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.

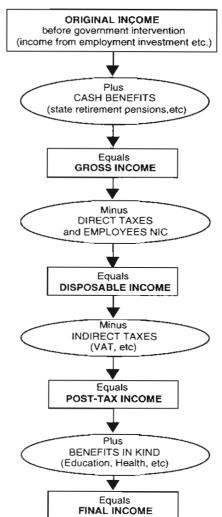
The stages of redistribution of income used in this analysis are shown in Chart 1. Household members receive income from their employment; from occupational pensions; from their investments and from other non-government sources. Total income from these sources constitutes original income. The flow chart 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

	Quintile groups of households ranked by UNADJUSTED disposable income					
	Bottom	2nd	3rd	4th	Тор	All households
Average per household (£ per year)¹				-	_	<u> </u>
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	. з	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 adults⁵	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 equivalised disposable income (disposable income divided by the 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.

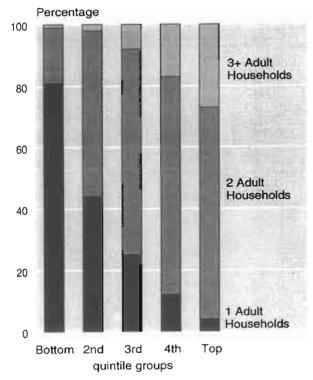
⁴ This group is smaller than the category of "one parent families" because some of these families will be contained in the larger household types.

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*.

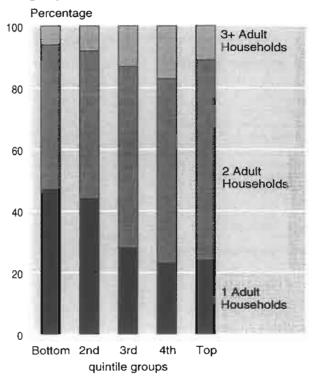
Results for households ranked by equivalised disposable income

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

	Quintile groups of households ranked by EQUIVALISED disposable income					
	Bottom	2nd	3rd	4th	Тор	Al 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

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.

and Council tax transitional relief.

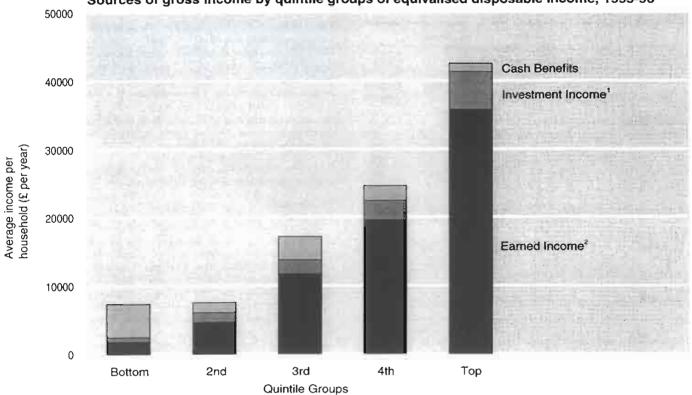
3 Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving non-advanced further education.

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.

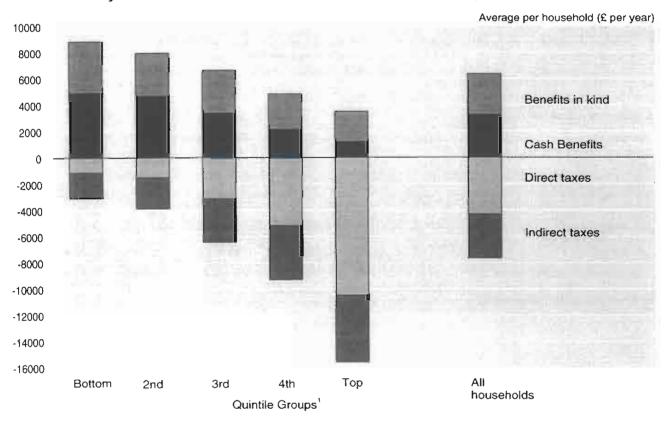
CHART 3

Sources of gross income by quintile groups of equivalised disposable income, 1995-96



- 1. Investment income includes occupational pensions and annuities.
- 2. 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

Bottom

Gini coefficient

(percent)

Top

	income for households ranked by 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							

1.1

32

52

3.2

27

36

Percentage shares of total equivalised

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

2.5

27

37

3.2

25

33

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 II 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

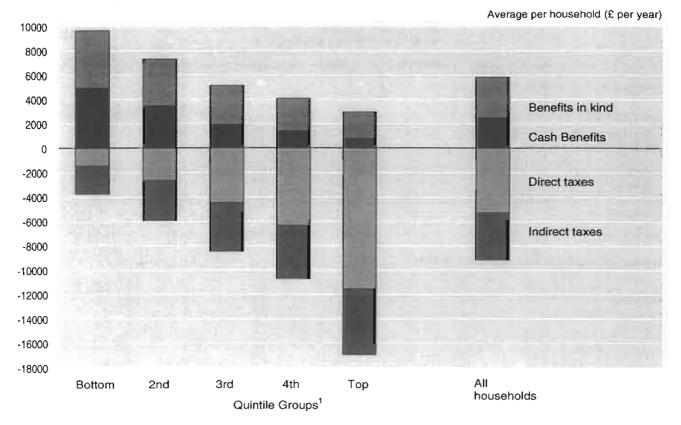
	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per household (£ per year)						
Original income	3 780	11 680	19 630	26 710	45 460	21 450
plus cash benefits	4 960	3 500	1 940	1 400	800	2 520
Gross income	8 740	15 180	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	8.0	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.

