

Economic Trends

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Introduction

Economic Trends brings together all the main economic indicators. It contains three regular sections of tables and charts illustrating trends in the UK economy.

'Economic Update' is a feature giving an overview of the latest economic statistics. The content and presentation will vary from month to month depending on topicality and coverage of the published statistics. The accompanying table on main economic indicators is wider in coverage than the table on selected monthly indicators appearing in previous editions of *Economic Trends*. Data included in this section may not be wholly consistent with other sections which will have gone to press earlier.

An article on international economic indicators appears monthly and an article on regional economic indicators appears every March, June, September and December. Occasional articles comment on and analyse economic statistics and introduce new series, new analyses and new methodology.

Quarterly information on the national accounts and the balance of payments appears in *UK Economic Accounts* which is published every January, April, July and October by The Stationery Office.

The main section is based on information available to the ONS on the date printed in note 1 below and shows the movements of the key economic indicators. The indicators appear in tabular form on left hand pages with corresponding charts on facing right hand pages. Colour has been used to aid interpretation in some of the charts, for example by creating a background grid on those charts drawn to a logarithmic scale. Index numbers in some tables and charts are given on a common base year for convenience of comparison.

The section on cyclical indicators shows the movements of four composite indices over 20 years against a reference chronology of business cycles. The indices group together indicators which lead, coincide with and lag behind the business cycle, and a short note describes their most recent movements. The March, June, September and December issues carry further graphs showing separately the movements in all of the 27 indicators which make up the composite indices.

Economic Trends is prepared monthly by the Office for National Statistics in collaboration with the statistics divisions of Government Departments and the Bank of England.

Notes on the tables

- 1. All data in the tables and accompanying charts is current, as far as possible, to 21 February 1997.
- 2. The four letter identification code at the top of each column of data (eg, DJDD) is ONS's own reference to this series of data on our database. Please quote the relevant code if you contact us requiring any further information about the data.

3. Some data, particularly for the latest time period, is provisional and may be subject to revisions in later issues.

- 4. The statistics relate mainly to the United Kingdom; where figures are for Great Britain only, this is shown on the table.
- 5. Almost all quarterly data are seasonally adjusted; those not seasonally adjusted are indicated by NSA.
- 6. Rounding may lead to inconsistencies between the sum of constituent parts and the total in some tables.
- 7. A line drawn across a column between two consecutive figures indicates that the figures above and below the line have been compiled on different bases and are not strictly comparable. In each case a footnote explains the difference.
- 8. 'Billion' denotes one thousand million.
- 9. There is no single correct definition of *money*. The Government has set monitoring ranges for two aggregates:

M0, the narrowest measure, consists of notes and coin in circulation outside the Bank of England and bankers' operational deposits at the Bank.

M4 comprises notes and coin in circulation with the public, together with all sterling deposits (including certificates of deposit) held with UK banks and building societies by the rest of the private sector.

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

- 10. Symbols used:
 - .. not available
 - nil or less than half the final digit shown
 - + alongside a heading indicates a series for which measures of variability are given in the table on page T79
 - † indicates that the data has been revised since the last edition; the period marked is the earliest in the table to have been revised
 - * average (or total) of five weeks.

If you have any comments or suggestions about *Economic Trends*, please write to Michael Byrne, Technical Editor, Office for National Statistics, Zone D4/16, 1 Drummond Gate, London, SW1V 2QQ.

Marketing and Customer Service Division Office for National Statistics

March 1997

ONS Databank

The data in this publication can be obtained in computer readable form via the ONS Databank service which provides macro-economic time series data on disc. For more details about the availability of this and other datasets, prices or to place your order please telephone, write or fax the Sales Office, Marketing and Customer Service Division, Office for National Statistics, Zone B1/06, 1 Drummond Gate, London, SW1V 2QQ. Telephone: 0171 533 5678 or fax 0171 533 5689. The ONS does not offer direct on-line access for these data but a list of host bureaux offering such a facility is available on request from the ONS.

In brief

Articles

This month four articles feature. The ONS employment information branch at our Runcorn office present the annual article on employment in the public and private sectors. Nigel Stuttard of ONS examines how the distribution of income among households in the United Kingdom is modified by government expenditure and taxation in the annual taxes and benefits article. We also include a paper presented by Graham Jenkinson of ONS to a conference of macro-economic statistics in Slovenia last November on the United Kingdom's approach to the compilation of its quarterly integrated national accounts. Finally there is an article by Geoff Tily of ONS on international comparisons of GDP per head over time.

Cyclical indicators for the United Kingdom economy

As previously announced, the Office for National Statistics will cease to compile and publish Cyclical Indicators for the UK Economy after this edition of *Economic Trends*. This decision has been taken because of the need to find resources to take forward development work for the changes to the national accounts which take place in 1998 - particularly the new European System of Accounts and the five-yearly rebasing of the accounts. Key users have recently been consulted about their priorities for national accounts products, and their view was that cyclical indicators are the least valuable of these. For more information ring John Bundey on 0171-533 5940.

Recent ONS publications

Social Trends 27, 1997 edition. ISBN 0 11 620838 4, price £37.50. ONS's annual comprehensive guide to UK society today including chapters on population, households and families, education and training, the labour market, income, wealth and expenditure and lifestyles. An article on official projections is also included.

Annual Abstract of Statistics, 1997 edition. ISBN 0 11 620778 7, price £37.50. A compendium of data on almost every aspect of economic, social, financial and industrial life in the United Kingdom.

Annual Employment Survey 1995. Volume 1: Results for Great Britain, ISBN 1 85774 227 3. Volume 2: Results for counties and local authority districts, ISBN 1 85774 229 X. Volume 3: Other analyses for government office region, TEC/LEC area and local unit size analysis. ISBN 1 85774 230 3. Price £35.95 per volume. The main source of information about the numbers employed in local areas by detailed categories throughout Great Britain.

UK Input-Output Balances Methodological Guide, 1997 edition. ISBN 1 85774 234 6, price £25. Describes the recent and future development of United Kingdom input-output balances, structure, sources of data used and the annual balancing process.

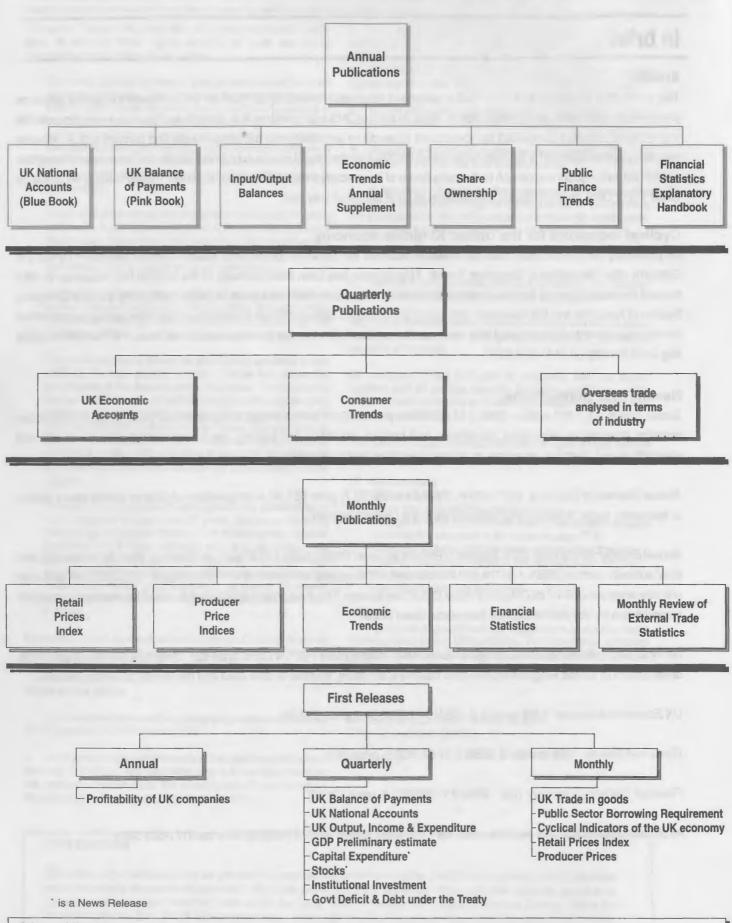
UK Economic Accounts: 1996 quarter 3. ISBN 0 11 620854 6, price £22.50.

Consumer Trends: 1996 quarter 3. ISBN 0 11 620832 5, price £45.

Financial Statistics, February 1997. ISBN 0 11 620871 6, price £22.50.

All of these publications are available from the ONS Sales Office. Tel 0171-533 5678 or fax 0171-533 5689.

United Kingdom Macro-Economic Statistics Publications



Other publications: - Retail Prices 1914-1990 - Input/Output Tables - Labour Market Statistics - Family Spending - Sector Classification Guide

Articles

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Economic update - March 1997

By Philip Blackburn and Adrian Richards, Economic Assessment - Office for National Statistics

Overview

Gross domestic product (GDP) growth accelerated in the fourth quarter driven by strong growth in services. Production output also grew strongly as manufacturing continued to recover and increased demand for energy boosted output in the energy industries. Output in the fourth quarter responded to increased domestic demand in the economy. Consumers' expenditure continued to grow strongly and strong retail sales in January along with increasing demand for credit, suggest the pace of consumer demand is picking-up again. Demand in the labour market showed signs of increasing as claimant unemployment fell substantially in January, but conversely, despite strong growth in output, manufacturers' demand for labour continued to decrease in the fourth quarter. There were signs of inflationary pressure in January from increasing housing costs as headline inflation (RPI) rose, however, falling prices of production materials and factory gate prices, and stable earnings growth suggest inflationary pressures are subdued. The net exports contribution to GDP increased as the trade deficit narrowed in the fourth quarter, but sterling's appreciation is showing signs of impact on external demand.

GDP Activity

1. Latest estimates show growth in GDP at factor cost accelerated in the fourth quarter to 0.8% from 0.7% in the third quarter. Between the fourth quarter 1995 and fourth quarter 1996, GDP grew by 2.7%.

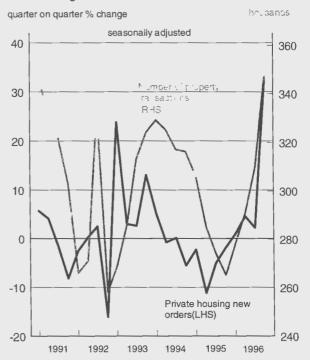
Output

2. Growth in **production** in the fourth quarter was strong, as **manufacturing** output continued to recover and colder than average weather boosted energy extraction and supply. Manufacturing output rose by 0.6% in the fourth quarter compared with the third quarter. Sectorally, production of durable goods increased strongly as output of cars accelerated with higher demand in the fourth quarter, however, output of intermediate goods, the largest category, continues to drive the growth in manufacturing output. Rising more strongly than manufacturing output, **mining and quarrying output** and output of the **electricity, gas and water** supply industries rose strongly

as demand for energy increased in December. **Construction** output is also growing strongly as the established "pick-up" in demand for housing continues. However, GDP growth continues to be driven by strong growth in services particularly in business and financial services, and transport and communications. The temporary effect of the bumper harvest on **agricultural** growth in the third quarter significantly reduced growth in agricultural output in the fourth quarter contributing a downward effect to GDP growth.

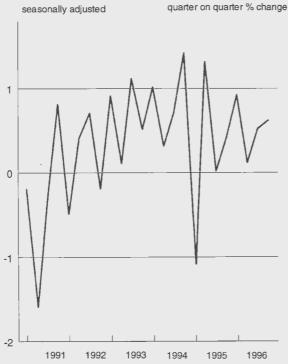
3. Construction output continues to grow strongly, responding to increased demand for private housing and commercial buildings. The volume of new **construction orders** in Great Britain, seasonally adjusted, rose strongly by 8% in the fourth quarter compared with the third quarter. Private housing, private commercial orders and infrastructure were significantly stronger over the period. Private industrial, public and association housing, and public non-housing still remained weak (despite the overall growth in orders). Chart 1 shows the supply of private housing is responding to the increased demand.

Chart 1
Private housing construction orders and housing transactions



- 4. Manufacturers' are becoming less confident of the future, but expectations remain reasonably high. The CBI Monthly Trends Enquiry in **manufacturing** reported the output expectations balance in the next 4 months, seasonally adjusted by the ONS, falling from 17% in January to 10% in February.
- 5. **Total domestic demand**, at constant prices, rose by 0.6% in the fourth quarter and by 2.1% in the four quarters to 1996 Q4, as shown in Chart 2. Strong growth in consumers' expenditure has been driving the growth in domestic demand, but growth in investment still remains significantly weaker.

Chart 2
Total domestic expenditure at constant market prices



Domestic demand

6. Consumers' expenditure accelerated by 0.9% in the fourth quarter as spending on durables grew strongly due to increased demand for cars. Expenditure on non-durables grew less strongly, but cold weather resulted in increased demand for energy products. Gross domestic fixed capital formation grew moderately as investment in dwellings and new buildings increased. There was no growth contribution from stock building in the fourth quarter as the alignment adjustment removed the moderate increase.

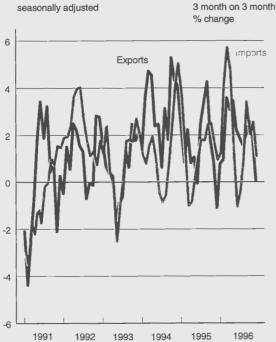
- 7. In the three months to January, the volume of **retail sales** was 0.9% higher than in three months to October, rebounding from weak sales in December, and 3.9% up on the same period a year ago. Strong sales occured in non-specialised, textile, clothing and footwear, and household goods stores.
- 8. Strong demand for personal borrowing continued in the fourth quarter of 1996. Total **net personal borrowing**, seasonally adjusted, rose strongly from £7.8 billion in the third quarter to £8.3 billion in the fourth quarter. **Net borrowing secured on dwellings**, seasonally adjusted, rose from £4.6 billion to £5.4 billion over this period, as the demand for housing continued to grow. However, **net consumer credit**, seasonally adjusted, fell from £3.2 billion to £2.9 billion following weaker demand in October which was reflected in falling retail sales in non-food stores at the time.
- 9. The **net exports** contribution to GDP expenditure increased, but still remained in deficit.

External demand

- 10. The deficit on **the balance of UK trade in goods** narrowed to £2.6 billion in the fourth quarter from £3.0 billion in the third quarter. Over this period the **volume of total exports**, **excluding oil and erratics**, rose only slightly by 0.1%. On the same basis **imports** rose by 1.1%. The weak quarterly growth in exports, highlighted in Chart 3, due to consecutive falls in November and December, occured at a time when sterling continued to appreciate. Over the year, volumes of exports, excluding oil and erratics, grew strongly by 7.6%, highlighting the strength of growth in the first three quarters. However, the underlying position weakened over the year, as volumes of imports, excluding oil and erratics grew faster than exports, at 9.3%.
- 11. Recent trade **prices** show evidence of the effect of the recent appreciation of sterling. Export and import prices of goods excluding oil and erratics fell by 1.9% and 2.7% respectively, suggesting exporters are lowering sterling export prices to moderate the impact of sterling's appreciation on prices in foreign currencies.
- 12. More timely data on **trade with non-EU countries** shows that the deficit narrowed from £1.8 billion in the three months to October 1996 to £1.7 billion in the three months to January 1997. As Chart 3 shows, over this period, **export volumes**, **excluding oil and erratics** fell by 1.5% compared with the

previous three months, suggesting the appreciation of sterling has had a dampening effect on demand for exports. On the same basis **import volumes**, fell slightly by 0.4%.

Chart 3
Volume of exports and imports (excluding oil and erratics)



Income

13. A rise in average earnings and employment in the fourth quarter led to strong growth in income from employment. Growth of GDP at current prices was also boosted by increased gross trading profits of companies which appears to emanate from the industrial and commercial companies sector.

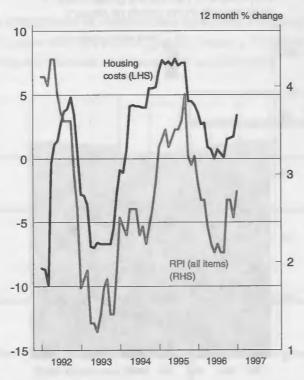
Prices and wages

14. Factory gate price rises fell sharply in January 1997, and the strong downward trend in the price of materials and fuels continued. The 12 month rate of increase in input prices (all manufacturing) fell slightly to deflation of 6.2% in January. The **output price** index for manufactured products (home sales), not seasonally adjusted, over the same period, fell to 1.5%. Isolating the latest price movements shows a sharper fall in both input and ouput prices. Using the three month on three month annualized percentage growth, **input prices** (all manufacturing),

seasonally adjusted, fell sharply from deflation of 8.6% to deflation of 14.0%, and output prices, seasonally adjusted and excluding excise duties, fell from 2.0% in December to 0.8% in January. Imports of materials and fuels on the whole have become significantly cheaper following the strong appreciation of sterling. Lower input costs to manufacturers appears to be feeding through to lower product prices.

- 15. There were less **expectations of rising prices** from manufacturers in February. The CBI Monthly Trends Enquiry for manufacturing showed a balance of 2% (down from 8% in January), seasonally adjusted by the ONS, expecting to raise prices in the next four months.
- 16. Earnings growth remained stable in December, although November's growth was revised upwards. The annual rise in underlying whole economy **average earnings** for Great Britain in December was 4¼%, unchanged from November (revised up ¼%, due to higher bonus payments). Although overall earnings growth appeared stable, production sector and manufacturing earnings growth both rose by ¼% to be 4¾%. Service sector earnings growth was 4%, unchanged from November (revised up ¼%). Over the past year, annual earnings growth in services increased faster than in production or manufacturing, rising from 3% in December 1995 to 4% in December 1996.
- 17. Headline inflation rose in January. The 12-month rate of increase of the **retail prices** index (**RPI**) rose to 2.8% in January 1997. Excluding mortgage interest payments (**RPIX**) the 12-month rate remained constant at 3.1%, and further excluding indirect taxes, the rate edged up to 2.8%. The rise in the headline rate was caused by significantly higher mortgage rates as compared with the same time in 1996. Other less significant upward effects in the index came from higher motor insurance premiums and second-hand car prices. Falling prices for clothing and footwear and electricity continued to exert some downward pressure on the index. As Chart 4 illustrates, the rate of change of housing costs, which has a weighting of 190 out of a total of 1000 in the RPI index, appears to have significantly influenced the rate of change in the all items RPI in recent years.

Chart 4
Retail price and housing inflation



Labour Market

18. As Chart 5 shows, despite the strong growth in manufacturing output in the fourth quarter, manufacturers continued to reduce employment by 9,000 in Great Britain between the third and fourth quarters of 1996 and by 38,000 over the year. The quarterly fall was entirely among women, split equally between full-time and part-time. Employment in the rest of the production industries fell by 2,000 in the fourth quarter of 1996 and by 38,000 over the year.

19. UK claimant unemployment, seasonally adjusted, fell substantially in January - down 67,800. The fall has been exaggerated by the Job Seekers' Allowance (JSA) implementation, which is difficult to quantify. There are now 1.8 million unemployed in the UK using the claimant count or 6.5% of the workforce. Over the three months to December, the average monthly fall was 70,000 compared with an average of 33,600 in the three months to October. The implementation of the JSA in October has had a downward effect on the claimant count, but the main quantifiable downward effects are relatively small in comparison with the overall fall in the count. The main quantifiable effects have been delays in processing claims using the new JSA computer system and the introduction of means testing after six months (rather than 12 months) encouraging job

Chart 5
Manufacturing output and employment



seeking. The JSA means testing may also be acting as a deterent against fraudulent claims. As Chart 6 shows, the falling trend in unemployment has been characterised by a sharp fall in the number of inflows onto the claimant count and a steady rise in the number of outflows from the count. In January, although the overall fall was substantial, both inflows and outflows rose.

20. The stock of vacancies is winding down after consistent rises in 1996. **Jobcentre vacancies** in the UK fell by 3,500 in January to be at a total of 262,800. In the three months to December, the average monthy rise was 100 compared with 10,800 in the three months to October. Rises in vacancies in the months prior to December have been overestimated following the introduction of a new computing system, which restricted placements.

21. There were 23,000 working days lost to **labour disputes** in the UK in December, a fall of 138,000 days compared to November. There was a significant increase in labour disputes last year compared with the previous year. In 1996 as a whole, there were 1.3 million days lost compared to 0.41 million in 1995. Sectorally, in 1996, 68% of the days lost were in transport, storage and communications, 12% in public administration and 10% in education.

Chart 6
Claimant unemployment inflows and outflows

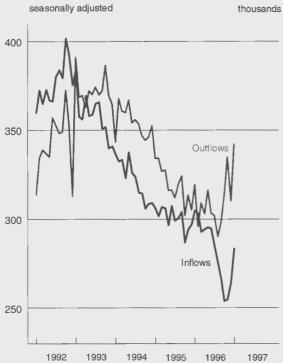
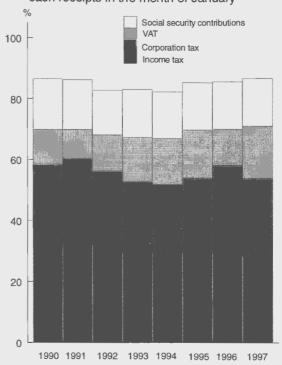


Chart 7
Proportions of total central government cash receipts in the month of January



Monetary indicators

22. The annual growth of **narrow money (M0)**, seasonally adjusted, accelerated from 7.0% in December to 7.4% in January 1997. Annual growth of **broad money (M4)**, seasonally adjusted, accelerated from 9.5% in December to 9.8% in January.

Government finances

23. In January 1997, the **public sector borrowing requirement** (**PSBR**) was minus £5.8 billion - a repayment. For the first ten months of the financial year of 1996-97, the PSBR was £10.3 billion compared with £19.3 billion in the same period last year. The underlying position has improved following the net repayment - **excluding privatisation proceeds** the figures were £14.5 billion and £20.2 billion respectively. There were substantial increases in receipts of income tax, coporation tax, VAT, and social security contributions in January. As Chart 7 shows, the proportions of total cash receipts from the different sources, contributing to the usual repayment in January of each financial year, have been reasonably stable in the 1990s. However, there has been a gradual increase in the proportion of VAT receipts.

Forecast for the UK Economy

A comparison of independent forecasts, February 1997.

The tables below are extracted from HM Treasury's "FORECASTS FOR THE UK ECONOMY" and summarise the average and range of independent forecasts for 1997 and 1998, updated monthly.

	Inde	pendent Forecasts for 1997	,
	Average	Lowest	Highest
GDP growth (per cent)	3.4	2.5	4.3
Inflation rate (Q4) - RPI - RPI excl MIPS	3.3 2.8	2.2 2.0	5.0 4
Unemployment (Q4, mn)	1.69	1.40	1.87
Current Account (£bn)	-4.7	-12.0	5.0
PSBR (1997-98, £bn)	20.3	12.7	24.0

	Inde	pendent Forecasts for 1998	
	Average	Lowest	Highest
GDP growth (per cent)	2.7	1.5	4.2
Inflation rate (Q4) - RPI - RPI excl MIPS	3.4 3.3	1.9 2.0	4.8 4.5
Unemployment (Q4, mn)	1.56	1.21	1.86
Current Account (£bn)	-7.7	-19.9	-0.9
PSBR (1998-99, £bn)	15.1	7.0	27.0

Memo item: The latest independent average for the 1996-97 PSBR (£bn) is 25.6, with a range of 20.0 - 28.3.

NOTE: "FORECASTS FOR THE UK ECONOMY" gives more detailed forecasts, covering 24 variables and is published monthly by HM Treasury, available on annual subscription, price £75,. Subscription enquiries should be addressed to Miss Jehal, Publishing Unit, Room 53a, HM Treasury, Parliament Street, London SW1P 3AG (0171 270 5607).

International Economic Indicators

by Kevin Madden, Economic Assessment - Office for National Statistics

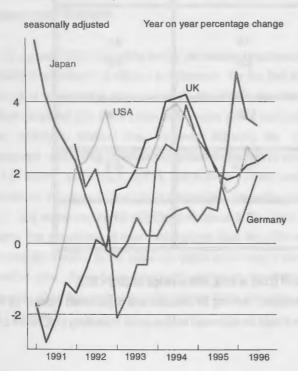
Overview

In 1996 Q4 growth accelerated in the United Kingdom and remained relatively strong in France, Germany and Canada. While the direction of consumer prices was upwards in the G7, prices to producers remained subdued. In the tighter labour markets of the United States and Japan wage inflation rose after recording falls in the previous month. Here employment growth has dissipated even though job vacancies increased and, unemployment, outside of the United Kingdom, appeared to rise or show no clear trend. With the dollar strong against all major currencies the American trade deficit widened in 1996 Q3, while the German deficit narrowed.

Activity

2. Quarterly growth in gross domestic product (GDP) at constant market prices in the United Kingdom accelerated in the fourth quarter. Growth in GDP was led by consumers' expenditure. Assisted by a powerful impetus from government expenditure and exports the Japanese economy edged higher after a fall in the previous period.

Chart 1
Gross domestic product



France, Germany and Canada all rose relatively strongly in this period. The main driving force in France and Canada was rising investment expenditure, whereas government final consumption injected additional demand into a German economy with an increasingly depressed labour market. Chart 1 shows the annual growth rates.

- 3. November showed industrial production growing strongly in the United Kingdom, Germany and the United States. In the United Kingdom monthly growth in industrial production was maintained in December culminating in an acceleration of growth in 1996 Q4. After its strong rise in October production fell in Japan across all its major sectors.
- 4. Latest estimates of **retail sales** growth show a rebound in the United Kingdom in January 1997. The level of retail sales continued to weaken in Japan in October, maintaining the frailty shown in the previous two quarters.

Inflation

- 5. Consumer price inflation in the G7 moved higher in November. Within this aggregate prices increased in Japan, Canada and the United States (which now has the highest G7 rate). In the United Kingdom the rate rose to 2.8% in January 1997. In Germany and France, however, prices fell in November as demand shown by retail sales data and consumer confidence has been depressed lately.
- 6. Producer price inflation remained subdued in the G7 unchanged at 1.1% in November. The rate in the United States was almost three times the G7 average: induced in particular by a sharp rise in refined petroleum products. In the United Kingdom in January 1997 the rate moved down to 0.6%.

7. **Earnings** growth rebounded in the United States and Japan in November. In the previous month there were falls in the rate in all of the G7 economies where estimates were available, but the falls were sharpest in the United Kingdom (shown in chart 2) and Canada.

Chart 2
Average earnings growth



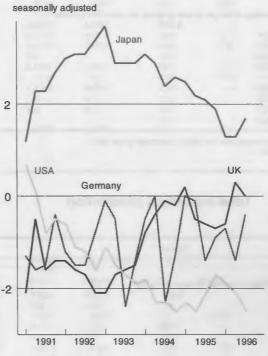
Labour market

- 8. Employment declined in the United States and Canada in November. Employment growth had slowed in both economies after strong growth in 1996 Q2. In the former it was a large fall in part-time work, that produced the deterioration in the job market. However, advertisements for help wanted picked up in the United States and Canada.
- Standardised unemployment rates (ILO based) rose in the United States in November, and is unchanged since December 1994.
 German unemployment moved up again, rising by one percentage point since May 1995.

Trade

10. As the dollar strengthened against the deutschemark and the yen in 1996 Q3, the United States current account deficit widened, a product of an increasing deficit on trade and investment income. The reduction in the imbalance on current account in Germany was aided by a strong improvement in the trade surplus (see chart 3).

Chart 3
Current account balances as percentage of GDP



Notes

- 12. The series presented here are taken from the OECD's Main Economic Indicators, except for the United Kingdom where several of the series are inclusive of publication up to 25 February 1997. The series shown are for each of the G7 economies and for the European Communities (EC) and OECD countries in aggregate. Data for unified Germany is added to the article as it becomes available. Footnotes to the tables explain the commencement or otherwise of the data.
- 13. Comparisons of indicators over the same period should be treated with caution as the length and timing of these cycles varies across countries.

