THE EFFECTS OF TAXES AND BENEFITS ON HOUSEHOLD INCOME, 1987

The main points are:

- (1) The effect of government expenditure and taxation is to reduce the differences in income amongst households. In 1987 taxes and benefits (including NI pensions) increased the share of total income of the bottom fifth of households from 2.1 per cent of original income to 7.6 per cent of post-tax income. Cash benefits play the largest part in reducing income differences.
- (2) The joint impact of taxes and benefits is greatest for retired households and for those non-retired households containing no economically active people.
- (3) Equivalisation of income (ie adjusting income for household size and composition) is used extensively in ranking the households for the first time this year. The main effect is that small households are no longer concentrated at the bottom of the income distribution, nor are larger households concentrated at the top.

Introduction

The aim of this analysis is to examine how the distribution of income amongst households in the UK is modified as a result of Government expenditure and taxation. During 1987 the Government raised and spent £168 billion; most of this revenue was raised, directly or indirectly, from UK households who also benefited, directly or indirectly, from the associated Government expenditure. Although greater equality of incomes is not necessarily a primary aim of this process, it is nevertheless one of its consequences. The article is the latest in an annual series published in *Economic Trends* since the early 1960s. Each year the article covers the same main ground but also has a special topic.

This year we have made some fundamental changes to the article after reviewing the methodology behind the analysis - the first such review for over 10 years. As part of this review, we have decided to produce the article on an equivalised basis ie adjusting income to take account of household size and composition. Equivalisation is used in the ranking process, for percentage shares and when calculating Gini coefficients: but the tables show incomes and taxes in ordinary \pounds a year not equivalised \pounds a year. The effects of equivalisation form this year's special topic.

Equivalisation

Equivalisation means adjusting household income to allow for household size and composition (to recognise different needs). A household of five adults needs a higher income than a single person living alone to achieve the same 'standard of living'. A distribution of equivalised income, where all households are put on an equal footing regardless of size or composition, thus provides a more meaningful way of comparing the income of households. For example: consider two married couples, the Jones with no children and the Smiths with two children (aged 3 and 5), both earning £15,000 a year. The Jones have an equivalence factor of 1.00 whereas the Smiths have a factor of 1.39 (where the 0.39 accounts for the children). The Smiths have a lower equivalised income at £10,791 (= £15,000/1.39) than the Jones at £15,000 (= £15,000/1.00).

The contents are as follows:

Part I Detailed description of results for 1987 for all

households, and for retired and non-retired

households separately.

Part II The effects of equivalisation.

Appendix 1 Detailed tables with fine breakdown of income

components for quintile and decile groups, and

results for different types of household.

Appendix 2 Methodology and definitions.

Appendix 3 Changes in the methodology this year.

Appendix 4 Selection of tables on the old basis.

The main data source is the annual Family Expenditure Survey (FES). Since this article is based on a sample survey, its results are subject to sampling errors. These are generally larger for the smaller household groups (further details on sampling errors and reliability are given in Appendix 2). The unit of analysis is the household, rather than the person or tax unit. This analysis gives a snapshot of households at various stages in their lifecycles: nearly everyone has less income when elderly than at their peak earning age. The monetary values in the tables in the main body of the article are rounded to the nearest £10.

The figures in each year's article are free standing and are not intended to be used as part of a time series with figures from earlier articles. The FES changes slightly each year, and no special effort has been made in the past to ensure a fully-consistent time series. The major changes to the methodology this year mean that the 1987 figures are completely incompatible with those for earlier years. As a special exercise, we intend to produce a consistent time series (as consistent as the changing FES will allow) for a small number of tables in the next article. This series will be calculated retrospectively and on the new basis, not a further continuation of the old series.

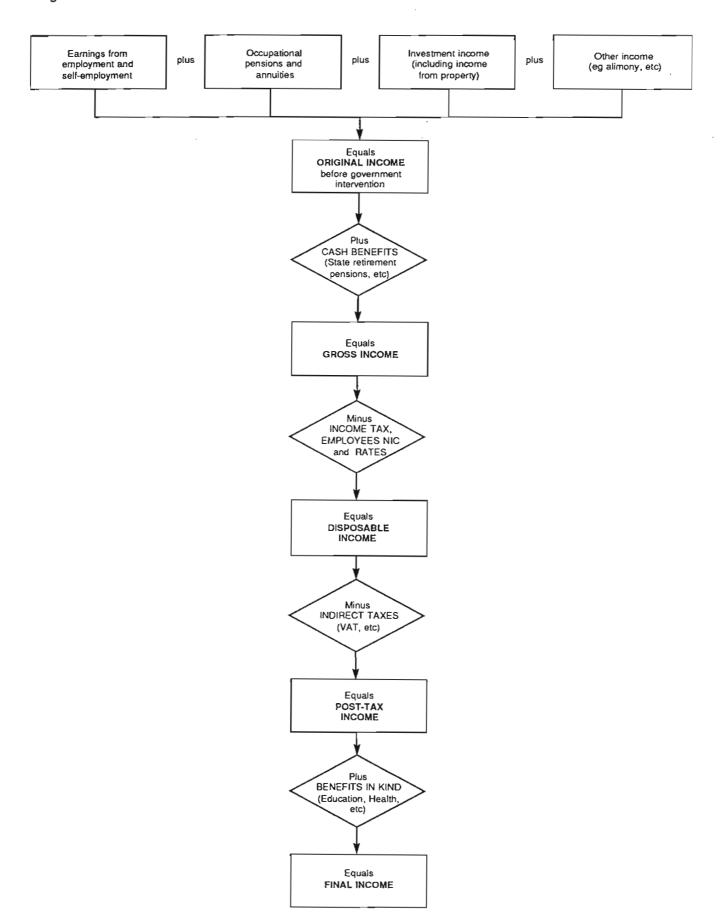
Summary of methodology and sources

Chart 1 illustrates the stages of redistribution which form the structure of this analysis. Initially, households receive income from various non-governmental sources: from their employment (wages and salaries; self-employment income); from occupational pensions; from their investments and from other households (eg alimony payments). Total income from these sources constitutes original income. The flow chart shows the various ways in which Government then raises revenue from households and distributes benefits to them both in cash and in kind.

The main source of data for this analysis is the Family Expenditure Survey (FES) 1987. This is a continuous household survey which collects information on the income, expenditure and direct tax payments of each household member aged 16 years and over, and on household composition and other characteristics such as tenure. In 1987 some 7,400 households participated in the UK - about 1 in every 3,000 households. The response rate was 72 per cent in Great Britain: the FES in Northern Ireland is a separate exercise to the rest of UK, with a much larger sampling fraction, and only a proportion of these cases go into the UK analysis. Studies have indicated that

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Stages of redistribution



the FES suffers from some non-response bias, for example through under-representation of the very top of the income distribution, the elderly and the self-employed. However, in general, comparisons of survey results over successive years justify confidence in their general reliability, and examination of the characteristics and expenditure and income patterns of various groups of households shows a high degree of internal consistency. The data presented in this article have not been reweighted to take account of non-response bias.

The data on household income, cash benefits, income tax, National Insurance contributions and domestic rates are used directly from the FES. In contrast, the figures for indirect taxes (eg VAT, duty on beer) and benefits in kind (eg from state education) are calculated using an imputation process - which uses FES data, for example on households' expenditure and characteristics. This imputation process is carried out within the framework of the National Accounts aggregates, and involves many assumptions (for example on incidence and grossing up for non-response). Some of these assumptions are doubtful, and hence the results of this part of the analysis are subject to a wide margin of error. Tables 1 and 2 in Appendix 1 give government expenditure and its financing for 1987, derived from the National Accounts. Appendix 2 gives more detail on the methodology.

Summary of changes to this year's analysis

The following list gives the changes made to this year's analysis as a result of the special review of methodology:

- equivalisation is used extensively in ranking the households for the first time.
- household income now ranked using only one measure (ie equivalised disposable income).

In previous articles, income was ranked by original, disposable and gross income in various tables.

- original income no longer includes free meals and food from employer.
- disposable income re-defined to be exclusive of domestic rates (in anticipation of community charge data being available for 1989)
- new definition of a 'child' (to be in line with other Government departments)
- domestic rates now shown in full ie. before any rebates which are now shown as a cash benefit (as part of housing benefit). In previous articles, domestic rates were shown net of rebates and these rebates were excluded from cash benefits.

Further details are given in Appendix 3, and Appendix 4 gives a selection of tables on the old basis - so that readers can gauge the effects of the changes. Equivalisation has by far the greatest impact.

PART I

RESULTS FOR ALL HOUSEHOLDS

The level of original income varies widely between households. Table A shows this and other income measures for quintile groups ranked by equivalised disposable income (the lowest quintile group contains the 20 per cent of households with the lowest equivalised disposable incomes). In the lowest quintile group the average number of economically active people is 0.3 and hence the average original income is low (£1,220 per annum). In the highest quintile group, there are an average of 1.7 economically active people and average original income is £25,470. In the lowest quintile group, nearly half of the households are retired (Table B) - defined as households where at least half the total gross income comes from retired people - and the majority of these have virtually no original income since the state retirement pension (including any graduated or additional pension) is a cash benefit.

Summary of the effects of taxes and benefits, 1987
TABLE A

		ips of househol disposable in∞				
	Bottom	2nd	3rd	4th	Тор	- All households
erage per household (£ per year)¹						
Original income	1 220	3 850	9470	14 510	25 470	10 900
plus cash benefits	3 170	2 780	1 870	1 070	670	1 910
Gross income	4 400	6 630	11 340	15 580	26 140	12 820
less direct taxes ² and employees' NIC	580	1 060	2 240	3 430	6 400	2 740
Disposable income	3 810	5 570	9 100	12 150	19 740	10 070
less indirect taxes	1 040	1 300	2 120	2 590	3 180	2 050
Post-tax income	2 780	4 260	6 980	9 550	16 560	8 030
plus benefits in kind	2 040	1 820	1 890	1 520	1 100	1 670
Final income	4 820	6 080	8 870	11 070	17 660	9 700
erage per household (number)						
Children 3	0.7	0.6	0.8	0.6	0.4	0.6
Adults	1.7	1.7	2.1	2.1	2.0	1.9
Persons	2.4	2.3	2.9	2.7	2.3	2.5
People in full-time education	0.6	0.5	0.6	0.5	0.3	0.5
Economically active people	0.3	0.7	1.4	1.7	1.7	1.2
Retired people	0.7	0.7	0.4	0.2	0.2	0.4

¹ All the tables in Part I 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 After tax relief at source on mortgage interest and life assurance premiums and including gross domestic rates.

non-advanced further education

³ Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving



The composition of each quintile group of households, 1987

TABLE B

	ranked	Quintile groups of households ranked by equivalised disposable income					
	Bottom	2nd	3rd	41h	Тор	house- holds	
Percentages							
Household type							
Retired	48	46	18	11	8	26	
Non-retired							
1 adult	7	8	9	12	18	11	
2 adults	8	9	18	25	40	20	
1 adult with children	9	6	2	1	-	4	
2 adults with children	19	21	33	29	20	24	
3 or more adults [₹]	8	10	20	22	14	15	
Total	100	100	100	100	100	100	

¹ This group is smaller than the category of "one parent families" because some of these families will be contained in larger household types.

Chart 2 illustrates the declining importance of cash benefits in gross income from the virtual dependence of the lowest quintile group to a minor income source for the top quintile group.

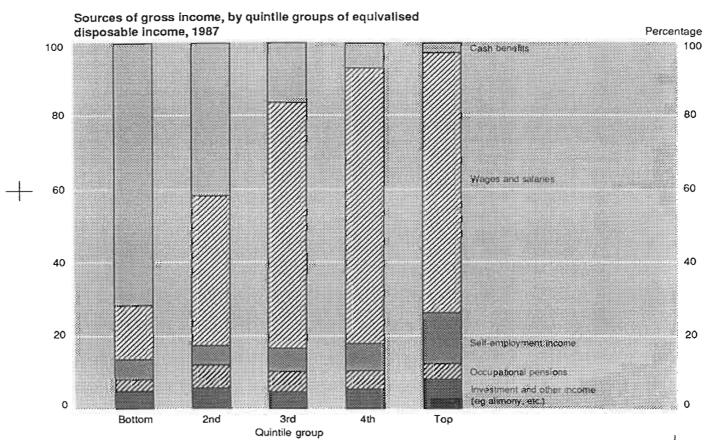
Chart 3 shows how the dispersion of incomes is reduced at each stage of the tax-benefit system, so that the average final income for each quintile group ranges from £4,820 to £17,660, a ratio of about 1:4 compared with the ratio for original incomes of about 1:20.

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 2.1 per cent to 7.5 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. This table is now calculated using equivalised incomes, and hence 'final income' has not been included: it would be inappropriate to equivalise this income measure because of its substantial non-spendable elements eg benefits from education.

The Gini coefficient is the most widely used summary measure of the inequality of the distribution of income (see paragraph 37 of Appendix 2). It takes values between 0 and 100 per cent - the higher values indicating greater inequality. In this article, Gini coefficients are now calculated using equivalised incomes (using the same equivalence scale that is applied to equivalise disposable income). The reduction from 51 per cent to 36 per cent shown in Table C shows that cash benefits produce the largest reduction in income inequality.

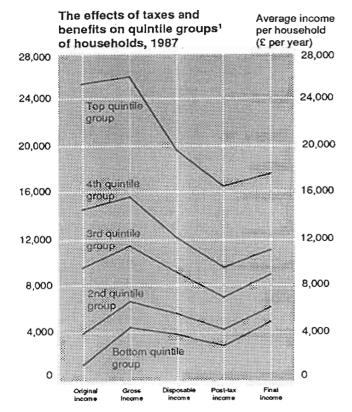
Attention has already been drawn to the preponderance of retired households in the lower ranges of the distribution of original income; nearly half of the households in the bottom two quintile groups are retired (Table B). The income pattern of the retired is very different from that of households whose head is of working age, as is their expenditure pattern (which is reflected in their indirect tax payments). For this reason in the detailed examination of each stage of the tax-benefit system which follows, retired and non-retired households are analysed separately.

CHART 2



With or without children.

CHART 3



Households are ranked throughout by their equivalised disposable income

and Gini coefficients¹, 1987

Percentage shares of total household income

TABLE C

	income for	shares of tot households ra disposable in		
	Original income	Gross income	Disposable income	Post-tax income
Quintile group				
Bottom	2.1	7.5	8.2	7.6
2nd	7	11	12	12
3rd '	16	16	16	16
4th	25	23	23	22
Тор	50	43	41	43
All households	100	100	100	100
Decile group				
Bottom	0.8	3.3	3.5	3.1
Тор	32	27	26	27
Gini coefficient				
(percent)	51	36	33	36

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.

RESULTS FOR NON-RETIRED HOUSEHOLDS

Original income

The distribution of original income amongst non-retired households is more equal than amongst all households, ranging from an average of £2,760 per annum in the lowest quintile group to £27,700 in the highest (Table D), a ratio of 1:10 compared to the ratio of 1:20 for the distribution over all households. There is a fairly strong

relationship between the original income of a household and the number of economically active people it contains and Table K (at the end of this section) gives a breakdown by the number of economically active people per household. There is also a strong relationship between the number of children per household and income: the number of children falls steadily as income rises.