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.

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

CHART 5 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

TABLE E		_				
	Quintile househo equivali	All non- retired				
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per househo	ld (£ pe	r year)				
Contributory		405	0.40	040	200	070
Retirement pension	100	400	340	310	220	270
Incapacity benefit	390	430	280	270	90	290
Unemployment benefit		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
- 3						

employees' NIC and Local taxes² as

percentages of gross income for each quintile group of NON-RETIRED households, 1995-96
TABLE F

	Quintile gr household equivalise		All non- retired			
	Bottom	2nd	3rd	4th	Тор	house- holds
Percentages						
Income tax¹ Employees' NIC Local taxes²	7.8 2.0 6.7	9.0 4.3 4.1	12.2 5.3 3.2	14.6 5.4 2.5	18.8 4.4 1.8	14.6 4.6 2.9
Total	16.5	17.4	20.6	22.5	25.0	22.0

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).

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.

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	8.0	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	8.0	8.0	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	and services ¹						
VAT	8.2	8.8	8.8	8.6	8.6	8.6	
Duty on beer and cider	0.6	0.9	8.0	8.0	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	8.0	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	8.0	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

ho	Quintile groups of NON-RETIRED households ranked by equivalised disposable income					
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per househo (£ per year)	old					
Education	2 830	2 160	1 650	1 240	770	1 730
National health service	1 570	1 520	1 470	1 360	1 240	1 430
Housing subsidy ¹	110	60	30	20	0	40
Travel subsidies	50	60	50	70	150	80
School meals and welfare milk	150	30	10	0	0	40
Total	4 710	3 820	3 200	2 690	2 170	3 320
Benefits in kind as a percentage of post-tax	:				_	
income	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 income	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								
Bottom	1.1	2.9	2.9	2.2				
Тор	28	25	24	26				
Gini coefficient								
(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					
	Bottom	2nd	3rd	4th	Top	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 tax ¹	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

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).

White 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

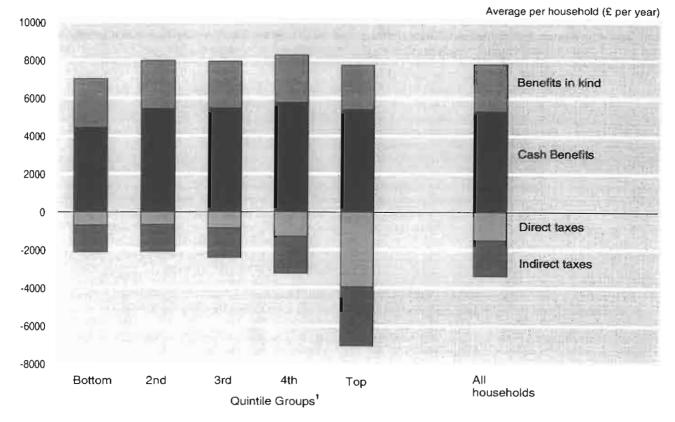
TABLE L

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.

CHART 6
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	1.14	EMP
Unemployed	1.75	UMP
Economically inactive		
Retired	5.21	RET
Permanently sick	11.12	PSK
Total aged 16 or over	2.81	тот
Aged under 16	0.31	CHD
Income Support ²	15.90	IS

¹ Non-household population as a percentage of total population. 2 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

	tment Factor	N A	ЯOI	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	тот	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	ljustment 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	fit UMP	1.3	0.9	69
Invalidity pension and	d			
allowance	PSK	7.0	6.1	87
Other contributory				
benefits	EMP/TOT	2.0	1.7	86
Non-contributory benefits	5	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	<i>5.7</i>	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	sehold sector	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

	Adjustment			ROI as %
	Factor	N A	ROI	of NA
£ billion				
Income tax	TOT	69.9	66.2	95
Life assurance payme	ents TOT	0.1	0.1	105
MIRAS		3.1	3.7	121
Net income tax		66.7	62.3	93
Employees NICs	TOT	18.4	18.4	100
Local taxes1		12.8	13.2	103
Total direct taxes		97.9	93.9	96

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		
	£	% of		£	% o
	million	total		million ———	tota
Allocated expenditure ¹			Allocated financing¹		
Allocated cash benefits			Income tax4	67 450	22.1
			Employees' & self-employed NI contributions	20 180	6.6
Contributory(National Insurance, etc)	00.000	0.0	Council tax	8 990	3.0
Retirement	29 930	9.8	Tours or final sounds and comices		
Widows and guardians	1 020 1 120	0.3 0.4	Taxes on final goods and services VAT	32 400	10.6
Unemployment	340	0.4	Duty on beer	2 480	3.0
Sickness/Statutory sick pay	7 960	2.6	Duty on wines, cider, perry	890	0.3
Invalidity	7 960 460	0.2		1 860	0.6
Maternity/Statutory maternity pay			Duty on spirits		
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 grants²	1 800	0.6	Taxes & NI contributions on		
			intermediate goods & services		
lent 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
		••	Taxes on expenditure not allocated	27 860	9.1
Jnaliocated expenditure			Other taxes		
Other current expenditure	89 020	29.2	Corporation tax	22 400	7.4
Other carrent experiance	00 0-0	23.2	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 receipts ⁵	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

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.