Gross domestic product at constant market prices

	United Kingdom	Germany ¹	France	Italy	EC	United States	Japan ²	Canada	Major 7	OECD
Percentage cha	inge on a year earl	ior								
reiceilage cit	ILFX	ILFY	ILFZ	ILGA	ILGB	ILGC	ILGD	ILGE	ILGF	ILGG
1985	3.8	2.3	1.9	2.6	2.6	3.7	4.4	4.8	3.5	3.4
1990	0.4	5.9	2.5	2.1	2.9	1.3	5.1	-0.3	2.4	2.7
1991	-1.9		0.8	1.1	3.0	-1.0	4.0	-1.8	1.4	1.3
1992	-0.5	1.8	1.2	0.6	0.9	2.7	1.0	0.8	1.8	1.8
1993	2.0	-1.1	-1.4	-1.1	-0.6	2.3	0.1	2.2	1.0	0.9
1994	3.8	2.9	2.8	2.1	2.8	3.4	0.7	4.1	2.8	2.7
1995	2.5	2.1	2.2	2.9	2.5	2.1	1.3	2.3	2.0	2.0
1996	2.2	**	**						4.	
1996 Q1	1.9	0.3	1.0	1.3	1.3	1.6	4.8	0.6	2.0	2.0
Q2	2.2	1.1	0.7	0.8	1.4	2.7	3.5	1.1	2.3	2.5
Q3	2.3	1.9	1.4			2.3	3.3	1.6		
Q4	2.5				**					
Percentage cha	ange, latest quarte	r on previous qua	arter							
	ILGH	ILGI	ILGJ	ILGK	ILGL	ILGM	ILGN	ILGO	ILGP	ILGQ
1995 Q1	0.5	0.4	0.6	1.5	0.7	0.2	-0.1	0.4	0.3	0.5
Q2	0.4	0.7	0.2	0.2	0.5	0.2	1.0	-0.3	0.4	0.2
Q3	0.4	_	0.2	0.7	0.3	0.9	0.3	0.4	0.6	0.6
Q4	0.6	0.1	-0.5	0.1	0.2	0.1	1.4	0.2	0.3	0.4
1996 Q1	0.6	-0.4	1.1	0.4	0.4	0.5	2.0	0.3	0.7	0.8
Q2	0.7	1.4	-0.2	-0.4	0.5	1.2	-0.3	0.3	0.6	0.6
Q3	0.4	0.8	0.9			0.5	0.1	8.0		
Q4	0.8					**				

¹ Data available for unified Germany since 1991 2 GNP

Total industrial production

	United Kingdom	Germany ¹	France	Italy	EC	United States	Japan ²	Canada ³	Major 7	OECD4
Percentage cha	inge on a year ear	ior								
. crocinage one	ILGR	ILGS	ILGT	ILGU	ILGV	ILGW	ILGX	ILGY	ILGZ	ILHA
1985	5.6	5.0	0.7	1.2	3.3	1.6	3.6	5.6	2.8	3.0
1990	-0.3	5.2	1.5	0.2	2.1	_	4.3	-3.3	1.5	1.7
1991	-3.7	3.7	0.3	-0.9	-0.2	-1.8	1.9	-4.2	-0.4	-0.4
1992	-0.1	-2.6	-0.1	-0.2	-1.2	3.4	-5.7	1.1	-0.3	-0.2
1993	2.1	-7.2	-2.7	-2.4	-3.2	3.5	-4.3	4.5	-0.5	-0.5
1994	5.0	3.6	3.8	5.2	4.6	5.8	1.2	6.5	4.4	4.7
1995	2.6	1.2	1.5	5.4	3.4	3.4	3.3	4.0	3.1	3.0
1996	1.2	••			••					
1996 Q3	0.7	1.7	-3.7	-2.7	1.1	3.6	3.7	2.2	2.4	2.7
Q4	1.7				**	**		••	**	
Percentage cha	inge, latest quarte	r on previous qu	arter							
	ILHB	ILHC	ILHD	ILHE	ILHF	ILHG	ILHH	ILHI	ILHJ	ILHK
1995 Q1	0.8	-2.0	0.9	-1.2	-0.2	1.0	1.1	0.9	0.4	0.4
Q2	0.4	1.2	0.6	1.8	0.9	-0.3	0.2	-0.5	0.1	-
Q3	0.8	-0.4	0.3	1.7	0.3	0.8	-1.3	0.3	0.3	0.4
Q4	-	-1.9	-3.0	1.4	-0.3	0.2	2.1	-0.4	0.2	0.3
1996 Q1	0.1	0.1	0.7	-3.6	-0.8	0.7	0.5	0.4	0.2	0.2
Q2	0.3	1.2	0.3	-0.3	0.6	1.6	-0.2	0.4	0.8	0.8
Q3	0.3	1.1	1.8	-0.2	1.2	1.1	1.3	1.8	1.0	1.4
Q4	0.9	10 mg 10 mg		**	**	**	**	**	**	
Percentage cha	ange: latest month	on previous mo	onth							
	ILKB	ILKC	ILKD	ILKE	ILKF	ILKG	ILKH	ILKI	ILKJ	ILKK
1996 Nov	0.6	2.0				0.8	-1.8		**	
Dec	0.6					**		**		

Data available for Unified Germany from 1991
 Not adjusted for unequal number of working days in a month
 GDP in industry at factor cost and 1986 prices
 Some countries excluded from area total

	United Kingdom	Germany	France	Italy	EC	United States	Japan	Canada	Major 7	OECD
Percentage char	nge on a year earlie	er								
	ILHL	1LHM	ILHN	ILHO	ILHP	ILHQ	ILHR	ILHS	ILHT	ILHU
1985		0.6	0.9	4.3	2.3	4.4	1.5	7.5	3.4	3.3
1990	0.8	8.5	0.8	-1.6	2.4	0.7	5.3	-2.4	1.7	1.8
1991	-1.5	5.7	_	-3.4	0.8	-2.4	2.0	-10.1	-1.0	-0.8
1992	0.8	-2.0	0.1	5.3	-0.1	3.4	-3.0	1.0	1.3	1.1
1993	3.0	-4.2	0.4	-2.3	-1.8	5.3	-4.8	3.0	1.8	1.0
1994	3.6	-1.8	-	-5.8	-1.0	6.2	-1.3	8.2	3.0	2.7
1995	1.1	0.5	-0.3	-4.8	0.8	4.1	6.1	0.4	2.7	3.2
1996	3.0								**	
1996 Q3	3.4		-2.5		-0.7	1.4	-1.4	-0.3	0.3	-0.1
Q4	3.8									
Percentage chai	nge, latest quarter	on previous qua	rter							
	ILHV	ILHW	ILHX	ILHY	ILHZ	ILIA	ILIB	ILIC	ILID	ILIE
1995 Q1	-0.6		1.5	3.7	2.7	-0.1	6.7	-1.5	1.1	1.9
Q2	0.8		-0.5	-2.7	-0.3	0.8	-1.0	-0.6	_	0.2
Q3	0.2		1.2	2.0	0.7	1.3	1.2	0.9	1.1	1.0
Q4	0.7		-3.8	-9.9	-2.7	0.6	-0.6	-0.8	-0.8	-0.7
1996 Q1	0.5	1.0	4.1		1.6	0.8	2.6	0.4	1.4	1.2
Q2	1.4	0.7	-2.2	**	0.4	-0.6	-2.1	-0.6	-0.3	-0.6
Q3	0.8	0.3	-0.4		_	0.6	-1.3	0.7	_	_
Q4	1.1	••								
Percentage cha	nge, latest month o	on previous mor	ith							
	ILKL	ILKM	ILKN	ILKO	ILKP	ILKQ	ILKR	ILKS	ILKT	ILKU
1996 Dec	-0.8									
1997 Jan	0.6								.,	

4 Consumer prices¹

	United Kingdom	Germany ²	France	Italy	EC	United States	Japan	Canada	Major 7	OECD ³
Percentage cha	nge on a year earl									
	FRAN	HVLL	HXAA	HYAA	HYAB	ILAA	ILAB	ILAC	ILAD	ILAE
1985	6.1	2.2	5.8	8.6	6.1	3.5	2.0	4.0	4.0	7.0
1990	9.5	2.7	3.5	6.5	5.7	5.4	3.1	4.8	5.0	6.8
1991	5.9	3.5	3.2	6.5	5.2	4.2	3.3	5.6	4.3	6.1
1992	3.7	4.0	2.4	5.3	4.5	3.0	1.6	1.5	3.1	5.0
1993	1.6	0.7	2.1	4.2	3.6	3.0	1.1	1.9	2.7	4.3
1994	2.4	-2.0	1.7	3.9	3.1	2.6	0.5	0.2	2.2	4.4
1995	3.5	1.2	1.8	5.3	3.1	2.8	-0.3	2.2	2.4	5.5
1996	2.4									
1995 Q1	3.4	0.4	1.7	4.4	3.0	2.8	-0.1	1.5	2.4	5.3
Q2	3.5	0.8	1.6	5.5	3.2	3.1	-0.1	2.7	2.6	5.6
Q3	3.7	1.8	1.8	5.7	3.1	2.6	-0.3	2.4	2.4	5.6
Q4	3.2	1.8	1.9	5.7	3.0	2.6	-0.6	2.0	2.3	5.5
1996 Q1	2.8	1.8	2.1	5.0	2.8	2.8	-0.4	1.4	2.2	5.6
Q2	2.2	1.7	2.3	4.3	2.6	2.8	0.1	1.4	2.3	5.6
Q3	2.1	1.5	1.8	3.5	2.4	3.0	0.2	1.4	2.2	5.0
Q4	2.6									
1996 Oct	2.7	1.5	1.8	3.0	2.4	3.0	0.5	1.8	2.3	4.7
Nov	2.7	1.4	1.6	2.6	2.2	3.3	0.5	2.0	2.4	4.7
Dec	2.5									
1997 Jan	2.8	**								

 ¹ Components and coverage not uniform across countries
 2 Data available for Unified Germany from 1991
 3 OECD data includes 'higher inflation' countries (Mexico and Turkey)

Producer prices (manufacturing)

	United Kingdom	Germany ¹	France ²	Italy	EC	United States	Japan	Canada	Major 7	OECD ³
Percentage cha	nge on a year earl	ier								
ŭ	EUAA	ILAF	ILAG	ILAH	ILAI	ILAJ	ILAK	ILAL	ILAM	ILAN
1985	5.7	2.1	4.5	7.8	4.9	0.9	-0.8	2.7	1.9	4.9
1990	5.8	1.5	-1.1	4.1	2.4	5.0	1.6	0.3	3.3	4.7
1991	4.8	2.2	-1.2	3.3	2.2	2.2	1.1	-1.0	1.9	3.3
1992	2.3	1.6	-1.4	1.9	1.3	1.3	-0.9	0.5	0.9	2.3
1993	2.6	-	-2.6	3.8	1.2	1.3	-1.6	3.3	0.7	2.1
1994	2.3	-2.9	1.1	3.7	2.1	0.6	-1.7	5.7	0.8	3.3
1995	4.5	2.2	6.4	7.9	4.7	1.9	-0.6	8.1	2.6	7.1
1996	2.0									
1995 Q1	3.7	2.3	7.5	6.5	4.8	1.7	-0.7	9.9	2.5	6.7
Q2	4.6	2.5	8.8	8.8	5.4	2.2	-0.5	9.0	3.0	7.3
Q3	5.0	2.4	6.6	9.0	5.1	1.6	-0.7	7.7	2.7	7.2
Q4	4.6	1.8	2.7	7.2	3.6	2.2	-0.7	5.8	2.4	7.2
1996 Q1	3.5	0.7	-1.2	4.8	1.9	2.2	-0.9	1.7	1.5	6.7
Q2	2.3	0.1	-3.2	1.4	0.7	2.5	-0.9	0.5	1.2	6.8
Q3	1.2	-0.2	**	0.1	-0.2	2.8	-0.8	-0.2	1.0	7.1
Q4	0.9									
1996 Oct	1.0	0.1	-3.3	0.4	0.1	3.0	-0.8	-0.3	1.1	7.9
Nov	0.8	**	-3.0				-0.6	-0.5	**	
Dec	0.8		**				**		••	
1997 Jan	0.6									

Average wage earnings in manufacturing¹

	United Kingdom ²	Germany ³	France	Italy	EC	United States	Japan	Canada	Major 7	OECD
Daraantaga ahar	nge on a year earlier									
reiceillage chai	ILAY	ILAO	ILAP	ILAQ	ILAR	ILAS	ILAT	ILAU	ILAV	ILAW
1985	9.1	4.0	6.1	11.2	7.1	3.8	3.3	3.7	4.5	4.5
1990	9.3	5.7	4.4	7.3	6.9	3.3	5.0	4.7	5.1	5.0
1991	8.2	6.2	4.3	9.8	7.1	3.3	3.5	4.7	4.9	4.9
1992	6.6	-3.6	3.7	5.5	5.6	2.4	1.3	3.5	3.2	3.2
1993	4.5	3.0	2.4	3.7	4.5	2.5	0.5	2.1	2.6	2.6
1994	4.8	3.4	1.8	3.4	3.8	2.8	2.3	1.6	3.0	3.0
1995	4.5	3.3	2.3	3.1	3.8	2.5	3.1	1.5	3.0	3.0
1994 Q4	5.3	2.5	1.6	3.0	3.5	2.5	3.1	1.9	3.2	3.2
1995 Q1	5.0	1.7	1.8	2.5	3.2	2.3	4.0	0.5	2.8	2.8
Q2	4.7	4.1	2.2	2.3	3.9	2.4	2.6	0.9	2.7	2.7
Q3	4.4	3.3	2.6	3.6	4.0	2.8	3.0	2.3	3.5	3.5
Q4	3.9	4.1	2.6	3.9	4.2	2.6	2.6	2.1	3.2	3.2
1996 Q1	4.4		2.6	3.2		2.7	1.9	1.7	3.3	3.3
Q2	4.1		2.5	2.5		3.5	1.3	1.6	2.8	3.0
Q3	4.1		2.6	2.0		3.5	3.5	3.9	3.4	3.7
1996 Sep	4.6			2.0	**	3.4	3.2	4.9	3.3	3.5
Oct	4.0			1.5		3.3	2.7	4.2		
Nov			**			3.6	2.9			

Data available for Unified Germany from 1991
 Producer prices in intermediate goods
 OECD includes 'higher inflation' countries (Mexico and Turkey)

¹ Definitions of coverage and treatment vary among countries 2 Figures for Great Britain refer to weekly earnings; others are hourly 3 Western Germany (Federal Republic of Germany before unification)

	United Kingdom	Germany ^{2,3}	France ³	Italy	EC	United States ³	Japan	Canada ³	Major 7	OECD
D		*:								
Percentage cha	ange on a year ear ILIF	ILIG	IL!H	ILI!	ILIJ	ILIK	ILIL	ILIM	ILIN	11.10
1985	1.1	-6.0	-0.1	0.5	0.5	2.0	0.7	2.9	1.3	ILIO 1.3
1985	1.1	-0.0	-0.1	0.5	0.5	2.0	0.7	2.9	1.3	1.3
1990	0.6	2.6	1.0	1.4	1.6	0.5	1.9	0.7	1.2	1.1
1991	-2.9	1.9	_	1.3	-0.1	-1.0	2.0	-1.9	-0.1	-0.1
1992	-2.6	0.9	-0.6	-0.6	-1.2	1.0	1.0	-0.6	0.2	-0.2
1993	-1.1	-1.8	-1.2	-4.8	-2.4	1.0	_	1.3	_	-0.2
1994	0.9	-1.6	0.2	-2.0	-0.5	3.0	1.0	2.2	1.3	1.1
1995	0.8	-0.2	1.1	-0.1	0.7	1.9	-1.0	1.6	0.8	1.0
1996 Q2	0.3	-1.1	_	0.3	0.2	1.2	0.3	1.3	0.4	0.5
Q3	8.0	-1.1	-0.3	0.3	0.4	1.8	0.7	1.1	0.9	0.9
Percentage cha	ange,latest guarte	r on quarter								
	ILIP	LIQ	ILIR	ILIS	ILIT	ILIU	ILIV	ILIW	ILIX	ILIY
1994 Q4	0.4	0.3	-0.5	-1.5	-0.3	0.4	-0.8	-2.2	-0.1	-0.2
1995 Q1	0.2	-1.2	0.3	-1.6	-0.2	-1.0	-1.7	-2.3	-1.2	-1.0
Q2	_	0.4	0.4	1.6	0.8	1.2	2.9	3.5	1.6	1.5
Q3	_	0.4	0.2	1.2	0.3	0.7	0.1	2.1	0.4	0.5
Q4	0.3	_	0.3	-0.7	0.1	-0.2	-1.2	-2.5	-0.5	-0.5
1996 Q1	0.1	-2.0	0.1	-1.3	-0.9	-1.2	-1.6	-1.8	-1.4	-1.2
Q2	-0.1	0.4	-0.4	1.2	0.7	2.0	3.2	3.5	1.9	1.7
Q3	0.5			1.2	0.5	1.2	0.5	2.0	0.9	0.9
Percentage ch	ange, latest month	on previous mon	th							
•	ILKV	. ILKW	ILKX	ILKY	ILKZ	ILLA	ILLB	ILLC	ILLD	ILLE
1996 Oct						0.6	-0.4	-0.1		
Nov						-0.2	0.7	-0.8		

¹ Not seasonally adjusted except for the United Kingdom 2 Data available for Unified Gemany from 1991 3 Excludes members of armed forces

Standardised unemployment rates: percentage of total labour force¹

	United Kingdom	Germany ²	France	Italy	EC	United States	Japan	Canada	Major 7	OECD
	GABF	GABD	GABC	GABE	GADR	GADO	GADP	GADN	GAEQ	GADQ
1985	11.2	7.1	10.3	9.6	10.5	7.1	2.6	10.5	7.2	7.9
1990	6.9	4.8	8.9	10.3	8.1	5.5	2.1	8.1	5.6	6.1
1991	8.8	4.2	9.5	9.9	8.5	6.8	2.1	10.3	6.4	6.8
1992	10.1	4.6	10.4	10.5	9.3	7.4	2.2	11.3	6.9	7.4
1993	10.4	7.9	11.7	10.2	10.9	6.8	2.5	11.2	7.2	8.0
1994	9.6	8.4	12.3	11.1	11.4	6.0	2.9	10.3	7.0	7.9
1995	8.7	8.2	11.7	12.2	11.0	5.5	3.1	9.5	6.8	7.5
1994 Q4	9.0	8.1	12.0	11.4	11.2	5.5	2.9	9.7	6.7	7.6
1995 Q1	8.8	8.1	11.8	12.2	11.1	5.5	2.9	9.6	6.7	7.5
Q2	8.8	8.1	11.7	12.2	11.0	5.6	3.1	9.5	6.8	7.6
Q3	8.7	8.2	11.6	12.1	11.0	5.6	3.2	9.5	6.8	7.5
Q4	8.6	8.5	11.8	11.9	10.9	5.5	3.3	9.4	6.8	7.5
1996 Q1	8.4	8.9	12.1	12.0	10.7	5.6	3.3	9.5	6.8	7.5
Q2	8.3	8.9	12.2	12.0	10.7	5.4	3.5	9.6	6.8	7.6
Q3	8.2	8.9	12.4		10.7	5.2	3.3	9.7	6.8	7.5
1996 Oct	7.9	9.1	12.5		10.9	5.2	3.4	10.0	6.8	7.5
Nov						5.4	3.2	10.0		

Uses an ILO based measure of those without work, currently available for work, actively seeking work or waiting to start a job already obtained
 Data available on Unified Germany from January 1993



Balance of payments current account as percentage of GDP

	United Kingdom	Germany ^{1,2}	France	Italy	United States ¹	Japan ¹	Canada
	ILAZ	ILBA	ILBB	ILBC	ILBD	ILBE	ILBF
1985	0.6	2.7	-0.1	-0.9	-3.1	3.6	-1.3
1990	-3.4	3.1	-0.8	-1.3	-1.7	1.2	-3.8
1991	-1.4	-1.2	-0.5	-2.1	-0.1	2.1	-4.1
1992	-1.7	-1.2	-0.3	-2.3	-1.1	3.2	-3.9
1993	-1.7	-1.1	0.7	1.1	-1.6	3.1	-4.3
1994	-0.4	-0.9	0.7	1.5	-2.2	2.8	-3.3
1995	-0.4	-0.7	1.1	2.5	-2.1	2.2	-1.7
1994 Q3	-0.1	-2.3	0.7	1.9	-2.3	2.4	-2.0
Q4	-0.2	-1.3	0.7	1.8	-2.5	2.6	-1.4
1995 Q1	0.2	_	1.9	1.0	-2.3	2.5	-3.7
Q2	-0.5	-0.1	1.3	3.0	-2.5	2.2	-2.6
Q3	-0.6	-0.8	0.3	3.2	-2.1	2.3	-1.2
Q4	-0.7	-1.4	0.9	2.6	-1.7	1.9	-0.2
1996 Q1	-0.6	-0.7	1.7	2.0	-1.9	1.3	-0.9
Q2	0.3	-1.4	0.8	3.8	-2.0	1.3	0.6
Q3	_	-0.4		**	-2.5	1.6	0.3

10 World trade¹

	Export	of manufacti	ıres	Import	of manufact	ures	Ex	port of goo	ods	Im	port of god	ods	World to	rade
	World	OECD	Other	World	OECD	Other	World	OECD	Other	World	OECD	Other	manufact- ures	goods
Percentage o	hange on a	vear earlier												
3	ILIZ	ILJA	ILJB	ILJC	ILJD	ILJE	ILJF	ILJG	ILJH	ILJI	ILJJ	ILJK	ILJL	ILJM
1985	5.0	5.5	2.5	4.1	7.1	-1.9	3.9	3.9	4.9	1.0	3.5	5.6	4.5	3.7
1990	5.2	5.0	6.1	4.4	5.3	2.2	5.0	5.0	4.9	5.3	5.2	4.8	4.8	5.1
1991	3.1	2.3	6.2	4.2	3.4	6.3	3.6	3.6	3.2	4.3	3.8	3.1	3.6	3.7
1992	4.6	4.7	4.3	6.2	6.2	6.3	5.9	5.9	5.1	2.4	4.3	6.0	5.4	5.1
1993	5.0	1.9	17.0	4.0	0.9	12.0	4.6	4.6	2.8	14.9	6.0	1.1	4.7	5.2
1994	9.9	9.5	11.2	10.5	11.5	8.0	8.2	8.2	8.7	7.5	8.8	9.6	10.0	8.6
1995	7.3	7.9	5.3	7.2	8.7	3.3	6.7	6.7	7.0	6.2	6.0	6.6	7.2	6.4
1995 Q4	5.0	5.0	5.0	4.2	4.7	2.8	4.5	4.0	5.9	3.5	3.2	4.4	4.6	4.0
1996 Q1	6.7	5.2	12.0	7.2	4.8	13.5	6.1	4.3	10.5	6.7	4.3	12.9	7.0	6.4
Percentage of	hange, lates	st quarter or	previous	quarter										
_	ILJN	ILJO	ILJP	ILJQ	ILJR	ILJS	ILJT	ILJU	ILJV	ILJW	ILJX	ILJY	ILJZ	ILKA
1994 Q2	3.5	3.9	2.0	3.1	3.8	1.5	3.3	3.4	1.4	2.6	3.2	1.1	3.3	2.7
Q3	2.4	2.1	3.4	2.9	2.7	3.4	5.6	1.9	3.5	2.5	2.3	2.9	2.7	2.4
Q4	2.9	3.5	8.0	3.5	4.7	0.6	8.8	3.5	0.5	2.6	3.5	0.3	3.2	2.6
1995 Q1	1.2	1.6	-0.2	0.5	1.1	-1.1	6.8	1.3	1.3	0.7	0.7	0.6	0.8	1.0
Q2	0.6	0.8	0.1	0.7	1.0	-0.1	5.0	0.5	0.2	0.6	0.9	-0.1	0.6	0.5
Q3	2.0	1.1	5.2	1.8	1.0	4.1	3.6	1.1	4.3	1.6	0.8	3.8	1.9	1.8
Q4	1.1	1.4	-	1.1	1.6	-0.1	5.9	1.1	0.1	0.5	0.7	-0.1	1.1	0.7
1996 Q1	2.9	1.8	6.4	3.4	1.1	9.3	4.6	1.6	5.7	3.8	1.9	8.9	3,1	3.3

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

Balance as percentage of GNP
 Data available for Unified Germany from July 1990

Employment in the Public and Private Sectors

Employment Information Branch, Office for National Statistics

Introduction

This article presents data (updated to 1996) on employment in the public and private sectors. (A similar article, presenting data to 1995, was published in the January 1996 edition of Economic Trends.) It shows the relative overall size of the two sectors (tables A and C) and gives the following more detailed analysis of employment in the public sector. Table B compares public sector employment, analysed by male/ female and full-time/ part-time, over a 10 year perspective. Table C gives sectoral information by industry group (based on the Standard Industrial Classification (SIC) 1992). Table D gives information by public sector major category - and also includes data on full-time equivalents as well as by head-count.

The data includes the following revisions since the previous article: the total workforce data for 1994 includes an upward revision of 38 thousand (table A); data for self-employed workers is revised back to 1984 (table C). All figures are by headcount and at mid-year unless otherwise stated.

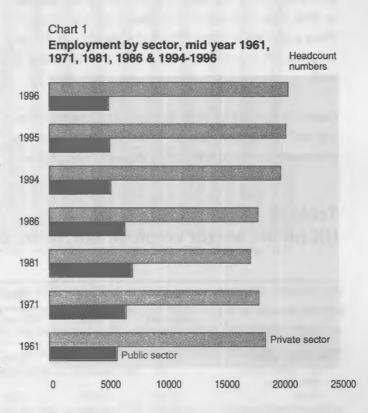


TABLE A

Analysis of workforce in employment by sector: headcount, midyear 1961, 1971, 1981, 1986 & 1994-96

	Thou											
100	1100	1961	1971	1981	1986	1994	1995	1996				
Total workforce in employment	CGYL	24,457	24,669	24,498	24,739	25,548	25,832	25,906				
Private sector	CGXV	18,598	18,042	17,313	17,979	19,914	20,364	20,560				
Work related gov't training programmes	CGYO	0	0	0	226	302	227	196				
Public sector	FHCE	5,859	6,627	7,185	6,534	5,332	5,241	5,150				
Public corporations	DYBH	2,200	2,009	1,867	1,187	1,467	1,527	1,512				
National Health Service Trusts	CGXN	0	0	0	0	1,000	1,085	1,102				
Other	FHCC	2,200	2,009	1,867	1,187	467	442	410				
General government	FHCA	3,659	4,618	5,318	5,347	3,865	3,714	3,638				
Central government	FHBT	1,790	1,966	2,419	2,337	1,213	1,058	987				
HM Forces	CGYN	474	368	334	322	250	230	221				
National Health Service	FHBR	575	785	1,207	1,215	205	97	90				
Other	FHBS	741	813	878	800	758	731	676				
Local authorities	DYBG	1,869	2,652	2,899	3,010	2,652	2,656	2,651				
Education	CGYS	785	1,297	1,454	1,452	1,182	1,193	1,183				
Social services	FHBU	170	276	350	387	408	412	408				
Police	FHBX	108	152	186	188	207	207	207				
Construction	FHBW	103	124	143	125	87	83	79				
Other	FHBY	703	803	766	770	768	761	774				

² Figures include Agency nurses temporarily employed in the NHS.

Analysis by Sector (Table A and Chart 1)

The total workforce increased by 74 thousand between 1995 and 1996.

In 1996, 79 per cent (20.6 million) of the workforce in employment was in the private sector (this included 3.3 million (13%) self-employed). This is 196 thousand higher than the previous year. In 1996, there were 5.2 million employees in the public sector. This is a fall of 91 thousand (1.7%) on the previous year. This fall compares with falls of 90 thousand in 1994 and 91 thousand in 1995.

General government fell by 76 thousand (2.0%) between 1995 and 1996. This included falls of: 71 thousand (6.7%) in central government; and 5 thousand (0.2%) in local authority employment.

Some of the fall by central government was offset by the growth in public corporations, largely arising from the creation of NHS Trusts. This year saw a small increase of 17 thousand (1.6%) in National Health Service (NHS) Trusts between 1995 and 1996, compared to a 85 thousand (8.5%) increase between 1994 and 1995. This is because most hospitals have already achieved trust status so fewer are being introduced with each new wave of trusts.

Since 1986, employment by public corporations excluding NHS Trusts, has fallen by around 777 thousand (65.5%) to 410 thousand in 1996. Over the same period, general government has fallen by 1.7 million (32.0%), largely as a result of the health reclassification. There was also a 359 thousand (11.9%) decrease in local authority employment, particularly in education services, as a result of reclassifications of educational establishments.

Table B UK public sector employment: headcount, midyear 1986

Thousands

	Total		Male		Female					
	number employed	Total	Full-time	Part-time	Total	Full-time	Part-time			
Total public sector	6,534	3,295	3,160	135	3,239	1,771	1,468			
Public corporations	1,187	1,027	1,022	5	161	136	25			
NHS Trusts										
Other	1,187	1,027	1,022	5	161	136	25			
General government	5,347	2,268	2,138	130	3,078	1,635	1,443			
Central government	2,337	998	965	33	1,339	846	493			
HM Forces	322	306	306	0	16	16	0			
National Health Service	1,215	254	235	19	961	541	420			
Other	800	438	424	14	362	289	73			
Local authorities	3,010	1,270	1,173	97	1,739	789	950			
Education	1,452	406	344	62	1,046	442	604			
Other	1,558	864	829	35	693	347	346			

UK public sector employment: headcount, midyear 1996

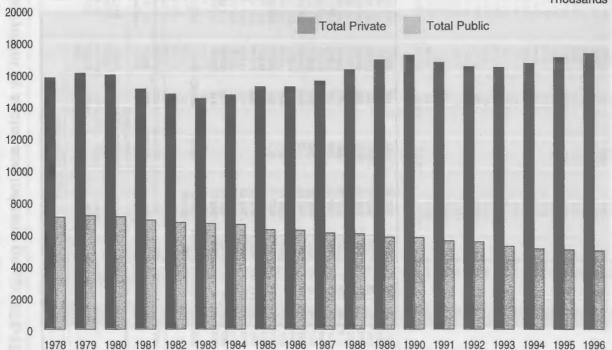
Thousands

	Total		Male		Female					
	number employed	Total	Full-time	Part-time	Total	Full-time	Part-time			
Total public sector	5,150	2,127	1,973	154	3,022	1,477	1,545			
Public corporations	1,512	572	518	54	939	457	482			
NHS Trusts	1,102	224	180	44	878	407	471			
Other	410	348	338	10	61	50	11			
General government	3,638	1,555	1,455	100	2,083	1,020	1,063			
Central government	987	580	577	3	407	328	79			
HM Forces	221	205	205	0	16	16	0			
National Health Service	90	31	30	1	59	45	14			
Other	676	347	345	2	329	264	65			
Local authorities	2,651	975	878	97	1,676	692	984			
Education	1,183	233	173	60	950	357	593			
Other	1,468	742	705	37	726	335	391			

¹ Excluding NHS Trusts shown in the public corporations sector.