Summary of the effects of taxes and benefits on non-retired households, 1987

TABLE D

			ps of non-retired lisposable income		ed by		All
		Bottom	2nd	3rd	4th	Тор	house- holds
verage per household (£ per year)							
Original income		2 760	8 400	12 670	17 070	27 700	13 720
plus cash benefits		3 050	1 840	1 180	720	480	1450
Gross income		5 810	10 240	13 850	17 790	28 180	15 170
less direct taxes1 & employees' N	IC	840	1 970	2 920	4 040	6 890	3330
Disposable income		4 970	8 270	10 930	13 740	21 290	11 840
less indirect taxes		1 400	2 060	2 430	2 810	3 350	2410
Post-tax income		3 560	6 210	8 500	10 930	17 940	9 430
plus benefits in kind	.,	2 680	2 040	1 850	1 450	1 040	1 810
Final income	••	6 250	8 250	10 350	12 380	18 980	11 240
verage per household (number)							
Children²		1.3	1.1	0.8	0.6	0.4	8.0
Adults		1.9	2.1	2.2	2.2	2.0	2.1
Persons		3.2	3.2	3.0	2.8	2.3	2.9
People in full-time education		1.1	8.0	0.7	0.5	0.3	0.7
Economically active people		0.7	1.5	1.8	2.0	1.8	1.6
Retired people		0.1	0.1	0.1	0.1	0.1	0.1

¹ After tax relief at source on mortgage interest and life assurance premiums and including gross domestic rates.

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

Cash benefits

Cash benefits are of two types: contributory, paid from the National Insurance Fund to which individuals and their employers make contributions while working, and non-contributory (Table E). For non-retired households, non-contributory benefits form the most important source of cash benefit income. An important item, child benefit, is biased towards the bottom of the income distribution, in proportion to the number of children per household (Table D). The other non-contributory benefits are mainly income-related, in particular Supplementary Benefit (now Income Support), 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. Most contributory benefits, for which contribution records rather than income are the criteria for payment, are highest for the second quintile group. On average, cash benefits formed 10 per cent of the gross income of non-retired households: their payment resulted in a significant reduction in income inequality.

Average value of cash benefits for each quintile group of non-retired households, 1987

TABLE E

	ranked	Quintile groups of households ranked by equivalised disposable income					
	Bottom	2nd	3rd	4th	Тор	house holds	
Average per household (£ a year)		_					
Contributory							
Retirement pension	120	270	260	110	110	180	
Sickness/ injury related	180	230	120	100	60	140	
Unemployment benefit	150	90	70	60	40	80	
Other	60	70.	50	50	40	60	
Total contributory	510	660	500	330	250	450	
Non-contributory							
Supplementary benefit	1 170	320	110	40	30	330	
Child benefit	490	410	320	230	140	320	
Housing benefit	610	180	70	10	20	180	
Sickness/ disablement related		160	100	50	20	90	
Other	160	120	90	60	20	90	
Total non-contributory	2 540	1 190	680	390	230	1 000	
Total cash benefits	3 050	1 840	1 180	720	480	1 450	
Cash benefits as a percentage of gross income	53	18	8	4	2	10	

Income tax, NI contributions and domestic rates

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 calculated on the first £295 of weekly earnings (the ceiling in operation during most of 1987), households in the top quintile group pay rather less in contributions as a percentage of gross income than the middle 60 per cent of households (Table F).

Income tax, employees' NIC and domestic rates as percentages of gross income for each quintile group of non-retired households, 1987

TABLE F

	househ	Quintile groups of non-retired households ranked by equivalised disposable income							
	Bottom	2nd	3rd	4th	Тор	house- holds			
Percentages	-								
Income tax11	4.3	9.6	11.8	14.0	17.7	13.7			
Employees' NIC	2.5	5.2	5.7	5.8	4.5	5.0			
Domestic rates	7.6	4.4	3.5	3.0	2.2	3.3			
Total	14.4	19.2	21.1	22.7	24.5	22.0			

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

In 1987 over one-third of working age individuals had insufficient income to pay income tax, and marginal tax rates for taxpayers ranged from 27 per cent to 60 per cent. The analysis of households when ranked by equivalised disposable income shows a much less progressive tax system. Average rates are 4.3 per cent in the lowest quintile, rising steadily to 17.7 per cent in the highest quintile. This results from grouping individuals in the same households, from ranking households by equivalised disposable income, and from calculating average income tax rates on gross income (instead of taxable income).

For domestic rates, before the deduction of rate rebates (which are treated as a cash benefit), the level of payments is quite regressive - the average percentage falling steadily as income rises.

Indirect taxes

In total, indirect taxes expressed as a proportion of disposable income fall as disposable income rises (Table G), ranging from 28 per cent in the bottom quintile group to 16 per cent in the highest, though the highest quintile pay most in indirect taxes in absolute terms. However, individual taxes have divergent effects.

VAT, tobacco duty, beer duty and intermediate taxes (see box below) all fall as a percentage of disposable income as income rises. The fall in tobacco duty payments as a percentage of income is particularly marked. For expenditure items relating to motoring (ie car tax and duty on hydrocarbon oils), the tax as a proportion of income is similar for the bottom four quintile groups but much lower for the top group.

INTERMEDIATE TAXES

Some indirect taxes, such as VAT and excise duties on petrol, alcohol, tobacco, etc have a direct effect on the final price of goods and services. However, the producers of these goods and services also incur costs such as employers' National Insurance contributions, non-domestic rates, and duty on hydrocarbon oils, part of which they may pass on to households in the price of their products. These are called intermediate taxes.

TABLE G

					Quintile groups of non-retired households ranked by equivalised disposable income					
				Bottom	2nd	3rd	4th	Тор	- house- holds	
Percentages										
VAT				8.8	8.5	7.9	7.6	6.2	7.4	
Duty on beer				1.2	1.1	1.0	1.0	0.6	0.9	
Duty on wines and spirits				0.7	8.0	0.9	0.9	0.9	0.9	
Duty on tobacco				5.5	3.7	2.4	1.7	8.0	2.1	
Outy on hydrocarbon oils				1.7	1.9	1.8	1.8	1.3	1.6	
Car tax and vehicle excise	duty			1.0	1.0	1.1	1.1	8.0	1.0	
Other taxes on final goods		vices		2.1	1.8	1.5	1.3	1.1	1.4	
Intermediate taxes			••	7.2	6.1	5.5	5.1	4.1	5.1	
Total'				28.3	24.9	22.2	20.4	15.7	20.4	

¹ The corresponding figures using total expenditure as the denominator are: 20.9, 22.9, 22.2, 21.9, 19.8 (top group) and 21.4 per cent.

Although some indirect taxes are less regressive than others, Table G shows that the impact of virtually all the indirect taxes declines for the top quintile group compared with the fourth quintile group. This is so partly because it is likely that higher income households spend a smaller proportion of their income than households with smaller incomes. If the incidence of indirect taxes, were to be expressed in terms of expenditure rather than income, they can be shown to be rather less regressive.

Benefits in kind

Government current expenditure in providing certain goods and services to households either free at the time of use or at subsidised prices is converted by imputation into the equivalent of an income flow to individual households in order to arrive at final income. The largest two items for which such imputations are made are the health and education services, which together accounted for 21.6 per cent of total general government expenditure in 1987. Other items for

Average value of benefits in kind for each quintile group of non-retired households, 1987

TABLE H

	househo	Quintile groups of non-retired households ranked by equivalised disposable income						
	Bottom	2nd	3rd	4th	Тор	house- holds		
Average per household (£ a year)								
Education	1 510	1 040	910	620	330	880		
National health service	880	860	820	720	590	770		
Housing subsidy	130	70	40	30	10	60		
Travel subsidies School meals and	30	40	50	60	90	50		
welfare milk	130	30	20	10	10	40		
Total	2 680	2 040	1 850	1 450	1 040	1 810		
Benefits in kind as a percentage of post-tax								
income	75	33	22	13	6	19		

which imputations are made are school meals and welfare milk, the housing subsidy and travel subsidies, together accounting for a further 1.9 per cent of general government expenditure.

Education benefit to individual households is imputed by reference to the number of pupils and students in the households (students living away from home are not included as part of their parents' household), and to the type of education they are receiving, though no allowance is made for differing costs between local authorities. The bottom quintile group contains the highest number of children and consequently the highest number of those in full-time education (Table D). This is the main reason for this quintile group being allocated the highest average imputed benefit (Table H). Another important factor is the presence of the majority of student-only households, for whom the costs of education are greatest. Similarly the impact of expenditure on school meals and welfare milk is greatest in the lower income groups where children are more likely to take school meals and have them provided free of charge.

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 - and it is possible to estimate the use made of each service on average by individuals of different age and sex. Using this information, an imputed benefit from the health service can be allocated to each individual in the FES sample. These benefits are then aggregated for members of the household to yield figures on a household basis, so that not only the sex and age composition but also the size of the household determines the attribution of health service benefits.

Age and sex are by no means the only possible determinants on which to base the allocation, but age is certainly a very important factor. Data availability also limits the choice of determinants - the FES collects little information on health or use of health services. Table H indicates that these benefits decline steadily with income.

Housing subsidy is the sum of Exchequer subsidy and local authority determined rate fund contributions to the housing revenue account. Thus housing subsidy as defined here 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 subsidy is highest. In these articles, tax relief on mortgage interest is treated as an adjustment to income tax, not as part of the housing subsidy analysed in Table H.



Travel subsidies cover the passenger element of the grants made to various public transport 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. The heavy use of railways by households in the top quintile group, particularly commuters, means that their imputed benefit is nearly twice the average of all households.

Table H shows that taken together the absolute values of these benefits in kind clearly decline as household income increases. As a proportion of post-tax income, benefits decrease from 75 per cent in the lowest quintile group to 6 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-benefit system on non-retired households is summarised in Table J. Households in the highest quintile group (when ranked by equivalised disposable income) receive 44 per cent of all (equivalised) original income, compared with 4 per cent received by the lowest quintile group. However after direct taxes and benefits are taken into account, the share of the lowest quintile group rises to 8 per cent and that of the highest falls to 39 per cent. Cash benefits are the major factor underlying these changes, causing the Gini coefficient to fall from 42 per cent based on original income to 34 per cent based on gross income. Income tax, employees' National Insurance contributions and rates produced a further reduction in inequality, but payment of indirect taxes increases inequality.

Economic activity

As already mentioned, the size of original income is largely determined by the number of economically active people in the

Percentage shares of total household income and Gini coefficients¹ for non-retired households, 1987

Percentage shares of total equivalised

TABLE J

		me for non-retired households ranked equivalised disposable income							
	Original income	Gross income	Disposable income	Post-tax income					
Quintile group									
Bottom	3.5	7.3	8.0	7.2					
2nd	11	12	13	12					
3rd	17	17	17	17					
4th	24	23	23	23					
Тор	44	41	39	42					
All households	100	100	100	100					
Decile group									
Bottom	1.0	3.0	3.3	2.8					
Тор	28	25	25	26					
Gini coefficient									
(percent)	42	34	31	35					

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.

household - even though someone may be defined as economically active if they have been out of work for up to a year as long as they are seeking work. This relationship between income and economic activity amongst non-retired households is explored further in

Average incomes, taxes and benefits by the number of economically active people per non-retired household, 1987

TABLE K

			Number of eco	nomically active pe	ople¹ per household	<u> </u>		
			None	One	Two	Three or more	All households	
Number of households in the s	ample		607	2 024	2 196	632	5 459	
verage per household (£ pe	r year)							
Original income			 890	10 880	17 200	23 060	13 720	
plus cash benefit			 4 180	1 460	860	880	1 450	
Gross income			 5 070	12 340	18 060	23 940	15 170	
less direct taxes2 & emp	oloyees'	NIC	450	2 790	4 100	5 180	3 330	
Disposable income			 4 620	9 550	13 950	18 760	11 840	
less indirect taxes			 1 120	1 930	2 750	4 020	2 410	
Post-tax income	••	.,	 3 500	7 620	11 210	14 750	9 430	
plus benefits in kind			 2 460	1 550	1 760	2 220	1 810	
Final income			 5 950	9 170	12 970	16 960	11 240	
Gini coefficients (percent)								
Equivalised original income	·		 87	43	31	25	42	
Equivalised gross income			 21	36	28	23	34	
Equivalised disposable inc	ome		 21	33	27	22	31	
Equivalised post-tax incom	e		 27	37	30	26	35	

¹ Economically active people comprise employees, the self employed and others not in employment but who are seeking or intending, when able, to seek work.

² After tax relief at source on mortgage interest and life assurance premiums and including gross domestic rates

Table K, in which households are classified according to the number of economically active people they contain.

Original income ranges from an average of £890 per annum in households where there are no economically active people to an average of £23,060 in households where there are three or more. Cash benefits are concentrated in households where no-one is economically active and here they form 82 per cent of gross income; but they remain important, at 12 per cent of gross income, for those where one household member is economically active. This latter group will contain a number of households where no-one is currently in work.

Not only does average original income differ widely between these four household groups but they also differ considerably in the degree of variation of income within the groups. As measured by the Gini coefficient, variability in original income is very high amongst households where no-one is economically active but where two or more persons are economically active the variability is considerably less. Equally, the tax-benefit system has the effect of substantially reducing inequality between the different types of households within the economically inactive group. This results largely from the diverse nature of the economically inactive group, which ranges from single parents with young children, single fultime students, the disabled, and households where no member has been able to find work during the 12 months prior to interview, to a small number of households where income from other sources such as investments means that they have no need to work.

RESULTS FOR RETIRED HOUSEHOLDS

Retired households have quite distinct income and expenditure patterns and so the tax-benefit system affects them in a different way to non-retired households (Table L). Few retired households have substantial original income; those who do are concentrated in the top two quintile groups and are receiving occupational pensions. The majority of retired households are dependent on cash benefits, in the form of state retirement pensions and income-related benefits such as Housing Benefits and Supplementary Pension.

Thus 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 are paid from the National Insurance Fund into which the recipients will have made contributions throughout their working lives.

People over pensionable age do not pay National Insurance contributions so the small payments recorded are made by non-retired people living in households defined as retired (see Appendix 2 paragraph 7 for details of definition). 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 unless they have significant income from investments or occupational pensions in addition to their state retirement pension. The largest indirect tax payment made by retired households is VAT, and the top quintile group pays more than twice as much as the average for all households.