Estimated.

Including concessionary fares expenditure.

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

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 b	y equival	ised dispos	able inco	me	_		All
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
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	
Number of households in the sample	680	679	680	680	680	679	680	680	679	680	6 797
Original income Wages and salaries Imputed income from benefits in kind Self-employment income Occupational pensions, annuities Investment income Other income Total	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	1 375 1 359 689 204	15 913 166 1 424 1 652 733 213 20 102	19 316 417 1 910 1 925 936 294 24 798	640 2 194 1 879 1 399 385	1 137 7 902 2 941 3 881 537	12 647 266 1 781 1 349 920 239 17 203
Direct 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	34 319 24	875 23 245 40 37	740 28 278 53 34	17 148 43	15 69 11	1 198 32 264 39 26
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 11 21 30 80 82 120 52	506 298 731 39 118 199 22 53 12 80 9 81	469 362 455 43 113 249 20 45 19 42 17 54	335 248 32 127 128 44 15 9 80 18	209 296 187 41 73 150 40 38 30 25 23 19	91 276 40 8 40 90 25 13 46 44 15	27 8 14 47 8 22 18 49 9	185 9 3 18 25 21 3 22 23 7	488 321 463 28 61 113 20 23 22 54 17 53 30
Total cash benefits	4 523	5 305	5 032	4 284	3 826	2 894	2 382	1 875	1 310	1 079	3 251
Gross income	6 544	8 136	9 447	12 055	15 692	18 613	22 484	26 673	33 086	51 805	20 454
Direct taxes and Employees' NIC Income tax I	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	141 824 668	2 962 163 1 086 690 4 575	3 934 182 1 307 726 5 785	1 655 766	242 1 961 869	2 922 124 817 673 4 288
Disposable income	5 217	7 198	8 237	10 225	12 989	15 049	17 909	20 888	25 102	38 844	16 166
Equivalised disposable income	4 795	7 097	8 431	9 829	11 535	13 413	15 763	18 705	23 106	37 654	15 033
Indirect taxes Taxes on final goods and services VAT Duty on tobacco Duty on beer and cider Duty on spirits Duty on sypirits Duty on hydrocarbon oils Vehicle excise duty Television ficences 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 13	644 289 52 8 35 135 48 72 3 266 18 38 20	53 18 44	1 009 342 84 18 61 224 23 75 7 36 64 19 51	81 9 43 74 21 65	312 112 26 86 336 120 79 13 51 74 21	1 580 322 131 35 96 385 137 82 17 56 77 21 76 25	25 59 78 21 74	258 170 63 110 452 148 83 34 66 70 23	176 154 92 110 154 67 154 84 84 85 85 85 85 85 85	1 338 296 106 32 74 302 106 79 19 48 655 21 58
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	154 84 13	154 201 106 17 100	237 125 20	269 137 22	240 310 156 25 153	342 171 28	392 200 33	523 259 43	210 272 140 23 133
Total indirect taxes	2 012	1 844	2 013	2 669	3 102	3 476	3 924	4 255	4 617	5 560	3 347
Post-tax income	3 205	5 355	6 224	7 556	9 887	11 573	13 985	16 633	20 485	33 284	12 819
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	1 889 99 25 37 35	1 234 1 777 70 37 34 16 3 166	1 801 50 30 31	1 660 30 26 27 0 6	20 3	17 44 17 0	1 332 11 97 16	1 337 2 1 155 3 12 0	1 287 1 662 49 49 26 27 3 100
Final income	7 463	8 990	9 676	10 723	13 249	14 730	16 758	19 206	23 008	35 382	15 919

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 ALL households, 1995-96

TABLE 2B (Appendix 1)