Thousands



Despite the falls in public sector employment, between 1986 and 1996, the total workforce rose by 1.2 million (4.7 %), with the private sector rising by 2.6 million (14.4 %).

Analysis of Public Sector by Sex and Full-time/Part-time working (Table B)

In 1996, 41.3% of the public sector workforce were men, compared to 49.8% in 1986. Over the same period, the proportion of public sector employees working part-time rose from 25% to 33%. Of 1.7 million part-time workers in 1996, 154 thousand (9.1%) were men, compared with 135 thousand (8.4%) in 1986. The proportion of women working full-time rose from 36.2% of all full-time employees in 1986, to 42.8% in 1996.

Analysis by Industry Group (Table C and Chart 2)

Chart 2 shows the distribution of public sector employment by industry group. This is expanded further in table C which shows the split between the public and private sector for certain industries. Public sector is defined here as including central government (including HM Forces), local authorities and public corporations.

The education group has retained a fairly constant share of public sector employment: in 1996, 24.0% of public employees worked in this industry, compared with 23.4% in 1986. However, the public element within the education sector dropped substantially from 86.1% to 64.0% of total education employment between 1986 and 1996.

In 1996, 32.2% of all public sector employees (including HM Forces) worked in medical, health and other services provided to the general public, compared with 25.8% in 1986. The public sector share of total employment in these industries dropped from 74.5% to 58.0% in 1996.

In 1996, employment in public administration and national defence (excluding HM Forces) was 28.1% of total public sector employment; compared with 23.7% per cent in 1986. Total numbers have fallen by 90 thousand over the same period.

In 1996, total employment in industries covering production, transport and utilities decreased by 1.4 million (21%) to 6.3 million. Within this, the proportion of public sector employees fell from 17.7% to 6.0%, largely because of privatisations.

Availability of Other Data

Other employment data published by the ONS can be found in Labour Market Trends, ONS Blue Book United Kingdom National Accounts, the Monthly Digest and Annual Abstract of Statistics. Data underlying the figures for general government are produced quarterly and are available on request.

All enquiries relating to this article should be made to either Jacqui Safford or Duncan MacGregor at the Office for National Statistics, Employment Information Branch B, Room 249, East Lane House, East Lane, Runcorn, Cheshire, WA7 2DN. Telephone: 01928 79 2565 or 2560.

TABLE C
UK employment by sector and industry group 1978-1996: headcount, midyear

																			Ino	usands
SIC 199	2										Επ	nployees in Empl	oyment							
				/ork-related			Education	n	Se	edical Hea ervices pro e general p	vided to	Public administ national defend compulsory so security	ce &	Production, t & utilities	transport		Other			
	Workforce in EmploymentE	Self- Employed	НМ	overnment - supported training rogrammes	Employees in Employment	Total	Private	Public	Total	Private	Public	Public Total	Total	Private	Public	Total	Private	Public	Total Private Sector	Total Public Sector
_	CGYL	CGYM	CGYN	CGYO	01-99 CGYP	80 CGYQ	CGYR	CGYS	85 & 91 CGYT	CGYU	CGYV	75 CGYW	10 - 45 60 - 64 CGYX			- 05, 50 - 55 - 74, 90 & 92 CGZA	- 99 CGZB	CGZC	CGZD	CGZE
1978 1979 1980 1981 1983 1984 1985 1986 1987 1988 1990 1991 1992 1993 1994 1995	25,130 25,506 25,459 24,498 24,059 23,775 24,426 24,712 24,739 25,266 26,151 26,957 27,219 26,343 25,776 25,384 25,548 25,832	2,023 2,020 2,145 2,271 2,371 2,371 2,687 2,787 2,804 3,052 3,526 3,573 3,422 3,230 3,189 3,298 3,298 3,298	318 314 323 334 324 326 326 322 319 316 308 303 297 290 271 250	16 175 176 226 311 343 462 423 353 325 311 302 227	22,789 23,173 22,991 21,892 21,414 21,067 21,238 21,423 21,387 21,584 22,258 22,661 22,920 22,270 21,931 21,613 21,698 22,024	1,593 1,630 1,612 1,586 1,579 1,587 1,612 1,639 1,686 1,747 1,810 1,853 1,880 1,864 1,829 1,853 1,866	81 92 1111 132 146 154 182 210 234 262 307 410 450 452 456 628 671 670	1,512 1,539 1,501 1,454 1,434 1,434 1,430 1,429 1,452 1,486 1,504 1,444 1,431 1,416 1,390 1,201 1,182 1,193	1,771 1,831 1,892 1,938 1,972 2,001 2,055 2,149 2,222 2,315 2,461 2,447 2,462 2,519 2,606 2,644 2,661 2,698	316 334 370 380 392 362 462 549 618 703 827 808 823 865 1,039 1,080	1,455 1,497 1,522 1,558 1,638 1,593 1,600 1,602 1,612 1,637 1,639 1,639 1,637 1,641 1,605 1,584	1,646 1,642 1,596 1,525 1,525 1,523 1,507 1,479 1,473 1,492 1,477 1,401 1,442 1,462 1,464 1,464 1,464	10,185 10,209 9,921 9,054 8,582 8,179 8,030 7,703 7,605 7,698 7,746 7,649 7,104 6,366 6,363	6,740 6,370	2,265 2,267 2,224 2,041 1,928 1,827 1,733 1,424 1,360 1,114 1,039 952 909 734 686 640 585 445	7,594 7,861 7,970 7,756 7,755 7,777 8,034 8,224 8,303 8,424 8,812 9,213 9,488 9,317 9,284 9,294 9,380 9,656	7,427 7,669 7,748 7,516 7,524 7,568 7,723 7,913 7,978 8,089 8,466 8,869 9,158 9,014 8,973 8,992 9,125 9,284	167 191 222 240 231 209 311 311 325 336 346 344 329 303 311 302 255 372	15,745 16,037 15,926 15,041 14,716 14,436 14,664 15,181 15,174 15,546 16,259 16,882 17,171 16,718 16,440 16,405 16,654 17,026	7,045 7,136 7,065 6,852 6,698 6,631 6,574 6,243 6,212 6,040 5,778 5,750 5,552 5,208 5,044

Table D
UK public sector employment 1961-1996 by major categories:headcount and full time equivalents, midyear

Thousands

			Central g	overnment		Ge	eneral govern Lo	ment ocal authoriti	ies				Pu	blic corpora	ıtions			
Headcount	HM Forces CGYN	National Health Service FHBR	Other central government FHBS	Total central govern- ment FHBT	Education FHBU	Social sevices FHBV	Con- struction FHBW	Police (incl. civilians) FHBX	Other local author- ities FHBY	Local authorities community programme CUKE	Total local author- ities DYBG	Total general gover- ment FHCA	Nation- alised industries FHCB	NHS Trusts CGXN	Other public corporations	Total public corpora- tions DYBH	Total public sector FHCE	of which: Civil Service CGXU
1961 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	474 368 336 320 3319 332 335 323 318 314 324 322 326 326 326 322 319 316 308 309 271 250 230 221	575 785 821 848 911 1,042 1,099 1,120 1,152 1,174 1,207 1,227 1,223 1,223 1,215 1,212 1,228 1,226 1,221 1,098 920 522 205 97 90	741 813 813 815 884 923 936 932 926 921 896 878 849 835 810 811 800 781 778 778 781 776 783 801 792 758 731 676	1,790 1,966 1,970 1,983 2,114 2,297 2,363 2,354 2,364 2,387 2,419 2,400 2,384 2,359 2,360 2,337 2,312 2,322 2,315 2,300 2,178 2,011 1,585 1,213 1,058 987	785 1,297 1,365 1,436 1,453 1,508 1,521 1,506 1,512 1,539 1,501 1,454 1,434 1,434 1,430 1,429 1,452 1,486 1,504 1,444 1,431 1,416 1,390 1,201 1,182 1,193 1,183	170 276 295 315 272 309 319 322 334 346 350 352 360 368 376 387 398 405 411 417 414 410 398 408 408	103 124 128 130 135 164 165 155 155 156 152 143 132 130 126 125 125 125 128 125 119 114 106 97 90 87 83 79	108 152 159 162 160 171 175 170 176 181 186 186 187 187 188 191 194 195 199 202 204 207 207 207	703 803 824 848 762 765 776 766 761 782 776 768 773 774 770 763 764 771 806 809 797 783 768 761	27 58 67 88 96 89	1,869 2,652 2,771 2,891 2,782 2,917 2,956 2,921 2,932 2,997 2,956 2,899 2,865 2,906 2,942 2,958 3,010 3,062 3,081 2,940 2,947 2,898 2,679 2,652 2,656 2,651	3,659 4,618 4,741 4,874 4,896 5,214 5,319 5,275 5,296 5,384 5,349 5,318 5,265 5,301 5,318 5,265 5,301 5,318 5,255 5,290 6,318 5,255 5,290 6,318 5,255 5,290 6,318 5,255 5,319 5,255 5,319 5,275 5,319	2,152 1,856 1,769 1,731 1,777 1,816 1,752 1,866 1,844 1,849 1,816 1,657 1,554 1,465 1,410 1,131 1,058 864 791 720 676 498 459 437 385 366 335	124 309 628 1,000 1,085 1,102	48 153 160 159 208 219 228 223 217 216 202 210 202 198 120 129 121 112 110 102 106 93 82 76 75	2,200 2,009 1,929 1,890 1,985 2,035 1,980 2,089 2,061 2,065 2,038 1,867 1,756 1,663 1,599 1,251 1,187 985 912 832 786 724 874 1,158 1,467 1,527 1,512	5,859 6,627 6,670 6,764 6,881 7,249 7,357 7,449 7,387 7,185 7,021 6,953 6,900 6,569 6,534 6,315 6,087 6,087 6,087 5,783 5,783 5,422 5,332 5,241 5,150	672 727 702 706 705 723 760 755 745 738 714 698 671 654 630 608 610 599 593 586 579 576 592 579 573 532 534
Full-time equivalents 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	CGYN 327 318 314 323 334 324 322 326 322 319 316 308 303 297 290 271 250 230 221	CGXY 947 957 977 1001 1038 1047 1047 1036 1030 1018 1016 1017 1013 1008 904 750 424 158 69 76	CGXZ 866 885 897 872 853 827 812 787 788 776 756 751 763 765 766 783 772 733 710 641	CGYA 2140 2160 2188 2196 2225 2198 2181 2149 2144 2016 2091 2084 2076 1967 1823 1467 1141 1009 938	CULZ 1099 1105 1110 1087 1058 1041 1034 1027 1021 1029 1043 1046 992 990 982 970 840 818 806 800	CUMB 222 228 235 235 240 241 246 251 256 263 271 277 282 288 287 285 279 288 295 293	CGYB 152 150 146 136 136 131 130 126 125 128 125 128 125 19 114 105 97 90 86 82 79	CUMD 168 165 172 176 180 182 182 182 184 186 190 191 194 197 199 201 201 201 202	CGYC 683 675 701 699 692 681 686 689 675 677 674 681 692 720 706 695 678 663	23 45 52 76 72 67	CGYD 2324 2325 2368 2343 2306 2274 2301 2320 2325 2377 2379 2265 2278 2291 2257 2105 2078 2062 2037	CGYE 4464 4485 4556 4539 4531 4472 4482 4469 4468 4468 4468 4468 4468 4468 4354 4258 4080 3572 3219 3071 2975	CGYF 1835 1843 1818 1785 1656 1538 1444 1390 1118 1043 850 775 703 659 488 452 426 370 352 321	102 252 512 808 876 888	CUMP 223 217 216 222 206 198 197 188 118 127 119 119 110 108 100 104 89 79 74 69	CGYH 2058 2060 2034 2007 1862 1736 1641 1578 1236 1170 969 894 813 767 690 808 1027 1257 1302 1278	CGYI 6522 6545 6590 6546 6393 6208 6123 6047 5705 5638 5437 5357 5162 5121 4948 4888 4599 4476 4373 4253	CGYJ 740 731 724 700 684 659 643 619 596 597 567 559 558 567 551 529 512

¹The Appendix gives details of the definitions and coverage of sectors and success of the statistics and the many changes in them between 1981 and 1994 (except in the case of the Civil Service which is documented back to 1969).

documented back to 1969).

2 Details of transfers of public corporations to the private sector, including the numbers of employees involved, are given in Appendix.

³ Polytechnics were transferred to the private sector in April 1969.

⁴ Community Programme employees were transferred to the Employment Training Scheme during the third quarter of 1988

the third quarter of 1988.
5 FE colleges and 6th-form school employees were transferred to the private sector from April 1993.
6 Great Britain only.

Appendix: Definition of the Sectors

The United Kingdom national accounts divide the economy into institutional sectors so as to display the relationships between the different parts of the economy and the different forms of economic activity in a way which aggregate statistics cannot do. The sectors bring together those institutional units which are likely to play similar roles in economic activity and which may be expected to react in a broadly similar fashion to various market, fiscal and monetary forces.

The sectors used in this article are the same as in the national accounts. Full definitions of the sectors are given in "Sector Classification for the National Accounts" (a), and in "UnitedKingdom National Accounts: Sources and Methods" (b). They are explained more briefly below.

Some of the estimates for the latest year are provisional and are subject to minor changes as final information becomes available. The figures for NHS Trusts and grant-funded education establishments may be subject to more substantial revision because they are estimated from a variety of sources. The final figures will be based on a single consistent source of data.

General Government

Central Government

The central government sector can be regarded as embracing all bodies for whose activities a Minister of the Crown, or other responsible persons, is accountable to Parliament. Besides the various departments of the government of the United Kingdom and the Northern Ireland government (including HM Forces), it also includes a number of publicly constituted bodies, which, while not government bodies in the ordinary sense are financially dependant upon and effectively controlled in major matters by the government. Examples of the bodies administering public policy but without the substantial degree of financial independence which characterise the public corporations include:

- Regional and District Health Authorities of the National Health Service.
- National Research Councils.
- Royal Commissions.
- National Museums and Art Galleries.

Also included are certain productive or trading enterprises financed directly from the accounts of the central government, such as the Forestry Commission and Remploy Ltd. Consistent data for years since 1961 appears in the "Economic Trends Annual Supplement".

Civil Service

The Civil Service comprises the Home Civil Service and the Diplomatic Service (but not the Northern Ireland Civil Service nor the Overseas Civil Service) as well as those employed in the executive agencies. Apart from some public corporations (Royal Mint and HM Stationery Office) the Civil Service is included in "Other Central Government" along with the Northern Ireland Civil Service and a number of smaller bodies including Research Councils, Remploy Ltd, the British Council and the British Library. Further analysis of Civil Service manpower figures at 1st April 1996 can be found in the booklet "Civil Service Statistics 1996"(c).

Local authorities

This sector consist of all local government authorities which both have power to raise funds by means of rates, levies and council tax etc. and which are obliged to make annual returns of income and expenditure under successive local government acts. It includes all levels of administrative authorities (including parish councils) and also local authorities with special functions. It includes magistrates courts, the probation service in England and Wales and police forces and their civilian staffs. It embraces all functions of such authorities (including, for example, their education services and construction departments) and includes trading activities of local authorities, such as housing, theatres etc. Municipal bus companies (from 1986) and airport companies (from 1987) are regarded as public corporations. Grant- maintained schools are regarded as part of the private sector (from 1989). Polytechnics and HE colleges were transferred from local authority control from April 1989 as were FE and 6th-form colleges from April 1993. These are all now regarded as part of the private sector (nonprofit making bodies).

Public Corporations

Public Corporations are public trading bodies which have substantial degrees of financial independence from central government. They are publicly controlled to the extent that the Sovereign, Parliament or a Minister appoints, directly or indirectly, the whole or the majority of the board of management. They arefree, however, to change their affairs without detailed control by Parliament; in particular they have power to borrow, within limits laid by Parliament, and to maintain their own reserves. Some public corporations are currently designated as "nationalised industries" and are noted as such in the list below. Subsidiaries of public corporations are part of this sector if their accounts are consolidated with those of the parent corporation.

Some central government bodies like the Royal Mint and HMSO are included in this sector and not under central government.

From 1st April 1991 NHS Trust hospitals are also included in this sector.

Public Sector

This is defined as the sum of general government and the public corporations.

Private Sector

This covers employment in the corporate sector other than public corporations and in the personal sector (including unincorporated businesses and private non-profit making bodies serving persons). Bodies serving industry, supported by the government but not wholly dependent on government funds nor subject to detailed financial control, are treated as part of the company sector. Unincorporated businesses are those of sole traders and partnerships of individuals. All self-employed (whether or not they have any employees) including general practitioners are included in this sector as are private non- profit-making bodies. These include universities; polytechnics and higher education colleges in England(from 1st April 1989); grant-maintained schools from 1st September 1989, and from 1st April 1993, FE and 6th-form colleges.

CLASSIFICATION BY INDUSTRY

Industries are classified according to the "Standard Industrial Classification of Economic Activities 1992"

SOURCES OF THE STATISTICS

The figures for total workforce in employment and work related government training programmes, together with the industrial analyses of employees in employment and the self-employed are aggregated from those compiled by the Earnings and Employment Division (EED) of the Office for National Statistics and the Department of Economic Development, Northern Ireland.

The major sectors used in this article are those used for the national accounts. Details on the coverage of the sectors are given in Business Monitor MA23 Sector Classification for the National Accounts, with a complete version last published in March 1994 and the supplement published in February 1995.

Estimates of employment in central government are obtained from a number of sources. HM Forces and National Health Services figures are obtained from the EED within the Office for National Statistics. Other Central government consists largely of those employed in the Civil Service. These numbers are obtained from the Personnel Statistics Branch of the Cabinet Office. The remainder of central government employees are derived from the Cabinet Office Public Bodies publication.

Public corporations data are derived from two main sources. Large corporations, mostly consisting of nationalised industries such as British Rail and Nuclear Electric, are written to annually as part of the Public Corporations Employees in Employment inquiry. Figures for smaller corporations, such as the National Audit Office and London Docklands Development Corporation are derived from the annual accounts of the individual corporations.

Local Authorities data, until June 1994 was supplied by the Local Government Management Board through he Joint Staffing Watch surveys. This is now only available once a year, so data is derived from other sources. Police data are obtained from the Home Office, with Social Services, Construction and Other Local Authorities data available through the Local Government Management Board L42 surveys. Education figures are supplied by the EED within the Office for National Statistics.

FULL-TIME EQUIVALENT EMPLOYMENT

To provide a more appropriate measure of manpower inputs, many of the institutions in the public sector count their part-time workers in terms of full -time equivalents. This analysis appears in table D. Measuring full-time equivalents is a somewhat imprecise process, with each institution having its own convention for making the calculation. The most detailed calculation is made for the National Health Service, where a full-time equivalent is recorded for each individual. This is based on the employee's contracted hours and the standard hours for the grade. For example, if an individual contracts to work for 36 hours a week when the Standard full-time equivalent is 40 hours, the individual's full-time equivalent is 0.9. This system, however, does not take account of the overtime or short time worked in particular periods, and no employee should have a full-time equivalent of more than 1. Consequently, any change in the length of the standard working week affects the number of full-time equivalents, even if the number of part-time hours is unchanged. Full-time equivalent figures for the National Health Service for years before 1983 relate to 30 September each year; since 1983, they are largely based on 30 June data.

The full-time equivalents for local authorities are derived by applying factors to the numbers of part-time workers in three groups based on average hours worked in each group nationally.

The groups and factors for England and Wales are:

Non-manual Employees

Further education 0.11
Other 0.53
Manual workers 0.41

In other parts of the public sector, part-timers have been taken as half-units.

MAJOR SECTOR CHANGES; 1983 TO 1996

Definitions, Coverage and Consistency of Statistics

Central Government

The Victoria & Albert and Science museums were accorded trustee status on 1 April 1984, reducing civil service numbers by some 1100.

The Directorate of Historic Monuments and Ancient Buildings was transferred from the Department of the Environment to a new commission outside the civil service manpower count on 1 April 1984, involving around 1100 employees.

On 2 January 1985, Royal Ordnance Factories became a Companies ACt company, reducing civil service numbers by approximately 19000.

United Kingdom Atomic Energy Authority was reclassified as a public corporation from 1 April 1986.

The Devonport and Rosyth dockyards were contractorised on 6 April 1987, reducing civil service manpower by around 16,500.

National Rivers Authority, set up on 10 July 1989, increased central government employment at mid 1990 by 6600.

3,300 staff in the Department of Health Special Hospitals were excluded from early 1990.

National Health Service Trusts were classified to the public corporation sector as from their establishment on 1 April 1991

The Projects Division of Property Services Agency (Services) was sold to Tarmac in December 1992 and about 3,400 staff are excluded from that date.

On 1 April 1993 commercial management was introduced at the Ministry of Defence Atomic Weapons Research Establishment (AWRE), about 6,300 staff excluded from that date.

The sale of Building Management businesses of PSA during 1993-94 resulted in 2,370 staff being transferred to the private sector.

During July 1994 some 1,000 Inland Revenue IT staff were transferred to EDS, a private sector company

On 1 April 1995 the Meat Hygiene Service Executive was formed with about 800 staff transferring from Local Authorities.

During January 1996 a further 800 Inland Revenue IT staff were transferred to EDS, a private sector company.

On 1 April 1996 about 900 Regional Health Authority staff were transferred to the Department of Health.

Local Authorities

Polytechnics and higher education institutions in England were transferred from the local authority sector in April 1989, reducing the numbers by 60,000 (3,900 FTE).

Schools opting-out of local authority control (ie grant maintained schools) are classified to the private sector (non-profit making bodies). Opting -out began in September 1989. There were approximately 10,000 and 23,000 teachers (on a full-time equivalent basis) at mid-1992 and mid-1993 respectively, in grant maintained schools.

Both further education (FE) and 6th form college funding transferred from local authority control on 1 April 1993. This involved approximately 119,000 academic and non-academic staff (on a full-time equivalent basis) being transferred to the private sector at mid-1993.

Public Corporations

The public corporations in existence during the whole or part of the period covered by this article are listed below.

A. Corporations in existence at 31 December 1995

NAME OF CORPORATION	COMMENCING OR VESTING DATE
Angle Train Contracts Ltd	August 1995
Audit Commission	April 1983
British Broadcasting Corporation	1927
British Coal Corporation (1,2)	January 1947
British Nuclear Fuels plc	April 1971
British Railways Board (1,2)	January 1963
British Waterways Board (1,2)	January 1963
Caledonian MacBrayne Ltd (1,2)	April 1990

Channel 4 Television Company Ltd (5) Civil Aviation Authority (1) December 19 April 19	•
Commonwealth Development Corporation February 19	
Covent Garden Market Authority October 19	61 Nuclear Electric plc was part of the former Central Electricity
Crown Agents and Crown Agents Holding	Generating Board
and Realisation Board January 19	80
Development Board for Rural Wales (2) April 19	77 Scottish Special Housing Association became Scottish Homes
European Passenger Services Ltd (1,2) May 19	94 from 1 April 1989
Evershott Leasing Ltd August 19	95
Her Majesty's Stationery Office April 19	80 Caledonian MacBrayne Ltd was formerly part of the Scottish
Highlands and Islands Airports April 19	95 Transport Group
Highlands and Islands Enterprise (2) November 19	65
Housing Action Trusts July 1991 to July 19	94 Highlands and Islands Development Board became Highlands and
Land Authority for Wales April 19	176 Islands Enterprise from 1 April 1991.
Langanside Corporation April 19	89
Local Authority Airport Companies (4) April 19	87 Scottish Nuclear plc was part of the fomer South of Scotland
Local Authority Bus Companies (4) October 19	86 Electricity Board
London Regional Transport (1,2) January 19	70
National Health Service Trusts From April 19	91 European Passenger Service Ltd was formerly part of the British
New Town Development Corporations	Railways Board
and Commission From December 19	46
Northern Ireland Housing Executive (2) May 19	Railtrack plc was formerly part of the Bristish Railways Board
Northern Ireland Transport Holding Company (2) April 19	168
Nuclear Electric plc (1,2) April 19	
Oil and Pipelines Agency (2) December 1	
Passenger Transport Executives From October 1	·
Porterbrook Leasing August 1	
Post Office (1) April 1	
Royal Mint April 1	
Scottish Enterprise (2) December 1	
(-)	37
Scottish Nuclear plc (1,2) April 1	
Trust Ports (Northern Ireland) (4) April 1	
Union Railways April 1	•
United Kingdom Atomic Energy Authority (5) April 1	
United Kingdom Atomic Energy Authority April 1	
Urban Development Corporations	Britoil (1) (14,000) October 1982
From March 1981 - June 1	
Urban Regeneration Agency November 1	
Welsh Development Agency January 1	
Welsh Fourth Channel Authority January 1	· · · · · · · · · · · · · · · · · · ·
D. Comparations assessed by other cornerations 1002 (
B. Corporations succeeded by other corporations 1983-9	British Telecom plc (1) (250,000) November 1984
London Transport Executive was renamed London Regio	
Transport from 29 June 1984	and other companies From July 1984
nansport nom 25 ounc 1504	British Gas plc (1) (89,000) December 1986
British National Oil Corporation was dissolved on 27 March 19	
and its functions transferred to the Oil and Pipelines Agency	Royal Ordnance plc (17,000) April 1987
and to fundions handlened to the on and imponition Agenty	Tight of a liamon play (17,000)

BAA plc (1) (7,200)		July 19	87
National Bus Company subsid	diaries (1)		
Various dates	between Ju	uly 1986 and April 19	88
British Steel plc (1) (53,000)		December 19	88
27 local authority bus compar	nies	From September 19	88
General Practice Finance Cor	poration	March 19	89
Regional Water Authorities (1)) and		
Water Authorities Association	(40,000)	December 19	989
Scottish Transport Group subs	sidiaries	From August 19	990
Liverpool Airport		June 19	90
Girobank (6,700)		July 19	990
Regional Electricity Boards ar	nd		
National Grid company (119,0	000)	December 19	990
National Power and Powerger	n (26,400)	March 19	91
Scottish Hydroelectric (former	rly part of		
the North of Scotland Electric	ityBoard) (3	3,500) June 19	91
Scottish Power (formerly part	of the Sout	h	
of Scotland Electricity Board)	(9,800)	June 19	991
British Technology Group		April 19	992
Northern Ireland Electricity Se	ervice (5,00	0) June 19	993
East Midlands International A	irport	August 19	993
British Coal coal mines		December 19	994
London Regional Transport -			
10 subsidiary companies		During 19	994
Bournemouth Airport		April 19	95
Cardiff Wales Airport		April 19	995

D. Corporations dissolved and not succeeded:

National Film Finance Corporation abolished in December 1985, and replaced in the private sector by the British Screen Finance Consortium.

National Oil Corporation, in March 1986, being replaced by the Oil and Pipelines Agency.

National Dock Labour Board in July 1989

Electricity Council in March 1990, being replaced in the private sector by the Electricity Association.

Crown Suppliers (3) in March 1991 Pilotage Commission in April 1991

Six Local Authority Bus Companies from April 1989 to November 1994

E. Other changes

The Housing Corporation is reclassified as a central government trading body from 1974.

The Independent Broadcasting Authority became the Independent Television Commission from 1 January 1991. The Independent Television Commission (other than Channel 4) was reclassified to the Central Government sector from October 1991. The Urban Regeneration Agency was established from November 1993, and incorporated the former English Industrial Estates Corporation from April 1994, trading as English Partnership. Letchworth Garden City Corporation became Letchworth Garden City Heritage Foundation, a private charity from October 1995.

For statistical purposes, the Bank of England Banking Department has been reclassified from the 1993 Blue Book to the financial sector. Data have revised back to 1984. This also applies to Girobank, until its privatisation in July 1990.

From the 1993 Blue Book the fossil fuel level on electricity distribution is now separately identified as a capital grant within the public corporation accounts. Until this Blue Book income generated was included in gross trading surplus.

Footnotes:

- (1) Nationalised Industry
- (2) Corporations which succeeded corporations existing previously
- (3) Prior to January 1984 known as Property Services Agency (Supplies)
- (4) Functions of these bodies were previously included in the local authority sector
- (5) Functions of these bodies were previously included in the central government sector

Availability of Quarterly Data

Quarterly data underlying the figures for general government are available on request from Jacqui Safford or Duncan MacGregor, Employment Information Branch B, Office for National Statistics, Room 249, East Lane House, East Lane, Runcorn, WA7 2DN. Telephone: 01928 79 2560 or 2565.