Effects of taxes and benefits on retired households, 1987

TABLE L

			ups of retired hous disposable income	eholds ranked by			All house-
		Bottom	2nd	3rd	4th	Тор	holds
verage per household (£ per	yəar)		_				
Original income plus cash benefits Contributory		380	560	920	2 390	10 600	2 970
Retirement pension		2 320	2 610	2 440	2 580	2 410	2 470
Sickness/ injury related		60	40	50	170	150	90
Unemployment benefit		., 10		10	20	20	10
			20	30	40	50	30
Other Non-contributory		30	LV	-	•••	-	00
Supplementary benefit		. 130	110	60	70	30	80
Child benefit			110	-	, ,	-	-
			520	640	340	40	350
Housing benefit Sickness/ disablement re	 Jotod	190	40	70	260	190	110
	nateu	20	30	40	100	60	50
Other		20	30	40	100	60	30
Gross income		3 170	3 920	4 260	5 960	13 560	6 170
less income tax1		40	50	110	340	2 500	610
iess employees' NIC		•		•	10	30	10
less domestic rates (gross)		420	420	420	460	600	460
Disposable income		2 710	3 460	3 730	5 160	10 420	5 090
less indirect taxes				-			
VAT		210	200	200	350	770	350
Tobacco duty		90	100	80	110	100	100
Other taxes on final goods	& services	200	190	180	310	580	290
Intermediate taxes		230	200	210	290	540	290
Post-tax income		1 980	2 770	3 060	4 100	8 440	4 070
plus benefits in kind							
Education		30	-	10	20	20	20
National health service		1 170	1 190	1 090	1 160	1 090	1 140
Housing subsidy		40	100	120	90	20	80
Travel subsidies		50	60	60	60	70	60
Final income		3 270	4 120	4 330	5 430	9 640	5 360

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

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, as a result primarily of the attribution method used, 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 M 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 dispersion.

A comparison of Table M 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 4 illustrates the different impact which the tax-benefit system has on retired and non-retired households.

Percentage shares of total household income and Gini coefficients¹ for retired households, 1987

TABLE M

	income for		tal equivalised holds ranked le income	I
	Original income	Gross income	Disposable income	Post-tax income
Quintile group Bottom 2nd 3rd 4th Top	2.6 4 7 16 71	10.7 13 15 19 42	11.0 14 16 20 39	10.2 14 17 20 39
All households	100	100	100	100
Decile group Bottom Top	1.2 52	5.0 28	4.9 26	4.4 26
Gini coefficient (percent)	71	30	27	32

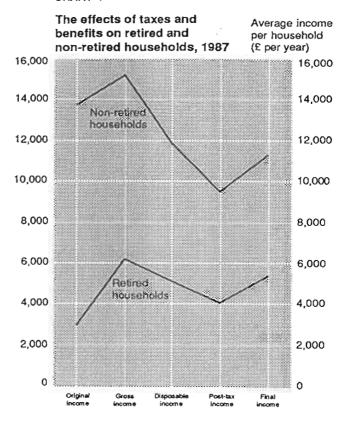
¹ This is a measure of the dispersion of each definition of income. Unlike the percentage shares analysis where the household incomes are ranked only once, the Gini coefficient calculation needs a separate ranking for each income definition. For example, the coefficient for original income is produced 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.

PART II

THE EFFECTS OF EQUIVALISING INCOME

Equivalising household incomes is a method of adjusting for house hold size and composition to allow for their different needs. A household of five adults needs a higher income than a single person living alone to achieve the same 'standard of living'. On the other hand they do not require five times as much income-partly because some costs, such as heating and lighting do not rise in line with the

CHART 4



number of people sharing a house. Equivalisation allows for such factors and thus produces a more meaningful ranking of households by income. The scale used in this analysis is the McClements scale (before housing costs):this uses a married couple as the standard for comparisons and assigns them a value of one. See paragraph 35 of Appendix2 for further details.

The question of equivalisation was addressed in the 1985 article (in July 1987 Economic Trends) where the effects of three different scales were assessed. The conclusion of the article was that the application of equivalence scales has a substantial impact on the composition of each quintile group and on the distribution of income between households, but there is little difference in effect between the three scales examined. Small households are no longer concentrated at the bottom of the income distribution, nor are large households concentrated at the top. The impact of the tax benefit system is greater, resulting in a more equal distribution of income after taxes and benefits. The 1985 article suggested that equivalence scale adjustments might be used extensively in future articles. It was difficult to introduce equivalisation in the 1986 article because the 1986 FES data were very late, without further delaying the article by a major change in methodology.

Table N gives a cross-tabulation of households, ranked by quintile groups, of unadjusted disposable income and equivalised disposable income. The effect of equivalisation is that the majority of households either stay in the same quintile group, or move only to the next group. For example, of the 1,479 households in the second quintile group of unadjusted disposable income, 519 moved to the bottom quintile of equivalised disposable income, 496 stayed in the second quintile and 290 moved to the third quintile (only 174 moved to the fourth quintile group).

The percentage shares of disposable income of each quintile group are also modified by equivalence scale adjustments, particularly at

				. 4
			¥	

Cross tabulation of quintile groups of households ranked by disposable income, unadjusted and equivalised, 1987

TABLE N

					Quintile gro	oups of equivalis	ed disposable i	ncome		– All
					Bottom	2nd	3rd	4th	Тор	households
Numbers of	house	holds								
Quintile grou	ips of u	nadjust	ed							
disposable in Bottom					870	565	44			1 479
2nd		••		 	519	496	290	174	-	1 479
3rd				 	84	338	622	278	158	1 480
4th				 	6	77	442	644	310	1 479
Top				 ••	-	3	82	383	1 011	1 479
All househ	nlds			 	1 479	1 479	1 480	1 479	1 479	7 396

the top and bottom of the income distribution (Table O). The share of disposable income of the bottom quintile group is increased by some 2 percentage points, whilst the share of the top quintile group is reduced by a similar amount—so the distribution of equivalised income is less unequal. The reason for this is that, on an unadjusted basis, there are a disproportionately high number of single person households in the bottom quintile group—and these have the lowest incomes in absolute terms, but not after equivalisation. In other words, the effect results from the positive correlation between income and household size in the unadjusted distribution.

Table P shows the effect of equivalisation on the Gini coefficient. All the coefficients for equivalisation income are lower than the unadjusted versions, indicating that the distribution of all measures of equivalised income is more equal than without this adjustment—this is the same point as in the previous paragraph. A separate point is that the effects that taxes and benefits (particularly benefits) have in reducing income inequality is greater for equivalised income than for unadjusted income.

Table Q shows the average household size by quintile groups of households ranked by disposable income, on an unadjusted and equivalised basis. On the unadjusted basis the average household size rises steadily from 1.3 in the bottom quintile group to 3.2 in the top quintile group. After equivalisation, the average household size is much more evenly spread:but the number of economically active people is still much higher in the higher income households. This table illustrates another important point, namely that throughout this article monetary amounts in equivalised \pounds a year are shown in italics. All other monetary values are ordinary (ie unequivalised) £ a year eg the disposable income of £3,810 a year for the bottom quintile group in the lower half of this table is the average of the unadjusted disposable income values for the 1,479 households in the bottom quintile of the distribution of equivalised disposable incomes (ranked in ascending order). In this article, equivalisation is only used for ranking purposes, and virtually all monetary amounts in the tables are unequivalised £ a year. We have chosen to use equivalisation only in the ranking process because we feel that to present all the tables in terms of equivalised income would be confusing and difficult to understand. Equivalised income is a theoretical concept, rather removed from the real money that households actually receive and spend.

The point and purpose of equivalisation is evident from Table Q, which indicates the two criteria for assigning households to the quintile groups of the income distribution. For example, without equivalisation, households with the smallest monetary incomes are in the bottom group—but it is clear that in most of these cases the

Percentage shares of total household disposable income, unadjusted and equivalised, 1987

TABLE O

			Percentage in each quintile group of households ranked by disposable incom					
			Unadjusted	Equivalised				
Quintile gro	oup							
Bottom		 	6	8				
2nd		 	11	12				
3rd		 	17	16				
4th		 	24	23				
Тор		 ••	43	41				
All househo	olds	 	100	100				

Gini coefficients for the distribution of income at each stage of the tax-benefit system, unadjusted and equivalised, 1987

TABLE P

52	51
52	51
40	36
37	33
40	36
36	30 '
	37 40

This is given for illustrative purposes only. Strictly speaking, it is not appropriate to equivalise final income because it contains notional money income for benefits in kind (eg from state education) that are not available for spending in cash.

small incomes have only to provide for a single household member. After equivalisation, however, the lowest quintile group contains those households whose income is smallest relative to their size and composition. This group therefore has a higher absolute average income (£3,810 compared to £2,930), but this amount has to contribute to the living standards of many more people—as shown by the average household size.



Average household size for quintile groups of disposable income, unadjusted and equivalised, 1987

TABLE Q

		Quintile grou	ups of househol	ds ranked by dis	sposable income		
		Bottom	2nd	3rd	4th	Тор	— All household:
Unadjusted							
Average per household (£ per yea	ar)						
Quintile points		 •	4 053	6 780	10 105	14 483	
Disposable income		 2 930	5 300	8 420	12 150	21 570	10 070
Average per household (number)							
Persons		 1.3	2.3	2.8	3.1	3.2	2.5
Economically active people		 0.1	0.5	1.2	1.8	2.1	1.2
Children		 0.1	0.5	8.0	8.0	8.0	0.6
Retired people		 8,0	0.7	0.4	0.2	0.1	0.4
Equivalised							
verage per household (£ per yea							
Quintile points (equivalised £ pe	r year)	•	4 603	6 344	8 606	12 274	
Disposable income		 3 810	5 570	9 100	12 150	19 740	10 070
Average per household (number)							
Persons		 2.4	2.3	2.9	2.7	2.4	2.5
Economically active people		 0.3	0.7	1.4	1.7	1.7	1.2
Children		 0.7	0.6	8.0	0.6	0.4	0.6
Retired people		 0.7	0,7	0.4	0.2	0.2	0.4

Summary statistics for the distribution of disposable income, unadjusted and equivalised, 1987

TABLE R

Unadjusted disposable income							Equivalised disposable income				
						All households	Non-retired	Retired	All households	Non-retired	Retired
Amount pe	r househ	3) blo	per yea	r)							
Mean						10 070	11 840	5 090	9 060	10 070	6 230
Median						8 370	10 330	3 940	7 420	8 530	5 010
Standard de	eviation					92	110	103	78	93	121

Summary statistics for the distribution of equivalence factors, 1987

TABLE S

	Statistics for the distribution of equivalence factors:						
	All households	Non-retired	Retired				
Number of households	7 396	5 459	1 937				
Mean equivalence value	1,11	1.22	0.81				
Minimum equivalence value	0.61	0.61	0.61				
Maximum equivalence value	e 3.85	3.85	1.99				

The comparison between ordinary £ a year and equivalised £ a year is given in Table R. The average (unadjusted) disposable income for all households is £10,070 compared with £9,060 after equivalisation. The variation of disposable income (as measured by its

standard deviation) is reduced by equivalisation from £92 to £78 a year Table S gives some summary statistics for the distribution of the equivalence factors themselves. The average equivalence value for all households is 1.11 (compared with the standard value of 1.00 for a married couple).

Table T shows the results of equivalising on the composition of the top and bottom quintile groups of disposable income. The proportion of retired households in the bottom quintile group is reduced from over two-thirds to under a half and is there is also a large drop in single person (non-retired) households. In contrast, the proportion of 2 adults with children households rises from 2 to 19 per cent. At the top of the income distribution, the proportion of large households (3 or more adults) falls markedly as does the 2 adults with children group, whereas 1 adult and 2 adult households increase substantially. A more detailed version of the distribution of households is given in Table U. This gives the number of households in each quintile group of disposable income, for uadjusted and equivalised measures.

Composition of the top and bottom quintile groups of households, ranked by disposable income, unadjusted and equivalised, 1987

TABLE T

				Average	Bottom quintile gro	ир	Top quintile group			
		equivalence value	Unadjusted	Equivalised	Unadjusted	Equivalised (percent)				
			(percent)	(percent)	(percent)					
Retired Non-retired				0.81	68	48	4	8		
1 adult				0.61	17	7	3	16		
2 adults				1.02	5	8	28	40		
1 adult with child	ren¹		••	1.00	7	9	-			
2 adults with chil				1.41	2	19	30	20		
3 or more adults	'	••	••	1,70	1	8	35	14		
All household type	5		••	1.11	100	100	100	100		

This group is smaller than the category of "one parent families" because some of these families will be contained in larger household types.
 With or without children

Number of households in the survey by quintile groups, ranked by disposable income, unadjusted and equivalised, 1987

TABLE U

				Household t	ype									
				Retired	Non-retired	Non-retired								
				1 adult	2 adults	1 adult with children ¹	2 adults with children	3 or more adults	house- hold types					
uintile group disposable i		adjusted	ı											
Bottom				1 006	246	74	108	36	9	1 479				
2nd		••		578	230	217	131	264	59	1 479				
3rd				206	189	371	33	521	160	1 480				
4th	••			87	87	417	8	543	337	1 479				
Тор			••	60	47	411	4	442	515	1 479				
All househ	olds			1 937	799	1 490	284	1 806	1 080	7 396				
uintile group disposable i		ivalised	i											
Bottom				712	109	119	137	280	115	1 479				
2nd				690	112	136	86	300	147	1 478				
3rd				259	132	260	36	489	291	1 481				
4th				164	172	372	18	442	321	1 479				
Тор				112	274	603	7	295	206	1 479				
All househ	olde			1 937	799	1 490	284	1 806	1 080	7 396				

¹ This group is smaller than the category of "one parent families" because some of these families will be contained in larger household types.

