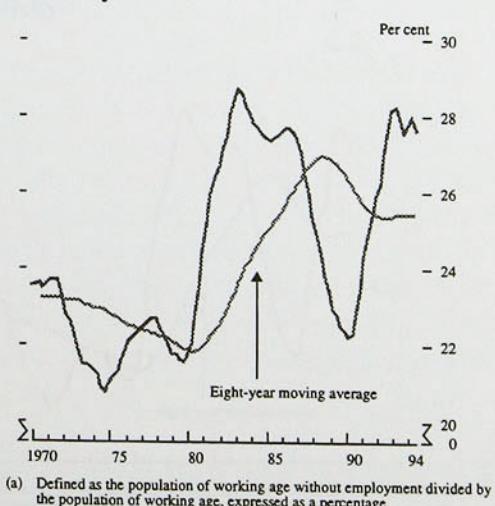
- (a) Seasonally adjusted UK unemployment minus eight-year moving average, millions.
 (b) Seasonally adjusted vacancies at UK Job Centres minus eight-year moving average, thousands.

Erratum

Inflation Report: February 1995

The following chart should replace Chart 4.6 on page 29.

Chart 4.6
Inactivity^(a)



- (a) Defined as the population of working age without employment divided by the population of working age, expressed as a percentage.

with stable inflation given the stance of monetary policy. If this happens, upward pressure is exerted on costs, adding to the pressure for firms to charge more for their goods.

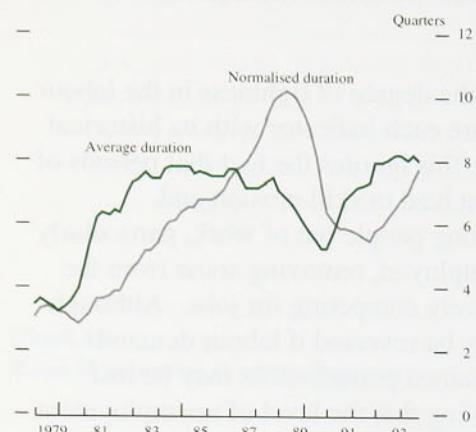
One way to gauge the degree of tightness in the labour market is to compare each indicator with its historical average. However, this ignores the fact that periods of high unemployment lead to skill erosion and demoralisation among people out of work, particularly the long-term unemployed, removing some from the pool of labour actively competing for jobs. Although demoralisation may be reversed if labour demand increases for a sustained period, skills may be lost permanently, implying that the level of unemployment which is consistent with stable inflation changes over time.

An alternative method, which acknowledges that the number of people actively looking for work changes over time, is to compare the various indicators with a more recent trend in unemployment. Using a moving average of the past eight years as a rough guide to what might be regarded as the natural rate of unemployment suggests that some slack remains in the labour market. Chart 4.5 shows the gap between the actual level of unemployment and its moving average against the gap between the actual number of vacancies and their moving average. It suggests that although some slack is evident in the labour market it is fast being eroded. There are, of course, other methods of estimating the levels of unemployment and vacancies consistent with stable

inflation. A comparison of the inactivity rate with its eight-year moving average suggests a much greater degree of slack. Chart 4.6 shows that inactivity remains significantly above trend. At face value, this would imply that downward pressure on real wages should continue for some time. However, for reasons outlined above, it is likely to underestimate the degree of slack. The true degree of market slack probably lies somewhere between the rates derived from unemployment and inactivity, suggesting that real wages are unlikely to pick up significantly in the near future. It is also possible that a given degree of tightness in the labour market will now exert less upward pressure on real wages than it has in the past. For example, because lower perceived job security may lower the real wage targeted by employees.

secure do workers feel in their jobs? Falls in the unemployment count would imply greater job security if

Chart 4.7
Average duration of spells of unemployment^(a)



(a) Average duration (in quarters) = UK seasonally adjusted unemployment divided by the seasonally adjusted inflow into unemployment per quarter.
Normalised duration = average duration multiplied by the ratio of the average level of unemployment to the level of unemployment prevailing in that quarter.

Table 4.B
Redundancies per 1,000 employees by occupation

	1991	1992	1993	1994			
	Year	Year	Summer	Autumn	Winter	Spring	Summer
Managers and administrators	12.8	12.4	10.0	9.0	7.9	9.9	8.0
Professionals	7.6	6.2	5.0	5.5	6.0	4.6	—
Technical	13.1	10.9	8.1	—	6.9	5.7	6.2
Clerical	14.2	14.5	10.4	8.0	9.1	7.7	—
Skilled manual	33.1	27.7	21.3	19.4	23.9	18.1	17.6
Personal services	9.8	6.9	7.0	5.7	—	5.7	5.4
Sales	16.6	14.9	9.7	7.9	9.1	10.2	10.4
Machine operators	30.1	22.6	15.3	11.3	15.6	16.2	13.4
Other	19.8	16.8	14.2	13.8	13.5	9.2	12.1

Source: *Employment Gazette*.

the likelihood of any person becoming unemployed also declined. The longer the individual spells of unemployment for a given amount of overall unemployment, the fewer people there are who will have experienced a period out of work. That is, a longer average duration of unemployment implies greater job security for those in work. However, the series is distorted if unemployment is changing rapidly: if unemployment is rising, the average duration declines, merely because some people have just started to sign on. It is possible to adjust for changes in unemployment. Chart 4.7 shows that the 'normalised' measure of duration is rising sharply and is above the levels of the early 1980s. This suggests not only that security is increasing, but also that job insecurity in the recession of the early 1990s never reached the lows of the late 1970s.

This of course does not explain the 'feel bad' factor among employees. Survey evidence suggests that feelings of job insecurity have risen markedly. A study by Industrial Survey Research found, for example, that barely half of UK employees felt secure in their jobs at the end of 1994, compared with three quarters of workers between 1977 and 1987. One possibility is that the pattern of redundancies changed between the early 1980s and early 1990s, with a greater proportion of redundancies falling on managerial and professional workers. Unfortunately the data have been collected only since 1989, so it is impossible to compare the two periods. Table 4.B suggests one explanation: in the present recovery, redundancies among managers and administrators have fallen from 12.8% in 1991 to 8.0% in summer 1994—much less than the decline among other categories of worker.

The Bank's inflation projection assumes that real wages will respond gradually to the tightening of the labour market. It also assumes that workers will attempt to shield themselves from the effect of the increase in indirect taxes announced in the November Budget: that in the short run, they will be successful, but that in the long run, workers will be unable to protect themselves against tax rises. Both these effects feed through to nominal wages only if inflationary expectations do not fall.