References:

- a "Sector Classification for the National Accounts No 9" published by HMSO Books (March 1994) (PC 13a/1), Publications Centre, PO Box 276, London SW8 5DT. Price £13.00. A 1995 supplement is also available.
- b "United Kingdom National Accounts: Sources and Methods" (HMSO 1985, price £24.95 net).
- c "Civil Service Statistics 1996" published by Cabinet Office on 1 November 1996 on the Internet (http;//www.open.gov.uk/co/ cseg/pmcsd/css96,cover96.htm), hard copies are available from Personnel Statistics Branch, Cabinet Office, Horse Guards Road, London SW1P 3AL (free publication).

The effects of taxes and benefits upon household income, 1995-96

This article examines how the distribution of income amongst households in the UK is modified by government expenditure and taxation. The main findings are:

- The income share of the bottom fifth of households is increased from 2.6% of original income to 6.9% of post-tax income by taxes and benefits.
- The average original income of the top fifth of households is 17 times the average of the bottom fifth, the average final income of the top fifth of households is 3.5 times the average of the bottom fifth.
- Cash benefits make up two thirds of the gross income of the bottom fifth of households.
- The top fifth of non-retired households pay 18.8% of their gross income in income tax compared with 11.9% for the rest of non-retired households.
- The state retirement pension accounts for 72% of the cash benefits received by retired households.
- The distribution of original income is more equal among non-retired households than retired. But the distribution of post-tax income is more equal among the retired than the non-retired.

Part 1

Introduction

During 1995-96, the government raised and spent £303 billion. Directly or indirectly most of this revenue was raised from households and the expenditure benefited households. This article examines the impact of government taxation and expenditure on the distribution of income by allocating the revenue to those households which paid the taxes and the expenditure to those households which benefited from it, wherever this is possible. Some outlays and revenue of government cannot readily be allocated to households, for example there is no clear conceptual basis for determining the benefit to each household of expenditure on defence. However, about 59 per cent of government revenue and 55 per cent of government spending can be allocated to households (see Table 1, Appendix 1). One of the consequences of this redistribution is to reduce the differences in income amongst households.

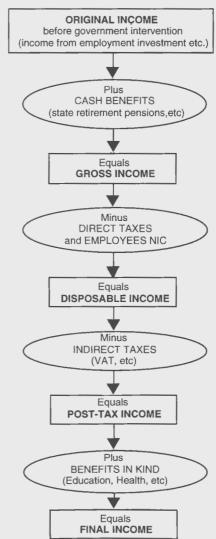
The stages of redistribution of income used in this analysis are shown in Chart 1. Household members receive income from their employment; from occupational pensions; from their investments and from other non-government sources. Total income from these sources constitutes original income. The flow chart shows the various ways in which government then raises revenue through taxation on households and distributes benefits to them both in cash and in kind.

The main data source for this analysis is the Family Expenditure Survey (FES) which covers about 7,000 households each year. People living in hotels, lodging houses and in institutions such as old peoples' homes are excluded. The unit of analysis is the household rather than the individual. Being a sample survey its results are subject to the usual sampling errors - these errors are larger for the household groups with smaller sample numbers (see Appendix 3).

The article aims to present the most meaningful figures for 1995-96. The figures cannot be easily compared with earlier articles in this series because the tax-benefit system and the FES change over time.

CHART 1

Stages of redistribution



Summary of the effects of taxes and benefits by quintile groups of unadjusted disposable income, 1995-96

TABLE A

	•	ps of household ED disposable in	•			
	Bottom	2nd	3rd	4th	Тор	All households
Average per household (£ per year) ¹						
Original income	1 590	4 870	12 780	22 310	44 470	17 200
plus cash benefits	4 200	5 020	3 410	2 090	1 530	3 250
Gross income	5 790	9 890	16 190	24 400	45 990	20 450
less direct taxes ² and employees' NIC	980	1 310	2 930	5 120	11 100	4 290
Disposable income	4 810	8 580	13 260	19 280	34 890	16 170
less indirect taxes	1 380	2 150	3 180	4 170	5 850	3 350
Post-tax income	3 430	6 430	10 080	15 110	29 040	12 820
plus benefits in kind	2 220	3 070	3 200	3 370	3 630	3 100
Final income	5 650	9 510	13 280	18 490	32 670	15 920
Average per household (number)						
Children ³	0.2	0.6	0.7	0.8	0.8	0.6
Adults	1.2	1.6	1.9	2.1	2.3	1.8
Persons	1.4	2.2	2.6	2.9	3.2	2.4
People in full-time education	0.2	0.5	0.6	0.7	0.8	0.5
Economically active people	0.3	0.6	1.1	1.6	2.1	1.1
Retired people	0.7	0.7	0.4	0.2	0.1	0.4
Composition (Percentages)						
Household type						
Retired	58	41	19	8	5	26
Non-retired						
1 adult	21	16	16	8	3	13
2 adults	5	13	25	29	29	20
1 adult with children4	11	13	5	2	0	6
2 adults with children	4	14	27	37	37	24
3 or more adults ⁵	1	2	7	16	27	10
Total	100	100	100	100	100	100

¹ The monetary values in the tables in the main body of the article are rounded to the nearest £10.

RESULTS FOR ALL HOUSEHOLDS

Results for households ranked by unadjusted disposable income

When households are ranked by disposable income as in Table A, there is a strong relationship between a household's position in the income distribution and its size: the average number of persons per household is 3.2 for the highest quintile group and 1.4 for the lowest quintile group (the lowest quintile group contains the 20 per cent of households with the lowest disposable income). The bottom quintile group has a high proportion of retired households - defined as households where at least half the total gross income comes from retired people. In contrast, households with 3 or more adults are over-represented in the top quintile group. Further details of the distribution ranked by unadjusted disposable income are shown in Table 8. Appendix 1.

Adjustment for household composition

Using income per household to compare the welfare among households does not allow for differences in their composition and thus the differing demands on resources. One way to take such differences into account is to use income per capita but such a measure does not allow for the differing needs of children relative to adults or for economies of scale within households. This analysis therefore uses equivalence scales designed to take into account household size, family composition and age of children. The remainder of this article refers to households ranked by equivalence value of the household). Chart 2 shows how the use of the equivalence scale results in larger households moving down the income distribution and smaller ones moving up. Fuller details of the derivation of the equivalence scale are given in Appendix 3.

² These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and gross Council tax/Domestic rates and Water charges but after deducting discounts and Council tax transitional relief.

³ Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving non-advanced further education.

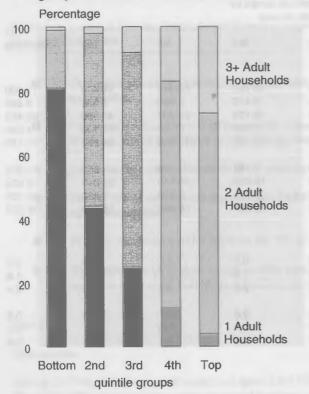
⁴ This group is smaller than the category of "one parent families" because some of these families will be contained in the larger household types.

⁵ With or without children.

CHART 2

The effect of EQUIVALISATION

Composition of households by quintile groups of UNADJUSTED disposable income.



Equivalised income is used only to rank the households. Most monetary values shown in the article are unequivalised. Where equivalised amounts are given, they are shown in *italics*.

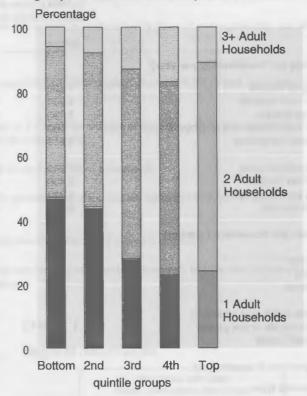
Results for households ranked by equivalised disposable income

The level of original income varies widely between households. Table B shows this and other income measures for quintile groups ranked by equivalised disposable income. In the lowest quintile group the average number of economically active people is 0.5 and the chief economic supporter is a full-time employee or self-employed in 13 per cent of the households (Appendix 1, Table 2b). Hence the average original income is low (£2,430 per annum). In the highest quintile group, there are an average of 1.6 economically active people and the chief economic supporter is in full-time employment or self employed in 82 per cent of the households. The average original income is £41,260 for this group.

Chart 3 illustrates the declining importance of cash benefits in gross income as income rises.

Chart 4 shows the average taxes paid and the average benefits received by household in each quintile group. This redistribution of income through the tax-benefit system reduces the dispersion of incomes, so that the average final income for each quintile group ranges from £8,230 to £29,200, a ratio of about 1:3.5 compared with the ratio for original incomes of about 1:17.

Composition of households by quintile groups of EQUIVALISED disposable income.



An alternative way to illustrate the extent of income redistribution is to examine how income shares are modified by the tax-benefit system (Table C). For example, households in the highest quintile group (when ranked by equivalised disposable income) receive 50 per cent of all original income. After taking into account cash benefits, this same group's share falls to 43 per cent. At the other end of the scale, the share of the lowest quintile group rises from 2.6 per cent to 7.4 per cent. A further, but comparatively smaller, compression of the income distribution occurs at the stage of disposable income, but this is reversed after indirect taxes are taken into account.

The Gini coefficient is the most widely used summary measure of the inequality of the distribution of income (see Appendix 3, paragraph 41). It takes values between 0 and 100 per cent - the higher values indicating greater inequality. The fall in the Gini coefficient from 52 per cent for original income to 36 per cent for gross income (see Table C) shows that cash benefits contribute the most to the reduction in income inequality.

The majority of retired households are in the lower ranges of the distribution of original income: about 42 per cent of the households in the bottom two quintile groups are retired (Table B). The income pattern of the retired is very different from that of households whose head is of working age; for example they receive a higher proportion of their income from contributory benefits, particularly the retirement pension. Their expenditure pattern (which is reflected in their indirect tax payments) is also different. For these reasons, in the detailed examination of each stage of the tax-benefit system which follows, retired and non-retired households are analysed separately.

Summary of the effects of taxes and benefits by quintile groups of equivalised disposable income, 1995-96

TABLE B

		ips of household ED disposable in				
	Bottom	2nd	3rd	4th	Тор	All households
Average per household (£ per year) ¹						
Original income	2 430	6 090	13 790	22 450	41 260	17 200
plus cash benefits	4 910	4 660	3 360	2 130	1 190	3 250
Gross income	7 340	10 750	17 150	24 580	42 450	20 450
less direct taxes ² and employees' NIC	1 130	1 520	3 130	5 180	10 470	4 290
Disposable income	6 210	9 230	14 020	19 400	31 980	16 170
less indirect taxes	1 930	2 340	3 290	4 090	5 090	3 350
Post-tax income	4 280	6 890	10 730	15 310	26 890	12 820
plus benefits in kind	3 950	3 310	3 260	2 670	2 310	3 100
Final income	8 230	10 200	13 990	17 980	29 200	15 920
Equivalised disposable income	5 945	9 130	12 473	17 234	30 385	15 030
Average per household (number)						
Children ³	0.9	0.6	0.7	0.6	0.4	0.6
Adults	1.6	1.7	1.9	2.0	1.9	1.8
Persons	2.5	2.2	2.6	2.5	2.3	2.4
People in full-time education	0.8	0.5	0.6	0.5	0.4	0.5
Economically active people	0.5	0.7	1.2	1.6	1.6	1.1
Retired people	0.6	0.7	0.4	0.3	0.2	0.4
Composition (Percentages)						
Household type						
Retired	38	45	24	14	9	26
Non-retired						
1 adult	11	9	11	14	20	13
2 adults	9	11	18	26	37	20
1 adult with children⁴	16	8	4	2	1	6
2 adults with children	21	19	29	27	23	24
3 or more adults⁵	5	7	13	16	11	10
Total	100 .	100	100	100	100	100

¹ All the tables in Part 1 of this article show unequivalised income:equivalised income has only been used in the ranking process to produce the quintile groups (and to produce the percentage shares and Gini coefficients).

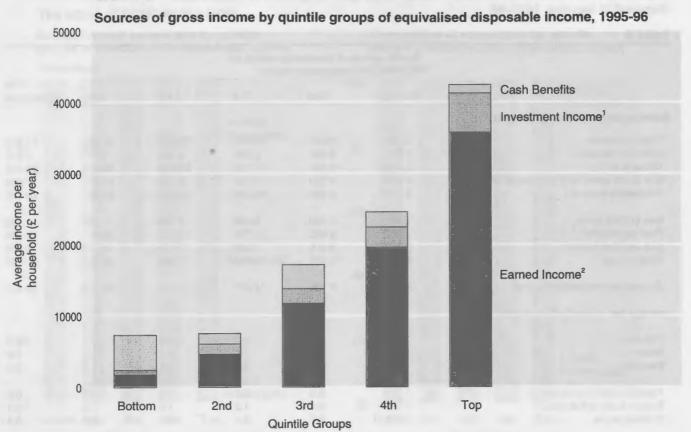
² These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and Gross Council tax / domestic rates and Water charges but after deducting discounts and Council tax transitional relief.

³ Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving non-advanced further education.

⁴ This group is smaller than the category of "one parent families" because some of these families will be contained in the larger household types.

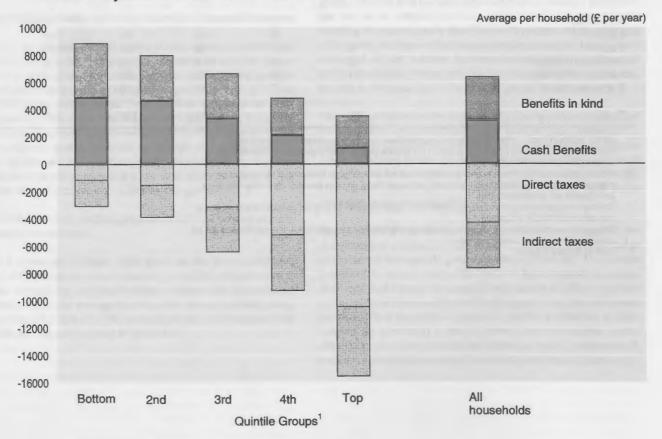
⁵ With or without children.

CHART 3



- Investment income includes occupational pensions and annuities.
 Earned income includes wages and salaries, income from self-employment and income from "fringe benefits".

CHART 4 Summary of the effects of taxes and benefits on ALL households, 1995-96



^{1.} Households are ranked by their equivalised disposable income.

Percentage shares of total household income and Gini coefficients¹, 1995-96

TABLE C

Percentage shares of total equivalised income for households ranked by equivalised disposable income

	equivalised disposable income							
	Original income	Gross income	Disposable income	Post-tax income				
Quintile group								
Bottom	2.6	7.4	7.9	6.9				
2nd	7	11	12	12				
3rd	15	16	17	16				
4th	25	23	23	23				
Тор	50	43	40	43				
All households	100	100	100	100				
Decile group								
Bottom	1.1	3.2	3.2	2.5				
Тор	32	27	25	27				
Gini coefficient								
(percent)	52	36	33	37				

¹ This is a measure of the dispersion of each definition of income. Unlike the percentage share analysis where household incomes are ranked only once, the Gini coefficient calculation needs a separate ranking for each definition. For example, the coefficient for original income is produced by first equivalising the original income of all the households, then this distribution is ranked and this ranked distribution is used to calculate the coefficient.

RESULTS FOR NON-RETIRED HOUSEHOLDS

Original income

The distribution of original income among non-retired households is more equal than among all households, ranging from an average of £3,780 per annum in the lowest quintile group to £45,460 in the highest (Table D), a ratio of 1:12 compared to the ratio of 1:17 for the distribution over all households. There is a relatively strong relationship between the original income of a household and the number of economically active people it contains. On average, 76 per cent of the members of households in the top quintile group are economically active, compared with 28 per cent of the members of households in the bottom quintile group.

Chart 5 summarises the effects of the tax-benefit system on nonretired households in different quintile groups.

Cash benefits

Cash benefits are of two types: contributory (paid from the National Insurance Fund to which individuals and their employers make contributions while working), and non-contributory (Table E). For non-retired households, non-contributory benefits form the most important source of cash benefit income. Child benefit payments are higher at the lower end of the income distribution, in proportion to the number of children per household (Table D). The other noncontributory benefits, in particular Income Support and housing benefits, are mainly income related, and so payments are concentrated in the lowest quintile group, although the presence of some individuals with low incomes in high income households means that some payments are recorded further up the income distribution. Contributory benefits, for which the individual's contribution record rather than income is the criterion for payment, are highest for the second quintile group. Cash benefits formed 57 per cent of the gross income of households in the bottom quintile group on average and 11 per cent of the gross income for all non-retired households: their payment resulted in a significant reduction in income inequality.

Summary of the effects of taxes and benefits on NON-RETIRED households, 1995-96

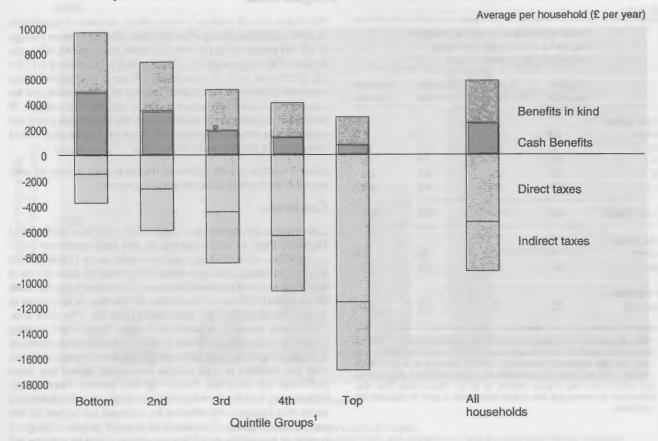
TABLE D

	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					All non- retired
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per household (£ per year)						
Original income	3 780	11 680	19 630	26 710	45 460	21 450
plus cash benefits	4 960	3 500	1 940	1 400	800	2 520
Gross income	8 740	15 180	21 570	28 110	46 260	23 970
less direct taxes¹ & employees' NIC	1 450	2 630	4 450	6 330	11 560	5 280
Disposable income	7 290	12 550	17 120	21 780	34 710	18 690
less indirect taxes	2 290	3 270	4 010	4 370	5 380	3 860
Post-tax income	5 000	9 280	13 110	17 410	29 330	14 820
plus benefits in kind	4 710	3 820	3 200	2 690	2 170	3 320
Final income	9 710	13 090	16 310	20 090	31 500	18 140
Equivalised disposable income	6 106	10 344	14 134	18 995	32 590	16 434
Average per household (number)						
Children ²	1.4	1.0	0.8	0.6	0.4	0.9
Adults	1.7	1.9	2.0	2.0	1.9	1.9
Persons	3.1	2.9	2.9	2.6	2.3	2.8
People in full-time education	1.2	0.9	0.7	0.5	0.4	0.7
Economically active people	0.9	1.4	1.7	1.8	1.8	1.5
Retired people	0.1	0.1	0.1	0.1	0.0	0.1

¹ These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and Gross Council tax/domestic rates and Water charges but after deducting discounts and Council tax transitional relief.

² Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving non-advanced further education.

Summary of the effects of taxes and benefits on NON-RETIRED households, 1995-96



^{1.} Households are ranked throughout by their equivalised disposable income.

Average value of cash benefits for each quintile group of NON-RETIRED households, 1995-96

TA	LE	Ε
	 	_

	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					All non- retired
Total Total	Bottom	2nd	3rd	4th	Тор	house- hotds
Average per househo	ld (£ pe	r year)				
Contributory						
Retirement pension	100	400	340	310	220	270
Incapacity benefit	390	430	280	270	90	290
Unemployment benefit	70	50	40	20	20	40
Other	60	80	60	100	90	80
Total contributory	620	960	730	710	420	690
Non-contributory						
Income support	1850	690	220	80	40	570
Child benefit	710	510	420	310	220	430
Housing benefits	1290	620	170	40	10	430
Sickness/disablement						
related	140	420	280	160	70	210
Other	360	310	130	100	40	190
Total non-contributory	4 340	2 540	1 220	680	390	1 830
Total cash benefits	4 960	3 500	1 940	1 400	800	2 520
Cash benefits as a percentage						
of gross income	57	23	9	5	2	11

Income tax, employees' NIC and Local taxes² as percentages of gross income for each quintile group of NON-RETIRED households, 1995-96

TABLE F

	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					All non- retired
	Bottom	2nd	3rd	4th	Тор	house- holds
Percentages						
Income tax1	7.8	9.0	12.2	14.6	18.8	14.6
Employees' NIC	2.0	4.3	5.3	5.4	4.4	4.6
Local taxes ²	6.7	4.1	3.2	2.5	1.8	2.9
Total	16.5	17.4	20.6	22.5	25.0	22.0

After tax relief at source on mortgage interest and life assurance premiums.
 Gross Council tax, Domestic rates and Water charges but after deducting discounts and Council tax transitional relief.

Income tax, NI contributions and local taxes

Both income tax payments and employees' National Insurance contributions are closely related to the size of original income. The payments by households of employees' National Insurance contributions in particular vary with the number of persons in employment and with their earnings. However, since National Insurance contributions are only levied on the first £440 of weekly earnings during 1995-96, households in the top quintile group pay rather less in contributions as a percentage of gross income than the 3rd and 4th quintile groups of households (Table F).

Indirect taxes as a percentage of (a) disposable income and (b) expenditure on goods and services for each quintile group of NON-RETIRED households, 1995-96

TABLE G

		Quintile groups of NON-RETIRED households ranked by equivalised disposable income				
	Bottom	2nd	3rd	4th	Тор	house- holds
(a) Percentages of disposable income						
VAT	11.1	9.8	9.3	8.1	6.8	8.3
Duty on beer and cider	0.8	1.0	8.0	0.8	0.5	0.7
Duty on wines and spirits	0.6	0.6	0.7	0.7	0.5	0.6
Duty on tobacco	5.2	3.5	2.2	1.5	0.6	1.9
Duty on hydrocarbon oils	2.7	2.4	2.4	2.0	1.4	1.9
Vehicle excise duty	0.8	0.8	0.8	0.7	0.4	0.6
Other taxes on final goods and services	3.3	2.5	2.2	1.8	1.2	1.8
Intermediate taxes	6.9	5.5	5.1	4.6	4.0	4.8
Total indirect taxes	31.4	26.1	23.4	20.1	15.5	20.7
(b) Percentages of expenditure on goods a	nd services1					
VAT	8.2	8.8	8.8	8.6	8.6	8.6
Duty on beer and cider	0.6	0.9	0.8	0.8	0.6	0.7
Duty on wines and spirits	0.5	0.6	0.7	0.7	0.7	0.6
Duty on tobacco	3.9	3.1	2.0	1.6	0.8	1.9
Duty on hydrocarbon oils	2.0	2.2	2.3	2.1	1.7	2.0
Vehicle excise duty	0.6	0.7	0.8	0.7	0.6	0.7
Other taxes on final goods and services	2.4	2.2	2.1	1.9	1.5	1.9
Intermediate taxes	5.1	5.0	4.9	4.9	5.0	5.0
Total indirect taxes	23.3	23.4	22.3	21.3	19.5	21.5

¹ See paragraph 29 of Appendix 3 for the definition of expenditure.

Average value of benefits in kind for each quintile group of NON-RETIRED households, 1995-96

TABLE H

h	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					All non- retired
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per househ (£ per year)	old					
Education National health servic Housing subsidy' Travel subsidies School meals and	2 830 e 1 570 110 50	2 160 1 520 60 60	1 650 1 470 30 50	1 240 1 360 1 20 70	770 1 240 0 150	1 730 1 430 40 80
welfare milk	150	30	10	0	0	40
Total	4 710	3 820	3 200	2 690 2	2 170	3 320
Benefits in kind as a percentage of post-ta income	x 94	41	24	15	7	22

Does not include tax relief at source on mortgage payments. These are taken into account in the income tax payments shown in Table F.

Income tax was, on average, 7.8 per cent of gross income in the lowest quintile, rising steadily to 18.8 per cent in the top quintile. As the quintile groups are based on equivalised disposable income, i.e. after direct tax, even the lowest quintile contains individuals who are liable for income tax.

Council tax in Great Britain and domestic rates in Northern Ireland are included here with income tax and NICs in line with the treatment of council tax in the National Accounts. Rebates on these local taxes are included as part of housing benefits in Table E. Table F overstates the regressive impact of local taxation at the lower end of the income distribution, since low income households are likely to be receiving these rebates.

Indirect taxes

Households' payments of indirect taxes are estimated from their expenditure recorded in the FES. Because the data on expenditure and incomes in the FES are compiled in different ways, they are not fully compatible (see Appendix 3, paragraph 5). Indeed, measured expenditure substantially exceeds measured income in the bottom decile group of households.

In total, indirect taxes expressed as a proportion of disposable income fall as disposable income rises (upper part of Table G), though the highest quintile pay most in indirect taxes in cash terms. The impact of indirect taxes declines for the top quintile groups partly because higher income households channel an increased proportion of their disposable income into savings, investments and mortgage payments.

Percentage shares of total household income and Gini coefficients¹ for NON-RETIRED households, 1995-96

TABLE J

	Percentage shares of total equivalised income for NON-RETIRED households ranked by equivalised disposable income					
	Original income	Gross I	Disposable income	Post-tax income		
Quintile group						
Bottom	3.0	6.9	7.4	6.4		
2nd	10	12	13	12		
3rd	17	17	17	17		
4th	25	23	23	23		
Тор	45	41	40	42		
All non-retired						
households	100	100	100	100		
Decile group				0.0		
Bottom	1.1	2.9	2.9	2.2		
Тор	. 28	25	24	26		
Gini coefficient	4.4	05	00	07		
(percent)	44	35	32	37		

¹ This is a measure of the dispersion of each definition of income. Unlike the percentage shares analysis where the household incomes are ranked only once, the Gini coefficient calculation needs a separate ranking for each income definition. For example, the coefficient for original income is produced by first equivalising the original income of all the households, then this distribution is ranked and this ranked distribution is used to calculate the coefficient.

Because of the imbalance between measured income and expenditure already mentioned, Table G also shows estimates of indirect tax payments expressed as a percentage of *expenditure* on goods and services (in the lower part of the table). When assessed in this way, indirect taxes, with the exception of tobacco duty, rise broadly in line with expenditure.

Benefits in kind

The Government provides certain goods and services to households either free at the time of use or at subsidised prices. These benefits in kind are allocated to individual households in order to arrive at final income. The imputed value of these benefits is based on estimated costs of providing them. The largest two items for which such imputations are made are health and education services, the allocated part of which together accounted for 24.1 per cent of total general government expenditure in 1995. Other items for which imputations are made are school meals and welfare milk, the housing subsidy and travel subsidies, together accounting for a further 1.2 per cent of general government expenditure.

Education benefit is attributed to households according to the members' usage of state education (see Appendix 3, paragraph 31). The bottom quintile group contains the highest number of children in full time education: it contains nearly five times as many children in state schools as the highest quintile group (see Table 3b, Appendix 1). This is the main reason for this quintile group being allocated the highest average imputed benefit (Table H). In addition, the majority of student-only households, for whom the costs of education are greatest, are in this quintile group. Similarly the impact of expenditure on school meals and welfare milk is greatest in the lower income groups where children are more likely to have school meals provided free of charge.

Summary of the effects of taxes and benefits on RETIRED households, 1995-96

TABLE K

	Quintile groups of RETIRED households ranked by equivalised disposable income					All retired
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per household (£ per year)						
Original income						
Earnings	50	140	130	320	630	250
Occupational pensions	540	1 010	1 820	3 620	9 620	3 320
Investment income	310	370	550	1 140	5 790	1 630
Other income	30	50	60	30	20	40
Total original income	920	1 560	2 560	5 110	16 070	5 240
plus Contributory benefits	3 820	4 180	3 920	4 070	4 090	4 020
Non-contributory benefits	640	1 270	1 560	1 700	1 300	1 290
Gross income	5 380	7 000	8 040	10 880	21 460	10 550
						, , , , , , ,
less Income tax1	70	100	250	650	3 100	830
Employees'NIC	10	0	10	10	30	10
Local taxes ²	610	570	590	630	810	640
Disposable income	4 690	6 330	7 200	9 590	17 530	9 070
less Indirect taxes	1 410	1 420	1 570	1 950	3 110	1 890
Post-tax income	3 280	4 910	5 630	7 640	14 420	7 180
plus National health service	2 400	2 360	2 280	2 330	2 200	2 320
Housing subsidy ³	40	80	90	60	40	60
Other benefits in kind	130	120	100	120	110	110
Final income	5 860	7 460	8 090	10 160	16 770	9 670
Equivalised disposable income	5 786	7 828	9 240	11 720	20 883	11 090

¹ After tax relief at source on mortgage interest and life assurance premiums.

² Gross Council tax, Local rates and Water charges but after deducting discounts and Council tax transitional relief.

³ Does not include tax relief at source on mortgage payments, which is included in the income tax payments shown above.

The benefit from the health service is estimated according to the age and sex of the household members (see Appendix 3, paragraph 33). Table H shows that this benefit falls gradually as income increases.

The housing subsidy (see Appendix 3, paragraph 34) has been spread between public sector tenants, and since such households tend to be concentrated in the lower half of the income distribution this is where the imputed benefit is highest.

Travel subsidies cover the passenger element of the grants made to various public operations covering both buses and railways. The use of public transport by non-retired households is partly related to the need to travel to work and thus to the number of economically active people in a household and so the combined effect of these travel subsidies increases over the income distribution.

Table H shows that taken together the absolute values of these benefits in kind clearly decline as household income increases. The ratio of benefits in kind to post-tax income decreases from 94 per cent in the lowest quintile group to 7 per cent in the highest quintile group, indicating that this expenditure contributes to the reduction in income inequality.