APPENDIX 1

Detailed tables with fine breakdown of income components for quintile and decile groups, and results for different types of household

CONTENTS

CONTENTS												
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By decile groups of households		••						••			4	
Average incomes, taxes and benefits, 1987												
By quintile groups within household type		••		••			••				5	
Distribution of households co-operating in the F	amily I	Expend	diture S	Survey,	1987	••					6	



TABLE 1

Contributory (National Insurance, etc.) Retirement												£ million	Percentage of total expenditur
Contributory (National Insurance, etc.) Retirement	llocated expenditure											· · · · · ·	
Retirement 18 510 11,0 Widows and guardians 840 0.5 Unemployment 1 600 1.0 Sickness/ Statutory sick pay 940 0.6 Invalidity 3010 1.8 Maternity 270 0.2 Disablement 460 0.3 Other 160 0.1 Other 160	Allocated cash benefits	s											
Widows and guardians 840 0.5 Unemployment 1600 1.0 Sickness/ Statutory sick pay 940 0.6 Invalidity 3 010 1.8 Maternity 270 0.2 Disablement 460 0.3 Other 160 0.1 Non-contributory Family benefits 5 080 3.0 Supplementary benefits 8 250 4.9 War pensions 550 0.3 Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind Health services 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies² 1 260 0.7 mallocated expenditure 58 680 51.0 capital expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt	Contributory (Nat	tional Inst	Jrance	, etc.	.)								
Unemployment	Retirement				**							18 510	11.0
Unemployment	Widows and	guardians	S							,.		840	0.5
Sickness Statutory sick pay 940 0.6 Invalidity 3 010 1.8 Maternity 270 0.2 0.2 Disablement 460 0.3 0.16 0.1 0.												1 600	1.0
Invalidity 3 010 1.8 Maternity 270 0.2 0			k pav									940	0.6
Maternity 270 0.2 Disablement 460 0.3 Other 160 0.1 Non-contributory 500 3.0 Family benefits 500 3.0 Supplementary benefits 8 250 4.9 War pensions 550 0.3 Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 85 680 51.0 natlocated expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Dobt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6		-										3 010	1.8
Disablement 460 0.3 Other 160 0.1 Non-contributory 5080 3.0 Family benefits 5080 3.0 Supplementary benefits 8 250 4.9 War pensions 550 0.3 Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind 670 0.4 Health services 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 anallocated expenditure 85 680 51.0 Other current expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6			••									270	
Other 160 0.1 Non-contributory Family benefits 5 080 3.0 Supplementary benefits 8 250 4.9 War pensions 550 0.3 Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 Mailocated expenditure 58 890 35.0 Capital expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6			-	••						• • •			
Non-contributory Family benefits 5 080 3.0 Supplementary benefits 8 250 4.9 War pensions 550 0.3 Other													
Family benefits 5 080 3.0	Other						••		••		••	160	0.7
Supplementary benefits 8 250 4.9													
War pensions 550 0.3 Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind Health services 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 mallocated expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6	Family benef	its										5 080	3.0
Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind Health services 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 Inallocated expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6	Supplementa	iry benefit	ts									8 250	4.9
Other 2 140 1.3 Student maintenance grants² 750 0.4 Rent rebates and rent allowances 3 520 2.1 Allocated benefits in kind 20 110 12.0 Health services 20 110 12.0 Education 16 160 9.6 School meals and welfare milk 670 0.4 Housing subsidy 1 380 0.8 Travel subsidies³ 1 260 0.7 mallocated expenditure 85 680 51.0 Capital expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6												550	0.3
Rent rebates and rent allowances 3 520 2.1												2 140	1.3
Rent rebates and rent allowances 3 520 2.1	Student maintenan	co grante	2									750	0.4
Allocated benefits in kind Health services				,-	•-	••	••		••				
Health services	Henri repates and it	ent anowa	IIIC e s	••			••				••	3 320	2.1
Education	Allocated benefits in ki	ind											
School meals and welfare milk	Health services											20 110	12.0
Housing subsidy 1 380 0.8 Travel subsidies 1 260 0.7	Education											16 160	9.6
Housing subsidy 1 380 0.8 Travel subsidies 1 260 0.7	School meals and v	velfare mi	ilk									670	0.4
Travel subsidies 3	Housing subsidy											1 380	0.8
85 680 51.0													
Other current expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6	114701 000010100	••				••	••	••		••	••	. 200	0.7
Other current expenditure 58 890 35.0 Capital expenditure 3 080 1.8 Debt interest 17 670 10.5 Non-trading capital consumption 2 730 1.6												9E 690	
Capital expenditure <	nallocated expenditur	'e										00 000	31.0
Capital expenditure <	Other current expendit	ture										58 890	35.0
Debt interest				••	••	••					• • •		
Non-trading capital consumption 2 730 1.6											••		
·													
otal expenditure	Non-trading capital col	nsumptior	'		••	**	••					2 /30	1.0
nai experioritire	atal avagaditura											160.050	100.0
	oral experionore						••	••			••	100 000	100.0

Including benefits to people not living in private households.
 Estimated
 Including concessionary fares expenditure.

Source: United Kingdom National Accounts, 1988 Edition, Table 9.4



Financing of general government expenditure in 1987

TABLE 2

										£ million	Percenta of total financing
ocated financing ¹											
Income tax ²										40 300	24.0
Employees' and self-employe	ed NI c	ontribu	utions				 .			13 790	8.2
Indirect taxes											
Domestic rates (net of reb	oates)			••						7 750	4.6
Taxes on final goods and	servic	æs									
VAT			• ·		••					17 870	10.6
Duty on beer and cide	er									1 890	1.1
Duty on wines and sp	oirits									1 970	1.2
Duty on tobacco										4 670	2.8
Duty on hydrocarbon										3 540	2.1
Car tax and vehicle e										2 290	1.4
		-		••	••	••	••	••	••		
Other		••			**			••	••	2 690	1.6
Taxes and NI contribution			_	oods	and ser	vices					
Employers' NI contrib							••		••	4 830	2.9
Commercial and indu										4 160	2.5
Duty on hydrocarbon	oils									2 050	1.2
										1 200	0.7
Vehicle excise duty										530	
			••			••		••	••		0.3
Other		••	••				••	••		930	0.5
allocated financing										110 460	65.7
Employers' NI contributions n	ot allo	cated								9 830	5.9
Indirect taxes											
Commercial and industria	al rates	not al	located	••					••	4 880	2.9
Other taxes on expenditu	re not	allocat	ted								
VAT										5 500	3.3
Duty on hydrocarbon	oils									1 840	1.1
Other					**				••	4 220	2.5
Other taxes											
										13 470	8.0
	••					••	••	••		1 750	
Corporation tax			••		**						1.0
Corporation tax Petroleum revenue tax		••								3 360	2.0
Corporation tax Petroleum revenue tax				••							
Corporation tax Petroleum revenue tax					••					10 540	6.3
Corporation tax Petroleum revenue tax Taxes on capital Other receipts³						**					
Corporation tax Petroleum revenue tax Taxes on capital Other receipts3 n-trading capital consumption										2 730	1.6
Corporation tax Petroleum revenue tax Taxes on capital Other receipts³									 		
Corporation tax Petroleum revenue tax Taxes on capital Other receipts3 n-trading capital consumption										2 730	1.6

Source: United Kingdom National Accounts, 1988 Edition, Table 9.1

Including taxes paid by people not living in private households.
 Net of tax relief at source on mortgage interest and life assurance premiums.
 Receipts of rent, royalties and licence tees on oil and gas production, interest, dividends, trading income and miscellaneous transactions (net).



Average incomes, taxes and benefits, 1987

By quintile groups of households

TABLE 3

		Quintile grou	ps of households i	anked by equivalis	ed disposable incom		All hous e -
		Bottom	2nd	3rd	4th	Тор	holds
verage per household (£ a year)							
uintile points (<i>equivalised</i> £) Number of households in the sample		1 479	4 604 1 479	6 349 1 480	8 610 1 479	<i>12 276</i> 1 479	7 396
riginal income Earnings of main earner		781	2 653	6 627	9 384	16 896	7 268
Other earnings		95	425	1 695	3 537	5 385	2 22
Occupational pensions, annuities	**	135 135	406 259	623 403	778 631	1 144 1 807	617 647
Investment Income		77	106	124	177	237	144
Total		1 223	3 851	9 473	14 506	25 469	10 90
rect benefits in cash Contributory							
Retirement pension	••	1 234	1 274	696	392	290	777
Unemployment benefit Invalidity pension and allowance		84 98	68 126	69 105	65 50	35 22	64 80
Statutory sick pay		8	14	29	44	30	25
Industrial injury disablement benefit	••	2	19	19	11	6	12
Sickness, industrial injury benefit Widows' benefit	••	15 27	5 36	10 41	6 38	7 27	34
Statutory maternity pay/allowance Miscellaneous contributory benefits		4 7	5 8	13	22	9	11
•		,	•	5	3	4	•
Non-contributory Supplementary benefit		767	320	160	56	30	267
Child benefit		270 505	232 444	304 120	226 29	144	23: 22:
Housing benefit Attendance allowance		505 10	444 42	120 54	29 19	13 9	223
Mobility allowance	**	10	21	38	22	5	19
War pensions		3	10	17	12	7	10
Severe disablement allowance Student maintenance awards		31 38	64 32	64 40	20 21	7	37 27
Government training schemes		26	28	37	19	9	24
Family income supplement Other non-contributory benefits		17 16	6 21	6 43	1 16	1 11	€ 21
Total cash benefits		3 173	2 776	1 870	1 072	668	1 912
ross income		4 396	6 627	11 343	15 578	26 136	12 816
	-					20 .00	
frect taxes and Employees' NIC Income tax		140	489	1 401	2 377	5 106	1 903
less: Tax relief at source ¹		40	65	190	294	483	214
Employees' national Insurance contribu	tions	51	199	551	836	1 151	558
Domestic rates (gross) Total		431 581	438 1 061	479 2 241	512 3 431	622 6 396	49 6 2 742
isposable income		3 815	5 566	9 102	12 146	19 740	10 074
quivalised disposable income		3725	5 372	7 446	10 228	18 539	9 062
Taxes on final goods and services							
VAT		310	430	737	957	1 236	734
Duty on tobacco		186	199	259	230	169	209
Duty on beer and cider Duty on wines	••	38 7	52 10	95 20	115 31	121 70	84 27
Duty on wines		24	34	66	79	111	63
Duty on hydrocarbon oils		61	81	165	217	256	156
Car tax		7 30	14 41	25 75	49 98	59 111	31 71
Vehicle excise duty Television licences		43	45	75 51	52	54	49
Stamp duty on house purchase	••	4	6	14	22	42	18
Customs' duties		14 17	18 22	28 42	35 40	40 56	27
Betting taxes Other		15	14	20	22	23	35 19
Intermediate taxes							
Commercial and Industrial rates		88	105	165	201	262	164
Employers' NI contributions Duty on hydrocarbon oils		97 44	116 51	183 77	226 94	296 119	184 77
Vehicle excise duty		10	12	19	23	30	19
Other		44	53	82	100	128	82
otal indirect taxes		1 038	1 303	2 122	2 592	3 183	2 048
ost-lax income		2 776	4 263	6 980	9 555	16 557	8 026
enefits in kind							
Education		796 1 029	656 976	837	628	360	656
National health service Housing subsidy		1 029	105	922 56	790 32	633 15	870 61
Rali travel subsidy		11	12	26	37	66	30
Bus travel subsidy		32	35	24	19	18	26
School meals and welfare milk	**	78 2 045	31 1 815	24 1 890	14 1 520	8 1 (01	31 1.674
		2 045	1 615	1 990	1 520	1 101	1 674
Total							

¹ On mortgage interest and life assurance premiums.



Average incomes, taxes and benefits, 1987

By decile groups of households

TABLE 4

		Decile (groups of h	ouseholds	ranked by e	quivalised	disposable I	псотте				All hous
		Bottom	2nd	3rd	4th	51h	6th	7th	8th	91h	Тор	holds
verage per household (£ a year)			3 876	4 603	5 330	6 344	7419	8 606 1:	0 114	12 274 1	5 843	
ecile points (<i>equivalised £</i>) Number of households in the sample		740	739	740	739	740	7419	739	740	739	740	73
iginal income		600	961	1 680	3 628	5 652	7 603	8 408	10 359	13 009	20 777	72
Earnings of main earner Other earnings		79	111	256	595	1 214	2 177	2 955	4 118	5 035	5 733	22
Occupational pensions, annuities		87	184	337	476	614	631	792	763	777	1 511	6
investment income		119	151	208	310	365	442	566	695	982	2 631	6
Other income	**	72 958	81 1 489	92 2 573	121 5 131	99 7 944	149 11 002	143 12 865	210 16 145	171 19 975	303 30 955	10 9
		336	1 405	2 3/3	3 131	7 544	11002	12 000	10 145	19 97 3	30 333	10 5
ect benefits in cash Contributory												
Retirement pension	••	1 006 102	1 463 65	1 429 67	1 119 70	806 74	587 64	476 65	308 65	275 39	304 31	7
Unemployment benefit Invalidity pension and allowance		100	96	73	179	122	88	66	33	21	24	
Statutory sick pay		8	7	9	18	30	27	42	46		19	
Industrial injury disablement benefit	i		4	12		25	13	15	7	10	3	
Sickness, industrial injury benefit Widows' benefit		17 28	13 26	6 34	4 37	14 51	7 31	9 41	4 36		6 40	
Statutory maternity pay/ allowance		3	5 8	4 8	7	12	14	18	25 2	9	10	
Miscellaneous contributory benefits		•			,	5	4	3	4	2	2	
Von-contributory Supplementary benefit		874	661	342		197	122	70	42		17	
Child benefit		310	230	199		310	297	244	209		113	
Housing benefit	**	437	574	574 25	314 59	166 69	75 38	42 21	17	20	7 8	;
Attendance allowance		11	20 9	14	59 27	49	27	26	18 18	10 2	8	
War pensions		1	5	2	18	14	20	13	12		6	
Severe disablement allowance		9	53	43	84	64	64	23	16		11	
Student maintenance awards		38	39	41	23	41	39	15	26			
Government training schemes		35	17	22		29	45	22	16		1	
Family income supplement Other non-contributory benefits		20 12	15 21	9 15		10 49	2 38	1 12	2 19		6	
Total cash benefits	,,	3 017	3 330	2 929	2 622	2 138	1 603	1 224	920	720	616	1 9
oss income		3 975	4 819	5 503	7 752	10 082	12 604	14 088	17 065	20 694	31 571	12
ect taxes and Employees' NIC												
Income tax		128	151	310		1 150	1 652	2 027	2 727	3 699	6 512	1 9
less: Tax relief at source		37	43	42		160	220	262	326	418	548	
Employees' national Insurance contri		37 431	65 432	120 426		456 460	646 498	743 491	929 533	1 128 570	1 175 673	
Domestic rates (gross) Total		559	604	814	1 308	1 906	2 576	3 000	3 863		7811	2
sposable income		3 4 1 5	4 214	4 689	6 444	8 176	10 029	11 089	13 202	15 715	23 760	10 (
uivalised disposable income		3 199	4 251	4 947	5 798	6 874	8 018	9 327	11 128	13 823	23 248	9
Taxes on final goods and services												
VAT	**	315	304	339	521	656	818	895	1 019	1 124	1 348	7
Duty on tobacco		187	185	167	232	256	261	230	231	185	152	;
Duty on beer and cider		37 7	39	39 8	65 12	83	108 24	10 5 27	124 35	127 57	116	
Duty on wines	••	20	6 28	31	38	15 55	77	72	85		82 132	
Duty on hydrocarbon oils		64	57	56	106	148	181	200	235		258	
Car tax	••	5	8	12		22		47	52		62	
Vehicle excise duty		31	28	30	52	66	84	94	102		111	
Television licences	••	43	43	43		49	52	52	53		53	
Stamp duty on house purchase Customs' duties		6 14	3 15			12 25		20 34	25 36		52 43	
Betting taxes		18	16						38		63	
Other	-	14	16			20			22		23	
termediate taxes		89	87	89	121	153	177	189	214	236	289	
Commercial and industrial rates		98	95	98		169			214	236 265	327	
Outy on hydrocarbon oils		44	44	43		73			101	107	131	
/ehicle excise duty		10	10			17	20	21	25		33	
Other		45	43	44	62	76	89	95	106	116	140	
tal indirect taxes		1 048	1 026	1 058	1 548	1 940	2 304	2 439	2 744	2 951	3 4 1 5	2
st-tax income		2 367	3 187	3 630	4 896	6 236	7 725	8 649	10 459	12 764	20 345	8
enefits in kind			***			0.00						
Education	••	907	685			808 947		699	557 781		233	
National health service		1 002 75	1 056 122					799 32	781 32			1
Housing subsidy		10	122					32	32 42			
Bus travel subsidy		27	37			24	24		18			
School meals and welfare milk		98	59	38					13		6	
Total		2 118	1 971	1 858			1 889		1 443		958	1 (
inal income		4 485	5 158	5 488	6 668	8 127	9 6 1 4	10 247	11 902	14 009	21 303	97

¹ On mortgage interest and life assurance premiums.