	Decile gr	oups of	ALL hou	seholds	ranked l	by equiv	alised di	sposable	income		. Al
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house- holds
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	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	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 2	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 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 g	roups of NO	ON-RETI	RED hou	seholds ra	nked by e	quivalised	disposable	income		All no
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	hous
Average per household (£ per year)											
Decile points (equivalised £)		6 515	3 366 1	0 384	2 205	14 017	16 259	18 897	22 299 2	8 167	15
lumber of households in the sample	502	501	502	501	502	501	502	501	502	501	5 01
Original income Wages and salaries	1 518	3 740	7 614	11 551	14 657	18 372	21 194	23 602	29 241	39 132	17 06
Imputed income from benefits in kind Self-employment income	69 684	15 615	38 1 069	103 1 379	102 1 896	221 1 532	389 2 077	516	776	1 361	3
Occupational pensions, annuities	67	169	291	395	524	601	784	2 080 925	2 822 999	9 921 1 738	2 40 64
nvestment income Other income	186 183	67 249	193 251	280 210	409 244	472 224	512 243	612 495	1 123	2 824	6
Total	2 706	4 855	9 457	13 917	17 832	21 422	25 199	28 230	384 35 346	620 55 596	3 21 4
rirect benefits in cash Contributory											
Retirement pension	43	149	320	475	380	303	359	260	221	213	2
Unemployment benefit Incapacity benefit	66 274	72 510	46 482	49 384	58 358	26 198	35 310	14 238	24 152	12 35	2
Widows' benefits	69	37	42	72	32	36	33	90	10	15	
Statutory maternity pay / Allowance	4	10	16	26	20	40	35	52	51	99	
lon-contributory income support	1 973	1 730	848	529	282	155	88	64	52	25	5
Child benefit	755	658	520	493	448	394	317	295	246	194	4
lousing benefits nvalid care allowance	1 164 32	1 406 29	796 86	445 44	222 46	118 40	41 15	37 7	18 7	6 4	4
Attendance allowance	3	8	0	27	21	26	15	13	3	5	
Disability living allowance Var pensions	50	97	318 7	219	126 29	149 16	82 7	60 4	45	20 17	1
Severe disablement allowance		23	60	49	20	51	16	17	20	-	
ndustrial injury disablement benefit Student maintenance awards	15 97	16 106	18 145	11 75	8 82	21 38	48 39	42 72	9 39	14 30	
Government training schemes	41	37	35	20	23	24	19	18	7	9	
family credit Other non-contributory benefits	156 39	218 25	178 29	82 46	30 18	30 17	14 3	6 29	1	1	
otal cash benefits	4 782	5 130	3 946	3 047	2 203	1 683	1 477	1 316	906	700	2 5
ross income	7 488	9 985	13 403	16 964	20 035	23 104	26 676	29 547	36 252	56 296	23 9
rect taxes and Employees' NtC											
ncome tax ess: Tax relief at source	936 62	530 48	1 118 85	1 831 132	2 454 166	3 173 195	3 885 198	4 757 229	6 541 259	11 380 264	3 6
mployees' N I contributions	111	246	518	781	1 021	1 251	1 445	1 585	1 899	2 173	1.1
ocal taxes² otal	611 1 596	565 1 293	606 2 157	634 3 113	677 3 9 87	684 4 913	705 5 836	710 6 823	776 8 957	875 14 164	6 5 2
isposable income	5 891	8 692	11 246	13 851	16 048	18 191	20 839	22 724	27 295	42 133	18 6
quivalised disposable income	4 737	7 478	9 389	11 302	13 089	15 181	17 601	20 392	25 041	40 155	16 4
direct taxes axes on final goods and services											
VAT	807	815	1 163	1 298	1 461	1 712	1 737	1 779	2 071	2 684	1.5
Duty on tobacco Duty on beer and cider	399 52	360 68	457 115	422 125	381 128	356 144	390 166	271 166	255 173	189 168	3
Dutý on wines	11	10	18	20	26	31	39	44	69	98	
Duty on spirits Duty on hydrocarbon oils	31 198	38 196	67 255	52 348	84 385	93 435	113 430	94 440	95 462	105 493	;
/ehicle excise duty	60	59	85	110	130	143	147	146	150	154	
Television (icences Stamp duty on house purchase	69 8	71 4	75 7	81 9	81 15	82 17	84 20	83 28	83 40	84 73	
Customs duties	32	32	43	46	55	61	58	62	71	91	
Betting taxes Fossif fuel levy	46 20	46 20	74 20	71 22	82 22	84 22	83 22	78 22	69 23	78 25	
Camelot National lottery fund Other	49 13	47 17	60 21	72 16	76 46	88 24	78 35	74 36	67 36	52 47	
ntermediate taxes					,,,			00	00	47	
Commercial and industrial rates	131	133	172	199	221	255	268	277	325	422	3
Employers' NI contributions Duty on hydrocarbon oils	171 95	172 96	222 119	257 135	285 148	329 164	347 178	360 183	423 211	550 276	
Vehicle excise duty Other	15 85	15 85	19 112	128	24 143	26 163	29 170	30 176	35 205	46 262	1
otal indirect taxes	2 294	2 286	3 106	3 435	3 791	4 231	4 393	4 350	4 860	5 898	3 8
ost-tax income	3 598	6 406	8 140		12 257	13 961	16 447	18 374	22 435	36 235	14 8
enefits in kind											
Education	3 107	2 550	2 348	1 964	1 840	1 465	1 201	1 276	893	647	17
National health service Housing subsidy	1 600 101	1 541 129	1 408 73	1 624 46	1 441 26	1 490 25	1 436 18	1 277 14	1 256 4	1 224	1 4
Rail travel subsidy	36	36	36	43	33	34	59	58	108	180	
Bus travel subsidy School meals and welfare milk	11 187	15 107	15 41	18 16	17 10	13 2	16 1	12	12 1	9	
Total	5 042	4 379	3 921	3711	3 366	3 030	2 731	2 640	2 274	2 062	3 3
inal income	8 640	10 785	12 061	14 126	15 623	16 990	19 178	21 014	24 709	38 297	18 1