Summary

The overall effect of the various stages of the tax-benefits system on non-retired households is summarised in Table J. Households in the highest quintile group receive 45 per cent of all (equivalised) original income, compared with 3.0 per cent received by the lowest quintile group. However, after direct taxes and cash benefits are taken into account, the share of the lowest quintile group rises to 7.4 per cent and that of the highest falls to 40 per cent. Cash benefits are the major factor underlying these changes, causing the Gini coefficient to fall from 44 per cent based on original income to 35 per cent based on gross income. Income tax, employees' National Insurance contributions and local taxes produced a further reduction in inequality, but payment of indirect taxes increases inequality.

RESULTS FOR RETIRED HOUSEHOLDS

Retired households (see Appendix 3, paragraph 8 for definition) have quite distinct income and expenditure patterns and so the tax-benefit system affects them in a different way from non-retired households (Table K).

While a minority of retired households have substantial original income, mainly through occupational pensions and investment income, most retired households are dependent on cash benefits, mainly in the form of state retirement pensions. Therefore cash benefits form a very high proportion of gross income for all but the better-off retired households. However, unlike non-retired households, the bulk of these cash benefits (76 per cent) are paid from the National Insurance Fund into which the recipients will have made contributions throughout their working lives. Non-contributory benefits are lowest for the bottom quintile group where 69 per cent of the households own their house outright (Table 4b, Appendix 1) and consequently receive much less in housing benefits.

All households except those in the highest quintile group of retired households pay very little income tax, because their income is unlikely to exceed their tax allowances by much unless they have significant income from investments or occupational pensions in addition to their state retirement pension. The top quintile group also pays nearly one of third the indirect taxes paid by retired households.

Retired households derive significant benefits from health services and, to a lesser extent, the housing subsidy and travel subsidies, though of course virtually none from the education service. Health

benefit is spread fairly evenly within the group of retired households, but housing subsidy is substantially higher for the middle three quintile groups since they have the highest concentration of public sector tenants. The benefits received by retired households from travel subsidies are mainly for bus travel, particularly in the form of concessionary fares, passes, etc., for senior citizens, and since these are not usually means-tested but depend instead on what sort of scheme is being operated by their local authority, there is no particular relationship with income.

Table L shows the extent to which income inequality amongst retired households is reduced by the tax-benefit system. Cash benefits play by far the largest part in bringing about this reduction and income tax payments make a further, though much smaller, contribution. Payments of indirect taxes result in an increase in inequality.

A comparison of Table L with Table J shows that although the distribution of original income amongst retired households is much more unequal than that within the non-retired household group, the distribution of post-tax income is more equal amongst the retired than amongst the non-retired.

Chart 6 illustrates the different impact which the tax-benefit system has on retired households in different quintile groups.

Percentage shares of total household income and Gini coefficients¹ for RETIRED households, 1995-96

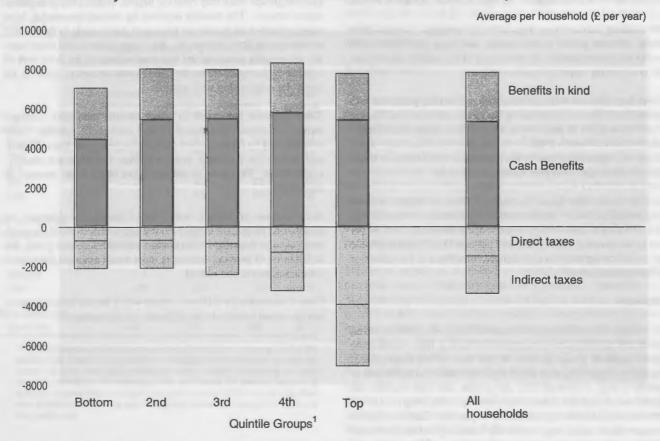
TABLE L

Percentage shares of total equivalised income for RETIRED households ranked by equivalised disposable income

	Original income	Gross income	Disposable income	Post-tax income
Quintile group				
Bottom	3.6	10.3	10.4	9.2
2nd	6	13	14	14
3rd	10	16	17	17
4th	19	21	21	21
Тор	61	40	38	39
All retired				
households	100	100	100	100
Decile group				
Bottom	1.4	4.6	4.5	3.7
Тор	44	26	24	25
Gini coefficient				
(percent)	66	29	27	31

¹ This is a measure of the dispersion of each definition of income. Unlike the percentage shares analysis where the household incomes are ranked only once, the Gini coefficient calculation needs a separate ranking for each income definition. For example, the coefficient for original income is produced by first equivalising the original income of all the households, then this distribution is ranked and this ranked distribution is used to calculate the coefficient.

Summary of the effects of taxes and benefits on RETIRED households, 1995-96



^{1.} Households are ranked throughout by their equivalised disposable income.

PART 2 COMPARISON WITH NATIONAL ACCOUNTS

This special section compares the estimates in this redistribution of income (ROI) analysis with national accounts (NA) estimates. The comparison is based on data for 1994-95, NA data for 1995-96 are not yet available, and covers original, gross and disposable income. This report presents a summary of the results with a brief explanation of some of the major areas of disparity. A fuller report will be published by the ONS later in the year.

The differing purposes of the ROI and the NA lead to differences in scope, definitions, sources and methods. For example, the scope of NA includes all resident persons whereas the ROI covers only those in households; the NA defines lump sum pension and redundancy payments as income, ROI does not; and income in FES is for the latest period the respondent is able to give, that for NA relates to the particular year. Where possible adjustments have been made for these differences but it is not surprising that disparities still remain.

The ratio of ROI to NA remains fairly stable from year to year for most components. However, the ratio for self-employment income and for investment income shows considerable volatility between years. The full explanation for this volatility is not known, but it is likely to be a result of timing problems for the FES data and perhaps with the sampling of outliers at the very top of the income distribution.

In order to compare the estimates, it is necessary to gross up the sample to the total population in private households and to adjust the national aggregates to allow for those not in private households, for example people living in old peoples' homes. The sample is inflated

Adjustment factor for National Accounts control totals, 1994-95

TABLE M

	Adjustme	nt factor
	percent ¹	name
Economically active		
Employed Unemployed	1.14 1.75	EMP UMP
Economically inactive Retired Permanently sick	5.21 11.12	RET PSK
Total aged 16 or over	2.81	тот
Aged under 16	0.31	CHD
Income Support ²	15.90	IS

Non-household population as a percentage of total population.
 Income Support paid to non-household population as percentage of total Income Support paid out.

to population level by using a uniform grossing factor (23.7 million households in UK / 6.853 households in sample = 3.460). More sophisticated re-weighting systems which take account of the differential response rate of household types do not have much impact on the estimates at the level of aggregation shown here.

zxThe adjustment factors used for the income of the non-household population are based on the percentage of non-household population out of the total population in various categories. There are no estimates of the income of the non-household population that would allow the control totals to be adjusted directly. The adjustment factors used here were derived by Redmond and Wilson (1995), Validating Polimod Output (Microsimulation Unit Research Notes, No MU/RN/14, University of Cambridge) based on 1991 Census results. Table M shows the main factors used. The use of these factors assumes that the incidence of different elements of income are the same across the household and non-household population; that the average income among those in the FES population is the same as that among those outside it; and that the non-household population remained the same as a proportion of the total population for each of the categories between the Census in 1991 and 1994-95.

Each of these assumptions is a potential source of error and there is some evidence that the average disposable income of the non-household population is below that of the household population. However, better estimates for non-household income are not available.

Original income

Original income from ROI is 84 per cent of the adjusted NA estimate (Table N). For the largest component, wages and salaries, the proportion is 94 per cent. When allowance is made for the difference in coverage of the armed forces, and for the difference in treatment of the earnings of juveniles, undeclared income and balancing adjustments, the proportion for wages and salaries rises to 96 per cent.

A possible explanation for the shortfall in wages and salaries is that income in the ROI is based on normal gross earnings rather than current earnings. Normal earnings should provide a better estimate for annual income. However, average normal earnings are lower than average current earnings, by 2.7 per cent in 1994-95, possibly because unusual additional earnings are greater than unusual deficits.

Income in kind from employment makes up less than 2 per cent of total original income. Coverage in ROI is limited by the information collected in the FES. ROI covers company cars and fuel, which account for two thirds of the Inland Revenue estimate of taxable benefits, and the benefit of subsidised loans from employers for

Comparison of values for Original income between National Accounts and reweighted Re-distribution of Income, 1994-95

TABLE N

Adjus F	tment actor	N A	ROI	ROI as % of NA
£billion		-		
Wages and salaries	EMP	310.4	290.7	94
Income in kind	EMP	7.8	6.6	84
Self employment	EMP	57.4	45.2	79
Occupational pensions	RET	60.0	28.9	48
Investment income	TOT	37.2	19.7	53
Other income			5.4	
Original income		473.0	396.4	84

house purchase. NA covers a wider range of taxable benefits and non-taxable benefits such as subsidised catering.

The match for **self-employment income** is better for 1994-95 than for most recent years, even so the ROI aggregate is only 79 per cent of the NA figure. The NA estimate includes an adjustment for evasion or under-recording of 13 per cent for 1994-95. Before this adjustment, ROI accounted for 91 per cent of NA.

Measuring self employment income from survey data is difficult for three, not necessarily independent, reasons: that self employment respondents find it difficult to assess their income; that self employment income is under reported and that the response rate is lower for the self employed.

The major cause of the difference between the ROI and the NA for **occupational pensions** is in the treatment of lump sum payments. Lump sum payments arising from retirement, redundancy or life assurance policies reaching maturity are included as income in NA but not in the FES as they are not regular payments. Only half of the NA aggregate for pensions and other benefits paid by life assurance and pension schemes is comparable with the ROI measure of occupational pensions and annuities.

Income from investments in ROI is only 53 per cent of the NA total. There are some differences in coverage, for example the NA figures include income from private trusts which is not likely to be in the FES, but the main problem is likely to be under-reporting of investment income in the survey.

There are two ways in which the FES is known to under-report investment income. Information from the banks and building societies show that there are a large number of "middle income" people with small amounts of investment income. Far fewer report investment income in the FES. Secondly, and more seriously, people at the top end of the income distribution with investment income are under-represented in the FES.

Another problem with comparing investment income between FES and NA is that they do not relate to the same time period. FES data generally do not relate to the survey year. Respondents refer to accounts or statements which are several months old and themselves refer to interest earned in the preceding twelve months. Even those respondents interviewed at the end of the survey year may be reporting income accrued before the start of the survey year.

Other income in ROI includes trade union benefits, children's income, private scholarships, income from baby-sitting, maintenance, regular allowances (from relatives for example) and income from odd jobs. Most of these are not included in NA as they are transfers within the household sector.

Cash benefits

Contributory cash benefits in the ROI amounted to 94 per cent of the NA total in 1994-95 (Table P). For the most important benefit, **retirement pension**, the proportion was even higher at 98 per cent. The results for **unemployment benefit** are not as good. This may be associated with the under-representation of the unemployed in the FES and fraud, which was estimated at 7.2 per cent of expenditure in 1994.

The match for non-contributory benefits is not as good mainly because of **income support**. The NA figures for income support (IS) have been adjusted to allow for payments to the non-household population. This is important for this benefit as the average payment to those living in institutional care is much higher than the average

Comparison of values for cash benefits between National Accounts and reweighted Re-distribution of income, 1994-95

TABLE P

Ac	djustment Factor	N A	ROI	ROI as % of NA
£ billion				
Contributory benefits		37.9	35.8	94
Retirement pension	RET	27.6	27.1	98
Unemployment bene Invalidity pension and		1.3	0.9	69
allowance Other contributory	PSK	7.0	6.1	87
benefits	EMP/TOT	2.0	1.7	86
Non-contributory benefits	S	31.4	25.4	81
Income support	IS	13.9	10.9	79
Family benefits	CHD	8.0	8.2	102
War pensions	TOT	1.0	0.5	50
Other cash benefits	TOT/RET	8.4	5.7	67
Other current transfers		18.0	10.2	57
Housing benefits ¹		10.2	7.8	76
Other		7.8	2.4	31
Current grants to hous	87.2	71.3	82	

¹ For the purpose of this table Council tax benefit has been excluded from the ROI figure to bring it into line with national accounts which treat the benefit as revenue foregone.

for all recipients. Even with this adjustment the ROI figure is only 80 per cent of the NA. One difficulty with the comparison of IS is fraud. In an exercise in 1994 it was estimated that 8.2 per cent of IS expenditure was lost in this way. Also the FES tends to underrecord the number of pensioners on IS, particularly those receiving small amounts. Because pensioners receive their benefit in conjunction with their retirement pension, some of this apparent under-reportage may be mis-classification as pension income and, therefore, not lead to under-reporting of total income.

In national accounts, **housing benefit** is treated as part of other current transfers to the household sector. The Department of Social Security does not estimate the amount of housing benefit paid to the non-household population, so no adjustment is made here, even though benefit is paid to some of those in bed-and-breakfast and hostel accommodation. Total fraud for housing benefit is estimated at over £900 million in 1995, about 10 per cent of total expenditure.

For the remainder of other current transfers to the household sector, the coverage of FES, and hence ROI, is restricted to student maintenance awards and government training schemes. The NA coverage is much wider and includes non-government transfers.

Comparison of values for direct taxes between National Accounts and grossed up Re-distribution of income, 1994-95

TABLE Q

stment		F	ROI as %
Factor	N A	ROI	of NA
TOT	69.9	66.2	95
TOT	0.1	0.1	105
	3.1	3.7	121
	66.7	62.3	93
TOT	18.4	18.4	100
	12.8	13.2	103
	97.9	93.9	96
	TOT TOT	TOT 69.9 TOT 0.1 3.1 66.7 TOT 18.4 12.8	TOT 69.9 66.2 TOT 0.1 0.1 3.1 3.7 66.7 62.3 TOT 18.4 18.4 12.8 13.2

¹ For the purposes of this table Council tax benefit has been excluded from the ROI figure to bring it into line with national accounts which treats the benefit as revenue foregone.

Direct taxes

The overall match for direct tax is quite good with ROI accounting for around 96 per cent of NA estimates (Table Q). Many of the problems with income data feed through into problems with tax. For example: if income estimates are based on an earlier period then it is likely that the tax estimates will be similarly out of date; if investment income is under reported, then the tax paid will also be missed.

The over-reporting of tax relief at source arises from a difference in the treatment of tax relief on mortgage interest payments between ROI and NA. Under the mortgage interest relief at source scheme, a borrower pays the lender the interest less the tax relief and the lender is reimbursed by the Inland Revenue for the amount deducted. Borrowers are able to deduct income tax at the available rate from their interest payments irrespective of their taxable income. Any payment to lenders for interest paid by non-taxpayers are treated as public expenditure rather than tax relief. In ROI this distinction between taxpayers and non-taxpayers is not drawn.

Conclusion

In general, the match between ROI and NA is reasonably good. After making allowances for differences in coverage and definitions, ROI captures more than 90 per cent of the national aggregates for most components of income and direct taxation. The two components which fall below that level, self-employment income and investment income, suffer from a combination of under-reporting, non-response and timing problems which are difficult to resolve satisfactorily.

This comparison exercise is seen as a step towards producing the analysis for the total household population by re-weighting the sample.

APPENDIX 1

Detailed tables for 1995-96

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A table showing the average incomes, taxes and benefits for 1995-96 by quintile groups within household type is available from the ONS on request.

Guide to the allocation of general government expenditure and financing to households in 1995

TABLE 1 (Appendix 1)

Expenditure			Financing		
	£ million	% of total		£ million	% of total
		——			
Allocated expenditure ¹			Allocated financing¹		
Allocated cash benefits			Income tax ⁴	67 450	22.1
			Employees' & self-employed NI contributions	20 180	6.6
Contributory(National Insurance,etc)			Council tax	8 990	3.0
Retirement	29 930	9.8			
Widows and guardians	1 020	0.3	Taxes on final goods and services		
Unemployment	1 120	0.4	VAT	32 400	10.6
Sickness/Statutory sick pay	340	0.1	Duty on beer	2 480	0.8
Invalidity	7 960	2.6	Duty on wines, cider, perry	890	0.3
Maternity/Statutory maternity pay	460	0.2	Duty on spirits	1 860	0.6
Other	410	0.1	Customs duties	1 290	0.4
			Betting duties	1 550	0.5
			Duty on tobacco	7 170	2.4
			Duty on hydrocarbon oils	7 110	2.3
lon-contributory			Vehicle excise duty	2 700	0.9
Family benefits	8 300	2.7	Camelot: payments to NLDF	1 260	0.4
Income support	16 620	5.5	Other	2 520	0.8
War pensions	1 200	0.4			
Other	9 820	3.2			
Student maintenance grants ²	1 800	0.6	Taxes & NI contributions on		
			intermediate goods & services		
ent rebates and allowances	10 670	3.5	Employers' NI contributions	7 900	2.6
			Commercial & industrial rates	5 910	1.9
			Duty on hydrocarbon oils	4 090	1.3
			VAT	2 640	0.9
			Vehicle excise duty	700	0.2
Allocated benefits in kind			Other	1 170	0.4
Health services	40 250	13.2		180 260	59.2
Education	33 320	10.9			
School meals and welfare milk	720	0.2			
Housing subsidy	1 190	0.4	Unallocated financing		
Travel subsidies ³	1 820	0.6			
	166 960	54.8	Employers' NI contributions not allocated	16 170	5.3
	100 000	0 110	Taxes on expenditure not allocated	27 860	9.1
Jnallocated expenditure			Other taxes		
Other current expenditure	89 020	29.2	Corporation tax	22 400	7.4
			Petroleum revenue tax	820	0.3
Capital expenditure	18 800	6.2	Taxes on capital	2 690	0.9
Debt interest	25 800	8.5	Other receipts⁵	13 060	4.3
Non-trading capital consumption	4 130	1.4	Non-trading capital consumption	4 130	1.4
			General government borrowing requirement	37 320	12.2
Total expenditure	304 710	100.0	Total financing	304 710	100.0

¹ Including benefits to and taxes paid by, people not living in private households. It is not possible (for the reasons given in Appendix 3, paragraph 1) to allocate all Government expenditure and revenue to households.

Source: United Kingdom National Accounts, 1996Edition, Tables 9.4 & 9.1.

² Estimated.

³ Including concessionary fares expenditure.

Net of tax relief at source on mortgage interest and life assurance premiums.

⁵ Receipts of rent, royalties and licence fees on oil and gas production, interest, dividends, trading income and miscellaneous transactions (net).

Average incomes, taxes and benefits by decile groups of ALL households, 1995-96

TABLE 2A (Appendix 1)

	Decile gro	oups of h	ouseholds	ranked by	equival	ised dispos	able inco	me			A
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house hold
Average per household (£ per year)											
Decile points (equivalised £)	6	299	7 786 9	073 1	0 635	12 451	14 504	17 094	20 394	26 662	
umber of households in the sample	680	679	680	680	680	679	680	680	679	680	6 79
riginal income Vages and salaries mputed income from benefits in kind self-employment income occupational pensions, annuities nvestment income other income otal	1 013 45 415 177 236 134 2 020	1 761 10 318 409 171 162 2 830	2 729 19 510 787 242 128 4 415	5 362 34 636 1 107 437 196 7 771	8 791 83 1 128 1 255 475 134 11 866	11 983 108 1 375 1 359 689 204 15 718	166 1 424 1 652 733 213	19 316 417 1 910 1 925 936 294 24 798	25 279 640 2 194 1 879 1 399 385 31 776	34 328 1 137 7 902 2 941 3 881 537 50 727	12 64 26 1 78 1 34 92 23 17 20
irect benefits in cash Contributory Retirement pension Unemployment benefit Incapacity benefit Widows' benefits Statutory Maternity Pay/ Allowance	1 214 47 199 49	1 783 44 342 40 4	2 013 38 345 39 8	1 736 33 302 32 14	1 384 40 389 61 15	1 135 34 319 24 16	245 40	740 28 278 53 34	17 148 43	554 15 69 11 82	1 19 3 26 3 2
Non-contributory Income support Child benefit Housing benefits Invalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance Industrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	1 355 507 819 27 5 41 - - 11 66 29 107 46	1 189 392 1 131 19 40 55 9 25 23 54 23 113 18	708 305 984 56 58 141 21 30 80 22 120	506 298 731 39 118 199 22 53 12 80 9 81	469 362 455 43 113 249 20 45 19 42 17 54	279 335 248 32 127 128 44 15 9 80 18 20	187 41 73 150 40 38 30 25 23	91 276 40 8 40 90 25 13 46 44 15 13	27 8 14 47 8 22 18 49 9	26 185 9 3 18 25 21 3 22 23 7	48 32 46 2 6 11 2 2 2 5 1 5 3
Fotal cash benefits	4 523	5 305	5 032	4 284	3 826	2 894	2 382	1 875	1 310	1 079	3 25
Pross income	6 544	8 136	9 447	12 055	15 692	18 613	22 484	26 673	33 086	51 805	20 45
oirect taxes and Employees' NIC ncome tax less: Tax relief at source ¹ Employees' N I contributions Local taxes ² Total	680 44 77 613 1 327	280 31 114 574 937	493 37 182 572 1 210	920 65 365 609 1 830	1 568 102 599 639 2 703	2 213 141 824 668 3 564	163	3 934 182 1 307 726 5 785	236 1 655	10 373 242 1 961 869 12 961	2 92 12 81 67 4 28
Disposable income	5 217	7 198	8 237	10 225	12 989	15 049		20 888	25 102	38 844	16 16
quivalised disposable income	4 795	7 097	8 431	9 829	11 535	13 413	15 763	18 705	23 106	37 654	15 03
ndirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on wines Duty on spirits Duty on hydrocarbon oils Vehicle excise duty Television licences Stamp duty on house purchase Customs duties Betting taxes Fossil fuel levy Camelot National Lottery Fund Other	721 302 46 10 35 163 58 72 8 28 44 20 42	644 289 52 8 35 135 48 72 3 26 45 18 38 20	725 288 56 11 50 146 59 76 4 28 53 18 44	1 009 342 84 18 61 224 83 75 7 7 36 64 19 51	1 185 343 109 19 61 293 99 81 9 43 74 21 65	112 26 86 336 120 79 13 51 74 21	322 131 35 96 385 137 82 17 56 77 21	1 729 326 145 37 101 417 149 84 25 59 78 21 74	170 63 110 452 148 83 34 66 70 23	2 507 176 154 92 110 467 154 65 85 85 69 25 51	1 33 29 10 3 7 30 10 7 1 4 6 2 5 2
Intermediate taxes Commercial and industrial rates Employers' NI contributions Duty on hydrocarbon oils Vehicle excise duty Other	120 156 85 13 77	109 141 78 12 70	118 154 84 13 76	154 201 106 17 100	184 237 125 20 118	269 137 22	310 156 25	263 342 171 28 167	392 200 33	402 523 259 43 247	21 27 14 2 13
Total indirect taxes	2 012	1 844	2 013	2 669	3 102	3 476	3 924	4 255	4 617	5 560	3 34
Post-tax income	3 205	5 355	6 224	7 556	9 887	11 573	13 985	16 633	20 485	33 284	12 81
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk Total	2 127 1 875 76 27 27 125 4 257	1 498 1 911 104 14 36 73 3 636	1 366 1 889 99 25 37 35 3 452	1 234 1 777 70 37 34 16 3 166	1 441 1 801 50 30 31 10 3 362	26 27 6	1 579 28 39 20 3	1 036 1 459 17 44 17 0 2 574	1 332 11 97 16	592 1 337 2 155 12 0 2 098	1 28 1 66 4 4 2 2 3 10
Final income	7 463	8 990	9 676	10 723	13 249	14 730	16 758	19 206	23 008	35 382	15 9 ⁻

¹ On mortgage interest and life assurance premiums.

² Gross Council tax, Rates and Water charges but after deducting discounts and transitional relief.

Household characteristics of decile groups of ALL households, 1995-96

TABLE 2B (Appendix 1)

	Decile g	roups of	ALL hou	seholds	ranked	by equiv	alised di	sposable	income		Al
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house
Average per household (number)											
People	2.7	2.4	2.2	2.3	2.6	2.6	2.6	2.5	2.4	2.2	2.4
Adults Children	1.6 1.0	1.6 0.7	1.6 0.6	1.7 0.6	1.9 0.7	1.9 0.7	2.0 0.6	2.0 0.5	1.9 0.5	1.9 0.4	1.8 0.6
Economically active people Retired people	0.5 0.5	0.5 0.6	0.6 0.7	0.8 0.6	1.1 0.5	1.3 0.4	1.5 0.3	1.6 0.2	1.6 0.2	1.6 0.2	1.1 0.4
People in full-time education	0.93	0.61	0.52	0.52	0.60	0.57	0.48	0.46	0.43	0.29	0.54
In state primary schools In state secondary schools In further and higher education In other educational establishments	0.55 0.26 0.10 0.02	0.34 0.20 0.07 0.01	0.27 0.16 0.08 0.02	0.28 0.17 0.06 0.02	0.30 0.21 0.08 0.01	0.28 0.20 0.08 0.01	0.23 0.16 0.06 0.04	0.22 0.14 0.06 0.04	0.16 0.13 0.09 0.06	0.11 0.07 0.04 0.07	0.27 0.17 0.07 0.03
Composition (percentages)											
Household type											
Retired											
1 adult 2 or more adults	20 14	21 22	32 19	23 17	13 15	12 9	8 9	5 7	4 6	3 5	14 12
Non-retired											
1 adult 2 adults 3 or more adults 1 adult with children 2 adults with 1 child 2 adults with 2 children 2 adults with 3 or more children 3 or more adults with children	11 10 2 15 7 9 10 3	11 8 3 17 5 5 6 3	8 9 2 10 4 8 5 3	9 14 6 6 5 12 5 4	11 16 7 5 9 15 5	12 21 9 4 11 14 5	12 25 13 3 10 14 4	16 28 12 2 11 12 4	18 33 9 1 12 11 3 3	21 41 7 1 11 7 2	13 20 7 6 8 11 5
Household tenure											
Rented	46	65	61	47	36	26	21	14	13	9	34
Local authority rented Housing association Other rented unfurnished Rented furnished Rent free	32 5 4 3 2	45 10 6 3 1	44 7 6 4 1	28 6 8 5 1	21 5 6 4 1	13 3 4 4 2	10 3 4 3 2	4 2 3 3 2	3 1 4 5 1	1 0 3 5 1	20 4 5 4 1
Owner occupied	54	35	39	53	64	74	79	86	87	91	66
With mortgage Rental purchase Owned outright	19 0 35	14 0 20	15 - 24	27 0 26	38 0 25	49 1 24	54 1 23	62 - 25	71 0 16	70 0 20	42 0 24
Age of chief economic supporter											
Under 25 Over 24 and under 35 Over 34 and under 45 Over 44 and under 55 Over 54 and under 65 Over 64 and under 75 Over 74	7 17 21 12 12 13 18	6 18 14 11 12 22 18	5 14 14 9 13 24 22	3 14 17 11 16 21	4 17 20 15 16 16 12	4 21 18 20 14 13 10	3 19 22 22 17 11 5	4 22 23 24 16 8 4	3 28 24 24 11 7 3	2 26 24 27 13 6 4	4 20 20 18 14 14
Employment status of chief economic sup	porter										
Self-employed Full-time employee at work Part-time employee at work Unemployed Unoccupied and under minimum NI age Retired/unoccupied over minimum NI age Other	7 5 7 16 32 32 32	4 11 7 11 25 41	5 15 8 5 17 49 1	6 27 8 6 14 39 0	8 41 7 5 11 29 0	9 52 7 3 7 22	7 60 6 4 7 16	9 67 4 4 6 11	8 73 5 3 9	15 69 4 3 2 8	8 42 6 6 12 26

Average incomes, taxes and benefits by decile groups of NON-RETIRED households, 19954-96

TABLE 3A (Appendix 1)

	Decile gro	oups of NC	N-RETIF	RED hous	eholds rar	nked by eq	uivalised di	sposable in	ncome		All non- retired
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
Average per household (£ per year)											
Decile points (equivalised £)	ť	5 5 1 5	366 1	0 384 1	2 205 1	4 017 1	6 259 18	8 897 2	22 299 28	3 167	
Number of households in the sample	502	501	502	501	502	501	502	501	502	501	5 015
Original income Wages and salaries Imputed income from benefits in kind Self-employment income Occupational pensions, annuities Investment income Other income Total	1 518 69 684 67 186 183 2 706	3 740 15 615 169 67 249 4 855	7 614 38 1 069 291 193 251 9 457	11 551 103 1 379 395 280 210 13 917	14 657 102 1 896 524 409 244 17 832	18 372 221 1 532 601 472 224 21 422	21 194 389 2 077 784 512 243 25 199	23 602 516 2 080 925 612 495 28 230	29 241 776 2 822 999 1 123 384 35 346	39 132 1 361 9 921 1 738 2 824 620 55 596	17 060 359 2 407 649 668 310 21 453
Direct benefits in cash											
Contributory Retirement pension Unemployment benefit Incapacity benefit Widows' benefits Statutory maternity pay / Allowance	43 66 274 69 4	149 72 510 37 10	320 46 482 42 16	475 49 384 72 26	380 58 358 32 20	303 26 198 36 40	359 35 310 33 35	260 14 238 90 52	221 24 152 10 51	213 12 35 15 99	272 40 294 44 35
Non-contributory Income support Child benefit Housing benefits Invalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance Industrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	1 973 755 1 164 32 3 50 	1 730 658 1 406 29 8 97 - 23 16 106 37 218 25	848 520 796 86 0 318 7 60 18 145 35 178 29	529 493 445 44 27 219 - 49 11 75 20 82 46	282 448 222 46 21 126 29 20 8 82 23 30 18	155 394 118 40 26 149 16 51 21 38 24 30	88 317 41 15 15 82 7 16 48 39 19	64 295 37 7 13 60 4 17 42 72 18 6	52 246 18 7 3 45 - 20 9 39 7 1	25 194 6 4 5 20 17 - 14 30 9	575 432 425 31 12 117 8 26 20 72 23 71 21
Total cash benefits	4 782	5 130	3 946	3 047	2 203	1 683	1 477	1 316	906	700	2 519
Gross income	7 488	9 985	13 403	16 964	20 035	23 104	26 676	29 547	36 252	56 296	23 972
Direct taxes and Employees' NIC Income tax Iess: Tax relief at source ¹ Employees' N I contributions Local taxes ² Total	936 62 111 611 1 596	530 48 246 565 1 293	1 118 85 518 606 2 157	1 831 132 781 634 3 113	2 454 166 1 021 677 3 987	3 173 195 1 251 684 4 913	3 885 198 1 445 705 5 836	4 757 229 1 585 710 6 823	6 541 259 1 899 776 8 957	11 380 264 2 173 875 14 164	3 660 164 1 103 684 5 283
Disposable income	5 891	8 692	11 246	13 851	16 048	18 191	20 839	22 724	27 295	42 133	18 689
Equivalised disposable income	4 737	7 478	9 389	11 302	13 089	15 181	17 601	20 392	25 041	40 155	16 434
Indirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on wines Duty on spirits Duty on hydrocarbon oils Vehicle excise duty Television licences Stamp duty on house purchase Customs duties Betting taxes Fossil fuel levy Camelot National lottery fund Other	807 399 52 11 31 198 60 69 8 32 46 20 49	815 360 68 10 38 196 59 71 4 32 46 6 20 47	1 163 457 115 18 67 255 85 75 7 43 74 20 60 21	1 298 422 125 20 52 348 110 81 9 46 71 22 72	1 461 381 128 26 84 385 130 81 15 55 82 22 76 46	1 712 356 144 31 93 435 143 82 17 61 84 22 88 24	1 737 390 166 39 113 430 147 84 20 58 83 22 78 35	1 779 271 166 44 94 440 146 83 28 62 78 22 74 36	2 071 255 173 69 95 462 150 83 40 71 69 23 67 36	2 684 189 168 98 105 493 154 73 91 78 25 52	1 553 348 1300 366 77 364 118 79 22 55 71 71 22 66
Intermediate taxes Commercial and industrial rates Employers' NI contributions Duty on hydrocarbon oils Vehicle excise duty Other	131 171 95 15 85	133 172 96 15 85	172 222 119 19 112	199 257 135 22 128	221 285 148 24 143	255 329 164 26 163	268 347 178 29 170	277 360 183 30 176	325 423 211 35 205	422 550 276 46 262	240 312 160 26 153
Total indirect taxes	2 294	2 286	3 106	3 435	3 791	4 231	4 393	4 350	4 860	5 898	3 864
Post-tax income	3 598	6 406	8 140	10 415	12 257	13 961	16 447	18 374	22 435	36 235	14 824
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk Total	3 107 1 600 101 36 11 187 5 042	2 550 1 541 129 36 15 107 4 379	2 348 1 408 73 36 15 41 3 921	1 964 1 624 46 43 18 16 3 711	1 840 1 441 26 33 17 10 3 366	1 465 1 490 25 34 13 2 3 030	1 201 1 436 18 59 16 1 2 731	1 276 1 277 14 58 12 2 2 640	893 1 256 4 108 12 1 2 274	647 1 224 2 180 9 0 2 062	1 729 1 430 44 62 14 37 3 316
Final income	8 640		12 061	14 126	15 623	16 990	19 178	21 014	24 709	38 297	18 140

¹ On mortgage interest and life assurance premiums. 2 Gross Council tax, Rates and Water charges but after deducting discounts and transitional relief.