TABLE 5

			os of fibuseriolos	anked by equivals	sed disposable Incon		All
		Bottom	2nd	3rd	4th	Тор	groups
verage per household (£ a year)) 1 adult retired							
uintile points (equivalised £)			3 944	4 661	5 174	6 522	
Number of households in the samp	le	212	212	211	212	212	1 05
riginal income	, .,	237	421	480	1 089	6 478	1 74
Direct benefits in cash Contributory							
Retirement pension		1 974 16	2 070 2	2 046 1	2 059 23	1 902 37	2 01 1
I I I I b I b		-		- :	7	14	,
Other		38 2 029	20 2 09 1	40 2 087	23 2 111	105 2 058	4
Total contributory Non-contributory		2 025	2 09 1	2 007	2111	2 056	2 07
Supplementary benefit .		62	73	60	60	41	5
Child benefit		167	488	793	656	5 177	45
Sickness/ disablement related .		-	6	11	59	112	3
		15 244	567	25 888	33 807	139 473	4 59
!	•						
oss income	. 	2 509	3 079	3 455	4 007	9 009	4 41
ncome tax1 and Employees1 NIC . Comestic rates (gross)		43 411	51 391	58 403	152 423	1 418 514	34 42
sposable income		2 055	2 637	2 993	3 432	7 077	3 63
Equivalised disposable income .		3 369	4323	4 907	5 627	11 554	5 95
axes on final goods and services .		305	304	282	359	896	42
- 4	,	176	153	147	177	360	20
st-tax income		1 575	2 179	2 564	2 897	5 821	3 00
Benefits in kind Education						14	
National health service .		994	943	876	932	854	92
Housing subsidy		33	102	125	141	51	9
Travel subsidies		37	39	54	51	46	4
nalincome		2 638	3 263	3 619	4 020	6 785	4 06
) 2 or more adults retired							
uintile points (equivalised £) .			4 098	4 753	5 950	8 204	
Number of households in the samp	ole	176	175	176	175	176	87
		578	806	2 046	4 444	14 343	4 44
Direct benefits in cash Contributory							
Retirement pension	·· ··	2 879	3 299	3 271	2 938	2 779	3 03
(1		122 18	81 10	253 34	280 20	208 23	18 2
Alban .		17	17	18	30	16	2
Total contributory		3 036	3 407	3 576	3 268	3 026	3 26
Non-contributory Supplementary benefit		211	146	48	87	4	9
Child benefit		20	4		2	6	•
Housing benefit Sickness/ disablement related		247 26	479 85	248 322	91 352	5	21
Other.		43	51	85	102	247 19	20
T-4-1		546	765	704	635	281	58
ross income		4 160	4 978	6 325	8 347	17 650	8 29
Income tax' and Employees' NIC .		41 441	49 438	242 474	704 506	3 656	94
					506	681	50
sposable income Equivalised disposable income .	·· ··	3 678 3 511	4 490 <i>4 405</i>	5 609 <i>5 344</i>	7 137 <i>6 906</i>	13 314 <i>12 635</i>	6 84 <i>6 5</i> 6
Taxes on final goods and services.	•	759	743	943	1 250	1 798	1 09
Intermediate taxes	• ••	302	269	346	419	670	40
ost-tax income		2 617	3 478	4 321	5 469	10 845	5 34
Benefits In kind Education		63	-	34	13	46	3
National health service		1 448	1 487	1 424	1 385	1 267	1 40
Toward and adding		48 68	100 77	77 76	49 63	11	5
School meals and welfare milk		4	,,	76	03	93	7
Final income		4 248	5 142	5 932	6 980	12 262	6

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

Average incomes, taxes and benefits, 1987

By quintile groups within household type

TABLE 5 (continued)

		Quintile groups	s of households t	anked by equivalis	ed disposable incon	ne	- A%	
		Bottom	2nd	3rd	4th	Тор	All groups	
verage per household (£ a yea i) 1 adult non-retired	ar)					· —		
uintile points (equivalised £)			5 141	7 934	11 182	15 789		
Number of households in the sa	ımple	160	160	158	161	160	799	
riginal income		754	3 565	7 104	10 630	19 596	8 336	
Direct benefits in cash Contributory								
Retirement pension		58	242	84	17	51	90	
Sickness/ injury related Unemployment benefit		124 110	168 62	50 67	32 8	29 14	8 5	
Other		123	178	100	58	83	10	
Total contributory		415	649	302	116	177	33	
Non-contributory		719	241	98	24	17	~	
Supplementary benefit Child benefit		- 19	- 241	90	-	2	22	
Housing benefit		686	352	100	16	3	23	
Sickness/ disablement related	5	146	143	64	8	52	6	
Other Total non-contributory		168 1 718	49 786	9 270	16 64	1 76	4 58	
oss income		2 887	5 000	7 676	10 811	19 849	9 25	
Income tax' and Employees' NI		118	662	1 564	2 473	4 602	1 88	
Domestic rates (gross)		370	349	386	383	508	39	
sposable income Equivalised disposable income		2 400 3 934	3 990 <i>6 540</i>	5 725 9 386	7 955 13 040	14 739 24 162	6 96 11 42	
axes on final goods and service		514 177	717 235	1 043 316	1 171 404	1 742 580	1 03	
st-tax incomé		1 709	3 038	4 366	6 380	12 417	34 5 58	
enefits in kind		1709	3 036	4 300	0.300	12417	5 50	
Education		438	60	22	22		10	
National health service		259	271	242	224	229	24	
Housing subsidy		90 24	85 31	62	35	11	5	
Travel subsidies School meals and welfare milk		1	-	33	64	52	4	
nal income		2 521	3 485	4 726	6 725	12 708	6 03	
) 2 adults non-retired								
ulntile points (equivalised £)			6 665	9 363	12 238	16 400		
Number of households in the sar	mple	298	298	298	298	298	1 49	
iginal Income		3 722	9 015	13 562	18 381	30 803	15 09	
Direct benefits in cash Contributory								
Retirement pension		467	553	209	115	203	30	
Sickness/ injury related		460 143	245 72	117 48	98 20	64 28	19	
Unemployment benefit Other		60	44	25	44	27	6 4	
Total contributory		1 131	914	399	278	321	60	
lon-contributory		C20	0.4	4.5	0.5			
Supplementary benefit Child benefit		529	94 1	15	25 2	12 4	13	
Housing benefit		351	64	18	9	2	8	
Sickness/ disablement related		174	196	19	17	8	8	
Other		87 1 141	56 410	40 92	14 67	8 34	4 34	
Total non-contributory		. , , , ,	410	JŁ	0,	31 158		
Total non-contributory		5 994	10 339	14.052	18 726			
oss income		5 994	10 339	14 052	18 726	31 156	16 05	
ross income Income tax' and Employees' NII		5 994 572 448	10 339 1 738 449	14 052 2 709 452	18 726 4 041 516	7 278 673	3 26	
ross income Income tax' and Employees' Ni Domestic rates(gross)		572	1 738	2 709	4 041	7 278	3 26 50 12 27	
ross income Income tax' and Employees' Ni Domestic rates (gross) sposable income Equivalised disposable incom Taxes on final goods and service	C	572 448 4 974	1 738 449 8 152	2 709 452 10 892 10 723 1 739	4 041 516 14 169 14 011 2 113	7 278 673 23 207 22 965 2 665	3 26 50 12 27 12 11	
Income tax¹ and Employees¹ Ni Domestic rates(gross) sposable income Equivalised disposable incom Taxes on final goods and servic Intermediate taxes	C	572 448 4 974 <i>4 875</i> 1 148	1 738 449 8 152 8 011 1 489	2 709 452 10 892 10 723	4 041 516 14 169 14 011	7 278 673 23 207 22 965	3 26 50 12 27 12 11 1 83 59	
Income tax' and Employees' NI Domestic rates (gross) sposable income Equivalised disposable incom Taxes on final goods and servic Intermediate taxes ost-tax income Benefits in kind		572 448 4 974 4 875 1 148 360 3 466	1 738 449 8 152 8 011 1 489 458 6 204	2 709 452 10 892 10 723 1 739 560 8 592	4 041 516 14 169 14 011 2 113 659 11 396	7 278 673 23 207 22 965 2 665 934	3 26 50 12 27 12 11 1 83 59 9 85	
ross income Income tax' and Employees' Ni Domestic rates (gross) isposable income Equivalised disposable incom Taxes on final goods and servic Intermediate taxes ost-tax income Benefits in kind Education	C	572 448 4 974 4 875 1 148 360 3 466	1 738 449 8 152 8 011 1 489 458 6 204	2 709 452 10 892 10 723 1 739 560 8 592	4 041 516 14 169 14 011 2 113 659 11 396	7 278 673 23 207 22 965 2 665 934 19 608	16 05 3 26 50 12 27 12 11 1 83 59 9 85	
ross Income Income tax' and Employees' Nil Domestic rates(gross) isposable income Equivalised disposable incom Taxes on final goods and servic Intermediate taxes ost-tax income Benefits in kind Education National health service		572 448 4 974 4 875 1 148 360 3 466	1 738 449 8 152 8 011 1 489 458 6 204	2 709 452 10 892 10 723 1 739 560 8 592	4 041 516 14 169 14 071 2 113 659 11 396	7 278 673 23 207 22 965 2 665 934 19 608	3 26 50 12 27 12 11 1 83 59 9 85	
Income tax' and Employees' Ni Domestic rates (gross) isposable income Equivalised disposable incom Taxes on final goods and service Intermediate taxes ost-tax income Benefits in kind Education National health service	C	572 448 4 974 4 875 1 148 360 3 466	1 738 449 8 152 8 011 1 489 458 6 204	2 709 452 10 892 10 723 1 739 560 8 592	4 041 516 14 169 14 011 2 113 659 11 396	7 278 673 23 207 22 965 2 665 934 19 608	3 26 50 12 27 12 11 1 83 59 9 85	

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



Average incomes, taxes and benefits, 1987

By quintile groups within household type

TABLE 5 (continued)

			Quintile group	os of households r	groups of households ranked by equivalised disp		19	AII
			Bottom	2nd	3rd	4th	Тор	All groups
verage per household (£ a) 3 or more adults non-re								
ulatile points <i>(equivalised £)</i>				6 679	8 427	10 299	13 130	
umber of households in th	e sample		136	137	136	137	136	68
iglnat Income			6 337	12 498	16 420	23 194	36 801	19 04
Direct benefits in cash Contributory								
Retirement pension			513	717	636	229	246	46
Sickness/ injury related Unemployment benefit			446 151	304 118	223 86	145 101	142 104	25 11
Other			43	69	51	2	30	3
Total contributory	**		1 153	1 208	996	477	522	87
lon-contributory Supplementary benefit			972	340	142	83	106	32
Child benefit			21	8	14	3	11	1
Housing benefit		**	239	86	110	8	66	10
Sickness/ disablement re			255 414	300 240	147 172	122 161	46 75	17 21
Other Total non-contributory			1 901	974	585	376	304	82
oss income	••		9 390	14 680	18 001	24 046	37 627	20 74
ncome tax ² and Employee	s' NIC		1 113	2 350	3 255	5 063	7 641	3 86
Domestic rates (gross)			468	508	491	582	657	54
sposable income Equivalised disposable l	income		7 809 <i>5 009</i>	11 822 7 610	14 255 9 273	18 402 11 647	29 330 18 587	16 32 10 42
Faxes on final goods and s			2 000	2 363	2 531	3 119	3 617	272
ntermediate taxes			568	676	773	943	1 191	83
est-tax income			5 241	8 783	10 951	14 339	24 521	12 76
Benefits in kind Education			1 254	552	268	312	205	51
National health service			944	981	927	857	921	9;
Housing subsidy			89	64	20	49	26	
Travel subsidies School meals and wellar	re milk		100	69 1	92	68	165	Ğ
nal Income			7 628	10 451	12 259	15 624	25 837	14 35
i) 1 adult with children								
uintile points (equivalised £	E)			3 858	4 377	5 050	6 494	
Number of households in t	the sample		57	57	56	57	57	
	the sample		497	375	56 955	57 2 438	57 8 624	
riginal Income Direct benefits in cash				375				
riginal Income Direct benefits in cash Contributory Retirement pension			497	375 46		2 438	8 624	2 58
riginal Income Direct benefits in cash Contributory Retirement pension Sickness/ injury related			497	375		2 438	8 624 - 57	2 58
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit			497	375 46		2 438	8 624	2 58
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory			497 - 21 8	375 46 58	955	2 438 - 10 18	8 624 - 57 6	2 58 2
iginal Income Direct benefits in cash Contributory Retirement pension Sickness' Injury related Unemployment benefit Other Total contributory Non-contributory		 	497 21 8 7 36	46 58 - -	955	2 438 10 18 121 149	8 624 57 6 194 256	2 58 2 8
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory			497 - 21 8 7	375 46 58	955	2 438 10 18 121 149 1 285 683	8 624 - 57 6 194	2 58 2 6 10 1 43
iginal Income Direct benefits in cash Contributory Retirement pension Sickness' Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit		 	497 - 21 8 7 36	375 46 58 - 104 2 101 777 1 164	955 - - - - - - 1 968	2 438 10 18 121 149 1 285 683 897	8 624 57 6 194 256 457 653 325	2 58 2 6 10 1 43 65 90
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement or	 		497 21 8 7 36 1 349 736 951	375 46 58 - 104 2 101 777 1 164 39	955 - - - - - 1 968 641 1 176	2 438 10 18 121 149 1 285 683 897 56	8 624 57 6 194 256 457 653 325	2 58 8 10 1 43 69 90
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement rother		 	497 21 8 7 36 1 349 736	375 46 58 - 104 2 101 777 1 164	955 - - - - 1 968 641	2 438 10 18 121 149 1 285 683 897	8 624 57 6 194 256 457 653 325	2 58 6 10 1 44 68 90
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement re Other Total non-contributory			497 21 8 7 36 1 349 736 951	375 46 58 - 104 2 101 777 1 164 39 18	955 	2 438 10 18 121 149 1 285 683 897 566 224	8 624 57 6 194 256 457 653 325	2 58 6 10 1 43 63 90 10 3 18
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement re Other Total non-contributory	elated	-	497 21 8 7 36 1 349 736 951 30 3 067 3 599	375 46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43	955 	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098	2 58 6 10 1 43 68 90 10 3 18 5 84
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement of Other Total non-contributory oss income	elated	-	497 21 8 7 36 1 349 736 951 30 3 067 3 599 19 463	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439	955 1 968 641 1 176 69 3 854 4 809 54 446	2 438 100 18 121 149 1 285 683 997 56 224 3 145 5 732 85 455	57 6 194 256 457 653 325 192 1 627 10 507 1 098 531	2 56 6 10 1 43 65 90 3 15 5 84
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Non-contributory Supplementary benefit Child benefit Housing benefit Total non-contributory ross income Income tax² and Employed Domestic rates(gross) sposable income	elated		497 21 8 7 36 1 349 736 951 30 3 067 3 599	375 46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43	955 	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098	2 58 6 10 1 43 65 90 1 10 3 18 5 84 23 46
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Non-contributory Supplementary benefit Child benefit Housing benefit Total non-contributory ross income Income tax² and Employed Domestic rates (gross) sposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income Equivalised disposable income	elated		497 21 8 7 36 1 349 736 951 30 3 067 3 599 -19 463 3 155 3 073 598	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396 1 263	2 58 6 10 1 43 65 90 3 15 5 84 23 46 5 34
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement of Other Total non-contributory ross income Income tax² and Employed Domestic rates (gross) isposable income Equivalised disposable inc Taxes on final goods and s intermediate taxes	elated		497 21 8 7 36 1 349 736 951 30 3 067 3 599 -19 463 3 155 3 073	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677	2 438 100 18 121 149 1 285 683 997 56 224 3 145 5 732 85 455 5 192 5 620	57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396	2 58 6 10 1 43 68 90 1 10 3 18 5 84 23 46 5 14 5 36
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Housing benefit Total non-contributory ross income Income tax² and Employee Domestic rates(gross) isposable income Equivalised disposable income	es' NIC		497 21 8 7 36 1 349 736 951 307 3 599 -19 463 3 155 3 073 598 243	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584 240	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571 226	2 438 100 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748 305	57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396 1 263 435	2 58 6 10 1 43 68 90 1 10 3 18 5 84 23 46 5 14 5 36
riginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement re Other Total non-contributory ross income Income tax² and Employed Domestic rates (gross) isposable income Equivalised disposable income Equivalised disposable income Taxes on final goods and s intermediate taxes ost-tax income Benefits in kind Education	es' NIC		497 21 8 7 36 1 349 736 951 30 3 067 3 599 -19 463 3 155 3 073 598 243 2 314	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584 240 3 359	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571 228 3 512	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748 305 4 139	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396 1 263 435 7 179	2 58 2 6 10 1 43 6 5 90 3 15 5 84 23 46 5 14 5 36 25 4 10
iginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement in Other Total non-contributory ross income Income tax² and Employed Domestic rates(gross) isposable income Equivalised disposable income Equivalised disposable income Sanetits in kind Education Sanetits in kind Education Mational health service	elated ess' NIC		497 21 8 7 36 1 349 736 951 30 3 067 3 599 -19 463 3 155 3 073 598 243 2 314	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584 240 3 359	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571 226 3 512	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748 305 4 139	8 624	2 58 2 6 10 1 43 68 90 3 15 5 84 23 46 5 14 5 38 7 5 29 4 10
riginal Income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Sickness/ disablement in Other Total non-contributory ross income Income tax² and Employed Domestic rates(gross) isposable income Equivalised disposable inc Taxes on final goods and s intermediate taxes ost-tax income Benefits in kind Education National health service Retirement of the control of	elated		497 21 8 7 36 1 349 736 951 30 3 067 3 599 -19 463 3 155 3 073 598 243 2 314	46 58 - 104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584 240 3 359	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571 228 3 512	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748 305 4 139	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396 1 263 435 7 179	2 58 2 6 10 1 43 65 90 3 15 5 84 23 46 5 14 5 32 4 10 1 55 6 5 6 5 6 5
Sickness/ Injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit Housing benefit Total non-contributory Total non-contributory Total non-contributory Income tax² and Employed Domestic rates (gross) isposable income Equivalised disposable income Equivalised disposable income Case on final goods and s Intermediate taxes ost-tax income Benefits In kind Education National health service	elated		497 21 8 7 36 1 349 736 951 307 3 599 -19 463 3 155 3 073 598 243 2 314 1 633 756 142	46 58 -104 2 101 777 1 164 39 18 4 100 4 580 -43 439 4 183 4 126 584 240 3 359	955 1 968 641 1 176 69 3 854 4 809 54 446 4 310 4 677 571 226 3 512	2 438 10 18 121 149 1 285 683 897 56 224 3 145 5 732 85 455 5 192 5 620 748 305 4 139	8 624 57 6 194 256 457 653 325 192 1 627 10 507 1 098 531 8 878 9 396 1 263 435 7 179	28 2 58 2 58 2 58 6 10 1 43 6 99 0 1 1 10 3 15 5 84 6 5 14 5 34 6 5 14 5 34 6 5 14 5 34 6 10 1 5 9 6 10 1 5 9 6 10 1 5 9 1 6 9 1 7 5 9 1 6 9 1 7 5 9 1 6 9 1 7 5 9 1 7