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			ETIRED	househo	olds ranke	ed by eq	uivalised			All non-
	Bottom	2nd	3rd	4th	5th	6th	7th	8 _{th}	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 0.0	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 0.0	1.8 0.0	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 4	18 14 5 27 9 11 11 5	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	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	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
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 su	pporter										
Seif-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	7 23 13 16 38 2 1	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)

	Decile gr	oups of F	RETIRED	nousehold	s ranked	by equivali	ised dispo	osable inco	me		Al
	Bottom	2nd	3rd	4th	5th	<u>6</u> th	7th	8th	9th	Top	house hold
Average per household (£ per year)											
Decile points (equivalised £)	5	969	7 007	7 851	B 548	9 176	10 095	11 554	13817 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	45	29	74	162	88	131	225	354	410	772	22
Imputed income from benefits in kind Self-employment income	6	21	6	29	3 29	11	29 39		0 57	3 25	2
Occupational pensions, annuities Investment income	335 281	742 330	779 350	1 245 383	1 456 373	2 177 733	3 122 850	4 111 1 422	6 360 2 034	12 880 9 548	3 32
Other income Total	19 685	37 1 158	48 1 256	43 1 862	62 2 012	64 3 117		49 5 936	30 8 891	18 23 245	3 5 24
irect benefits in cash										20210	0 24
Contributory Retirement pension	3 315	4 019	4 060	3 834	3 637	3 923	3 696	3 780	3 704	4 074	3 80
Unemployment benefit	10	19	10	22	8	0	9	ū	-	7 074	3 80
Incapacity benefit Widows' benefits	93 39	153	86 90	219 36	138 17	113	200 39	416	235 24	121 22	17 2
Statutory maternity pay/ Allowance		-		-	-	-	-	-	-	-	2
fon-contributory income support	220	141	142	153	237	305	339	365	499	32	24
Child benefit	14	14	3	11	11	740	3	3	6	8	
Housing benefits nvalid care allowance	233 14	435 10	708 10	934 25	945 31	21	663 10	474 13	526 31	38 10	57 1
Attendance allowance Disability living allowance	10 13	18 20	112 36	109 24	145 59	309 70	309 243	407 231	363 254	192 65	19 10
Var peńsions Č	-	6	28	15	33	47	71	45	182	108	5
Severe disablement allowance ndustrial injury disablement benefit		11 23	30 38	12 36	23 29	25 25	43 17	35	14 19	14 45	1 2
Student mainténance awards		-		12		-	7	-	15	-	
Bovemment training schemes Family credit					1	1		-	:	-	(
Other non-contributory benefits	54	34	34	61	22	43	33	93	118	69	56
otal cash benefits	4 015	4 904	5 390	5 502	5 336	5 622	5 683	5 862	5 988	4 805	5 311
ross income	4 700	6 062	6 646	7 363	7 348	8 740	9 956	11 799	14 879	28 049	10 550
rect taxes and Employees' NIC	69	93	68	145	193	346	516	809	1 350	4 882	84
ss: Tax relief at source1	8	6	14	6	15	14	14	18	11	29	13
mployees' N I contributions ocal taxes ²	12 624	2 590	1 564	7 579	9 560	6 610	10 621	14 636	19 703	45 913	1: 64:
otal	697	678	619	725	747	948	1 134	1 441	2 062	5 811	1 486
isposable income	4 004	5 384	6 027	6 638	6 601	7 792	8 822	10 357	12817	22 238	9 067
quivalised disposable income	5 045	6 527	7 461	8 197	8 869	9 610	10 813	12 622	15 496	26 270	11 090
direct taxes axes on final goods and services	600	105	407	504	474		700				
√AT Duty on tobacco	523 121	495 156	467 165	561 153	471 187	681 183	700 137	807 147	1 107 134	1 541 96	735 148
Outy on beer and cider	25 8	43 7	29 6	26 9	36 11	31 15	41 16	44	38	53	3
Outy on wines Outy on spirits	41	34	41	51	39	41	72	18 82	31 92	74 173	19 6
Outy on hydrocarbon oils /ehicle excise duty	89 50	88 46	73 43	95 53	69 38	113 66	127 66	135 75	178 101	306 153	12 6
Celevision licences	76	76	76	77	74	75	74	77	76	84	7
Stamp duty on house purchase Customs duties	5 21	3 19	2 18	4 23	3 18	5 24	6 27	8 31	14 43	30 56	2
Betting taxes Fossil fuel levy	37 18	53 17	40 15	46 15	52 16	49 16	61 17	45 18	45 18	41 22	4
Camelot National lottery fund Other	25	28 31	30 10	35	34 8	37 12	45 13	39 14	43 25	40 50	1 3 1
ntermediate taxes	J	0,	10	Ů	Ü		,,	, 4	25	30	11
Commercial and industrial rates	92	89	85	94	85	112	122	134	162	266	12
Employers' NI contributions Duty on hydrocarbon oils	119 63	114 61	110 61	124 67	111 60	147 75	160 86	174 90	212 106	346 161	16: 8:
Vehicle excise duty Other	10 59	9 56	9 54	11 60	9 55	12 71	14 77	14 83	17 105	26 157	10
otal indirect taxes	1 391	1 427	1 334	1 509	1 377	1 765	1 861	2 033	2 547	3 676	1 892
ost-tax income	2 612	3 956	4 692	5 129	5 224	6 027	6 961	8 324	10 270	18 562	7 175
enefits in kind	***	0.0	0.0	00			^-				
ducation lational health service	53 2 387	68 2 422	22 2 384	83 2 331	50 2 271	2 284	65 2 318	17 2 351	73 2 120	2 284	40 2 315
lousing subsidy	33	51	65 3	90	103 15	77 11	75 8	51	61	11	62
lail travel subsidy lus travel subsidy	11 56	62	63	57	64	59	65	11 62	5 50	55 46	10 58
chool meals and welfare milk otal	1 2 541	2 605	2 538	0 2 568	2 503	2 431	2 534	2 492	2 308	2 396	C
											2 492
inal income	5 153	6 561	7 230	7 697	7 727	8 458	9 495	10 816	12 579	20 959	9 667