Household characteristics of decile groups of NON-RETIRED households, 1995-96

TABLE 3B (Appendix 1)

	Decile gr disposab			TIRED	househo	olds ranke	ed by eq	uivalised			All non- retired
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
Average per household (number)											
People	3.3	3.0	2.9	3.0	2.9	2.8	2.7	2.5	2.4	2.3	2.8
Adults Children	1.7 1.5	1.7 1.3	1.9 1.0	2.0 1.0	2.0 0.9	2.0 0.8	2.1 0.6	1.9 0.6	1.9 0.5	1.9 0.4	1.9 0.9
Economically active people Retired people	0.8	0.9 0.1	1.3 0.1	1.5 0.1	1.7 0.1	1.8 0.1	1.8 0.1	1.7 0.1	1.8	1.8	1.5 0.1
People in full-time education	1.36	1.03	0.92	0.83	0.76	0.64	0.52	0.51	0.40	0.31	0.73
In state primary schools In state secondary schools In further and higher education In other educational establishments	0.81 0.38 0.14 0.03	0.56 0.33 0.13 0.02	0.46 0.30 0.12 0.04	0.43 0.27 0.11 0.02	0.38 0.27 0.10 0.01	0.31 0.23 0.06 0.04	0.24 0.15 0.08 0.05	0.22 0.16 0.08 0.05	0.16 0.10 0.07 0.07	0.12 0.07 0.05 0.07	0.37 0.23 0.09 0.04
Composition (percentages)											
Household type											
Non-retired											
1 adult 2 adults 3 or more adults 1 adult with children 2 adults with 1 child 2 adults with 2 children 2 adults with 3 or more children 3 or more adults with children	16 14 3 24 10 14 15	18 14 5 27 9 11 11	17 22 9 13 8 18 8	14 23 10 8 11 20 8 6	15 25 11 4 13 19 7	13 30 11 4 13 18 6 5	17 30 17 2 12 14 4 5	21 34 11 3 12 13 4 3	20 39 9 1 14 10 3 3	23 44 9 1 11 8 2	17 28 9 9 11 15 7
Household tenure											
Rented	62	72	53	36	26	20	16	14	11	10	32
Local authority rented Housing association Other rented unfurnished Rented furnished Rent free	44 8 4 5	49 10 6 6 1	29 7 8 8 1	21 2 7 5 1	12 3 6 5	8 2 4 4 2	5 2 4 3 2	4 1 3 4 1	1 1 3 6 1	1 - 4 5 0	18 4 5 5 1
Owner occupied	38	28	47	64	74	81	84	86	89	90	68
With mortgage Rental purchase Owned outright	27 0 11	22 0 6	33 0 14	49 0 15	57 1 16	65 1 15	67 1 16	72 0 14	78 0 10	76 0 14	54 0 13
Age of chief economic supporter											
Under 25 Over 24 and under 35 Over 34 and under 45 Over 44 and under 55 Over 54 and under 65 Over 64 and under 75 Over 74	10 27 31 18 13 1	11 30 25 17 14 1	6 23 28 21 18 4	6 24 27 20 17 5	5 26 25 26 15 3	5 24 28 25 15 3	3 24 25 27 16 2	5 27 24 28 12 3	3 32 25 25 12 2	2 27 27 30 11 2	5 26 27 24 15 3
Employment status of chief economic sup	porter										
Self-employed Full-time employee at work Part-time employee at work Unemployed Unoccupied and under minimum NI age Retired/unoccupied over minimum NI age Other	11 8 10 23 46 0 2	7 23 13 16 38 2	10 40 14 10 21 4	10 54 11 8 13 5	12 66 8 3 8 3	8 72 8 5 5	9 76 4 5 5	9 78 6 3 4 1	10 79 6 3 2	17 75 4 3 1 0	10 57 8 8 14 2

Average incomes, taxes and benefits by decile groups of RETIRED households, 1995-96

TABLE 4A (Appendix 1)

TABLE 4A (Appendix 1)	Decile groups of RETIRED households ranked by equivalised disposable income										Al
	Bottom	2nd	3rd	4th	 5th	6th	7th	8th	9th	Тор	retired house holds
Average per household (£ per year)											
Decile points (equivalised £)	5	969	7 007	7 851 8	548	9 176 1	0 095	11 554	13 817 1	7 625	
Number of households in the sample	178	178	179	178	178	178	178	179	178	178	1 78
Original income Wages and salaries Imputed income from benefits in kind Self-employment income Occupational pensions, annuities Investment income Other income	45 - 6 335 281 19	29 21 742 330 37	74 6 779 350 48	162 29 1 245 383 43	88 3 29 1 456 373 62	131 11 2 177 733 64	225 29 39 3 122 850 8	354 - - 4 111 1 422 - 49	410 0 57 6 360 2 034 30	772 3 25 12 880 9 548 18	22: 2 3 32: 1 62: 3
Total	685	1 158	1 256	1 862	2 012	3 117	4 272	5 936	8 891	23 245	5 24
Direct benefits in cash Contributory Retirement pension Unemployment benefit Incapacity benefit Widows' benefits Statutory maternity pay/ Allowance	3 315 10 93 39	4 019 19 153	4 060 10 86 90	3 834 22 219 36	3 637 8 138 17	3 923 0 113 -	3 696 9 200 39	3 780 - 416 -	3 704 - 235 24	4 074 7 121 22	3 80 17 2
Non-contributory Income support Child benefit Housing benefits Invalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance Industrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	220 14 233 14 10 13 - - - - 54	141 14 435 10 18 20 6 11 23	142 3 708 10 112 36 28 30 38	153 11 934 25 109 24 15 12 36 12	237 11 945 31 145 59 33 23 29	305 740 21 309 70 47 25 25 - 1	339 3 663 10 309 243 71 43 17 7	365 3 474 13 407 231 45 - 35 -	499 6 526 31 363 254 182 14 19 15	32 8 38 10 192 65 108 14 45	24; 57(1; 198 10; 55; 1; 22; (
Total cash benefits	4 015	4 904	5 390	5 502	5 336	5 622	5 683	5 862	5 988	4 805	5 31
Gross income	4 700	6 062	6 646	7 363	7 348	8 740	9 956	11 799	14 879	28 049	10 55
Direct taxes and Employees' NIC Income tax less: Tax relief at source' Employees' N I contributions Local taxes ² Total	69 8 12 624 697	93 6 2 590 678	68 14 1 564 619	145 6 7 579 725	193 15 9 560 747	346 14 6 610 948	516 14 10 621 1 134	809 18 14 636 1 441	1 350 11 19 703 2 062	4 882 29 45 913 5 811	847 13 12 640 1 486
Disposable income	4 004	5 384	6 027	6 638	6 601	7 792	8 822	10 357	12 817	22 238	9 06
Equivalised disposable income	5 045	6 527	7 461	8 197	8 869	9 610	10 813	12 622	15 496	26 270	11 09
Indirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on wines Duty on spirits Duty on hydrocarbon oils Vehicle excise duty Television licences Stamp duty on house purchase Customs duties Betting taxes Fossil fuel levy Camelot National lottery fund Other	523 121 25 8 41 89 50 76 5 21 37 18 25 9	495 156 43 7 34 46 76 3 19 53 17 28 31	467 165 29 6 41 73 43 43 43 76 2 18 40 15 30	561 153 26 9 51 95 53 77 4 23 46 15 35 8	471 187 36 11 39 69 38 74 3 18 52 16 34 8	681 183 31 15 41 113 66 75 5 24 49 16 37	700 137 41 166 72 127 66 74 6 27 61 117 45	807 147 44 18 82 135 75 77 8 31 45 18 39	1 107 134 38 31 92 178 101 76 14 43 45 18 43 25	1 541 96 53 74 173 306 153 84 30 56 41 122 40 50	738 148 37 19 61 127 68 77 8 28 47 17 36
Intermediate taxes Commercial and industrial rates Employers' Ni contributions Duty on hydrocarbon oils Vehicle excise duty Other	92 119 63 10 59	89 114 61 9 56	85 110 61 9 54	94 124 67 11 60	85 111 60 9 55	112 147 75 12 71	122 160 86 14 77	134 174 90 14 83	162 212 106 17 105	266 346 161 26 157	124 162 83 13
Total indirect taxes	1 391	1 427	1 334	1 509	1 377	1 765	1 861	2 033	2 547	3 676	1 89
Post-tax income	2 612	3 956	4 692	5 129	5 224	6 027	6 961	8 324	10 270	18 562	7 17
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk Total	53 2 387 33 11 56 1 2 541	68 2 422 51 2 62 0 2 605	22 2 384 65 3 63 - 2 538	2 331 90 7	50 2 271 103 15 64 - 2 503	2 284 77 11 59 - 2 431	65 2 318 75 8 65 3 2 534	17 2 351 51 11 62 - 2 492	-	2 284 11 55 46 - 2 396	4: 2 31: 6: 1 5: 2 49:
Final income	5 153	6 561	7 230		7 727	8 458	9 495	10 816		20 959	9 66

On mortgage interest and life assurance premiums.
 Gross Council tax, Rates and Water charges but after deducting discounts and transitional relief.

Household characteristics of decile groups of RETIRED households, 1995-96

TABLE 4B (Appendix 1)

	Decile g disposal			D house	holds ra	nked by	equivalis	sed			All retired
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
Average per household (number)											
People	1.5	1.6	1.5	1.5	1.3	1.5	1.5	1.5	1.5	1.6	1.5
Adults Children	1.43 0.02	1.52 0.03	1.49 0.01	1.48 0.02	1.33 0.01	1.50 0.00	1.51 0.01	1.53 0.01	1.53 0.01	1.61 0.02	1.49 0.01
Economically active people Retired people	0.0 1.3	0.1 1.4	0.1 1.4	0.1 1.4	0.0 1.2	0.1 1.4	0.1 1.4	0.1 1.4	0.1 1.4	0.1 1.5	0.1 1.4
People in full-time education	0.02	0.03	0.01	0.02	0.02	0.00	0.02	0.01	0.02	0.02	0.02
Composition (percentages)											
Household type											
Retired											
1 adult 2 or more adults	58 42	50 50	53 48	55 46	71 29	52 48	55 46	50 50	49 51	43 57	54 46
Household tenure											
Rented	17	38	58	57	62	45	43	32	32	7	39
Local authority rented Housing association Other rented unfurnished Rented furnished Rent free	12 2 2 0 1	28 5 3 0 1	35 10 10 0 3	44 5 8 0 1	49 5 5 1 3	29 7 6 1 1	28 10 5 1	22 5 2 0 3	21 6 3 1 1	2 1 3 0 1	27 6 5 0 1
Owner occupied	83	62	42	43	38	55	57	68	69	93	61
With mortgage Owned outright	5 78	3 59	6 36	3 39	5 33	10 46	7 49	11 58	6 62	11 83	7 54
Age of chief economic supporter											
Under 25 Over 24 and under 35 Over 34 and under 45 Over 44 and under 55 Over 54 and under 65 Over 64 and under 75 Over 74	1 - 2 10 37 51	9 47 44	- - 1 7 49 44	1 1 15 43 40	1 3 9 43 45	11 53 36	- - 17 38 45	1 12 49 38	1 1 18 52 29	- 2 16 52 31	0 - 0 1 12 46 40
Employment status of chief economic sup	porter										
Self-employed Full-time employee at work Part-time employee at work Unemployed Unoccupied and under minimum NI age Retired/unoccupied over minimum NI age	1 - - 1 5 93	1 - 1 - 6 93	- 1 - 2 97	1 - - 6 94	- 1 - 6 94	1 - - 7 93	- - - 10 90	- - - 8 92	- - - 11 89	- - - 13 87	0 - 0 0 7 92

Average incomes, taxes and benefits by decile groups of NON-RETIRED households without CHILDREN, 1995-96

TABLE 5 (Appendix 1)

	Decile g	roups of h	nouseholds	ranked by	y equival	ised dispos	able incor	me			All
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
Average per household (£ per year)											
Decile points (equivalised £)	7	7 600	9 985 1	2 148 14	1112	16 329 18	8 642 2	21 046 2	5 058 3	1 386	
Number of households in the sample	272	273	272	273	272	272	273	272	273	272	2724
Original income Wages and salaries Imputed income from benefits in kind Self-employment income Occupational pensions, annuities Investment income Other income Total	1 505 47 527 190 263 342 2 875	4 182 22 526 503 191 178 5 601	8 342 39 733 605 379 99 10 197	11 019 42 1 310 997 580 125 14 072	15 432 124 1 097 880 518 70 18 120	18 403 207 1 384 1 129 577 245 21 945	19 620 269 1 355 1 222 679 127 23 272	24 060 480 1 960 1 071 599 562 28 733	27 643 494 2 951 1 662 1 353 260 34 364	1 402 10 687 2 341 3 753 562	16 820 313 2 252 1 060 889 257 21 590
Direct benefits in cash											
Contributory Retirement pension Unemployment benefit Incapacity benefit Widows' benefits Statutory Maternity Pay/ Allowance	136 95 594 59	534 97 892 70	884 50 613 98	731 79 610 70	485 29 301 66	566 19 417 39	387 24 392 55	284 9 198 32	291 6 159	281 16 28 28	458 42 420 52
Non-contributory Income support	1 222	824	586	250	166	85	99	93	37	25	339
Child benefit Housing benefits Invalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance Industrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	922 13 - 44 - 24 169 51 6 6	894 68 9 341 6 71 35 180 10	386 495 61 44 354 6 107 16 108 32	250 7 226 34 47 164 34 37 15 58 16	160 6 112 20 27 147 24 66 25 56 21 9	8	99 4 39 7 18 100 8 23 93 93 69 18 4 53	93 50 6 49 - 21 - 32 22 - 1	15 15 33 20 15 17 52 16	25 8 9 7 22 6 - 26 37 0	339 5280 222 188 134 12 36 31 81 21 4
Total cash benefits	3 349	4 080	3 507	2 380	1 577	1 463	1 394	802	681	493	1 973
Gross income	6 224	9 682	13 704	16 453	19 698	23 407	24 666	29 535	35 044	57 247	23 563
Direct taxes and Employees' NIC Income tax Iess: Tax relief at source' Employees' N I contributions Local taxes ² Total	969 47 94 546 1 562	593 48 259 563 1 367	1 297 69 570 610 2 409	1 908 104 745 640 3 190	2 493 130 1 046 639 4 048	3 248 145 1 279 655 5 037	3 607 180 1 357 663 5 448	4 705 218 1 662 683 6 833	6 065 250 1 892 744 8 451	11 805 241 2 151 850 14 566	3 668 143 1 106 659 5 290
Disposable income	4 662	8 315	11 295	13 263	15 649	18 370	19 218	22 702	26 594		18 273
Equivalised disposable income	5 262	8 817	11 094	13 171	15 270	17 462	19 754	22 971	27 806	44 880	18 647
Indirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on spirits Duty on spirits Duty on hydrocarbon oils Vehicle excise duty Television licences Stamp duty on house purchase Customs duties Betting taxes Fossil fuel levy Camelot National lottery fund Other	686 265 83 15 37 148 61 67 7 24 41 18 38	8822 3522 1022 18 633 1933 689 4 311 688 177 599	1 141 458 128 18 66 275 93 78 5 39 89 21 65	1 261 378 143 27 110 307 109 80 10 44 84 20 77	1 496 352 150 27 97 382 133 81 9 53 81 20 86	451 188 38 128 421 142 83 12 51 93 19	1 628 307 162 38 91 400 139 82 17 58 75 20 76 37	1 743 280 198 51 129 445 144 82 24 54 76 22 74 38	2 123 212 188 71 88 473 159 82 31 67 80 21 59 33	2 679 198 175 105 119 474 147 83 79 89 76 23 52 48	1 529 325 152 41 93 352 119 20 51 76 20 67 27
Intermediate taxes Commercial and industrial rates Employers' NI contributions Duty on hydrocarbon oils Vehicle excise duty Other	114 148 82 13 73	132 170 90 15 85		185 238 122 20 119	214 277 140 23 136	308 157 26	238 309 158 26 151	266 348 190 33 166	311 402 198 32 194	403 526 267 45 250	227 294 152 25 143
Total indirect taxes	1 935	2 427	3 122	3 355	3 778	4 280	4 012	4 363	4 825	5 839	3 793
Post-tax income	2 727	5 888	8 173	9 908	11 871	14 090	15 206	18 339	21 769	36 843	14 479
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk	1 146 872 82 37 13	722 1 033 79 52 18 0	1 236 61 58 23	285 1 115 37 35 20	196 1 090 35 26 17	1 125 19 54 18	199 951 11 48 14	344 930 17 94 14	159 919 1 96 10	181 864 0 180 8	381 1 013 34 68 16 0
Total	2 151	1 905		1 493	1 364		1 223	1 400	1 185	1 234	1 513
Final income	4 878	7 793	9 888	11 401	13 235	15 549	16 429	19 739	22 954	38 076	15 992

On mortgage interest and life assurance premiums.

Gross Council tax, Rates and Water charges but after deducting discounts and transitional relief.

Average incomes, taxes and benefits by decile groups of NON-RETIRED households with CHILDREN, 1995-96

TABLE 6 (Appendix 1)

	Decile	groups of I	nouseholds	ranked by	equivalis	ed disposa	ble incom	<u>e</u>			Al
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house
Average per household (£ per year)											
Decile points (equivalised £)	5	844 7	330	3 680 10	1416	11 961 1.	3 467 1	5 833 1	8 866 2	23 786	
Number of households in the sample	229	229	229	229	230	229	229	229	229	229	2 29
Original income Wages and salaries Imputed income from benefits in kind Self-employment income Occupational pensions, annuities Investment income Other income Total	1 658 64 748 48 122 164 2 804	2 618 37 535 64 43 146 3 443	5 903 32 1 113 59 33 204 7 344	9 950 42 1 389 91 164 337 11 974	14 107 153 1 880 123 215 275 16 752	17 196 157 2 656 120 180 429 20 738	21 443 286 2 150 117 389 369 24 753	25 513 603 2 934 196 416 330 29 992	30 528 1 036 3 285 461 671 683 36 663	44 553 1 730 9 221 325 1 815 805 58 450	17 345 41 ² 2 591 160 405 37 ² 21 289
Direct benefits in cash											
Contributory Retirement pension Unemployment benefit Incapacity benefit Widows' benefits Statutory Maternity Pay/ Allowance	28 39 225 21 0	38 44 225 61 12	40 57 196 21 21	31 26 229 57 39	110 56 152 26 40	44 17 189 15 44	63 40 46 - 66	51 42 42 26 106	70 24 100 115 130	43 30 35 - 312	52 37 144 34 77
Non-contributory Income support Child benefit Housing benefits Invalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance Industrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	2 264 1 140 1 161 55 7 67 17 81 61 220 28	2 487 1 098 1 751 16 44 10 6 40 20 316 46	1 727 1 020 1 325 45 7 129 - 24 4 76 42 373 45	965 987 855 94 - 213 - 45 9 126 31 277 23	449 921 460 41 7 134 - 4 52 27 157 46	351 910 181 43 - 110 18 25 - 120 40 75 36	182 872 167 65 25 108 12 - 4 17 18 42 2	72 843 50 33 7 77 - 8 17 29 13 49	40 826 28 16 53 11 6 52 6 8	18 779 0 16 - 24 7 8 - 32 1 2	855 940 598 42 598 42 13 77 62 26 152 24
Total cash benefits	5 413	6 214	5 152	4 004	2 682	2 218	1 729	1 482	1 487	1 307	3 169
Gross income	8 217	9 657	12 496	15 978	19 435	22 956	26 482	31 473	38 150	59 757	24 458
Direct taxes and Employees' NIC Income tax Iess: Tax relief at source ¹ Employees' N I contributions Local taxes ² Total	902 83 131 648 1 599	334 36 176 591 1 066	942 72 407 594 1 870	1 432 115 684 633 2 634	2 236 187 957 658 3 664	2 773 225 1 227 698 4 473	3 859 262 1 479 739 5 816	4 850 285 1 707 769 7 040	6 840 296 1 909 827 9 280	12 339 321 2 319 979 15 316	3 650 188 1 100 714 5 275
Disposable income	6 619	8 591	10 626	13 343	15 770	18 483	20 666	24 433	28 870	44 441	19 183
Equivalised disposable income	4 513	6 594	7 966	9 540	11 178	12 705	14 637	17 227	20 909	32 773	13 803
Indirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on wines Duty on spirits Duty on hydrocarbon oils Vehicle excise duty Television licences Stamp duty on house purchase Customs duties Betting taxes Fossil fuel levy Camelot National lottery fund Other	950 430 55 10 38 249 58 70 11 39 43 22 58	773 486 35 5 21 185 571 2 34 54 21 44 23	984 398 71 11 44 235 74 75 5 41 52 23 57 11	1 324 531 113 18 58 299 93 78 10 51 62 23 56 32	1 371 376 121 21 47 389 119 83 12 50 61 24 70 18	1 680 396 113 22 54 471 143 82 21 65 85 25 83 72	1 870 351 121 32 65 496 158 83 23 69 82 25 84 29	1 950 331 142 45 106 477 162 85 34 70 67 25 69 32	2 163 228 147 60 82 500 158 85 48 78 80 25 69 35	2 739 225 133 90 75 488 152 85 84 103 65 28 60 46	1 580 375 105 32 55 377 117 80 25 66 65 22 65 31
Commercial and industrial rates Employers' NI contributions Duty on hydrocarbon oils Vehicle excise duty Other	154 200 111 17 100	123 161 92 15 80	157 203 111 18 102	197 255 137 22 129	220 283 149 24 143	258 334 173 28 168	294 380 190 31 189	316 408 206 34 203	355 460 226 37 226	488 637 311 52 304	256 332 170 28 164
Total indirect taxes	2 630	2 280	2 671	3 490	3 579	4 273	4 571	4 762	5 063	6 166	3 948
Post-tax income	3 989	6 312	7 955	9 854	12 191	14 210	16 095	19 671	23 807	38 275	15 23
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk Total	4 262 1 998 106 34 11 287 6 698	3 653 1 901 157 22 13 241 5 986	3 609 1 890 124 22 12 128 5 784	3 763 1 709 69 22 14 76 5 653	3 399 1 984 27 49 15 32 5 507	3 457 1 769 25 26 11 19 5 307	3 121 1 894 16 50 12 9 5 102	2 899 2 034 13 58 12 4 5 021	3 028 1 860 9 105 9 5 5 017	2 132 2 207 6 165 11 0 4 521	3 333 1 925 55 55 12 80 5 460
Final income	10 687	12 298	13 739	15 507	1 7 698	19 517	21 198	24 692	28 824	42 797	20 694

¹ On mortgage interest and life assurance premiums.
2 Gross Council tax, Rates and Water charges but after deducting discounts and transitional relief.

Distribution of households¹ co-operating in the Family Expenditure Survey and Summary of the effects of taxes and benefits, by household type, 1995-96

TABLE 7 (Appendix 1)

	Retired hou	seholds	Non-Re	tired hous	eholds		_				
	1 adult	2 or more adults	1 adult	2 adults	more	1 adult with children	2 adults with 1 child	2 adults with 2 children	with 3 or more	3 or more adults with children	Al house holds
Decile groups of households ranked by equivalised disposable income											
Number of households											
Bottom	134	98	72	65	16	100	45	63	70	17	68
2nd	141	146	73	51	20	116	36	37	39	20	67
3rd	215	130	56	62	14	67	28	56	35	17	68
4th	157	116	63	94	39	43	32	78	33	25	68
5th	87	100	72	109	49	37	58	100	37	31	68
6th	81	63	79	140	58	24	76	95	31	32	67
7th	56	61	78	168	86	20	65	95	24	27	68
8th	34	44	110	192	79	14	75	78	28	26	68
9th	28	38	125	226	60	7	78	75	22	20	67
Тор	22	31	142	276	50	6	75	50	15	13	68
All households	955	827	870	1 383	471	434	568	727	334	228	6 79
Summary of the effects of tax Average per household (£ per year)	es and b	enefits	s, by ho	useho	ld type						
Original income	3 103	7 711	11 969	24 500	30 818	4 786	24 154	25 463	22 443	30 574	17.20
plus Cash benefits	4 572	6 164	1 772	1 856	2 687		1 977	2 073	4 050	3 614	3 25
Gross income	7 676	13 875	13 740	26 356		10 438	26 130		26 493	34 188	
less Direct taxes&employees'NIC	1 121	1 906	3 126	6 078	6 975		5 924	6 327	5 705	7 386	4 28
Disposable income	6 554	11 969	10 615	20 278	26 531	9 212	20 206		20 788	26 802	
Equivalised disposable income	10 731	11 505	17 401	19 900	17 268	9 278	16 893	14 792	11 969	14 252	15 03
less Indirect taxes	1 163	2 733	2 211	4 097	5 826	2 011	4 128	4 223	4 252	5 866	3 34
Post-tax income	5 391	9 236	8 404	16 181	20 705	7 202	16 078	16 985	16 536	20 936	12 81
plus Benefits in kind	2 051	3 001	660	1 366	3 517	5 002	3 337	5 275	8 892	7 178	3 10
Final income	7 442	12 236	9 064	17 548	24 221	12 204	19 415	22 261	25 428	28 114	15 91

¹ See Appendix 3 for definitions of retired households, adults and children.