4.5 Productivity and unit labour costs

The ability of workers to secure higher real wages depends on firms' profitability and the outlook for unit

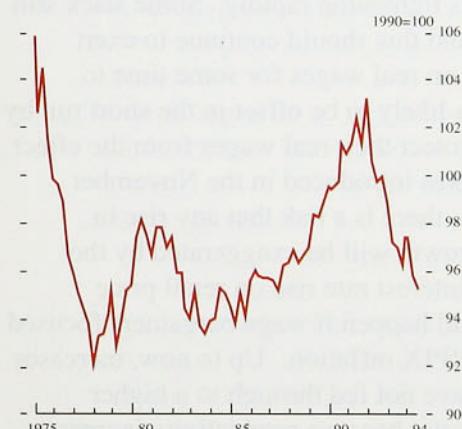
Table 4.C
Unit wage costs and their components

Percentage changes on same period in previous year

	Output	Employ- ment	Labour productivity	Earnings per employee	Unit wage costs
(a) Whole economy					
1991	-2.1	-2.7	0.7	8.0	7.3
1992	-0.5	-2.5	2.1	6.3	4.2
1993	2.1	-1.2	3.3	3.6	0.3
1993 Q1	1.4	-2.4	4.0	4.7	0.7
Q2	1.9	-1.6	3.8	3.8	—
Q3	2.3	-0.1	2.8	3.2	0.4
Q4	2.7	0.1	2.6	2.9	0.2
1994 Q1	3.4	0.1	3.2	4.1	0.9
Q2	4.3	0.1	4.1	3.5	-0.6
Q3	4.1	0.1	4.0	4.0	—
(b) Manufacturing industry					
1991	-5.4	-8.0	1.2	8.2	7.0
1992	-0.6	-4.2	4.5	6.6	1.9
1993	1.3	-3.4	3.8	4.5	0.6
1993 Q1	1.4	-4.4	5.8	4.7	-0.9
Q2	1.3	-3.6	4.8	4.9	0.2
Q3	1.3	-1.9	3.0	4.4	1.4
Q4	1.5	-0.4	2.0	4.0	1.9
1994 Q1	2.3	-0.4	2.8	4.8	1.9
Q2	3.8	-0.7	4.6	4.4	-0.1
Q3	4.9	-0.9	6.0	4.5	-1.5

Note: Manufacturing employment and average earnings are based on SIC1980; manufacturing output is based on SIC92.

Chart 4.8
Whole economy real product wages in relation to productivity^(a)



(a) Whole economy average earnings divided by the price deflator for GDP and divided by output per person employed.

labour costs and productivity. The latest data for the whole economy show that unit wage costs were flat in the third quarter, compared with the same quarter a year earlier. Manufacturing unit wage costs are falling according to a 12-month comparison (see Table 4.C). In the year to November, unit wage costs in the manufacturing sector dropped by 0.8%. This followed a 1.8% fall in October, one of the largest falls since records began, and a 1.5% decline in September. However, short-run measures show that manufacturing unit wage costs reached a turning-point in July 1994: on a three-month annualised basis, they are now rising at over 4%.

The figures for productivity are based on employment data from the workforce-in-employment series. If Labour Force Survey data are used, whole economy unit wage costs rose by 0.6% in the third quarter compared with the same quarter a year earlier; they were flat in the second quarter. If the labour market continues to tighten, it is likely that unit wage costs will rise faster in 1995.

Real unit labour costs—the share of national income taken by labour—have also continued to fall and are now below their long-run average (see Chart 4.8).⁽¹⁾ Productivity improvements across the economy have in the past tended to be captured by employees in higher wages, rather than resulting in lower prices. In the long run, if productivity grows at an annual rate of around 2½%, workers cannot hope to secure wage gains of more than 5% a year without jeopardising the Government's ability to keep inflation in the lower half of its 1%–4% target band. The Bank's inflation projection allows for some increase in pre-tax real wages, in line with the experience of the 1980s. It assumes, however, that the share of profits in national income will not be eroded as rapidly as in the 1960s and 1970s.

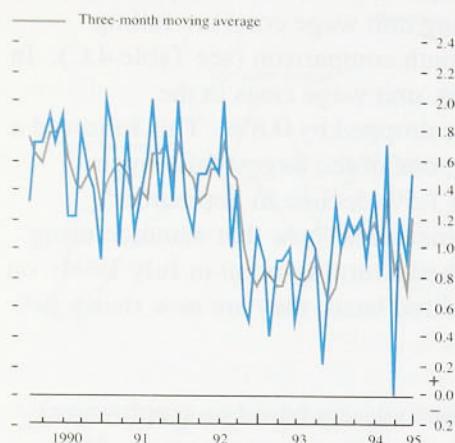
4.6

Expectations

Expectations of future inflation are central to the outlook for nominal earnings. The December survey of price expectations from Gallup suggested that employees thought prices would increase by 4.5% over the coming year, unchanged from November. The December figure was in line with the average for 1993 and 1994: inflation expectations have remained steady over the past two years. Wage expectations were much more

(1) Unit labour costs have also been falling in other major economies; see the article on the international environment in the February *Quarterly Bulletin*, pages 15–23.

Chart 4.9
Desired percentage increase in real wages over the next 12 months



Source: Gallup Political and Economic Index

subdued: they have remained around 2½% over the past year and were 2.4% in December. A different pattern emerges if the Gallup data are adjusted to show the desired real wage increase over the next 12 months. This dropped sharply after the suspension of sterling's membership of the Exchange Rate Mechanism, and remained subdued throughout 1993. The desired increase rose in the first half of 1994, before falling back to around ¾% in the fourth quarter (see Chart 4.9). It rose slightly in January.

The outlook for nominal wages will also depend on whether wage bargainers react to any increase in mortgage interest rates by pressing harder for wage increases. This would happen if bargainers used the current level of headline RPI, instead of RPIX inflation, as the basis for their wage claims. The Bank's projections assume that workers manage to reclaim half of the effect of higher mortgage interest payments in the short run, but none in the long run.