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			D house	eholds ra	nked by	equivali	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	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	1 1 15 43 40	1 3 9 43 45	11 53 36	17 38 45	1 12 49 38	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		- - 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 gr	oups of he	ouseholds	ranked by	y equivali:	sed dispos	able incon	ne			All
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house holds
Average per household (£ per year)											
Decile points (equivalised £)	7	600 9	985 12	2 148 14	1112 1	6 329 18	642 2	1 046 25	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	1 505 47 527 190 263	4 182 22 526 503 191	8 342 39 733 605 379	11 019 42 1 310 997 580	15 432 124 1 097 880 518	18 403 207 1 384 1 129 577	19 620 269 1 355 1 222 679	24 060 480 1 960 1 071 599	27 643 494 2 951 1 662 1 353	38 008 1 402 10 687 2 341 3 753	313 2 252 1 060 889
Other income Total	342 2 875	178 5 601	99 10 197	125 14 072	70 18 120	245 21 945	127 23 272	562 28 733	260 34 364	562 56 754	257 21 590
Direct benefits in cash Contributory Retirement pension Unemployment benefit Incapacity benefits 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 	894 68 9 341 6 71 35 180 10 14 36	6 495 61 44 354 6 107 16 108 32	7 226 34 47 164 34 37 15 58 16	6 112 20 27 147 24 66 25 56 21 9	8 44 7 12 86 14 22 63 46 26 5	4 39 7 18 100 8 23 93 69 18 4 53	5 50 6 49 21 32 22	6 13 15 33 20 15 17 52 16	8 9 7 22 6 26 37 0	5 280 22 18 134 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	
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	42 681	
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
ndirect 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 Intermediate taxes	686 265 83 15 37 148 61 67 7 24 41 18 38 15	882 352 102 18 63 193 68 69 4 31 68 17 59 10	1 141 458 128 18 66 275 93 78 5 39 89 21 65 13	1 261 378 143 27 110 307 109 80 10 44 84 20 77 21	1 496 352 150 27 97 382 133 81 9 9 53 81 20	1 653 451 188 38 128 421 142 83 12 51 93 19 88 35	1 628 307 162 38 91 400 139 82 17 58 75 20 37	1 743 280 198 51 129 445 144 82 24 76 22 74 38	2 123 212 188 71 88 473 159 82 31 67 80 21 59	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
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	169 219 117 19 108	185 238 122 20 119	214 277 140 23 136	238 308 157 26 150	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
Fotal 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 Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk	2 727 1 146 872 82 37 13 1	5 888 722 1 033 79 52 18 0	8 173 337 1 236 61 58 23	9 908 285 1 115 37 35 20	11 871 196 1 090 35 26 17	14 090 243 1 125 19 54 18	15 206 199 951 11 48 14	344 930 17 94 14	21 769 159 919 1 96 10	36 843 181 864 0 180 8	381 1 013 34 68 16 0
Total	2 151	1 905	1 715	1 493	1 364	1 459	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 mongage 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	household	ls ranked b	y equivalis	sed disposa	ble incor	пе			A
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	house hold:
Average per household (£ per year)											
Decile points (equivalised £)		5 844 7	330	8 680 1	0 4 1 6	11 961 1	3 467	15 833	18 866	23 786	
lumber 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 34! 414 2 59 160 409 374 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	5 3 14 3 7
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	2 264 1 140 1 161 55 7 67 17 81 61 220	2 487 1 098 1 751 16 44 10 6 40 20 316	1 727 1 020 1 325 45 7 129 24 4 76 42 373	965 987 855 94 - 213 - 45 9 126 31 277	449 921 460 41 7 134 - 4 52 27	351 910 181 43 - 110 18 25 - 120 40 75	182 872 167 65 25 108 12 - 4 17 18 42	72 843 50 33 7 77 - 8 17 29 13 49	40 826 28 16 - 53 - 11 6 52 6	18 779 0 16 - 24 7 8 - 32 1 2	85: 94: 59: 4: 9: 1: 6: 2: 15:
Other non-contributory benefits	28	46	45	23	46	36	2	17	1	0	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 45
Direct taxes and Employees' NIC Income tax Iess: Tax relief at source¹ Employees' N I contributions Local taxes² 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 6 1 9	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 80
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 Fossii 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 41 152 23 57 71	1 324 531 113 18 58 299 93 78 10 51 62 23 36 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	1 870 351 121 32 655 496 158 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	2 739 225 133 90 75 488 152 85 84 103 65 28 60 46	1 588 37:10:33:55:37:11:88:22:66:66
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	250 33: 170 2: 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 94
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	2 132 2 207 6 165 11 0 4 521	3 33 1 92 5 5 1 8 5 46
Final income	10 687	12 298	13 739	15 507			21 198	24 692	28 824	42 797	20 69