This group is smaller than the category of "one parent families" because some of these families will be contained in larger household types.
 After tax relief at source on mortgage interest and life assurance premiums.



Average Incomes, taxes and benefits, 1987

By quintile groups within household type

TABLE 5 (continued)

			Quintile grou	ps of households r	ranked by equivalis	ed disposable incor	ne	
			Bottom	2nd	3rd	4th	Тор	All groups
Average per household (£ a yes (vii) 2 adults with 1 child	ir)							
Quintile points (equivalised £)				5811	7 693	9 594	12 735	
Number of households in the sa	ımple		118	119	118	119	118	592
Original Income	**		3 539	8 816	12 290	15 823	27 410	13 571
Direct benefits in cash Contributory								
Retirement pension			34	27	18	18		19
Sickness/ injury related			147	117	88	88	53	99
Unemployment benefit			278	221	142	137	59	168
Other Total contributory	••	•-	109 569	78 443	92 340	117 360	66	93
Non-contributory			505	443	340	300	178	378
Supplementary benefit			911	226	122	12		254
Child benefit			374	379	383	368	365	374
Housing benefit			468	179	39	30	6	144
Sickness/ disablement related	j		155	154	37	23	9	76
Other Total non-contributory		••		146 1 083	5 585	58 492	12 392	62
rotal non-contributory			1 990	1 063	585	492	392	909
Gross income			6 104	10 343	13 215	16 675	27 981	14 859
Income tax1 and Employees' Ni	C		482	1 618	2 473	3 084	6 289	2 788
Domestic rates(gross)	-		428	440	487	529	687	514
Disposable income			5 193	8 285	10 256	13 063	21 005	11 557
Equivalised disposable incom	ne	**	4 276	6 837	8 596	10 910	17 676	9 656
Taxes on final goods and service	:es		1 186	1 478	1 686	1 932	2 532	1 763
Intermediate taxes			370	472	563	662	940	601
Post-tax Income			3 637	6 335	8 006	10 469	17 533	9 193
Benefits in kind			707	***	201			
Education	••		787 959	787 845	694	657 1 022	610	707
National health service Housing subsidy			110	51	965 18	12	858 20	930 42
Travel subsidies			19	35	34	29	84	40
School meals and welfare mil	k		64	26	26	13	12	28
Final Income			5 576	B 079	9 742	12 202	19 117	10 941
(vili) 2 adults 2 children								
Quintile points (equivalised £)				5 452	7 083	8 734	11 123	
Number of households in the sa	mple		175	175	174	175	175	874
Original income	. ~		4 129	9 968	13 137	16 840	30 283	14 873
Direct benefits in cash Contributory								
Retirement pension			14		12		7	7
Sickness/ injury related			125	104	70	40	34	74
Unemployment benefit			205	74	12	34	59	77
Other	••		33	27	40	45	28	35
Total contributory Non-contributory		••	377	205	133	118	128	192
Supplementary benefit			1 019	137	40	61	22	oce
Child benefit			743	757	736	736	734	256 741
Housing benefit			527	52	15	15	14	125
Sickness/ disablement related			28	28	38	7	38	28
Other			102	59	15	19	23	44
Total non-contributory			2 4 1 8	1 033	844	838	830	1 193
Gross income			6 924	11 206	14 114	17 796	31 241	16 259
	_							
Income tax' and Employees' No Domestic rates (gross)	 		648 457	1 743 475	2 450 521	3 137 587	6 255 750	2 847 558
Br bl. b								
Disposable Income Equivalised disposable incom	 1 0		5 B19 <i>4 121</i>	8 988 <i>6 345</i>	11 143 <i>7 871</i>	14 072 <i>9 819</i>	24 236 16 815	12 854 <i>8 995</i>
Taxes on final goods and service			1 157	1 528	4 7EP	4 040	0.005	
Intermediate taxes			408	564	1 758 629	1 913 734	2 385 996	1 748 666
Post-tax income			4 255	6 896	8 756	11 426	20 856	10 440
Benefits in kind Education			1 760	1.540	. 704	4 6.4-		, ==
National health service			1 760	1 516 1 044	1 704 1 047	1 619 974	1 710	1 702
Housing subsidy			135	41	1 047	974 29	923	1 014
Travel subsidies			19	21	25	39	11 76	48 36
School meals and welfare mil	k		174	43	46	50	76 50	73
							-	
Final income			7 426	9 561	11 603	14 337	23 626	13 313

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

			Contrae grou	ps of households a	ranked by equivalise	ed disposable incom	ne	All
			Bottom	2nd	3rd	4th	Тор	groups
verage per household (£ a t) 2 adults with 3 or more								
uintile points (equivalised £)			4 027	5 366	6896 ·	8 623	
Number of households in th	ne sample		68	68	68	68	68	34
emooni lanigir			1 846	7 052	11 032	15 090	29 240	12 85
Direct benefits In cash Contributory					•			
Retirement pension		. <i></i>		-			-	
Sickness/ injury related			253	60	52	9	15	7.
Unemployment benefit			295	52	42	30	.4	8
Other			6 554	42 154	33	9 48	13 32	2
Total contributory Non-contributory			554	154	128	40	32	18
Supplementary benefit			1 864	633	273	184	9	59
Child benefit			1 356	1 242	1 189	1 192	1 144	1 22
Housing benefit			722	324	90	4	3	22
Sickness/ disablement re	alated			278	81	132	-	9
Other			184	103	B	49	3	7
Total non-contributory			4 126	2 580	1 642	1 561	1 160	2 21
oss income			6 526	9 787	12 801	16 699	30 432	15 24
ncome tax' and Employee	s' NIC		201	1 300	2 004	2 873	6 998	2 67
Domestic rates (gross)			422	450	475	543	770	53
			5.000	0.000	10.000	10.000	00.000	
posable income Equivalised disposable in	ncome		5 902 <i>3 284</i>	8 036 4 <i>663</i>	10 322 <i>6 080</i>	13 283 <i>7 732</i>	22 663 13 446	12 04 704
cquitacoo approasio ii					2 020	. , , , ,	75 4 75	,,,
faxes on final goods and s	ervices		1 178	1 669	1 697	2 038	2 390	1 79
ntermediate taxes			399	581	555	761	1 133	68
st-tax income		. <i></i>	4 325	5 787	8 070	10 484	19 140	9 56
lenefits in kind								
Education			3 467	3 268	2 865	3 158	2 435	3 03
National health service			1 597	1 4 10	1 431	1 213	1 290	1 38
Housing subsidy			130	128	83	27	9	7
Travel subsidies			12	29	9	41	93	3
School meals and welfar	e milk		373	257	117	103	74	18
nal income			9 903	10 877	12 574	15 025	23 041	14 28
3 or more adults with ch	nildren							
, uintile points <i>(equivalised £</i>				4 854	6 720	8 294	10 248	
				•				
Number of households in the	he sample		80	79	80	79	80	39
	he sample	_		79 11 475	80 16 275	79 19 903	80 31.063	
iginal income	he sample 	. 	80 4 376	79 11 475	80 16 275	79 19 903	80 31 063	
iginal income Direct benefits in cash	he sample 							
iginal income Direct benefits in cash Contributory			4 376	11 475	16 275	19 903	31 063	16 62
iginal income Direct benefits in cash	he sample							16 62
iginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit			4 376 225 224 134	11 475 352 210 225	16 275 307 99 57	19 903 119 67 78	31 063 54 105 47	16 62 21 14
ginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other			4 376 225 224 134 60	352 210 225 42	16 275 307 99 57 54	19 903 119 67 78 38	31 063 54 105 47 28	16 62 2: 14 10
iginal income Direct benefits in cash Contributory Reliferment pension Sickness' injury related Unemployment benefit Other Total contributory		·	4 376 225 224 134	11 475 352 210 225	16 275 307 99 57	19 903 119 67 78	31 063 54 105 47	16 62 21 14
iginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Non-contributory		·	4 376 225 224 134 60 644	352 210 225 42 829	307 99 57 54 517	19 903 119 67 78 38 302	31 063 54 105 47 28 234	16 62 21 14 10 4
ginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit		· · ·	4 376 225 224 134 60 644	352 210 225 42 829	16 275 307 99 57 54 517	19 903 119 67 78 38 302	31 063 54 105 47 28 234	16 62 21 14 10 4 50
iginal income Direct benefits in cash Contributory Reliferment pension Sickness' injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Child benefit			4 376 225 224 134 60 644	352 210 225 42 829	307 99 57 54 517	19 903 119 67 78 38 302	31 063 54 105 47 28 234	16 62 21 14 10 4 50 60 60
ginal income Direct benefits in cash contributory Reliterment pension Sickness' injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit		· · · · · · · · · · · · · · · · · · ·	4 376 225 224 134 60 644 1 902 786 529 119	352 210 225 42 829 669 546 168	16 275 307 99 57 54 517 199 583 34	19 903 119 67 78 38 302 114 495	54 105 47 28 234 119 581	16 62 22 14 10 4 50 60 51
ginal income Direct benefits in cash contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory ton-contributory supplementary benefit Child benefit Housing benefit Sickness/ disablement re Other			4 376 225 224 134 60 644 1 902 786 529 119 422	352 210 225 42 829 669 546 168 140 236	16 275 307 99 57 54 517 199 583 34 130 313	19 903 119 67 78 38 302 114 495 33 97 296	54 105 47 28 234 119 581 2 145 129	16 62 21 14 10 4 50 60 55 15 12 27
ginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory son-contributory Supplementary benefit Child benefit Housing benefit			4 376 225 224 134 60 644 1 902 786 529 119	352 210 225 42 829 669 546 168	16 275 307 99 57 54 517 199 583 34	19 903 119 67 78 38 302 114 495 33	54 105 47 28 234 119 581 2	16 62 21 14 10 4 50 60 55 15
ginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Non-contributory Supplementary benefit Châd benefit Housing benefit Sickness' disablement re Other Total non-contributory			4 376 225 224 134 60 644 1 902 786 529 119 422	352 210 225 42 829 669 546 168 140 236	16 275 307 99 57 54 517 199 583 34 130 313	19 903 119 67 78 38 302 114 495 33 97 296	54 105 47 28 234 119 581 2 145 129	16 62 21 14 10 4 50 60 59 15 12 27
ginal income Direct benefits in cash contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Supplementary benefit Child benefit Housing benefit Sickness' disablement re Other Total non-contributory oss income			4 376 225 224 134 60 644 1 902 786 529 119 422 3 758 8 777	352 210 225 42 829 669 546 168 140 236 1 760	16 275 307 99 57 54 517 199 583 34 130 313 1 259	119 903 119 67 77 78 38 302 114 495 33 97 296 1 036	54 105 47 28 234 119 581 2 145 129 977	16 62 21 14 10 4 50 60 53 18 12 27 1 76
ginal income Direct benefits in cash Contributory Retirement pension Sickness injury related Unemployment benefit Other Total contributory Supplementary benefit Child benefit Housing benefit Housing benefit Total non-contributory sickness/ disablement re Other Total non-contributory oss income			4 376 225 224 134 60 644 1 902 786 529 119 422 3 758	352 210 225 42 829 669 546 168 140 236	16 275 307 99 57 54 517 199 583 34 130 313 1 259	19 903 119 67 78 38 302 114 495 33 97 296 1 036	54 105 47 28 234 119 581 2 145 129	16 62 21 14 10 4 50 60 55 18 27 1 76 18 86 3 22
ginal income Direct benefits in cash contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Supplementary benefit Housing benefit Housing benefit Sickness' disablement re Other Total non-contributory oss income ncome tax' and Employee Comestic rates (gross)			225 224 134 60 644 1 902 786 529 119 422 3 758 8 777 649 510	352 210 225 42 829 669 546 168 140 236 1 760 14 064 2 040 501	307 99 57 54 517 199 583 34 130 313 1 259 18 051 3 055 494	119 903 119 67 78 38 302 114 495 33 97 296 1 036 21 241 3 819 527	54 105 47 28 234 119 581 2 145 129 977 32 275 6 528 744	16 62 21 14 10 50 60 51 12 27 1 76 18 86 3 22 55
ginal income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Supclementary benefit Child benefit Housing benefit Housing benefit Total non-contributory sickness' disablement re Other Total non-contributory oss income ncome tax' and Employee Comestic rates (gross) sposable income	alated assisting size of the state of the st		4 376 225 224 134 60 644 1 902 786 529 119 422 3 758 8 777 649	352 210 225 42 829 669 546 168 140 236 1 760	16 275 307 99 57 54 517 199 583 34 130 313 1 259 18 051 3 055	19 903 119 67 78 38 302 114 495 33 97 296 1 036 21 241 3 819	54 105 47 28 234 119 581 2 145 129 977 32 275 6 528 744 25 003	16 62 21 14 10 4 50 60 55 15 12 17 18 86 3 22 55
ginal income Direct benefits in cash contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory Supplementary benefit Housing benefit Housing benefit Total non-contributory oss income Total non-contributory oss income ncome tax' and Employee comestic rates (gross) sposable income Equivalised disposable in	elated		225 224 134 60 644 1 902 786 529 119 422 3 758 8 777 649 510 7 619 3 756	352 210 225 42 829 669 546 168 140 236 1 760 14 064 2 040 501 11 523 5 827	16 275 307 99 57 54 517 199 583 34 130 313 1 259 18 051 3 055 494 14 502 7 530	119 903 119 67 78 38 382 302 114 495 33 397 296 1 036 21 241 3 819 527 16 895 9 119	31 063 54 105 47 28 234 119 581 2 145 129 977 32 275 6 528 744 25 003 13 487	16 62 21 14 10 4 50 55 15 15 17 18 86 3 22 55
ginal income Direct benefits in cash contributory Retirement pension Sickness' injury related Unemployment benefit Other Total contributory supplementary benefit Châd benefit Housing benefit Housing benefit Total non-contributory sickness' disablement re Other Total non-contributory personned in the contributory contributory contributory contributory Total non-contributory contributory Equivalised disposable is Equivalised disposable in come	elated		4 376 225 224 134 60 644 1 902 786 529 119 422 3 758 8 777 649 510 7 619 3 756	352 210 225 42 829 669 546 168 140 236 1 760 14 064 2 040 501 11 523 5 827 2 249	16 275 307 99 57 54 517 199 583 34 130 313 1 259 18 051 3 055 494 14 502 7 530 2 722	19 903 119 67 78 38 302 114 495 33 97 296 1 036 21 241 3 819 527 16 895 9 179 2 876	31 063 54 105 47 28 234 119 581 2 145 129 977 32 275 6 528 744 25 003 13 487 3 524	16 62 21 14 10 4 50 55 15 12 27 1 76 18 86 3 22 55 15 11 79 2 2 56
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¹ After tax relief at source on mortgage interest and life assurance premiums.