4.7

Summary

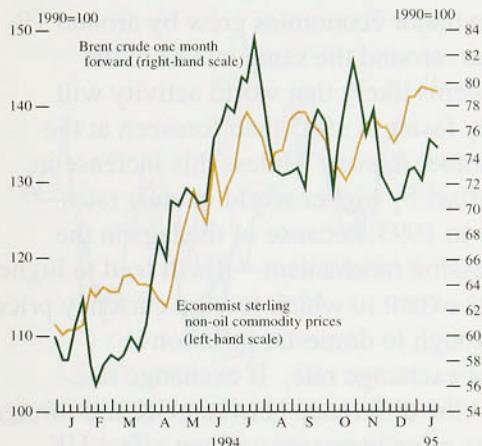
The labour market is tightening rapidly. Some slack still remains, however, and this should continue to exert downward pressure on real wages for some time to come. This effect is likely to be offset in the short run by workers trying to protect their real wages from the effect of higher indirect taxes introduced in the November Budget. In addition, there is a risk that any rise in nominal earnings growth will be exaggerated by the effect of the recent interest rate rise on retail price inflation. This would happen if wage bargainers focused on RPI rather than RPIX inflation. Up to now, increases in nominal wages have not fed through to a higher 12-month inflation rate, because productivity increases have pushed down unit labour costs. Unit wage costs have already reached a turning-point.

Pricing behaviour

5.1

External influences

Chart 5.1
Sterling oil and non-oil commodity prices



After rising sharply in the first six months of the year, commodity prices showed little consistent pattern over the second half of 1994, although there were signs that they started to increase towards the turn of the year (see Chart 5.1). Non-oil commodity prices were 9% higher at the end of January than they were at the time of the November *Report*, after dropping 6% in the previous two months. Crude oil prices ended January at roughly the level they were three months earlier.

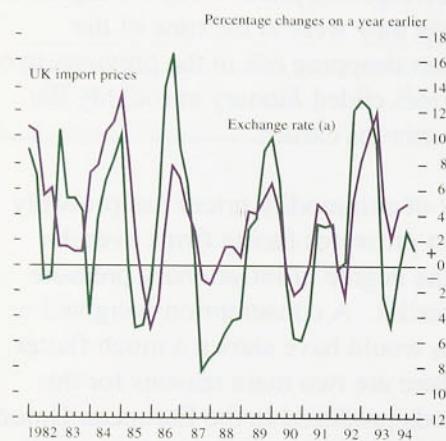
The Economist index of commodity prices has probably overestimated the cost pressures facing firms over the past year and hence the degree of inflationary pressure arising from raw materials. A consumption-weighted index of commodities would have shown a much flatter profile in 1994.⁽¹⁾ There are two main reasons for this. First, a number of foods produced in the European Union are partially insulated from world price rises as a result of the Common Agricultural Policy (CAP). This has not previously been taken into account. Second, currently available indices ignore production in the United Kingdom and, in particular, attach too great a weight to highly volatile metal prices. Preliminary work undertaken in the Bank suggests that a consumption-weighted index is a better guide to manufacturers' input prices; it is likely that the rise in the index over the past year has already fed through into input prices.

Looking ahead, are commodity prices likely to go up? Bank research suggests that non-oil commodity prices, as measured by the Economist index, tend to increase when world output is growing above trend. This is what is to be expected if it is expensive to store commodities and they are traded in competitive markets. But many commodities can be easily stored. As a result, traders have to form a view about future price movements when deciding whether to buy or sell. So for these commodities only *unexpected* increases in world demand will drive prices higher. Preliminary work on the consumption-weighted index suggests that it too tends to

(1) The Bank is in the process of developing a consumption-weighted index of commodity prices.

rise when world output is growing above trend. However, it is less cyclical than the Economist index—as would be expected given the impact of the CAP on agricultural prices, and the lower weight attached to metals.⁽¹⁾ As a result, it is likely that the consumption-weighted index will climb a little higher as the recovery continues, although the extent of any rise—and its timing—is uncertain.

Chart 5.2
The sterling exchange rate and non-oil import prices



(a) + indicates a depreciation of the exchange rate.

Chart 5.3
Relative prices of domestic and imported manufactures



Overseas inflation and import prices

Each of the seven major economies grew by around 1% in the third quarter, around the same rate as in the second. It now seems likely that world activity will grow significantly faster in 1995 than foreseen at the time of the November *Report*. Unless this increase in activity is fully offset by higher world interest rates—which is unlikely in 1995, because of the lags in the monetary transmission mechanism—it will lead to higher world prices. The extent to which foreign currency price increases feed through to domestic inflation is determined by the exchange rate. If exchange rate movements offset the difference between UK and foreign inflation, overseas price increases will not affect UK inflation. In the long run, domestic inflation is determined by domestic monetary policy.

Past movements in sterling import prices have reflected changes in exchange rates closely (see Chart 5.2). Prices of non-oil imports rose by 17% between 1992 Q3 and 1994 Q3. In the same period, the sterling effective exchange rate depreciated by 13%.

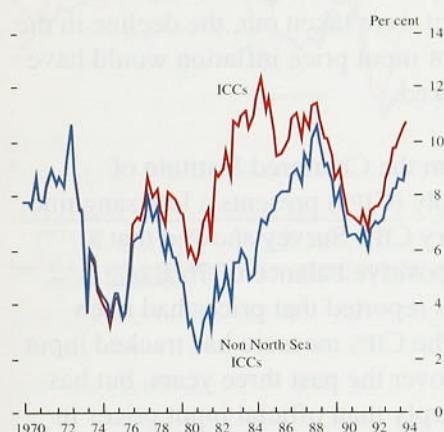
In the long run, the prices of manufactured imports should move in line with the prices of domestically produced substitutes—the exchange rate should move to offset any difference between UK and overseas inflation rates. However, since goods are not produced in perfectly competitive markets, this relationship does not always hold in the short run. In particular, monetary policy shocks can affect relative prices. Chart 5.3 shows how relative prices of manufactured imports and domestically produced goods have changed since 1988, and illustrates how relative prices reacted to two sharp sterling depreciations. In 1989, sterling's effective exchange rate dropped by 12%: this did not lead to an increase in the relative price of imported manufactures because the depreciation reflected the fact that prices of goods were increasing more quickly in the United Kingdom than in its main competitors. When sterling's membership of the ERM was suspended in 1992,

(1) Although metals are storables, their prices have been strongly cyclical in the past. This is particularly true of copper prices.

or imports? In 1993, the balance of trade improved significantly, reflecting a decline in imports and a strong increase in exports. The current account balance of £17.5 billion reflected a significant improvement in net oil revenues, which were down by £1.5 billion in 1993.