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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 house	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	A house hold:
Decile groups of households ranke by equivalised disposable income	ed .										
Number of households											
Bottom	134	98	72	65	16	100	45	63	70	17	680
2nd	141	146	73	51	20	116	36	37	39	20	679
3rd	215	130	56	62	14	67	28	56	35	17	680
4th	157	116	63	94	39	43	32	78	33	25	686
5th	87	100	72	109	49	37	58	100	37	31	680
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
	(14-1)	12 2		3	6 98	618	2.33		4.91	2.20	7
Summary of the effects of to	axes and b	enefits	, by ho	ouseho	d type	9.30	1	10-1.1		200	1
Average per household (£ per year)										
Original income	3 103	7 71 1	11 969	24 500	30 818		24 154		22 443	30 574	
plus Cash benefits	4 572	6 164	1 772	1 856	2 687	5 652	1 977	2 073	4 050	3 614	
Gross income	7 676	13 875	13 740			10 438	26 130		26 493		
less Direct taxes&employees'NIC	1 121	1 906	3 126	6 078	6 975		5 924	6 327	5 705	7 386	
Disposable income	6 554	11 969	10 615	20 278	26 531	9 212	20 206	21 209	20 788	26 802	16 16
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		4 128	4 223	4 252	5 866	3 34
Post-tax income	5 391	9 236	8 404		20 705		16 078		16 536		
Pusi-lax income							2 227	C 075	0 000	7 4 70	2 10
plus Benefits in kind	2 051 7 442	3 001 12 236	660 9 064	1 366 17 548	3 517	5 002 12 204	3 337	5 275 22 261	8 892 25 428	7 178 28 114	3 10