Distribution of households' co-operating in the Family Expenditure Survey, 1987

By decile groups of households

TABLE 6

				Retired I	nouseholds	Non-retir	ed househo	olds						Ali house-
				1 adult	2 or more adults	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	
ecile gro														
ranked l disposa			ď											
Botton				195	122	59	69	25	58	43	70	60	39	740
0-4				211	188	51	50	23	79	26	44	39	28	739
0-4				286	118	64	55	19	50	29	49	36	34	740
416				144	139	50	85	56	36	46	98	47	38	739
E.L				71	93	69	122	63	25	69	126	47	55	740
6th .				38	62	63	140	105	11	82	128	43	68	740
7.4				42	54	86	159	106	10	90	123	19	50	739
8th				21	40	87	217	117	8	81	106	15	48	740
9th		**		20	34	113	276	101	5	65	74	25	26	739
Top .				31	28	157	317	67	2	61	56	9	12	740
All ho	useb	olds		1 059	878	799	1 490	682	284	592	874	340	398	7 396

¹ See Appendix 2 for definitions of retired households, adults and children.

10. Economically active people comprise employees, the selfemployed and others not in employment but who are seeking or intending, when able, to seek work. In 1982 there were changes in the FES in the definition relating to economic activity. The effect of these changes is to exclude all those out of employment for more than a year rather than five years. This exclusion applies regardless of the fact that they may still describe themselves as seeking work. Also excluded are those who have not been in paid employment since leaving full-time education unless they have worked within the previous year; certain of the part-time self-employed with very small incomes: and those whose only economic activity is working as mail-order agents or baby-sitters.

Income: redistributive stages

Stage one:

Original income plus cash benefits = Gross income.

Stage two:

Gross income minus income tax, employees' National Insurance contributions and domestic rates = Disposable income.

Stage three:

Disposable income minus indirect taxes = Post-tax income

Stage four:

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

- 12. The starting point of the analysis is original income. This is the annual 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. Employment income is based on the last payment received before the interview or, where different, the amount usually received. Allowance is made for any periods of absence from work through sickness and unemployment in the preceding 12 months, and for bonuses. Income from self-employment is recorded in the FES for a past period. This is brought up to current levels using the average earnings index. Income from interest, dividends and rent is taken as the amount received in the 12 months before the interview. Income from occupational pensions is based on the last payment received.
- 13. About 99 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 babysitter, regular allowance from a nonspouse, 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 based upon the rateable value of the dwelling. This is counted as employment income if the tenancy depends on the job.
- 14. The next stage of the analysis is to add cash benefits to original income to obtain gross income. This is slightly different to the 'gross normal weekly income' used in the FES Report, mainly because it excludes the imputed rent of owner-occupiers. Cash benefits are:

Contributory:

Retirement pension and Christmas bonus, unemployment benefit, sickness and industrial injury benefit, statutory sick pay, invalidity pension and allowance, industrial injury disablement benefits, widows' benefits, maternity allowance and statutory maternity pay. Non-contributory:

Supplementary benefit, child benefit, housing benefit, attendance allowance, mobility allowance, war pensions, severe disablement allowance, family income supplement, old persons pension, government training scheme allowances (YTS etc.), student maintenance awards, maternity grant.

- 15. Statutory Sick Pay is classified as a cash benefit even though it is paid through the employer.
- 16. 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 long-term benefits, and from housing benefit, is based on current rates.
- 17. Income tax, domestic rates and employees' and selfemployed 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.
- 18. The figures for domestic rates include, as well as local authority rates, charges made by water authorities for water, environmental and sewerage services. Rates are shown in full with any rebates given in housing benefit. [In previous articles, domestic rates have been included in the 'indirect' tax category. They are now deducted in the derivation of disposable income in anticipation of their replacement by the community charge in 1989. The National Accounts system, which strongly influences this article, will be showing the community charge as a deduction before disposable income is produced].
- 19. 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 'at source'. In 1987 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.
- 20. The next step is to deduct indirect taxes to give post-tax income. Indirect tax on final consumer goods and services include:

Duties on beer, wines, spirits, tobacco, oil, betting, etc Value Added Tax (VAT)
Customs (import) duties
Car tax
Motor vehicle duties
Driving licences
Stamp duties
Gas levy

- 21. 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.
- 22. VAT and cartax affect the prices of secondhand cars and are 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.

- 23. 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 rateable values) and the probability of a household of that type moving in a given year (estimated from the General Household Survey).
- 24. Indirect taxes on intermediate goods and services are:

the redundancy payments scheme

Local authority 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

Customs (import) duties Stamp duties

VAT

- 25. 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.
- 26. 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. Benefits in kind are:

State education
School meals and welfare milk
National Health service
Housing subsidy
Railway travel subsidy
Bus travel subsidy

- 27. Education benefit is estimated by the Department of Education and Science as the cost per pupil or student in special schools, primary and secondary schools, universities, and other further education establishments. The value of the benefit attributed to a household depends on the number of people in the household recorded in the FES as receiving each kind of education (students away from home are excluded).
- 28. The value of school meals and other welfare foods is based on their cost to the public authorities. Any payment by the individual household is subtracted to arrive at a net contribution.
- 29. Each individual in the FES is allocated a benefit from the National Health Service according to the estimated average use made of the 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.

- 30. 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 rate funds and 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 gross rateable value of his dwelling. Housing subsidy does not include mortgage interest tax relief, rent rebates and allowances or rate rebates included in housing benefit (see paragraphs 14 and 18 respectively).
- 31. The rail travel subsidies allocated are those to British Rail passenger operations and the London Underground. 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. A single allocation of the subsidy to inter-city services was made by dividing that subsidy between all households in proportion to their recorded expenditure on rail fares. In making both these allocations allowances are made for the use of rail travel by the business sector, tourists and the institutional part of the personal sector.
- 32. 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.
- 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

34. 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, though it is recognised that they are based on what is now rather old expenditure data and that it might be desirable to update them. 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 pending any re-calculation.

35. The equivalence values are given below:

Type of household member	Equivalence value
a, married head of household (ie a married couple of 2 adults)	1.00
1st additional adult 2nd (or more) additional adult	0.42 0.36 (per adult)
b. single head of household (ie 1 adult)	0.61
1st additional adult 2nd additional adult 3rd (or more) additional adult	0.46 0.42 0.36 (per adult)
c. Child aged:	
16-18 13-15 11-12 8-10 5-7 2-4 under 2	0.36 0.27 0.25 0.23 0.21 0.18 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 (\pm 20,000/1.86).

36. 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 previous 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 reranked for each separate income measure]. It is important to note that most monetary values shown in the article are ordinary (ie unequivalised) £ a year, not equivalised £ a year. Where equivalised £ a year do appear (eg the quintile points in Table 3 of Appendix 1), they are shown in italics.

Gini coefficient

37 The Gini coefficient is the most widely used summary measure of the degree of inequality in an income distribution. It can most easily be understood by considering a Lorenz curve of the income distribution, (see Diagram B) ie 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 righthand 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).

38. 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(apart from the few on the 'old' basis in Appendix 4) are based on distributions of equivalised income eg the coefficient for original income is calculated after dividing the original income for all the households by their appropriate equivalence values.

[In previous articles, no such equivalisation was used].

Diagram A

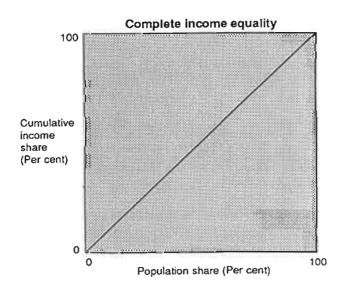
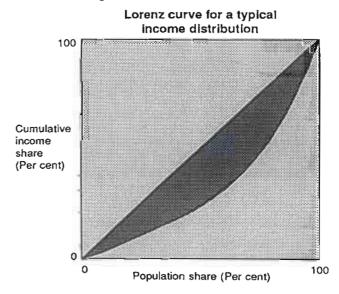


Diagram B



39. 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 (eg state education): the equivalence scales used here are based on actual household spending and do not, therefore, apply to such items.

Sampling errors and reliability

40. 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, say, the average expenditure of large groups of households on items purchased frequently (when spending does not vary greatly between households). Conversely, it is largest for small groups of households, and for items or services purchased

infrequently (for which expenditure varies considerably between households). A broad numerical measure of the amount of variability is provided by the quantity known as the standard error.

- 41. The formula used below is a simple approximation, obtained by regarding the co-operating households as if they were a representative sample, from a single-stage random selection, of all private households in the United Kingdom. This simple random sample formula therefore takes no account of the multi-stage design of the actual sample: it is very likely to yield smaller estimates than the more complicated formula for the multi-stage process. The standard error of the mean for N households is S/\sqrt{N} where S^2 is the estimate of the population variance. Table (i) gives the standard errors of the mean for the five income measures, for all households and the ten household types. These figures are very likely to be under-estimates of the actual values.
- 42. 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 + or - (1.96 * standard error)

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

Standard errors of the mean, 1987

TABLE	(i)
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lousehold type		Number in sample	Standard error of for the 5 income	the mean measures (£ a year):			
			Original income	Gross income	Disposable income	Post-tax income	Final income
Il households		7 396	134	125	92	83	86
Non-retired	•	5 459	157	148	110	100	104
Retired		1 937	149	147	103	96	99
adult retired		1 059	140	136	108	105	106
or more adults retired		878	273	264	168	159	162
adult non-retired	••	799	307	288	207	194	192
adults non-retired		1 490	280	264	186	172	171
or more adults non-retired		682	507	476	383	361	371
adult with children		284	244	195	169	162	203
adults and 1 child		592	405	378	260	234	234
adults and 2 children	.,	874	402	387	296	281	283
adults and 3 or more children		340	723	677	447	398	398
or more adults with children		398	539	486	366	332	341

Standard errors for disposable income for quintile groups within households type, 1987

Households ranked by equivalised disposable income

TABLE (ii)

-lousehold type		Number in sample		of mean disposab tile groups (£ a ye				
			Bottom	2nd	3rd	4th	Τορ	Ali households
All households		7 396	44	64	84	105	286	92
Non-retired		5 459	65	84	100	132	351	110
Retired		1 937	47	46	54	79	389	103
l adult relired		1 059	21	8	6	15	462	108
2 or more adults retired		878	58	28	64	78	596	168
adult non-retired		799	49	38	42	57	697	207
adults non-retired		1 490	75	48	51	66	445	186
3 or more adults non-retired		682	192	163	183	244	1 246	383
adult with children		284	166	102	127	144	542	169
2 adults and 1 child		592	119	79	84	132	660	260
2 adults and 2 children	.,	874	101	72	90	111	1 009	296
2 adults and 3 or more children	••	340	166	137	152	195	1 548	447
3 or more adults with children		398	230	268	220	275	974	366

OLD BASIS

TABLE (iii)										OLD BASIS
Household type			 Number in sample		rrors for disposa as a percentage					
			(1986)	1981	1982	1983	1984	1985	1986	1987
All households			7 178	0.8	1.1	8.0	0.8	0.8	1.0	0.9
Non-retired			 5 366	0.9	1.2	0.8	0.8	0.8	1.0	0.9
Retired			1 812	1.3	1.2	1.4	1.4	1.6	1.6	1.9
1 adult retired			 986	1.4	1.2	1.5	1.5	1.4	1.8	2.8
2 or more adults	retired		 826	1.7	1.5	1.8	1.8	2.0	2.0	2.4
1 adult non-retin	ed		 758	2.7	2.B	2.4	2.5	2.3	3,3	2.9
2 adults non-reti	red		 1 530	2.0	1,3	1,7	1.4	1.4	2.3	1.5
3 or more adults	non-retired		 746	1,4	1.4	1,6	1.7	1.6	1.7	2.1
1 adult with child	dren		 266	9.6	3.1	3.6	3.5	3.3	3.2	3.5
2 adults and 1 d	hild		 550	2.0	2.5	1.9	2.2	2.3	3.4	2.3
2 adults and 2 d	hildren		 742	1.4	1.5	1.7	1.9	1.7	1.8	2.4
2 adults and 3 o		ren	 325	2.8	2.9	2.7	3.3	3.8	3.0	2.9
3 or more adults			 449	1.9	6.2	1.8	1.8	2.5	3.0	2.7

For example: the mean disposable income for all households is £10,074 (see Table 3 in Appendix 1), and its standard error is £92 (from Table (i)). So the confidence interval for the population value is £10,074 + or - £180 ie about (£9,900 to £10,250). It is very likely that the mean disposable income for the whole population (ie all UK private households) will lie in this range, though the interval is likely to be larger if the more accurate standard error formula is used.