Chart 5.4

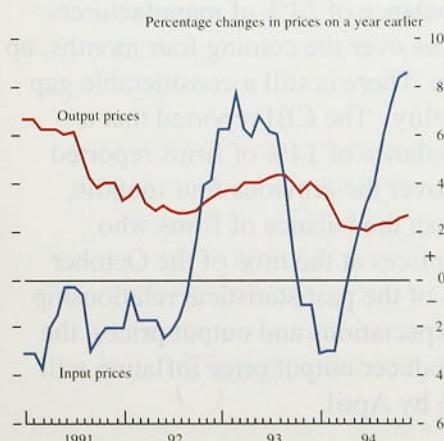
Return on capital^(a)



(a) Pre-tax rate of return on capital stock at replacement cost.

Chart 5.5

Producer price inflation



however, the exchange rate depreciated by around 17%, precipitating a sharp rise in the price of manufactured imports, because the decline in sterling was a result of a loosening of monetary policy and its effect in capital markets.

5.2

Profitability

Profits are growing strongly. In nominal terms, industrial and commercial companies' (ICCs') profits rose by 2.2% in the third quarter of 1994; they were up 14% on a year earlier, and around 35% higher than at their trough in the third quarter of 1991. Profitability—the rate of return on capital—depends on how prices move relative to costs, and on the extent of capacity utilisation in the economy. Chart 5.4 shows how the strong growth in profitability in the current upturn is in line with previous recoveries, although it started from a higher level. However, whole economy rates of return mask starkly differing performances between different sectors. At the moment, for instance, sectoral rates of return are signalling clearly the need to reallocate resources away from retailing and into export-directed industry.

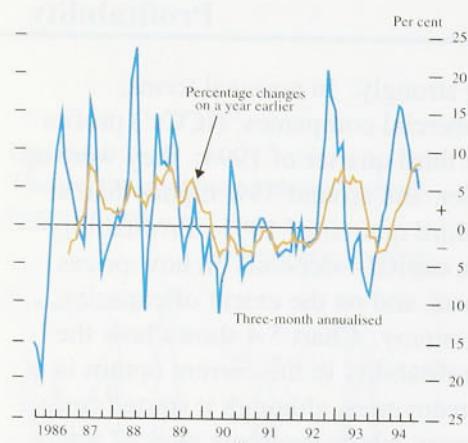
Manufacturing

The November Report noted that the cost of manufacturers' materials and fuels had risen rapidly, and that the strong increase in input prices seen earlier in the year had begun to feed through to the prices of goods leaving factory gates. Up to that point, thanks to falling unit labour costs, manufacturers had been able to absorb most, if not all, of the rise in the cost of raw materials and fuels. One uncertainty was whether more of the increase in material costs would be passed on to manufacturers' customers.

Since then, firms in the manufacturing sector have not managed to contain costs to the same extent and there has been a larger increase in output prices. The 12-month rate of output price inflation edged up from 2.3% in September to 2.6% in December. The food, drink, tobacco and petroleum industries suffered smaller increases in raw material costs, and, if these industries are excluded, the rise was somewhat sharper: output price inflation increased from 2.1% in September to 2.8% in December. Chart 5.5 shows that output prices have not risen as fast as input prices.

There are signs that pressures on manufacturers' input costs have started to ease. Although the 12-month rates

Chart 5.6
Producer input prices^(a)

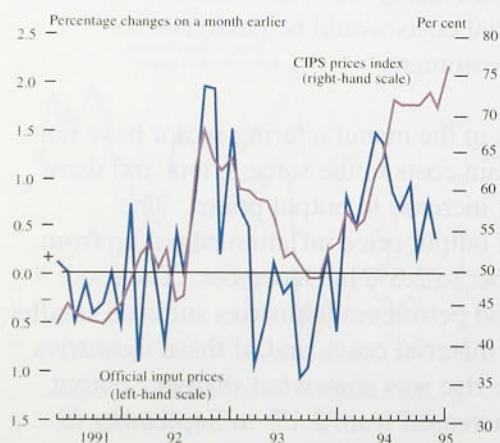


(a) Seasonally adjusted: all manufacturing industry.

of input price inflation rose from 6.3% in September to 8.3% in December, shorter-run measures have fallen in recent months. Excluding seasonal factors, three-month annualised rates of input price inflation declined from 10.3% in September to 5.3% in December (see Chart 5.6). Underlying pressures may be even more subdued: although input prices rose by a larger-than-expected 0.7% in November, the increase was driven by a one-off rise in milk prices following the replacement of the Milk Marketing Board by Milk Marque. If this effect were taken out, the decline in the short-run measures of input price inflation would have been even more marked.

Survey evidence from the Chartered Institute of Purchasing and Supply (CIPS) presents a less sanguine picture. The February CIPS Survey showed that a seasonally adjusted positive balance of 76% of purchasing managers reported that prices had risen during the month. The CIPS measure has tracked input prices fairly closely over the past three years, but has risen much more sharply than official input prices in recent months (see Chart 5.7). It is possible that the CSO index is not as sensitive to price discounting as the CIPS index; if the CIPS measure has detected a pick-up in prices as discounts have been withdrawn, this could soon be reflected in an increase in official input prices.

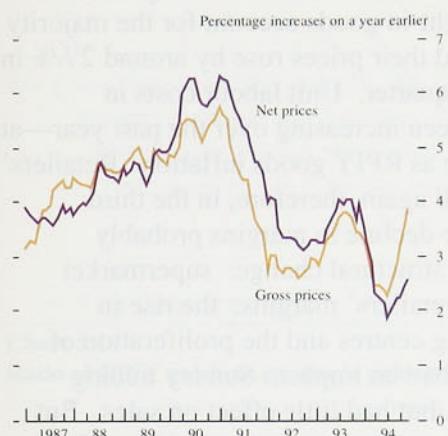
Chart 5.7
Official input prices and Chartered Institute of Purchasing and Supply's prices index



Other surveys support the picture of manufacturers facing consistent price pressures. The latest CBI Quarterly Industrial Trends Survey, which is a good leading indicator of output prices (see the box on page 38 of November's *Report*), showed that a seasonally adjusted balance of 24% of manufacturers expected to raise prices over the coming four months, up from 22% in October. There is still a considerable gap between hope and reality. The CBI reported that a seasonally adjusted balance of 14% of firms reported higher selling prices over the previous four months, significantly lower than the balance of firms who expected to increase prices at the time of the October Survey. On the basis of the past statistical relationship between CBI price expectations and output prices, the latest data suggest producer output price inflation will increase to nearly 4% by April.