Average incomes, taxes and benefits by decile groups of households (ranked by UNADJUSTED disposable income), 1995-96

TABLE 8 (Appendix 1)

	Decile gro	oups of h	ouseholds	ranked by	UNADJ	USTED dis	posable	ncome			Al
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
verage per household (£ per year)											
ecile points (£)	5	170 6	3 757 8	515 10	662	13 164 1	5 888	19 022 2	3 628	30 229	
umber of households in the sample	680	679	680	680	680	679	680	680	679	680	6 797
riginal income (Ages and salaries Inputed income from benefits in kind elf-employment income occupational pensions, annuities Investment income other income otal	444 19 141 291 237 62 1 193	814 9 143 652 276 103 1 995	1 683 21 271 981 430 102 3 488	3 656 27 486 1 417 511 153 6 251	7 158 46 820 1 550 592 231 10 397	11 334 84 1 241 1 586 700 212 15 157	14 771 164 1 601 1 781 766 333 19 416	20 370 392 1 804 1 389 977 273 25 206	26 438 537 2 618 1 541 1 374 282 32 789	39 807 1 359 8 688 2 303 3 336 639 56 132	12 647 266 1 78 1 349 920 239 17 200
rect benefits in cash ontributory letirement pension Jonemployment benefit ncapacity benefit Vidows' benefits Statutory maternity pay/ Allowance	1 854 34 183 67 3	2 056 22 219 68 3	1 986 41 302 51 0	1 677 35 368 44 7	1 313 36 427 33 12	911 33 314 45 15	719 42 361 29 40	549 32 228 13 45	512 20 161 41 46	407 23 73 - 89	1 196 33 26 33 26
lon-contributory ncome support Child benefit Housing benefits nvalid care allowance Attendance allowance Disability living allowance War pensions Severe disablement allowance ndustrial injury disablement benefit Student maintenance awards Government training schemes Family credit Other non-contributory benefits	544 86 739 8 13 34 - 3 9 23 11 12 31	832 176 1 148 3 66 62 8 14 8 10 10 18 23	1 043 269 1 023 22 113 105 13 20 37 9 56	908 315 780 39 153 213 29 28 21 7 7 128 47	601 341 507 57 109 190 29 59 38 55 15	391 371 220 40 38 140 48 20 16 81 16 78 23	214 399 79 34 40 130 27 25 27 86 13 63	143 411 61 30 26 107 16 29 22 49 39 20 28	140 416 68 35 41 114 9 23 29 72 27 4	6 8 8 32 21 15 10 57 26	488 321 463 28 61 113 20 20 22 54 17 53
otal cash benefits	3 654	4 744	5 177	4 872	4 025	2 800	2 338	1 847	1 780	1 272	3 25
oss income	4 847	6 739	8 665	11 122	14 422	17 957	21 754	27 053	34 569	57 404	20 45
ect taxes and Employees' NIC come tax ss: Tax relief at source¹ mployees' N I contributions cal taxes² otal	576 25 33 546 1 130	247 24 47 558 828	395 36 109 583 1 051	781 57 246 598 1 569	1 451 89 495 614 2 470	2 073 130 778 671 3 391	2 834 175 1 035 682 4 375	3 931 214 1 421 725 5 863	5 635 231 1 759 808 7 971	262	2 92 12 81 67 4 28
sposable income	3 717	5 911	7 614	9 554	11 952	14 565	17 379	21 190	26 598	43 177	16 16
direct taxes axes on final goods and services AT ruty on tobacco buty on beer and cider ruty on spirits ruty on hydrocarbon oils rehicle excise duty relevision licences ramp duty on house purchase rutting taxes rossil fuel levy ramelot National lottery fund	434 164 26 7 29 80 33 70 5 16 25 15 23	552 228 34 10 38 91 41 69 3 21 37 16 33 8	680 265 49 11 47 136 57 73 4 27 40 17 39	904 296 66 18 57 212 80 76 6 33 360 19 51	1 072 374 100 20 66 252 92 80 7 7 39 73 20 59 21		1 595 351 133 30 87 396 143 82 17 58 70 22 76	327 148 38 91 439 144 84 24 63 83 24	2 167 336 173 58 124 516 162 84 35 75 90 25 82	210 98 133 571 187 85 70 100 87 27 71	1 338 299 100 3: 7, 302 100 7, 11, 44 6: 22
Itermediate taxes Commercial and industrial rates Employers' NI contributions Outy on hydrocarbon oils Vehicle excise duty Other	79 103 55 9 51	92 119 64 10 58	112 146 79 12 72	142 185 99 16 91	166 215 114 18 107		239 309 158 25 155	353 181 30	337 437 217 36 212	593 297 50	21/ 27: 14/ 2/ 13/
otal indirect taxes	1 239	1 523	1 877	2 426	2 898	3 459	3 976	4 369	5 201	6 503	3 34
st-tax income	2 479	4 388	5 736	7 128	9 054	11 107	13 403	16 821	21 397	36 674	12 81
enefits in kind ducation ational health service ousing subsidy ail travel subsidy us travel subsidy chool meals and welfare milk	319 1 512 70 15 32 13 1 962	574 1 708 99 14 37 40 2 473	868 1 844 86 19 38 74 2 928	1 251 1 764 85 27 32 60 3 219	1 383 1 650 61 37 29 39 3 199	1 590 33 36 21 21	19 41 19 6	1 595 16 56 18	1 759 1 660 12 85 15 7 3 539	1 686 6 164 6 16 7 -1	1 28 1 66 4 4 2 2 3 10
inal income	4 440	6 861	8 664	10 347			16 822		24 936		15 91

On mortgage interest and life assurance premiums.
 Gross Council tax (net of transitional relief), Rates and net Water charges.

Cross-tabulation of households ranked by disposable income, unadjusted and equivalised, 1995-96

TABLE 9 (Appendix 1)

(i) Quintile groups	Quintile groups of equivalised disposable income										
	E	Bottom		2nd		3rd	41	th	Тор		house holds
Number of households											
Quintile groups of unadjusted disposable income											
Bottom		804		509		46		-	-		1 359
2nd		445		466	4	296	15	53	-		1 36
3rd		102		297	į	567	25	51	142		1 35
4th		8		86	(386	60)6	274		1 36
Тор		-		2		64	35	50	943		1 35
All households		1 359	1	360	1 3	359	1 36	60	1 359		6 79
(ii) Decile groups	Decile gro	oups of e	quivalise 3rd	ed dispos	sable inco	ome 6th	7th	8th	9th	Top	A house hold:
Number of households				- 12.1							
Decile groups of unadjusted disposable income											
	336	217	127	-	-	-	-	-	-	-	68
disposable income	164	217 87	158	- 224	- 46	-	- -	-	- -	-	67
disposable income Bottom			158 120	13		- - 123	- - -	- - -	- - -	-	67 68
disposable income Bottom 2nd	164 94 58	87 213 80	158 120 130	13 203	46 117 14	42	134	- - - 19	- - - -		67 68 68
disposable income Bottom 2nd 3rd	164 94	87 213	158 120	13	46 117			- - - 19 125	- - - - 45	-	67 68 68
disposable income Bottom 2nd 3rd 4th	164 94 58	87 213 80	158 120 130	13 203	46 117 14	42 55 197	134 5 119	125 2	97	- - -	679 689 689 689
disposable income Bottom 2nd 3rd 4th 5th	164 94 58 18	87 213 80 53 23 4	158 120 130 87 35 20	13 203 68 107 50	46 117 14 224 91 122	42 55 197 112	134 5 119 163	125 2 131	97 14	- - - 63	679 689 689 689 679 689
disposable income Bottom 2nd 3rd 4th 5th	164 94 58 18	87 213 80 53	158 120 130 87 35 20 2	13 203 68 107 50 14	46 117 14 224 91 122 47	42 55 197 112 105	134 5 119 163 137	125 2 131 175	97 14 142	- - - 63 55	67 68 68 68 67 68 68
disposable income Bottom 2nd 3rd 4th 5th 6th 7th	164 94 58 18	87 213 80 53 23 4	158 120 130 87 35 20	13 203 68 107 50	46 117 14 224 91 122 47 18	42 55 197 112 105 40	134 5 119 163 137 106	125 2 131 175 164	97 14 142 213	- - 63 55 136	688 688 688 688 688 688
disposable income Bottom 2nd 3rd 4th 5th 6th 7th 8th	164 94 58 18	87 213 80 53 23 4 2	158 120 130 87 35 20 2	13 203 68 107 50 14	46 117 14 224 91 122 47	42 55 197 112 105	134 5 119 163 137	125 2 131 175	97 14 142	- - - 63 55	679 689 689 679 689 689

APPENDIX 2

Trends in income distribution, 1977-1995-96

CONTENTS

	Table
Percentage shares of original, gross, disposable and post-tax income by quintile group of households, 1977-1995-96	1
Gini coefficients for the distribution of income at each stage of the tax-benefit system, 1977-1995-96	2

This section gives Gini coefficients and shares of income for 1977 to 1995-96. As was noted in the Introduction, it is not possible to produce a fully consistent time series because of changes in methodology and definition. Many of these changes, like the inclusion of the income from company cars since 1990, improve the quality of the results but previous data cannot be reproduced on the same consistent basis. However, Gini coefficients and shares of income are relatively robust and can be used to shed light on broad trends in income distribution. The Department of Social Security publication, Households Below Average Income 1979 - 1993/94 (HMSO), contains more detailed data for comparison of incomes over time.

Percentage shares of total original, gross, disposable and post-tax incomes by quintile groups of households¹, 1977 to 1991, 1993-94, 1994-95 and 1995-96

TABLE 1 (Appendix 2)

	1977	1979	1981	1983	1985	1987	1989	1991²	1993-94³	1994-95³	1995-1996³
Equivalised original income											
Quintile group											
Bottom	3.6	2.4	2.9	3.0	2.5	2.1	2.0	2.0	2.3	2.4	2.6
2nd	10	10	9	8	7	7	7	7	6	6	7
3rd	18 26	18 27	17 26	17 26	17 27	16 25	16 26	16 26	14 25	15 25	15
4th Top	43	43	46	47	47	50	49	50	52 52	∠5 51	25 50
•											
All households	100	100	100	100	100	100	100	100	100	100	100
Equivalised gross income											
Quintile group											
Bottom	8.9	8.5	8.4	8.5	8.3	7.5	7.1	6.7	7.1	7.2	7.4
2nd	13	13	12	12	12	11	11	10	11	11	11
3rd	18	18	17	17	17	16	16	16	16	16	16
4th	24 37	24 37	23 39	23 39	24 40	23 43	23 42	23 44	23 44	23 43	23
Тор										43	43
All households	100	100	100	100	100	100	100	100	100	100	100
Equivalised disposable incon	ne										
Quintile group	0.7	0.4	2.0	0.5	2.0	0.0	7.0	7.0			7.0
Bottom	9.7	9.4	9.3	9.5	9.2	8.2	7.6	7.2	7.7	7.9	7.9
2nd	14	13 18	13 17	13	13 17	12 16	12 17	11 16	12 16	12	12
3rd 4th	18 23	23	23	17 23	23	23	23	23	23	16 23	17 23
Тор	36	36	38	38	38	41	41	42	42	41	40
All households	100	100	100	100	100	100	100	100	100	100	100
Equivalised post-tax income											
Quintile group											
Bottom	9.4	9.5	9.0	8.9	8.6	7.6	6.9	6.5	6.8	7.0	6.9
2nd	14	13	13	13	13	12	11	11	11	11	12
3rd	17	18	17	17	17	16	16	16	16	16	16
4th	23	23	22	22	23	22	23	23	22	22	23
Тор	37	37	39	39	39	43	43	44	44	43	43

¹ Ranked by equivalised disposable income.

Gini coefficients for the distribution of income at each stage of the tax-benefit system, 1977 to 1991, 1993-94,1994-95 and 1995-96

TABLE 2 (Appendix 2)

	1977	1979	1981	1983	1985	1987	1989	19911	1993-94²	1994-95 ²	1995-1996²
Gini coefficients (per cent)											
Equivalised original income	43	44	46	48	49	51	50	51	54	53	52
Equivalised gross income	29	30	31	32	32	36	36	37	37	37	36
Equivalised disposable income	27	27	28	28	29	33	34	35	34	33	33
Equivalised post-tax income	29	29	31	31	32	36	37	39	38	37	37

² Includes Company car benefit.

³ Includes Company car benefit and beneficial house purchase loans from employers.

¹ Includes Company car benefit.
2 Includes Company car benefit and beneficial house purchase loans from employers.

APPENDIX 3

METHODOLOGY AND DEFINITIONS

The allocation of government expenditure and its financing

1. There are considerable difficulties in moving from the aggregates of government expenditure and financing published in the United Kingdom National Accounts - the ONS Blue Book - to apportioning taxes and benefits to individual households. We can obtain information about the types of household that receive cash benefits and pay direct taxes through surveys such as the Family Expenditure Survey (FES). From the replies respondents give to questions on their expenditure we can impute their payments of indirect taxes, and from information they supply about such factors as their ages and number of children in the household we can estimate the average costs of providing them with social services, such as health and education. But there are other kinds of financing, such as corporation tax and government receipts from public corporations: no attempt is made in this analysis to apportion them to households because it would be too difficult. Similarly, there are other items of government expenditure, such as capital expenditure and expenditure on defence and on the maintenance of law and order, for which there is no clear conceptual basis for allocation, or for which we do not in any event have sufficient information to make an allocation. In all. 59 per cent of government financing (including the Borrowing Requirement) and 55 per cent of expenditure are allocated to households in this analysis.

Family Expenditure Survey (FES)

- 2. The estimates in this article are based mainly on data derived from the FES. The FES is an annual survey of the expenditure and income of private households. People living in hotels, lodging houses, and in institutions such as old peoples' homes are excluded. Each person aged 16 and over keeps a full record of payments made during 14 consecutive days and answers questions about hire purchase and other payments. The respondents also give detailed information, where appropriate, about income (including cash benefits received from the state) and payments of income tax. Information on age, occupation, education received, family composition and housing tenure is also obtained. The survey covers the whole 12 month period.
- 3. One of the main purposes of the FES is to produce information on household expenditure patterns which is used to derive the weights for the index of retail prices. The fieldwork is undertaken by the Social Survey Division of ONS and by the Northern Ireland Statistics and Research Agency. The Family Expenditure Survey Report for 1995-96, containing detailed data on household characteristics, income, and expenditure, was published in October 1996. Details of the survey method are set out in 'The Family Expenditure Survey Handbook' by W F F Kemsley, R U Redpath and M Holmes. Both are published by Her Majesty's Stationery Office.
- 4. The number of households in the United Kingdom responding to the FES in 1995-96 was 6,797 (about 1 in every 3,000 households). The response rate in Great Britain was 66 per cent: the FES in Northern Ireland is done as a separate exercise to the rest of UK, with a larger sampling fraction, and only a proportion of these cases go into the UK analysis. To count as a co-operating household, all members aged 16 and over must fill in the diaries for both weeks and give full details of income etc. The available evidence suggests that households containing a couple with

- non-dependent children, those where the head is self-employed, and those where the head was born outside the United Kingdom, are less likely to co-operate than others (see 'A comparison of the Census characteristics of respondents and non-respondents to the 1991 Family Expenditure Survey by Kate Foster, *Survey Methodology Bulletin*, ONS, No 38. Jan 1996) In addition response in Greater London is noticeably lower than in other areas. However, at present, the results in this article are based on the responses of those households which actually co-operated in the survey and they are not reweighted. This means that some of the figures differ from those produced by other surveys such as the Survey of Personal Incomes from the Inland Revenue.
- 5. The FES is designed primarily as a survey of expenditure on goods and services by households. It has been developed to gather information about the income of household members, and is an important and detailed source of income data. However, no information is collected that would enable a balance sheet of income and expenditure to be drawn up for a household over any particular period. Much expenditure relates to the two-week period after the interview, whereas many income components refer to a much longer period (e.g. investment income over the previous 12 months). FES income does not include proceeds from the sale of assets (e.g. a car) or windfalls such as legacies. But recorded expenditure might reflect these items, as well as the effects of living off savings, using capital or borrowing money. Hence, there is no reason why income and expenditure should balance either for an individual household or even expenditure substantially exceeds measured income for the bottom decile groups of households. Moreover, the difference between income and expenditure is not necessarily a measure of savings or dis-savings.

Unit of analysis

- 6. The basic unit of analysis in the article is the household, and not the family, individual or benefit unit. A household is defined in the FES as comprising people who live at the same address and who share common catering for at least one meal a day. Spending on many items, particularly on food, housing, fuel and light, is largely joint spending by the members of the household. Without further information or assumptions it is difficult to apportion indirect taxes between individuals or other sub-divisions of households.
- 7. In classifying the households into various types, a **child** (i.e. a dependant) is defined as:
 - either aged under 16
 - or aged 16, 17 or 18 not married, and receiving fulltime non-advanced further education.

[The definition used in the pre-1987 articles was a person aged under 16].

Most of the 'extra' adults in households with at least three adults are sons or daughters of the head of household rather than retired people.

- 8. A retired household is defined as one where the combined income of retired members amounts to at least half the total gross income of the household, where a retired person is defined as anyone who describes themselves as 'retired' or anyone over minimum NI pension age describing themselves as 'unoccupied' or 'sick or injured but not intending to seek work'.
- By no means all retired people are in retired households: about one in five households comprising three or more adults contain retired people, for example, and households comprising one retired and one non-retired adult are often classified as nonretired.
- 10. The sample households have been classified according to their compositions at the time of the interview. This classification is sensible for the vast majority of households, but it can be misleading for the very small number of cases (41 in 1995-96) where a spouse is absent from the household at the time of interview. The absent spouse may well be working away from home (e.g. on an oil rig), or living separately but contributing financially to the household's upkeep. These contributions would be picked up as part of the household's original income. Also, it is likely that some households will have changed their composition during the year.
- 11. Economically active people comprise persons aged 16 or over who, at the time of interview, were:
 - (a) employees at work,
 - (b) employees temporarily away from work through illness, temporary lay-off, industrial action etc.
 - (c) on government training schemes,
 - (d) self-employed,
 - (e) not in employment but who had sought work within the last four weeks, or were waiting to start a job already obtained.

Income: redistributive stages

12. Stage one:

Original income plus cash benefits = Gross income.

Stage two:

Gross income minus income tax, employees' National Insurance contributions and local taxes (see paragraph 21 below) = Disposable income.

Stage three:

Disposable income minus indirect taxes = Post-tax income.

Stage four:

Post-tax income plus 'benefits in kind' = Final income.

13. The starting point of the analysis is **original income**. This is the annualised income in cash of all members of the household before the deduction of taxes or the addition of any state benefits. It includes income from employment, self-employment, investment income, occupational pensions and annuities. The term "annualised" rather than "annual" is used advisedly. For instance, annualised income from a respondent's "main job" is not current wage or salary multiplied up to an annual value; nor is it the sum of income from this source in the twelve month period prior to interview. Rather it is an estimate of such income expressed at an annual rate based on the respondent's assessment of his "normal" wage or salary subject to his current employment

status. Furthermore, to avoid double counting and to make it consistent with the estimate of income from cash benefits (see paragraph 19), this annualised estimate has to be "abated" for the number of weeks likely to be lost due to unemployment, sickness, etc. This figure is taken as the number of weeks so lost in the twelve months prior to interview. It should be noted that regardless of whether the respondent is currently working or unemployed the treatment is essentially the same, i.e. normal gross wage or salary expressed at an annual rate abated as required. In all of this the crucial determining role of current employment status should also be noted. Thus no employment income would be assigned to a respondent whose employment status had recently become retired or unoccupied even though he or she may have worked for most of the twelve months prior to interview.

- 14. About 98 per cent of original income comes from earnings, occupational pensions (including annuities) and investment income. The tiny bit remaining comes from a variety of sources: trade union benefits, income of children under 16, private scholarships, earnings as a mail order agent or baby-sitter, regular allowance from a non-spouse, allowance from an absent spouse and the imputed value of rent-free accommodation. Households living in rent-free dwellings are each assigned an imputed income. This is counted as employment income if the tenancy depends on the job.
- 15. In addition to salary, many employees receive as part of their income fringe benefits such as company cars, private medical insurance and beneficial loans. Until recently, these benefits were not allocated to individual households as the information was not available in the FES. However, the company car benefit, together with the benefit from fuel for personal use, has been included in the analysis since 1990. This is by far the most important fringe benefit accounting for over two thirds of all taxable fringe benefits according to Inland Revenue statistics. The benefit is taken to be the taxable income in accordance with Inland Revenue scale charges. Inland Revenue Statistics 1996 (HMSO) contains more detailed information on taxable fringe benefits and their impact on individuals. Although for those earning below £8,500 per year the benefit is not taxable, benefit has been allocated to all those with a company car regardless of the level of earnings. The calculation of this benefit is based primarily on the car price as reported in the FES. In any given year the total amount of benefit will depend on the level of scale charges for tax purposes as well as the numbers and prices of vehicles in the FES.
- 16. The benefit of subsidised loans from employers for house purchase has been allocated, since the 1992 analysis. The benefit is taken to be the difference between the interest payments on such loans as reported in the FES and the interest payments that would have been payable at the ruling market rate of interest.
- 17. The next stage of the analysis is to add cash benefits to original income to obtain **gross income**.

This is slightly different from the 'gross normal weekly income' used in the FES Report. Cash benefits include:

Contributory:

Retirement pension, unemployment benefits, incapacity benefit, widows' benefits, and statutory maternity pay.

Non-contributory:

Income support, child benefit, housing benefits, invalid care allowance, attendance allowance, disability living allowance,

disability working allowance, war pensions, severe disablement allowance, industrial injury disablement benefits, family credit, old persons pension, Christmas bonus for pensioners, government training scheme allowances (YTS etc.), student maintenance awards.

- 18. Statutory Maternity Pay is classified as a cash benefit even though it is paid through the employer.
- 19. Income from short-term benefits is taken as the product of the last weekly payment and the number of weeks the benefit was received in the 12 months prior to interview. Income from longterm benefits, and from housing benefits, is based on current rates.
- 20. Income tax, local taxes and employees' and self-employed contributions to National Insurance and National Health services are then deducted to give disposable income. Taxes on capital, such as capital gains tax and inheritance tax, are not included in these deductions because there is no clear conceptual basis for doing so, and the relevant data is not available from the FES.
- 21. The figures for local taxes include:

council tax (for households in Great Britain), domestic rates (for households in Northern Ireland), and charges made by water authorities for water, environmental and sewerage services.

Council tax is shown after deduction of transitional relief and discounts to reduce or remove the personal element of the tax (e.g. the discount of 25% for single person households). All local taxes are shown gross of rebates. These rebates are included as part of housing benefits.

[In pre-1987 articles, domestic rates were included in the 'indirect' tax category. Since then, they have been deducted in the derivation of disposable income in anticipation of their replacement by the community charge. The National Accounts system, which strongly influences this article, shows the community charge/council tax as a deduction before disposable income is produced.]

- 22. The tax estimates are based on the amount deducted from the last payments of employment income and pensions, and on the amount paid in the last 12 months in respect of income from self-employment, interest, dividends and rent. The income tax payments recorded will therefore take account of a household's tax allowances, with the exception of tax relief obtained in this way 'at source'. In 1995-96 there were two types of tax relief obtained in this way: mortgage interest relief and life assurance premium relief. Where households are eligible for these reliefs imputations are made and deducted from recorded income tax payments. In the case of mortgage interest relief obtained through the MIRAS scheme, which was introduced in April 1983, these imputations are based on the interest component of the latest mortgage repayment.
- 23. The next step is to deduct indirect taxes to give **post-tax income**. Indirect tax on final consumer goods and services include:

Duties on alcoholic drinks, tobacco, petrol, oil, betting, etc. Value Added Tax (VAT)
Customs (import) duties
Motor vehicle duties
Air passenger duty
Insurance premium tax

Driving licenses Television licenses Stamp duties Gas levy Fossil fuel levy

Camelot: payments to National Lottery Distribution Fund

- 24. Taxes levied on final goods and services are assumed to be fully incident on the consumer, and can be imputed from a household's FES expenditure record. For example, the amount of VAT which is paid by the household is calculated from the household's total expenditure on goods and services subject to VAT.
- 25. VAT affects the prices of second-hand cars and is therefore assumed to be incident on the purchasers of such cars as well as on the purchasers of new cars. In allocating taxes, expenditures recorded in the FES on alcoholic drink, tobacco, ice cream, soft drinks and confectionery are grossed up to allow for the known under-recording of these items in the sample. The true expenditure in each case is assumed to be proportional to the recorded expenditure. This approach has its drawbacks because there is some evidence to suggest that heavy drinkers, for example, are not picked up by the FES.
- 26. The incidence of stamp duty on house purchase on an owner-occupying household has been taken as the product of the hypothetical duty payable on buying their current dwelling (estimated from valuations given in the FES) and the probability of a household of that type moving in a given year (estimated from the General Household Survey).
- 27. Indirect taxes on intermediate goods and services include:

Rates on commercial and industrial property
Motor vehicle duties
Duties on hydrocarbon oils
Employers' contributions to National Insurance, the National
Health Service, the industrial injuries fund and the redundancy
payments scheme
Customs (import) duties
Stamp duties
VAT

- 28. These are taxes that fall on goods and services purchased by industry. Only the elements attributable to the production of subsequent goods and services for final consumption by the UK personal sector are allocated in the article, being assumed to be fully shifted to the consumer. Their allocations between different categories of consumers' expenditure are based on the relation between intermediate production and final consumption using estimated input-output techniques. This process is not an exact science, and many assumptions have to be made. Some analyses, e.g. that by Dilnot, Kay and Keen 'Allocating Taxes to Households: A Methodology', suggest that the taxes could be progressive rather than regressive if one were to use different incidence assumptions.
- 29. For Table G of the main article, we have constructed a measure of expenditure on goods and services which is similar to that used in the Consumers' Expenditure part of the National Accounts except that mortgage interest payments are included as a proxy for imputed rent "payments" for owner-occupiers. Savings, investments, superannuation contributions and capital repayments on mortgages are excluded as well as payments of local taxes. The expenditures on alcohol, tobacco and confectionery have been grossed up to correspond to the grossed-up indirect tax amounts described in paragraph 25 above.

30. Finally, we add those notional benefits in kind provided to households by government for which there is a reasonable basis for allocation to households, to obtain **final income**. The benefits in kind allocated are:

State education
School meals and welfare milk
National Health service
Housing subsidy
Railway travel subsidy
Bus travel subsidy (including concessionary fares schemes)

- 31. Education benefit is estimated by the Department of Education and Employment as the cost per pupil or student in special schools, primary and secondary schools, universities, and other further education establishments. The value of the benefits attributed to a household depends on the number of people in the household recorded in the FES as receiving each kind of state education (students away from the household are excluded). No benefit is allocated for pupils attending private schools.
- 32. The value of school meals and other welfare foods is based on their costs to the public authorities. Any payment by the individual household is subtracted to arrive at a net contribution.
- 33. Data are available on the average cost to the Exchequer of providing the various types of health care hospital inpatient/ outpatient care, GP consultations, dental services, etc. Each individual in the FES is allocated a benefit from the National Health Service according to the estimated average use made of these various types of health service by people of the same age and sex, and according to the total cost of providing those services. The benefit from maternity services is assigned separately to those households containing children under the age of 12 months. No allowance is made for the use of private health care services.
- 34. In this article public sector tenants are defined to include the tenants of local authorities, New Town Corporations, the Scottish Special Housing Association (SSHA), Northern Ireland Housing Executive (NIHE) and housing associations. The total housing subsidy includes the contribution from central government to the housing revenue accounts of local authorities: and grants paid to the New Town Corporations, the SSHA, the NIHE and housing associations. Within Greater London, the rest of England, Wales, Scotland and Northern Ireland each public sector tenant has been allocated a share of the region's total relevant subsidy based on the size of the dwelling. Housing subsidy does not include mortgage interest tax relief, rent rebates and allowances or local tax rebates included in housing benefits.
- 35. The rail travel subsidies allocated are those to British Rail passenger operations and the London Underground. Figures for rail travel subsidy for 1994-95 onwards may not be strictly comparable with those for previous years as the arrangements for the payment of government grants to British Rail were changed fundamentally as from April 1994. The subsidy allocated in this analysis is based on the payment of the Office of Passenger Rail Franchising support grant. The subsidy to London and South East services is allocated to households living in the area and subsidies to provincial services to households living outside the South East, in proportion to households' expenditure on rail fares as recorded in the FES. In making these allocations allowances are made for the use of rail travel by the business sector, tourists and the institutional part of the personal sector.