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 i	ncome			Al house
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	holds
verage per household (£ per year)											
Decile points (£)	5	170 6	757 8	515 10	662	13 164 1	5 888	19 022 23	3 628 3	0 229	
umber of households in the sample	680	679	680	680	680	679	680	680	679	680	6 797
riginal income Vages and salaries mputed income from benefits in kind self-employment income Occupational pensions, annuities nvestment income Other income Total	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 64 266 1 78 1 349 926 239 17 200
rect benefits in cash											
ontributory Retirement pension Jnemployment benefit ncapacity benefit Vidows' benefits Statutory matemity 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 3: 26 3: 20
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 37 37 9 56	908 315 780 39 153 213 29 28 21 72 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 23	63 422 6 8 8 32 21 15 10 57 26 10 3	488 321 463 28 61 113 20 23 22 54 17
otal cash benefits	3 654	4 744	5 177	4 872	4 025	2 800	2 338	1 847	1 780	1 272	3 251
ross income	4 847	6 739	8 665	11 122	14 422	17 957	21 754	27 053	34 569	57 404	20 454
irrect taxes and Employees' NIC ncome tax ess: Tax relief at source¹ Employees' N I contributions local taxes² Total	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	11 300 262 2 247 941 14 227	2 922 124 817 673 4 288
Disposable income	3 717	5 911	7 614	9 554	11 952	14 565	17 379	21 190	26 598	43 177	16 166
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 Fossif fuel levy Camelot National lottery fund Other	434 164 26 7 29 80 33 70 5 16 25 15 23	552 228 34 10 38 91 41 69 3 21 16 33 8	680 265 49 11 47 136 57 73 4 27 40 17 39 12	904 296 666 18 57 212 80 76 6 33 60 19 51	1 072 374 100 20 66 252 92 80 7 3 7 3 20 59 21	83 22	1 595 351 133 30 87 396 143 82 177 58 70 22 76 30	1 780 327 148 38 91 439 144 24 63 83 24 79	2 167 336 173 58 124 516 162 84 35 75 90 25 82 36	2 865 270 210 98 133 571 187 70 100 87 27 71 52	1 338 296 106 32 74 302 106 79 18 48 65 21
Intermediate taxes Commercial and industrial rates Employers' NI contributions Duty 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	264 137 22	239 309 158 25 155	273 353 181 30 173	337 437 217 36 212	455 593 297 50 281	210 272 140 23 133
Total indirect taxes	1 239	1 523	1 877	2 426	2 898	3 459	3 976	4 369	5 201	6 503	3 347
Post-tax income	2 479	4 388	5 736	7 128	9 054	11 107	13 403	16 821	21 397	36 674	12 819
Benefits in kind Education National health service Housing subsidy Rail travel subsidy Bus travel subsidy School meals and welfare milk Total	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	1 725 1 609 19 41 19 6 3 419	1 595 16 56 18 11	1 759 1 660 12 85 15 7 3 539	1 855 1 686 6 164 16 -1 3 725	1 287 1 662 49 49 20 21 3 100
		6 861		10 347			16 822		24 936	40 399	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 (Appe	endix 1)
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TABLE 9 (Appendix 1)									_	_	
(i) Quintile groups		Quintile gr	oups of	equivalis	sed disp	osable in	come				All
		Bottom	осро от	2nd	Jour Giop	3rd		4th	Тор		house-
Number of households	-		-								
Quintile groups of unadjusted disposable income											
Bottom		804		509		46					1 359
2nd		445		466		296	1	53	-		1 360
3rd		102		297		567		51	142		1 359
4th		8		86		386		06	274		1 360
Тор		-		2		64	3	50	943		1 359
All households		1 359		1 360	1	359	1 3	60	1 359		6 797
(ii) Decile groups Number of households	Decile g	roups of e 2nd	quivalis 3rd	ed dispo 4th	sable inc	ome 6th	7th	8th	9th	Тор	All house- holds
Decile groups of unadjusted disposable income											
Bottom	336	217	127			_	_	_	_	_	680
2nd	164	87	158	224	46	-	-	_	-	_	679
3rd	94	213	120	13	117	123	-	_	_	-	680
4th	58	80	130	203	14	42	134	19	_		680
5th	18	53	87	68	224	55	5	125	45	-	680
6th	8	23	35	107	91	197	119	2	97		679
7th	1	4	20	50	122	112	163	131	14	63	680
8th	1	2	2	14	47	105	137	175	142	55	680
9th	-	-	1	1	18	40	106	164	213	136	679
Тор	•	-	-	-	1	5	16	64	168	426	680

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	18	17	17	17	16	16	16	14	15	15
4th	26	27	26	26	27	25	26	26	25	25	25
Тор	43	43	46	47	47	50	49	50	52	51	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	24	23	23	24	23	23	23	23	23	23
Тор	37	37	39	39	40	43	42	44	44	43	43
All households	100	100	100	100	100	100	100	100	100	100	100
Equivalised disposable incor	ne										
Quintile group						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	13	13	13	12	12	11	12	12	12
3rd	18	18	17	17	17	16	17	16	16	16	17
4th	23	23 36	23 38	23 38	23 38	23 41	23 41	23 42	23 42	23 41	23 40
Тор	36	36	38	36	38	41	41	42	42	41	
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
	17	18	17	17	17	16	16	16	16	16	16
3rd	23	23	22	22	23	22	23	23	22	22	23
4th				22	39	43	43	44	44	43	43
	37	37	39	39	03	-10			• • •	10	-10

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)

TABLE 2 (Appendix 2)											
	1977	1979	1981	1983	1985	1987	1989	19911	1993-942	1994-95²	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.

Includes Company car benefit.
 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 averaged over a group of households. Indeed, measured 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.
- 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
lst additional adult 2nd (or more) additional adult	0.42 0.36 (per adult)
	o.oo (per adan)

b. single head of household (i.e. I adult)	0.61
1st additional adult 2nd additional adult	0.46 0.42
3rd (or more) additional adult	0.36 (per adult)
. 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 equivalised 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].

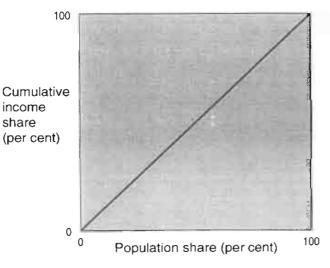
It is important to note that most monetary values shown in the article are ordinary (i.e. un-equivalised) £ a year, not equivalised £ a year. Where equivalised £ a year do appear (e.g. the quintile points in Table 3 of Appendix 1), they are shown in italics.

Gini coefficient

C

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.]

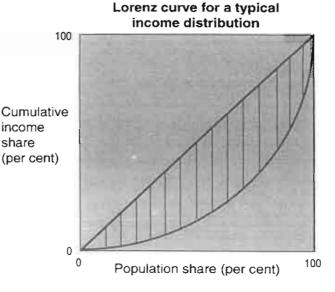
43. Strictly speaking, one could argue that the equivalence scales used here are only applicable to disposable income because this is the only income measure relating directly to spending power. Since the scales are often applied, in practice, to other income measures, we are content to use them to equivalise 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

share

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



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, and Q, corresponding to proportions p, and p, is:

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

where S^2 = variance calculated from observations between Q_1 and Q_2 , and q = 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.