In addition, price pressures within the manufacturing sector are still intense. The official measure of output prices does not reflect the amount paid for goods exchanged between manufacturing firms. If these are included, gross output prices increased by 3.8% in the

Chart 5.8
Manufacturers' output prices



Note: Both the gross and net output prices are calculated on the basis of SIC1980 classification.

year to December, compared with 2.9% in September; they reached a trough of 2.2% in July. The gross measure of output price inflation has now exceeded the net measure for almost a year. Over periods, the annual rate of output price inflation in the two series tend to move together. But short-term divergences are not unusual. The fact that the gross measure is running ahead of the net measure may mean that costs will soon start to feed through to higher output price inflation. The question is whether current market conditions are simply delaying the pass-through into final output prices or actually reducing it. The last time the gross measure moved to exceed the net measure significantly was in 1987 (see Chart 5.8), with the gap between the two series peaking at 0.7 percentage points—much less than its current level. In that episode, a gap persisted for as long as two years; it was eventually closed in 1989 when net output price inflation rose sharply.

In part, the outlook for producer prices depends on unit wage costs. The main reason manufacturers were able to absorb input cost increases last year was because labour productivity rose sharply: manufacturing unit wage costs fell by 1.5% in the year to the third quarter, enabling firms to protect their margins without raising prices. Shorter-run measures show that manufacturing unit wage costs reached a turning-point in the summer (see Section 4). It is likely, therefore, that manufacturing margins fell as a proportion of output in the third quarter compared with the previous three months, although they were significantly higher than in the same period a year earlier.

Profitability in the manufacturing sector also depends on capacity utilisation. The CBI Quarterly Trends Survey reported that the percentage of firms working below capacity declined further to 49%—the lowest since July 1990.

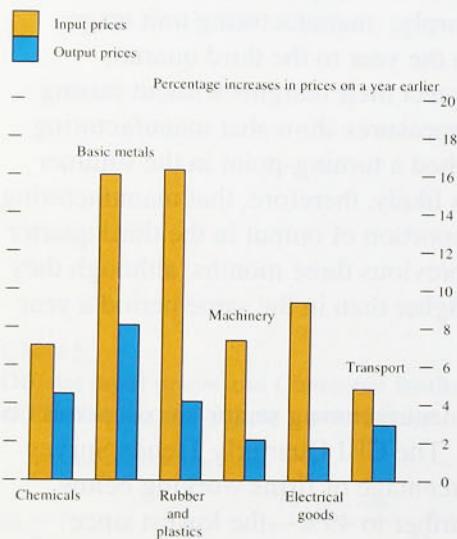
Utilities

Utilities prices added to inflationary pressure during 1994. Despite pricing formulae which require electricity and gas to absorb increases in distribution costs, domestic electricity bills increased by just over 3% in 1994, and household gas bills rose more sharply. This was largely because higher generation costs were passed on to the consumer. Household water bills rose by around 7% in 1994 and the emphasis on quality improvements means that they are likely to continue increasing faster than the headline rate of inflation over the coming years.

Retailing

Retailers' input prices have been rising less rapidly than those in the manufacturing sector, but they have been less successful than manufacturers in holding down average costs. Bought-in goods account for the majority of retailers' costs and their prices rose by around 2½% in the year to the third quarter. Unit labour costs in retailing have also been increasing over the past year—at around the same rate as RPIY goods inflation. Retailers' margins probably fell again, therefore, in the third quarter. Some of the decline in margins probably reflects deep-rooted structural change: supermarket price wars cut food retailers' margins; the rise in out-of-town shopping centres and the proliferation of discount stores also had an impact; Sunday trading added to wage costs, but had little effect on sales. But some of the squeeze on margins was probably cyclical, and will reverse during the recovery. There was some sign that margins strengthened in December, as retailers anticipated a pick-up in consumer demand in the run-up to Christmas. This could unwind if demand falters. But if less of the decline in margins seen over the past couple of years proves to be permanent than anticipated, this will pose a longer-term threat to the inflationary outlook.

Chart 5.9
Manufacturers' input and output prices



The contrast between the buoyant manufacturing sector and the subdued retailing sector can be seen by comparing the behaviour of input and output prices along various stages of the supply chain. Chart 5.9 shows that companies which supply raw materials to industry—such as rubber and plastics, metals and chemicals—have seen the greatest increases in input costs and have also been able to push through the highest price rises. But companies closest to the consumer—such as producers of electrical goods—have been unable to pass on much of even modest increases in input prices.

The January Dun and Bradstreet survey of business executives underlined the difficulty retailers face in passing on any cost increases to their customers: although the balance of manufacturers who expected to increase prices over the current quarter rose from 28% in October to 49%, the balance of retailers expecting to raise prices increased from just 30% to 33%.

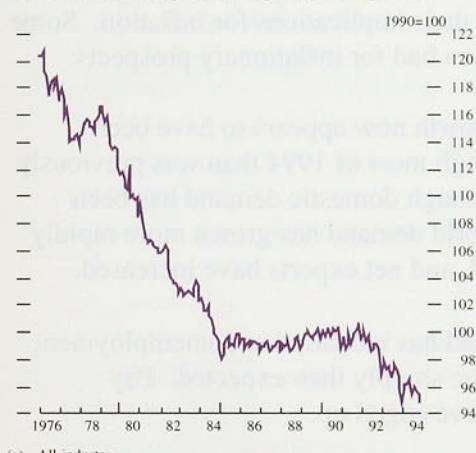
Even if output price inflation continues to pick up, that does not necessarily imply that prices on the high street will be higher.⁽¹⁾ A rise in retailers' input costs does not automatically translate into higher high-street prices, as

(1) The box on page 22 of the February *Quarterly Bulletin* describes how producer prices rose in most G7 countries over the second half of 1994 with little upward pressure on consumer price inflation.

the relationship between retail prices and producer prices runs in both directions. Producer prices clearly affect retail prices because of wholesale costs, but retailers set prices with regard not only to their costs, but also to demand conditions and the stance of monetary policy. If policy does not accommodate inflation—and this is clearly perceived—retailers will be forced to reduce other costs to maintain margins or increase sales volumes. Hence they may put pressure on their suppliers to cut prices, and on their employees to accept lower real wages than otherwise.

In addition, recent experience suggests that there has been technological innovation in the retail sector; Chart 5.10 plots the ratio of RPIY goods prices to producer prices. The declining trend implies that the prices of RPIY goods have risen less rapidly than those of their suppliers over long periods: that is, RPIY goods inflation has tended to be more subdued than output price inflation.

Chart 5.10
Ratio of RPIY goods to producer prices^(a)



(a) All-industry.