- 36. In this article, bus travel subsidy covers both the cost of concessionary travel schemes for senior citizens and others, and subsidies to operators. Separate allocations are made for Greater London, the other metropolitan areas and the rest of the United Kingdom. The subsidy is divided between households according to recorded expenditure on bus travel and the types of concessionary passes held.
- 37. We must emphasise that the analysis in this article provides only a very rough guide to the kinds of household which benefit from government expenditure, and by how much, and to those which finance it. Apart from the fact that large parts of expenditure and receipts are not allocated, the criteria used both to allocate taxes and to value and apportion benefits to individual households could be regarded as too simplistic. For example, the lack of data forces us to assume that the incidence of direct taxes falls on the individual from whose income the tax is deducted. This implies that the benefit of tax relief for mortgage interest, for example, accrues directly to the taxpayer rather than to some other party, for instance, the vendor of the land. It also implies that the working population is not able to pass the cost of the direct tax back to employers through lower profits, or to consumers through higher prices. And, in allocating indirect taxes we assume that the part of the tax falling on consumers' expenditure is borne by the households which buy the item or the service taxed, whereas in reality the incidence of the tax is spread by pricing policies and probably falls in varying proportions on the producers of a good or service, on their employees, on the buyer, and on the producers and consumers of other goods and services. Another example is that we know only an estimate of the total financial cost of providing benefits such as education, and so we have to treat that cost as if it measured the benefit which accrues to recipients of the service. In fact, the value the recipients themselves place on the service may be very different to the cost of providing it: moreover, there may be households in the community, other than the immediate beneficiaries, who receive a benefit indirectly from the general provision of the service.

Equivalence scale

- 38. The equivalence scale used in this analysis is the McClements scale (before housing costs are deducted). The scales (separate ones for before and after housing costs) were developed by Dr L D McClements at the Department of Health and Social Security (DHSS) in the mid-seventies, based on expenditure data from the 1971 and 1972 FES. They are based on the assumption that it is possible to estimate equivalence scales from people's spending behaviour as recorded in the FES without making any specific assumption about the criteria for equivalence. These scales are in regular use and an analysis by Banks and Johnson ('Children and Household Living Standards', IFS, 1993) suggests that the scales are as valid now as when they were developed. The scales are regarded as plausible and they are well within the range of equivalence scales developed at different times in a number of countries. Hence their use is fully justified for broad statistical standardisation.
- 39. The equivalence values are given below:

Type of household member	Equivalence value
a. married head of household (i.e. a married couple of	1.00
2 adults)	1.00
1st additional adult	0.42
2nd (or more) additional adult	0.36 (per adult)

b. single head of household	
(i.e. 1 adult)	0.61
1st additional adult).46
2nd additional adult).42
3rd (or more) additional adult	0.36 (per adult)

c. Child aged:

16-18		0.36
13-15		0.27
11-12	-	0.25
8-10		0.23
5-7		0.21
2-4		0.18
Under 2		0.09

The values for each household member are added together to give the total equivalence number for that household. This number is then divided into the disposable income for that household to give **equivalised disposable income**. For example, a household has a married couple with 2 children (aged 6 and 9) plus one adult lodger. The household's equivalence number is 1.0 + 0.21 + 0.23 + 0.42 = 1.86. The household's disposable income is £20,000, and so its equivalence disposable income is £10,753 (=£20,000/1.86).

40. This quantity is used to produce the single ranking used in all the tables in this article (apart from the Gini coefficients which have to be ranked afresh for each different definition of income).

[In pre-1987 articles, three types of ranking were used; the main one was using original income but gross income and disposable income were also used. In addition, the tables showing income shares were re-ranked for each separate income measure].

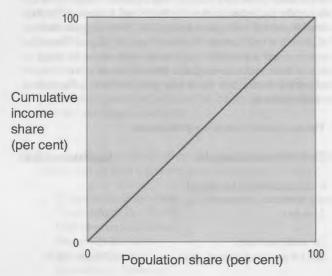
It is important to note that most monetary values shown in the article are ordinary (i.e. un-equivalised) £ a year, not equivalised £ a year. Where equivalised £ a year do appear (e.g. the quintile points in Table 3 of Appendix 1), they are shown in *italics*.

Gini coefficient

41. The Gini coefficient is the most widely used summary measure of the degree of inequality in an income distribution. It can more

Diagram A

Complete income equality



easily be understood by considering a Lorenz curve of the income distribution, (see Diagram B) i.e. a graph of the cumulative income share against the cumulative share of households. The curve representing complete equality of income is thus a diagonal line while complete inequality (with only one recipient of income) is represented by a curve comprising the horizontal axis and the right-hand vertical axis (see Diagram A). The area between the Lorenz curve and the diagonal line of complete equality, as a proportion of the triangular area between the curves of complete equality and inequality, gives the value of the Gini coefficient. Thus a distribution of perfectly equal incomes has a Gini coefficient of zero; as inequality increases (and the Lorenz curve bellies out), so does the Gini coefficient until, with complete inequality, it reaches its maximum value of 1 (or 100 per cent).

42. To calculate the Gini coefficient for an income distribution, the first step is to rank that distribution in ascending order. All the Gini coefficients shown in this article are based on distributions of equivalised income e.g. the coefficient for original income is calculated after dividing the original income for all the households by their appropriate equivalence values.

[In pre-1987 articles, no such equivalisation was used.]

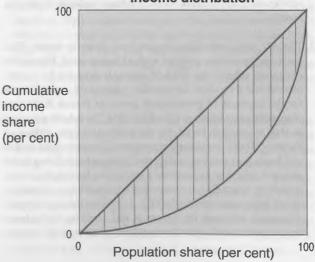
43. Strictly speaking, one could argue that the equivalence scales used here are only applicable to disposable income because this is the only income measure relating directly to spending power. Since the scales are often applied, in practice, to other income measures, we are content to use them to equivalise original, gross and post-tax income for the purpose of producing Gini coefficients (and in the tables giving percentage shares of total income). However, we do not think it is appropriate to equivalise the final income measure because this contains notional income from benefits in kind (e.g. state education): the equivalence scales used in this article are based on actual household spending and do not, therefore, apply to such items as notional income.

Sampling errors and reliability

44. As the FES is a sample survey, data from it will differ in varying degrees from those of all households in the UK. The degree of difference will depend on how widely particular categories of income and expenditure vary between households. This 'sampling error' is smallest in relation to large groups of households and measures that do not vary greatly between

Diagram B

Lorenz curve for a typical income distribution



households. Conversely, it is largest for small groups of households, and for measures that vary considerably between households. A broad numerical measure of the amount of variability is provided by the quantity known as the standard error.

45. It is difficult to calculate these standard errors exactly because of the multi-stage design of the FES, but we have made a good approximation by combining the simple random formula with the appropriate design factor from the FES analysis. [The design factor is the ratio of the standard error using the detailed formula that takes account of the full complexity of the sample design to the standard error using the simple random sample formula.] The most appropriate design factor from the FES work is for 'gross normal weekly household income'. The standard error of the mean for N households is given by:

(design factor) * S/√ N

where the design factor is 1.31 for 1995-96, and S² is the estimate of the population variance.

46. The standard error for disposable income of all households is less than 2 per cent of the mean but, for the less frequent household types, e.g. 1 adult with children and 3 or more adults with children, it is about 5 per cent of the mean.

The standard errors can be used to give an idea of the reliability of a mean by quoting a confidence interval of the form:

estimate of mean ± (1.96 * standard error)

where the factor 1.96 corresponds to the 95% confidence interval.

47. The standard errors for the household types are larger than for the whole sample, mainly because the sample sizes concerned are smaller. For quantile groups of given household types, the sample sizes are of course smaller still, which would tend to increase sampling variability. On the other hand, the income values are by definition in a narrower range which would tend to reduce the sampling error. Precise estimates of standard errors for averages for quantile groups are complicated to produce. As well as the variability of the observations between the quantile points, we should also take account of the randomness which exists because the sample quantile points are themselves subject to random variation. We have used a formula for the asymptotic variance of a 'randomly trimmed' mean. This formula gives a good approximation where the total sample size is around 1,000 (when the variance is under-estimated by about 2 per cent on average), and a reasonable approximation for samples of 100-500 (when the variance is under-estimated by about 5 per cent on average). The formula for the variance of a mean (x) calculated between two sample percentiles, Q_1 and Q_2 , corresponding to proportions p₁ and p₂ is:

$$\frac{S^2 + p_{\perp}(x - Q_1)^2 + (1 - p_2)(Q_2 - x)^2 + \frac{p_{\perp}(1 - p_2)}{(p_2 - p_1)}(Q_2 - Q_1)^2}{n(p_2 - p_1)}$$

where S^2 = variance calculated from observations between Q_1 and Q_2 , and n = total sample size.

The square root of this quantity is then multiplied by the design factor (as described in paragraph 46) to give the standard errors.

- 48. The 'complex' standard errors for quintile and decile groups are quite a bit larger than the simple random sample estimates. For the 'all households' group, the standard errors for disposable income for the middle decile groups are about 10 per cent of the mean for the group.
- 49. Detailed tables containing the standard errors for all of the income measures for the different household types and quantile groups are available on request.

Previous articles

- 50. This article is the latest in an annual series. Earlier articles covering the years 1957 to 1986 (using the old methodology) were published in the following issues of Economic Trends: November 1962, February 1964, August 1966, February 1968, 1969, 1970, 1971, 1972, November 1972 and 1973, December 1974, February 1976, December 1976, February 1978, January 1979, 1980, 1981 and 1982, December 1982, November 1983, December 1984, December 1985, July 1986, November 1986, July 1987 and December 1988.
- 51. From 1987 onwards, the articles have used a very different methodology, in particular households are ranked by their equivalised disposable income. Hence the results are completely incompatible with earlier years. These articles were published in the following issues of Economic Trends:

Reference year	<u>Issue</u>
1987	May 1990
1988	March 1991
1989	January 1992
1990	January 1993
1991	May 1993
1992	January 1994
1993	December 1994
1994/5	December 1995

52. The results in all articles are intended to be freestanding: they were not designed for direct comparison with other years except where some limited comparisons were made in the articles. Such comparisons are fraught with difficulty because of changes in definitions e.g. housing benefit in 1983. However, some broader measures like the Gini coefficients are relatively robust and will stand comparison with other years: this year's article gives such a comparison for the years 1977-1995-96. Enquiries should be addressed to Dave Westcott, Social and Regional Division, Office for National Statistics, Zone B2/08, 1 Drummond Gate, London SW1V 2QQ.

Quarterly integrated economic accounts - The United Kingdom approach

Paper presented to a conference on Macro-Economic Statistics in Radenci, Slovenia, 25-27 November 1996 by Graham Jenkinson

1. Introduction (see references 3 and 7)

This paper describes the United Kingdom approach to the compilation of its quarterly integrated economic accounts. The Office for National Statistics is responsible for the compilation of the whole account including the balance of payments accounts.

With a single organisation responsible for the whole account, we can achieve integration and consistency. Integration starts at the data collection level with many surveys conducted from a single business register. GDP is measured in three ways - as the sums of output, expenditure and income components respectively. On an annual basis the three approaches are reconciled using input-output balancing so that there is a single estimate of GDP at both current and constant prices. On a quarterly basis GDP is also estimated on the three separate approaches. Less formal methods are used to reconcile the three estimates to produce a single quarterly estimate of GDP, again at both current and constant prices.

Linked to the GDP estimates there are also full sector accounts for the seven main institutional sectors of the economy. These comprise current, capital and financial accounts together with balance sheets.

Thus the integration of the accounts manifests itself in many ways:

- integration of data sources
- integration of the domestic and balance of payments accounts
- integration of quarterly and annual estimates
- integration of annual GDP with output, expenditure and income components fully reconciled via input-output balancing
- integration of quarterly GDP a single estimate with consistent output, expenditure and income components

- GDP fully integrated with quarterly sector accounts
- estimates of dividend and interest flows fully integrated with the financial balance sheets.

This integration and the process of achieving it leads to better quality accounts as all data sources have to be checked and reconciled. This helps identify problems with data and gives an opportunity to investigate and correct it before publication.

This paper gives an overview of the UK approach and provides references to more detailed sources. It mentions various improvements that have been made and finally looks at future developments.

2. Background

2.1 International standards (see references 5 and 6)

The UK accounts are consistent with the relevant international standards of which the main ones are:

- the United Nations System of National Accounts
- Eurostat's European System of Accounts
- the International Monetary Fund's Balance of Payments Manual

They are also consistent with international classifications. There are some differences of detail partly because our system was established in the late 1950s before the international systems were fully articulated and agreed and partly because our statistics need to meet the policy needs of the UK government and other users. The long-term objective is to reduce these differences.

2.2 Key indicators

Many users of the UK accounts tend to focus on a few key aggregates which are commonly reported in news media. The

headline number widely reported in the press and used in economic discussion is the growth in quarterly seasonally adjusted GDP at factor cost in constant prices. References to the rate of economic growth usually use this number and changes in this rate of growth may lead to adjustments to economic policy. However expert users also focus more widely on the whole accounts and use them to, for example, build economic forecasting models and manage the large London financial markets. GNP at market prices is one of the determinants of the UK's contribution to the European Union's budget.

2.3 Timetables (see reference 3)

During each quarter economic accounts statistics are produced as follows in the weeks after the end of the quarter:

- 3 weeks

 a preliminary estimate of the growth in the volume of
 GDP from the previous quarter based on output information
- 8 weeks
 expenditure, output and income breakdowns of GDP
 showing growth in the latest quarter
- 12 weeks
 full set of economic accounts, including revisions to
 some earlier quarters. In addition to a full breakdown
 of GDP at current and constant prices, the full sector
 accounts and balance of payments accounts are
 published.

The annual input-output balancing takes place when the necessary data is available and is reflected in estimates first published 18 months after the end of the year concerned.

2.4 Revisions policy

The UK operates a revisions policy to limit the number of revisions made to the data and to ensure that revisions are only made when they are economically significant. The policy is currently under review and the rules are operated flexibly. The normal rules are:

- revisions to past periods are only made at the "12 week" stage when the full accounts are published. Revisions are normally allowed to between 1 and 6 past quarters.
- once a year in June annual estimates for the past three completed years can be revised.

- at the same time in June revisions to earlier years may be selectively allowed if they have a significant impact on the economic picture presented.
- also in June quarterly series may be reassessed for several back years to take account of, for example, reestimated seasonal factors

3. Role of input-output (see references 3&4)

In the UK, once sufficient data is available, the output, expenditure and income approaches to GDP are balanced through an annual input-output process. This generally starts just over a year after the end of the year concerned and accounts based on the results are published about 18 months after the end of that year. The input-output balancing process is normally applied in full to that year and the year before it. Thus there will be one provisional full balancing followed, a year later, by a full revision of the balance. Input-output balances for earlier years may be reopened selectively if revisions are allowed but this will be a limited revision rather than a full rebalancing which would be too expensive and time consuming.

In the UK, value added by industry and total value added (ie GDP) are key products of the input-output process. The input-output analysis is carried out for 123 separate industries. For each of these 123 separate industries there is a balance of demand for the products of an industry and the supply produced. Value added from the output side is calculated separately for each industry as the residual between industry outputs and inputs.

The output, expenditure and income approaches to GDP are balanced through the input-output process. In practice, initial estimates from the output, expenditure and income approaches are taken into the input-output framework and initial balances produced. These identify inconsistencies and possible errors. An iterative process then takes place in which compilers adjust and correct their initial estimates in the light of input-output imbalances to achieve a more coherent set of results. After a certain number of iterations the total value added from the three approaches will have converged; it is then fixed.

The balance gives a fully articulated analysis of the transactions in products in the economy. All of the components of output, expenditure and income are reconciled in the building of the tables. The process of producing the balance is used to resolve the inevitable discrepancies in the component data.

4 Compiling quarterly estimates (see reference 1)

4.1 Underlying principles

The most reliable basis for determining the annual current price level of GDP is the input-output process described in the previous section. To supplement this we use the principle that the output approach gives the best short-term estimates of volume change. This is mainly because of the absence from output of highly volatile, harder to measure components such as stockbuilding and company profits. Further, output components tend to be revised less than the other components and are available earlier. Thus although the UK monitors expenditure and income components the published quarterly movements in GDP normally match movements in the total of output components.

4.2 Quarterly GDP balancing process

The process concentrates on constant price estimates because our users are mainly interested in estimates of real growth with the effects of inflation stripped out. The output components are available only as constant price index numbers. The expenditure components are available at both current and constant prices. Finally, the income components are available only at current prices. So that all three approaches can be compared on a common basis, the income components are put on a constant price basis by dividing them by the implied deflators derived from the expenditure approach. Once the constant price estimates have been balanced, consistent current price estimates of the expenditure and income components are derived and published.

The balancing process is designed to reduce inconsistencies in the accounts and to come to a firm view on movements in the key aggregates. The aim is to produce accounts where all three approaches converge on a single estimate of GDP and there are credible explanations for movements in the components. The process consists of three basic stages, scrutiny of the initial estimates, judgemental adjustments and alignment adjustments.

4.2.1 Scrutiny stage

Responsibilities are allocated to individuals for each GDP component. They are responsible for processing and validating the data for that component. At fixed times in the quarter a "balance" is struck showing the aggregates from the three different approaches to GDP. The initial estimates supplied for the balance are best estimates on the basis of source data. At the first stage response rates to statistical inquiries may still be fairly low and

numbers subject to revision. The individual components are aggregated and the resulting overall picture examined.

Typically, income and expenditure figures will show different profiles from output. Different levels of GDP may also emerge from each approach.

There is then a period of scrutiny and validation which includes meetings of key players. The scrutiny of initial estimates is designed to test the plausibility of the estimates and consistency of information across the accounts. For example, output of the construction industry will normally be closely related to the level of investment in buildings.

Additional information from outside surveys and sources is considered in the scrutiny process. This provides a useful alternative view to compare with our own statistics. It may support existing estimates or point to ways of resolving problems and discrepancies.

As an additional mechanism for ensuring consistency across the accounts, estimates based on supply are used to validate estimates of expenditure (demand). A simplified analysis is used based on a recent input-output analysis. Supply (the sum of outputs and imports less exports) is allocated to components of expenditure at a product level. The supply based estimates also provide an alternative source of estimates for some investment components to supplement quarterly survey data.

4.2.2 Judgemental adjustments

After scrutiny of the initial estimates there may still be large discrepancies between the income, expenditure and output approaches. A decision is taken on the movement in GDP which will be published. This takes into account movements in output components in particular, but also movements in expenditure and income components and other information which may be available. Judgemental adjustments may then be made to the component data so that aggregates match the movements in GDP. These adjustments are made to a variety of components and are within the error range of the components. They are also controlled so that they do not remove the integrity and meaning of individual component series.

4.2.3 Alignment adjustments and the calculation of GDP

After these processes, the movements in expenditure and income will still not match exactly that of output. The final balancing step

is the incorporation of mechanically calculated alignment adjustments. These alter the quarterly paths of income and expenditure totals so that they match, as closely as possible, the movements in output without altering annual totals.

In the expenditure analysis, the adjustments are added to stockbuilding and, within the income analysis, to industrial and commercial company profits. Over each calendar year the adjustments sum to zero. The allocation to stockbuilding and profits is under review because, following the establishment of a new inquiry, the error margin on profits is smaller than it used to be.

Total GDP can then be calculated. For those periods covered by an input-output table, GDP is the aligned expenditure and income total. For subsequent periods, GDP is calculated as the average of the aligned income, aligned expenditure and output totals. As the output estimate may be at a different level to the expenditure and income totals, it is rescaled to the level of GDP in the latest input-output year.

The outcome of this process is a GDP estimate which is supported by three separate analyses all adding up to the same total. This meets the user requirement for a single estimate of GDP with consistent supporting income, expenditure and output analyses. The estimate of GDP is the Office for National Statistic's best view of the level and growth in economic activity having considered all the available information.

5. Quarterly Sector Accounts (see reference 7)

In parallel with the preparation of the GDP estimates full quarterly sector accounts are compiled for the current, capital and financial transaction accounts, together with sector balance sheets. There are complete accounts for seven institutional sectors:

- persons
- industrial and commercial companies
- financial companies
- central government
- local authorities
- public corporations
- overseas (equivalent to the balance of payments accounts)

In the financial account there is a further subdivision of financial companies.

The processes used to compile the sector accounts are basically similar to those for GDP described in section 4 above. Each sector and each financial instrument is allocated to an individual statistician and they are responsible for ensuring the complete, accurate and plausible estimation of their series.

The sector accounts draw on information used in the calculation of GDP. The interest and dividend flows between sectors are either obtained from direct sources or are modelled by applying interest rates to the stock of capital assets. These calculations are carried out and then balanced in the derivation of a comprehensive dividends and interest matrix.

The main aim of balancing in the sector accounts, besides ensuring plausibility and internal consistency, is to minimise the mismatch between the sector financial surplus or deficit and the identified borrowing and lending in the financial account. The extent of the mismatch is represented by balancing items. As with GDP there are several steps to the balancing process but with somewhat more reliance on judgemental adjustments as data sources are not as well developed.

The balancing of GDP affects the balancing of the sector accounts and vice versa. For example one influence on the judgemental adjustments applied in the balancing of GDP will be information on which sectors are most out of balance. The final meeting of each quarterly round gives special emphasis to looking at both GDP and sector accounts together before agreeing the final version of the accounts for publication. Key indicators are considered. These include, for example, the personal sector savings ratio and the financial surplus or deficit of companies. These will confirm that the accounts present a credible and explainable picture of the economy.

6. Recent improvements in the accounts (see reference 8)

There has been a continuous programme of improvements to the UK accounts over recent years. These have been helped by some reorganisations of statistical departments in the UK which brought responsibilities for almost all economic statistics within a larger central office now known as the Office for National Statistics. In particular nearly all statistical inquiries to businesses are now conducted by ONS from a recently improved central business register.

Many of the improvements stem from better statistical inquiries with the following key steps:

- a trend towards quarterly statutory inquiries replacing annual or less frequent voluntary inquiries
- improved sampling techniques including larger sample sizes where necessary
- new inquiries to fill gaps or to replace inappropriate administrative or private sector sources
- improved software to process inquiries using consistent best practice
- assistance from accountants to design questionnaires which are clear and easy to complete accurately
- a better business register.

Costs are a major consideration both for ONS and businesses. The current emphasis is on trying to improve procedures so that information can be collected more efficiently and impose lower compliance costs on business.

This availability of improved and faster data has allowed the preparation of better more comprehensive and more integrated accounts more quickly. Until 1992 the sector accounts were prepared and published later than GDP limiting the scope for full quarterly integration. The dividend and interest matrix was also introduced in 1992 but was not fully integrated into the process until 1994. Better computer hardware and software made it possible to take full advantage of the opportunities offered by the improved data.

Measurable signs of the improvements are smaller revisions to first estimates and smaller balancing items in the sector accounts.

7. Future Developments

The main challenge for the immediate future is the full implementation of ESA 1995. The UK has decided to introduce the new ESA in the summer of 1998, a year earlier than required under European legislation. A provisional account on the new basis is planned for the Autumn of 1997.

Other initiatives and research planned or underway include:

- a complete review of the computer and other systems used to compile the accounts. Implementing improvements will make processing easier, more transparent and more secure. Thus it will be possible to have better quality at less staff cost.
- better technical training for all staff
- rebasing of deflators on 1995=100. (UK current practice is to rebase every 5 years, linking the series on different base years together to produce a continuous series.)
- further development of input-output to produce tables at constant prices improving the quality and consistency of deflation
- possibility of quarterly input-output tables
- possibility of annual (rather than the present 5 year steps) chain linking of deflators as recommended in ESA
- explore scope for further improving the balancing process particularly for GDP so that the judgemental adjustments can be explained and controlled better.
- research methods for a more structured approach to balancing based on the accuracy of component series to reduce the role of judgemental adjustments.

8. Conclusions

The UK has in place a system for producing detailed, integrated, timely quarterly economic accounts. The processes lead to products which strive to meet the requirements of users as well as our statutory obligations under European Union legislation. In particular, GDP estimates are supported by income, expenditure and output analyses. Full sector accounts including the balance of payments and financial balance sheets are published within an integrated framework. The UK continues to develop and improve its products to meet the demands of customers. An economic accounts user group has been set up to ensure that there is a close relationship between compilers and users of the accounts.

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INTERNATIONAL COMPARISONS OF GDP PER HEAD OVER TIME

The OECD has recently published in the February edition of "Main Economic Indicators" estimates of GDP per head for each member state. Because new methodology for estimating purchasing power parities (PPPs) was introduced into the UK for the 1995 figures, there is a discontinuity in the time series for the UK. The resulting series, particularly over the period 1990 - 1995 is inconsistent with other UK economic indicators. The ONS has produced an alternative series that overcomes the discontinuity and provides a better indication of the UK's performance relative to other OECD countries over time. The widespread concern with PPPs has led to the setting up of an international review of the methodology.

The level and growth of Gross Domestic Product (GDP) per head of population are the most commonly used measures of a country's economic performance. International comparisons of the growth of GDP per head are relatively straightforward and such comparisons are regularly made by bodies such as the OECD. Comparisons of the level of GDP per head are usually made by expressing figures in a common currency (usually US\$) using purchasing power parities. This is in order to eliminate the differences in price levels between countries. Such comparisons are difficult to make and need to be interpreted with care. In particular, when countries are clustered closely together, year on year changes in a country's ranking in a "league table" may mean very little.

The OECD publishes estimates of the levels of member countries' GDP per head at PPPs each year. In the February issue of "Main Economic Indicators" the OECD has published figures for 1996. These figures are, in the main, projections. This is because most countries have not produced either estimates of GDP or indicators of price movements for 1996. This article does not focus on 1996 but takes as its starting point 1995 and its change with earlier years.

The difficulties with the published figures concern a discontinuity between 1994 and 1995 in the PPPs used by the OECD to construct the estimates of GDP per head for the UK. This discontinuity arises from the introduction in 1995 of a more representative sample for the collection of the price statistics. These statistics are used to measure relative price levels which are the main inputs into the construction of PPPs.

The more representative sample was introduced by ONS because of concerns about whether the previous sample satisfactorily reflected UK price levels in general. In particular, anecdotal evidence borne out by Eurostat, suggested that UK prices as measured in the previous sample were too low relative to other OECD countries. The effect of underestimating prices in the UK

led to an under-estimation of the UK's purchasing power parity and an over-estimation of GDP per head for years up to and including 1994.

When there has been a methodological change the normal practice for ONS is to provide a consistent backward series to allow comparisons to be made over time. However, on this occasion such a series had not been produced.

As a result, the published international GDP per head figures for 1995 at PPPs published by OECD for the UK are not fully comparable with those for earlier years and so cannot be used to make comparisons over time, moreover the published series is also inconsistent with other UK economic data.

The Office for National Statistics has adjusted the figures for 1970 - 1994 to overcome the bias in the series uncovered by the more robust PPPs exchange rate estimate for 1995. An estimate of the bias can be constructed in a number of ways, but there is no method that is obviously superior. The ONS has therefore decided to adopt the approach which is used by the OECD to construct PPPs figures for years before 1990. This introduces consistency of method over all years for the UK. This methodology constructs historic purchasing power parities by projecting the 1990 PPPs through time according to movements in inflation relative to the USA (as measured by the GDP deflators).

The resulting 1970 - 1994 figures for the UK, by adjusting for the discontinuity in the UK figure between 1994 and 1995, provide a more appropriate basis for comparison over time (see table). This new series is consistent with other UK macro-economic data. In particular, it shows UK's economic performance relative to the OECD average improving since 1992. This is in line with UK's faster growth rate over this period relative to the OECD average. ONS has alerted Eurostat and the OECD to these difficulties and notified them of our alternative approach.

The ONS is investigating further the methodologies used to construct purchasing power parities. It is also supporting an international review of the International Comparison Programme, the terms of reference of which have been developed by the United Nations in collaboration with the World Bank, the International Monetary Fund, the OECD and Eurostat. This programme has been instigated because of widespread international concern

about current methodologies for estimating PPPs, a concern shared by the ONS.

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GDP per capita⁽¹⁾⁽²⁾

OECD average=100

	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995
Canada	108	116	118	120	115	111	108	108	108	109
Mexico	38	40	42	39	34	34	42	42	42	38
United States	147	142	140	141	137	135	132	135	136	136
Japan	87	92	96	102	111	115	116	115	113	112
Australia	103	105	102	102	99	97	95	98	99	100
New Zealand	101	103	90	94	83	81	81	85	87	87
Austria	91	99	104	103	104	104	106	106	108	107
Belgium	95	101	104	100	103	104	108	108	108	107
Denmark	106	104	103	109	103	105	104	107	109	111
Finland	86	94	94	98	101	93	85	87	87	92
France	107	110	111	107	108	110	109	104	103	103
Germany	94	94	99	99	100	102	106	103	105	105
Greece	53	61	62	60	57	59	61	62	62	63
Iceland	83	97	112	109	108	108	105	104	103	113
Ireland	56	60	62	63	71	74	78	79	84	89
Italy	90	92	99	99	102	103	104	99	100	100
Luxembourg	121	120	117	122	142	146	152	157	161	162
Netherlands	103	105	103	99	100	99	100	99	100	102
Norway	88	97	107	115	109	112	117	119	117	117
Portugal	47	51	54	51	58	61	62	64	64	64
Spain	67	75	69	67	73	77	76	74	72	73
Sweden	115	116	109	109	106	101	97	94	94	96
Switzerland	154	142	137	133	131	130	129	128	128	128
Turkey	28	30	27	28	29	29	29	31	28	29
UK	93	93	90	91	94	92	88	89	91	92

¹ PPPs underlying UK figures constructed by projecting backwards 1995 PPP adjusting for movements in the GDP deflator relative to the USA.

² The revisions will have an impact on the OECD average which will have a minor impact on other countries' indices

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International economic indicators. Commentary, figures and charts are published monthly.

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