5.3

Summary

The price of UK consumption-weighted commodities has risen less steeply over the past year than other indices of commodity prices. It is likely that most of the rise has already fed through to input prices. Although short-run measures of input price inflation have started to slow, input price rises are still putting pressure on manufacturers' margins—particularly at intermediate stages of the supply chain. In the first half of 1994, higher input prices in manufacturing were offset by falling unit wage costs; this is no longer happening. If output prices increase faster, this is likely to feed through to higher prices on the high street.

6

Prospects for inflation

This section identifies the main economic news since the November *Report* and assesses the implications for inflation prospects. It presents the Bank's central projection for two years ahead and explains the uncertainty surrounding it.

6.1

The economic news

Previous sections have described recent economic developments and their implications for inflation. Some of the news has been bad for inflationary prospects:

- UK output growth now appears to have been stronger through most of 1994 than was previously thought. Although domestic demand has been restrained, world demand has grown more rapidly than expected, and net exports have increased.
- Labour demand has increased and unemployment has fallen more sharply than expected. Pay settlements have edged up.
- Capacity utilisation is well above its historical average, according to the CBI, and more firms report that they plan to raise prices this year.
- Inflation was higher than expected in the last quarter of 1994, particularly in December. It now looks as if inflation began to turn up in late 1994 rather than, as expected, early 1995. Retail margins have been higher than anticipated.
- Most commodity prices and manufacturers' input prices have been rising rapidly. Short-run measures of cost inflation suggest that the pressure on margins from this source has eased a little, but it is still considerable.
- Further along the supply chain, the annual inflation of producer output prices has increased. It is higher than underlying retail inflation, which means that cost pressures are being passed on to retailers.

Some of the news has been better for inflationary prospects:

- Narrow money growth has started to fall, as expected, now that the adjustment to last year's low interest rates has almost run its course. Short-run measures of M4 growth have picked up recently, but the 12-month rate is still below the middle of its 3%–9% monitoring range.
- Underlying earnings growth remained at an annual rate of 3½% in November, despite the tightening labour market. Unit labour costs started to rise in the summer, but are still lower than a year ago.
- Consumer demand has been growing only slowly, and is likely to continue to do so. The sluggishness tends to keep retailers' margins under pressure.
- Firms have not been able to charge the prices they were expecting to in the autumn.

Consideration of the inflation outlook led to decisions to raise interest rates twice during the past three months, by half a percentage point each time, on 7 December and 2 February.

6.2 The Bank's medium-term inflation projection

Each quarter, the Bank extends its projection of inflation out by another three months; it is now looking as far ahead as 1996 Q4. Both RPIX and RPIY inflation are projected to be about the same in two years' time as the Bank envisaged last November. The inflation projection incorporates the likely effects of the past rate increases; like all such projections, it is based on the assumption of no further change in official interest rates.⁽¹⁾

The most important evidence of increased inflationary pressure is the faster-than-expected growth of both the demand for labour and output. Unemployment fell by nearly 50,000 a month in the last quarter of 1994, considerably more than expected. The tightening labour market is likely to lead to a faster rise in nominal unit labour costs, even though earnings growth may increase only a little. It is not surprising that labour costs adjust to increased labour demand only after a delay, given that wage rates are adjusted in annual pay rounds. The increase in demand for goods and services is already being reflected in the prices charged by suppliers and retailers, and some of the price increases reflect stronger

(1) The exchange rate is assumed to adjust to ensure uncovered interest parity.

Chart 6.1 RPIY inflation outturns and projections

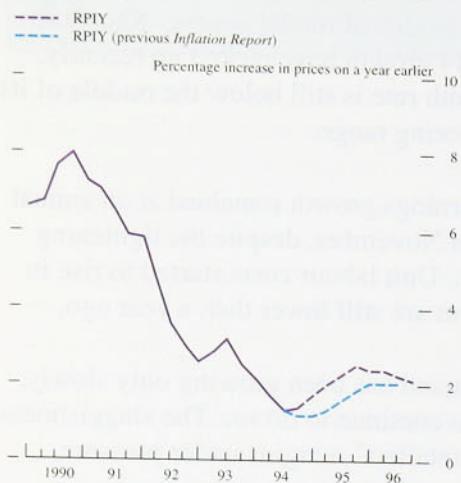


Chart 6.2 RPIX inflation outturns and projections

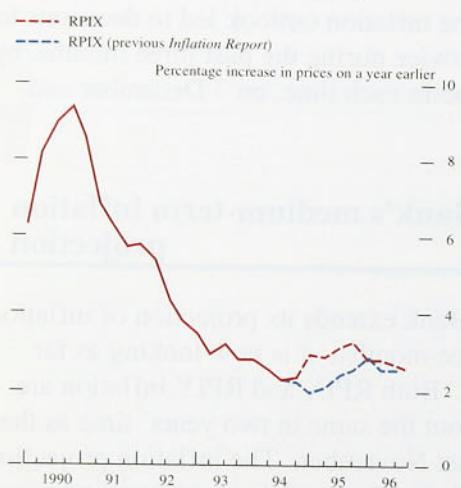
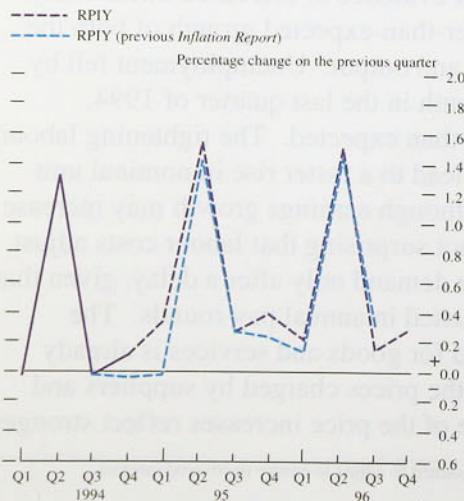


Chart 6.3 Quarterly percentage change in RPIY



demand in world markets. Although output growth slowed in the second half of 1994, it was still at an annualised rate of about 3% a year, faster than can be sustained in the long run. As with the labour market, it is not just the amount of slack—the output gap—that matters, but also how quickly it is taken up; in some industries supply is slow to adjust. The sharp dichotomy between export and domestic demand has meant that the capacity of producers of tradable goods and services has come under particular pressure.

The recent increases in base rates in the United Kingdom have yet to affect demand significantly. But they will help to dampen the faster-than-expected growth discussed above, by stimulating saving and reducing borrowing. Higher interest rates should also affect price expectations, by convincing more people of the authorities' commitment to low inflation in the medium term. If inflation expectations fall, this will make it less likely that firms will raise both wages and prices. In the short term, however, recent survey evidence suggests that wage settlements and wholesale price inflation are likely to edge up.

Charts 6.1 and 6.2 show the outturns and central projections for the 12-month RPIY and RPIX inflation measures. Both are expected to be about the same in two years' time as the Bank anticipated in November. But both are significantly higher in the short run, as the strengthening of retail margins seen in December is expected to continue. Higher margins push up the projection of the 12-month inflation rates, by increasing the projected price *level*. But this effect will last for only about a year; and, although the quarterly inflation rates in 1994 Q4 and 1995 Q1 are higher than the Bank projected last time, the quarterly projections from 1995 Q2 are little altered (see Charts 6.3 and 6.4). Both RPIY and RPIX inflation are projected to begin falling towards the end of this year, as recent policy tightening starts to take effect.

The path of RPIX inflation will be influenced by the changes in indirect taxes announced in and after the Budget. In consequence, the projection for RPIX inflation in the current quarter has been revised up by more than that for RPIY inflation; the gap between the two measures of inflation narrows in the second quarter. The main factors are:

- The excise duties announced in the Budget and the Chancellor's supplementary statement. Together,

Chart 6.4
Quarterly percentage change in RPIX

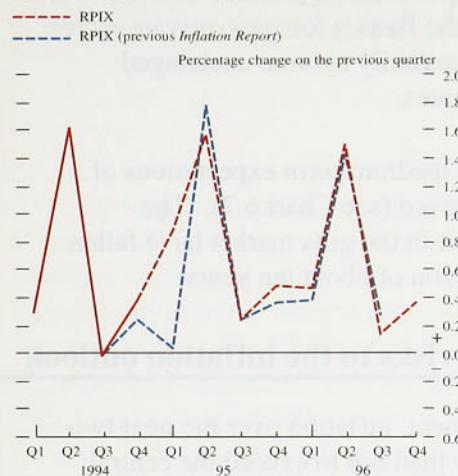
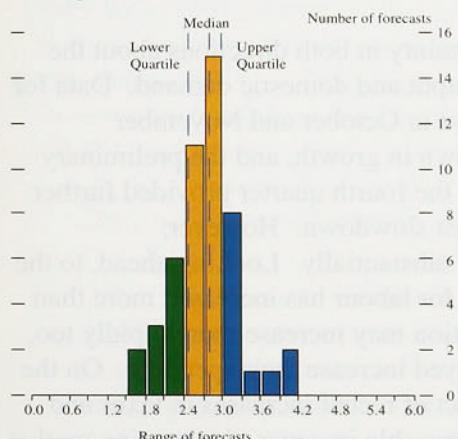
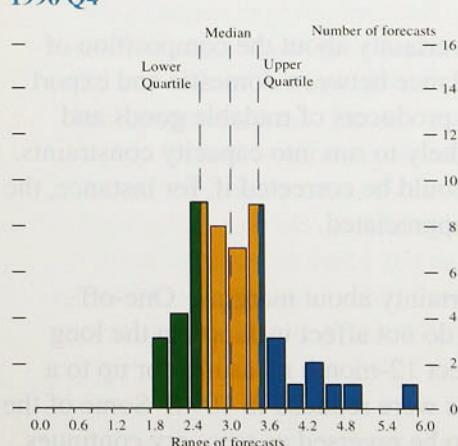


Chart 6.5
Distribution of RPIX inflation forecasts for 1995 Q4



Source: Forecasts of 49 private sector organisations as of January 1995.

Chart 6.6
Distribution of RPIX inflation forecasts for 1996 Q4



Source: Forecasts of 49 private sector organisations as of January 1995.

these are likely to add 0.3% to the price level previously expected in 1995 Q1.

- The cancellation of the increase in VAT on fuel, which is likely to lower the previously expected price level from 1995 Q2.

Any projection is bound to be uncertain. All forecasts are subject to a margin of error, so presenting them in the form of point estimates can be misleading. For policy purposes, the range of likely outcomes, and the probabilities attached to them, are often just as significant as the central projection.

The Bank's central projection should be thought of as the single most likely outcome, or the *mode* of the probability distribution of inflation. It is impossible to be precise about the exact shape of the distribution. However, for reasons explained below, the Bank's judgment is that the risks to inflation are asymmetric at the moment. In other words, the distribution⁽¹⁾ is skewed: it is more likely that the outcome will be above the central projection than that it will be below, although, in the Bank's judgment, the upside risks are somewhat less than before.

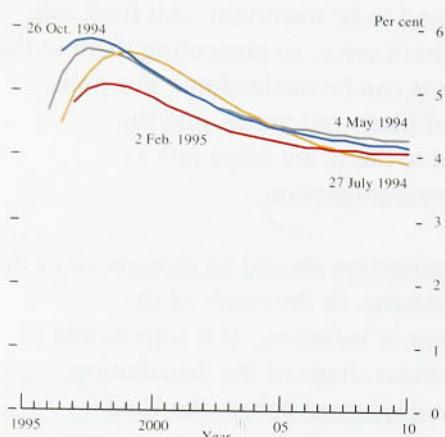
The central projection is now around the top of the lower half of the Government's target range. There is a high probability that RPIX inflation will turn out to be within the Government's 1%-4% target range. But the probability of it being in the lower half of the range is less than the probability of it being in the upper half. Were it not for the projected increases in indirect taxes, there would now be a better chance of remaining in the lower half of the target range.

6.3 Private sector inflation forecasts

Taking all the forecasts of inflation prepared by private sector economists, there has been a further reduction in their median figure for 12-month RPIX inflation in 1995 Q4; it is now below 3% (see Chart 6.5). For 1996 Q4, their median forecast is 3.1% (see Chart 6.6). More than four fifths of the 49 forecasts put RPIX inflation within the Government's target range at the end of 1996, but only a fifth expect it to be in the lower half of the range. Both these groups are considerably larger than they were when the two-year forecasts were

(1) In general, the distribution could be skewed to the left, to the right, or not at all, depending on the economic circumstances at the time. For this reason, the symmetric shading denoting the scale of past forecast errors has been dropped from Charts 6.1 and 6.2.

Chart 6.7
Implied forward inflation rates



calculated in February 1994, so the medium-term view of inflationary prospects has improved. But it is worth noting that, unlike the Bank's forecast, private sector forecasts do not necessarily assume unchanged short-term interest rates.

In the markets, too, medium-term expectations of inflation have improved (see Chart 6.7). The expectations implicit in the gilts market have fallen slightly up to a horizon of about ten years.

6.4 The risks to the inflation outlook

In the Bank's judgment, inflation over the next two years is more likely than not to exceed the central projection—although the risks of this happening have declined since the November *Report*. The Bank's asymmetric view comes from four factors in particular.

First, there is uncertainty in both directions about the future growth of output and domestic demand. Data for industrial production in October and November suggested a slowdown in growth, and the preliminary estimate of GDP in the fourth quarter provided further evidence of a modest slowdown. However, unemployment fell substantially. Looking ahead, to the extent that demand for labour has increased more than expected, consumption may increase more rapidly too, as the newly employed increase their spending. On the other hand, the effect of recent increases in taxes and interest rates on disposable incomes, the housing market and consumer confidence is hard to gauge, and consumer spending could prove to be weaker than the Bank expected in November.

Second, there is uncertainty about the composition of demand. The imbalance between domestic and export demand means that producers of tradable goods and services are more likely to run into capacity constraints. But the imbalance could be corrected if, for instance, the real exchange rate appreciated.

Third, there is uncertainty about margins. One-off changes in margins do not affect inflation in the long run, but they do affect 12-month measures for up to a year. Retail margins were reduced in 1994. Some of the reduction is likely to be reversed as recovery continues, and the increase in the RPI in December suggests this has already begun. The central projection is based on the view that most of the reduction in margins reflects increased competition among retailers, bringing rates of

return closer to rates abroad, and is therefore likely to be permanent. However, retailers' margins could in fact return to something closer to their long-run average; on the other hand, the slight increase in December might not be maintained—particularly if consumer confidence falls further.

Fourth, there is uncertainty about nominal earnings growth. Unit labour costs are likely to rise simply because productivity growth tends to slow at this stage in the cycle. If nominal earnings growth were to pick up even quite modestly, it would push the growth in unit labour costs above 2% or so. The inflation target would then be in jeopardy. As the slack in the labour market is used up, employees are likely to push for higher real pay—and employers are less likely to resist, because of the rise in profitability and their need to retain skilled workers. Unless inflation expectations fall, this process would translate into higher nominal earnings. So far, nominal earnings have grown quite slowly. The central projection assumes that the short-run trade-off between increases in nominal earnings and output growth will be similar to that in the late 1980s, when nominal earnings growth was less sensitive to changes in the rate of growth of output than it had been in previous upswings. However, if earnings pick up more rapidly—as they did, for example, in the 1970s—the extra pressure on costs would add to inflation. The latest increase in interest rates makes this less likely. In addition, the greater the credibility of the inflation target, the less likely it is that expectations will push up nominal earnings growth, and the easier it will be to achieve the target.

Producer price inflation started to rise in 1994. It is now clear that retail price inflation also turned up in the final quarter of last year. The headline rate of inflation rose from 2.2% in September to 2.9% in December, and will rise further as higher indirect taxes and mortgage rates affect the index. Underlying RPIX inflation rose from 2.0% in September to 2.5% in December. Underlying RPIY inflation, which excludes both indirect taxes and mortgage interest payments, rose from 1.2% to 1.7% over the same period.

These 12-month measures are, however, poor guides to turning-points. They reflect events at the end of 1993 dropping out of the index as much as price changes at the end of 1994 entering the index. It is therefore more helpful to look at three-month annualised measures of inflation. These turned up only in December: RPIX inflation rose from 2.6% in September to 3.2% in December, and RPIY inflation from 1.2% to 1.6%.

Output has continued to grow at well above trend, though it slowed down during 1994. The data suggest that in the first half of last year output was growing at an annualised rate of well over 4%, slowing to about 3% in the second half.

The sharp contrast between export and domestic demand has, if anything, intensified since the November *Report*. Exports remain very buoyant, and prospects in the United Kingdom's main foreign markets in 1995 are good. But growth in real domestic demand has fallen over the past year and virtually stopped in the third quarter of 1994. Consumption growth slowed in the first quarter of 1994, and has since remained below 2% a year. The combination of (a) the rise in the yield curve over the past year and (b) a further round of tax increases to take effect in the first half of 1995 means that consumption growth is likely to stay close to its trend rate.

The longer-term influences on inflation remain favourable. The rise in current and prospective short-term interest rates—the shift in the yield curve as a whole—has already slowed the growth of domestic demand. Broad money growth is consistent with the

inflation target. Growth in narrow money has adjusted to earlier large reductions in interest rates, and has fallen sharply in recent months.

In the short run, there are still strong pressures from the costs side. Manufacturing input prices rose by 8.5% in the year to December. But the rate of increase of input prices slowed considerably in the second half of last year, with the three-month annualised rate falling from 16.0% in June to 5.3% in December. Output prices within manufacturing are rising faster than prices charged to final customers, and the CBI again reported an increase in the proportion of firms expecting to raise prices. Retail price inflation is likely to pick up during 1995, as some of the squeeze on retail margins unwinds. But the Bank's central projection for RPIX inflation two years ahead is about the same as in November, at a level of around 2½%.

The chief uncertainties about the central projection were identified in the November *Report*. First, the outlook for activity: output growth has already fallen, demand has yet to reflect the full impact of the monetary tightening of 1994 and early 1995, and there will be a further round of tax increases in the first half of this year. Second, the dichotomy in the recovery means that capacity pressures, especially in manufacturing, are sensitive to the composition of total demand. Rapid export and investment growth would place further pressure on manufacturing capacity. Third, the rise in producer input and output prices may feed through to retail prices by more than anticipated. Although some of last year's compression of retail margins is likely to unwind as recovery continues, much of the reduction in margins is, in the central projection, assumed to be permanent, reflecting a structural increase in retail competition. That is only an assumption: the probable long-run level of margins is hard to gauge. Fourth, the ability of firms to absorb increases in input prices has depended on their reducing their unit wage costs. As unemployment falls, the cyclical recovery in productivity is likely to slow down, leading to faster growth in unit wage costs. This would be exacerbated by any increase in earnings growth. So far, earnings growth has been encouragingly stable as the economy has recovered, but there is no certainty that this will continue.

Without the increases in interest rates since the previous *Report*, the Bank's central projection would now have been for inflation to be in the upper half of the target range. As it is, the Bank is still projecting a rate two

years ahead of around 2½%, the mid point of the range—with the upside risks somewhat less than before. The tightening of monetary policy since November has therefore improved the prospect of achieving the lower half of the target range by the end of the present parliament.

Price £4.00