- The standard errors for the household types are larger than for the whole sample, mainly because the sample sizes concerned are smaller. For quintile 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 quintile groups are complicated to produce. As well as the variability of the observations between the quintile points, we should also take account of the randomness which exists because the sample quintile points are themselves subject to random variation. However, to get a feel for the order of magnitude involved, we have ignored the latter element of variability and have estimated the standard error of the mean for the quintile groups of disposable income using the simple random sample formula (S/\sqrt{N}). This formula almost certainly under-estimates the actual values, and for sample sizes of 50-500 the simple formula may seriously underestimate the error (the true value may be as much as twice the simple estimate). Table (ii) gives these estimated standard errors for disposable income. The standard errors of the top quintile group are always much larger than for the other quintile groups. This is not surprising as, in general, any distribution of incomes has a long positive tail. The standard errors for the top quintile group are so large that it is doubtful whether the averages for this group are reliable enough to be worth quoting in the tables in this article.
- Another aspect of sampling errors and reliability is the variation from year to year. Table (iii) gives the standard error of the mean (expressed as a percentage of the mean) for disposable income

for the seven years from 1981 to 1987. Note that this table is in terms of the old methodology and definitions. The two groups with consistently high proportionate standard errors are one adult with children, and two adults with 3 or more children. Relatively small groups like these are more likely to be strongly influenced by unusually large income and expenditure values.

If the change between years were to be considered, then it is the standard error of the difference between years that is relevant. This is about twice the size of the standard error for a particular year because the standard errors for the individual years are effectively added together.

Previous articles

- This article is the latest in an annual series. Earlier articles covering the years 1957 to 1986 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. This year's article has such a marked change in methodology that the results are completely incompatible with those for earlier years. We intend to produce a consistent time series (as far as the ever-changing FES will allow) for a selection of tables in the next article.
- The results in previous articles were designed 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 eg housing benefit in 1983. However, some broader measures like the Gini coefficients quoted in those earlier articles are relatively robust and will stand comparison with other years. Enquiries should be addressed to Dave Westcott, Branch E2, Central Statistical Office, Room 1936, Millbank Tower, Millbank, London SW1P 4QU.

APPENDIX 3

CHANGES IN THE METHODOLOGY THIS YEAR

Background

1. This year we have used equivalisation in the article extensively for the first time. This is the major change. At the same time, we have taken the opportunity to review the methodology in general - the first such review for over 10 years. As a result of this review, we have made various changes in definition and coverage to improve the analysis and make it more amenable to time series work. This review has taken some time and hence this year's article has taken longer to publish than previous articles. The changes are described below.

Equivalisation

- Equivalisation of income means adjusting income for household size and composition. The main effect is that small households are no longer concentrated at the bottom of the income distribution, nor are larger households concentrated at the top. The effects of equivalisation are covered in detail in Part II of this article, and a description of the McClements equivalence scale (before deducting housing costs) is given in paragraphs 34-36 of Appendix 2. By equivalising the income distributions for a period of years, any changes (eg growing proportion of single retired households in the country) in household size or composition (ie demographic changes) will be automatically taken into account. Hence, these 'standardised' income distributions for a period of years allow a much more meaningful and consistent time series analysis than is possible without equivalisation. In the next article, we intend to produce a time series for selected tables on a consistent basis (or as consistent as the ever-changing FES will allow).
- 3. It is very important to note that we have confined the use of equivalisation to the ranking of income that produces the distribution of quintiles and deciles. So the vast majority of monetary values quoted in the tables are ordinary \pounds a year, and not equivalised \pounds a year. Some of the tables in Appendix 1 show the decile and quintile points which are given in equivalised money (and printed in *italics*), but all other monetary values are average \pounds a year for the particular quintile group or decile group concerned.
- 4. For example, Table 3 of Appendix 1 shows the stages of the tax-benefit system for quintile groups of households, ranked by equivalised disposable income. This table was produced as follows:
- take each household's disposable income and divide it by the household's equivalence factor to produce the households equivalised disposable income eg disposable income of £18,000, equivalence factor 1.18, equivalised disposable income of £15,254
- rank the equivalised disposable incomes in ascending order
- divide this income distribution into quintile groups

 calculate, for each quintile group separately, the average (unequivalised) values of original income, cash benefits, gross income, tax payments, disposable income etc.

Ranking the income distribution

- 5. We have decided to use only one system for ranking the income distribution for percentile analysis, viz equivalised disposable income. In previous articles, there were three ways of ranking income: the most common was by original income, but gross income and disposable income were also used. This could have led to some confusion because the bottom quintile group (say) of original income would not contain the same households as the bottom quintile group of gross income. So now, the bottom quintile group of households refers to the same set of households throughout the entire article.
- 6. We chose the disposable income measure because this corresponds most closely to the cash amounts that households have to spend on goods and services and the equivalisation process is most appropriate to this income measure. Strictly speaking, the equivalisation process is not appropriate to apply to the original income, gross income or post-tax income measures. In practice, the process is widely used elsewhere on many income measures and so we apply it to these other income measures in this article for the calculation of percentage shares of total household income, and Gini coefficients. However we do not think it is appropriate to equivalise final income because it contains notional income from benefits in kind (eg from state education) that is not available in cash for the household to spend.
- 7. The tables showing percentage shares of total household income (Tables C, J and M in Part I) are now based on the one ranking (ie equivalised disposable income). So, for example, in Table C the bottom quintile group of households (when ranked by equivalised disposable income) had 2.1 per cent of the total equivalised household original income. The same set of households had 7.5 per cent of the total household equivalised gross income etc. By staying with the same groups of households, the effects of the tax-benefit system are more clearly seen. In previous articles, the income distribution was re-ranked for each of the income measures. Hence the bottom quintile of households for original income was different to the bottom quintile group for gross income etc.
- 8. The Gini coefficients are the only part of the new method of analysis where the single ranking rule is broken. The Gini coefficient needs a distribution of income in ascending order. So, for example, the coefficient for original income has to have the (equivalised) original incomes ranked in order. As mentioned in paragraph 6 above, we do not think it is appropriate to equivalise final incomeso there is now no percentage share or Gini coefficient for this income measure.



Original income

A comprehensive coverage (with accurate valuations) of 9. the many minor perks which attach to various types of employment is not possible. Original income, therefore, no longer includes free meals and food from employer, luncheon vouchers and concessionary coal and coke. These had become small in money terms: £218 a year on average for the 533 sample households receiving free meals and food, £222 a year for the 77 households with luncheon vouchers, and £319 a year for the 85 households getting coke and coal (the corresponding amounts for the whole sample are £16, £2 and £4). Their valuations were rather arbitrary. However, there are much more significant items, most notably the company car, which are seen not as a 'fringe benefit' or 'perk' but as an integral part of the remuneration package. We intend to extend the analysis to cover this item in future years (a question on the engine size of company cars was introduced into the 1990 FES), and follow Inland Revenue valuations.

Disposable income

10. We have re-defined this income measure to be exclusive of domestic rates (which were previously in the indirect tax section along with VAT, duty on beer etc). This change is made in anticipation of community charge data being available in the 1989 FES and onwards. The National Accounts system, which we use extensively in our analysis, will show the community charge as a

deduction before arriving at disposable income - we will follow suit. For the sake of only 2 year's data (ie 1987 and 1988) it seems silly to introduce a discontinuity in the series, when it can so easily be avoided.

Domestic rates

11. Domestic rates are now shown in full ie before any rebates which are now shown as a cash benefit (as part of housing benefit). This will be very useful in the next article (which will look at disposable income in earlier years) because it avoids a discontinuity - arising from the introduction of Housing Benefit in 1983 - which was present under the old definition. In previous articles, domestic rates were shown net of rebates and these rebates were excluded from cash benefits.

Definition of a 'child'

12. The new definition, given in paragraph 6 of Appendix 2, is now the same as that used in the derivation of a tax unit (and hence is in line with usage in other Government Departments). The old definition was that anyone under 16 was a child - mainly because anyone over 16 in the FES had to fill in a diary record of their expenditure over a fortnight. The number of children in the 1987 FES is 4,283 on the old basis and 4,555 on the new basis. This change of definition will, of course, have an effect on the ten household types shown in Table 5 of Appendix 1.

APPENDIX 4

Selection of tables on the old basis

CONTENTS

				Table
Average incomes, taxes and benefits, 1987				
By decile groups of households ranked by original and disposable income	••	 	 	1
Percentage distribution of original, gross, disposable, post-tax and final income households re-ranked at each stage, 1975-87		 	 	2
Gini coefficients for the distribution of income at each stage of the tax-benefit system, 1975-87	**	 	 	3

		•	

By declie groups of households ranked by original and disposable income

TABLE 1

OLD BASIS

	£ bet yea	ď									A
	Decile gr	oup									Averag over al
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	decile groups
Ranked by original income I households											
ecile Points (£)		31	820 2	757 6	030 8	897 11	502 14	222 17	333 23	382	
Number of households in the sample	740	739	740	739	740	740	739	740	739	740	7 396
riginal income	3	319	1 686	4 383	7 504	10 246	12 832	15 896	20 166	34 542	10 759
Direct benefits in cash											
Contributory Retirement pension	1 206	1 865	1 797	1 159	605	337	247	232	164	160	777
Sickness/ injury related	150 69	146 41	198 83	234 114	130 76	115 70	77 67	78 31	72 43	53 45	125
Unemployment benefit Other contributory benefits	29	53	66	80	77	46	40	30	27	16	64 46
Total contributory benefits	1 454	2 105	2 144	1 587	889	568	430	371	306	274	1 013
Non-contributory Supplementary benefit	1 152	495	323	299	148	60	82	32	39	35	267
Child benefit	246	94	110	190	238	322	305	312	279	254	235
Rent rebates/ allowances	748 186	392 135	192 180	142	41	20	21	1	2	3	156
Sickness/ disablement related Other non-contributory benefits	78	97	130	104 125	129 78	52 54	51 62	31 73	41 62	20 26	93 79
Total non-contributory benefits	2 409	1 213	935	860	636	509	521	450	424	339	829
iross income	3 866	3 637	4 766	6 830	9 029	11 324	13 784	16 717	20 896	35 155	12 601
Income tax* and Employees* NIC	-213	8	119	575	1 274	1 898	2 421	3 182	4 272	8 195	2 193
Disposable income	3 887	3 629	4 646	6 255	7 755	9 425	11 362	13 535	16 623	26 960	10 408
•											
Domestic rates* Taxes on final goods and services	153 543	208 532	338 790	392 1 100	435 1 397	455 1 559	480 1 827	526 2 105	581 2 368	731 3 006	430 1 523
intermediate taxes	196	219	289	384	454	525	609	696	776	1 103	525
ost-tax income	2 996	2 671	3 229	4 379	5 469	6 887	8 446	10 208	12 898	22 120	7 931
Benefits in kind											
Education	570	301	434	544	634	766	788	951	836	732	656
National health service	971	1 029	997	895	862	810	815	788	748	787	870
Housing subsidy Travel subsidies	156 37	89 46	85 55	74 48	62 41	45 44	37 48	27 47	24 72	16 121	61 56
School meals and welfare milk	76	34	33	43	28	20	23	21	21	15	31
Final income	4 804	4 170	4 833	5 983	7 097	8 751	10 157	12 041	14 598	23 791	9 605
i) Ranked by disposable income II households											
ecile points (£)	3	166 4	293 5	554 7	103 8	720 10	493 12	479 14	873 19	172	
	3 740	166 4 739	293 5 740							172 740	7 396
Number of households in the sample				554 7 739 4 444	103 8 740 7 263	740	739	740	739	740	7 396 10 759
Number of households in the sample original income	740	739	740	739	740						7 396 10 759
Number of households in the sample	740	739	740	739	740	740	739	740	739	740	
Original income Direct benefits in cash Contributory Retirement pension	740 413 1 472	739 1 047 1 440	740 2 098 1 464	739 4 444 991	740 7 263 757	740 9 932 473	739 12 649 370	740 15 682 314	739 19 960 268	740 34 090 222	10 759 777
Number of households in the sample original income	740 413 1 472 29	739 1 047 1 440 98	740 2 098 1 464 132	739 4 444 991 263	740 7 263 757 153	740 9 932 473 147	739 12 649 370 155	740 15 682 314 114	739 19 960 268 83	740 34 090 222 78	10 759 777 125
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness injury related Unemployment benefit	740 413 1 472	739 1 047 1 440	740 2 098 1 464	739 4 444 991 263 96	740 7 263 757	740 9 932 473 147 71	739 12 649 370	740 15 682 314 114 47	739 19 960 268 83 63	740 34 090 222 78 50	10 759 777 125 64
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness' injury related Unemployment benefit Other contributory benefits Total contributory benefits	740 413 1 472 29 26	739 1 047 1 440 98 48	740 2 098 1 464 132 96	739 4 444 991 263	740 7 263 757 153 77	740 9 932 473 147	739 12 649 370 155 67	740 15 682 314 114	739 19 960 268 83	740 34 090 222 78	10 759 777 125
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory	740 413 1 472 29 26 39 1 566	739 1 047 1 440 98 48 50 1 636	740 2 098 1 464 132 96 65 1 756	739 4 444 991 263 96 55 1 406	740 7 263 757 153 77 59 1 046	740 9 932 473 147 71 49 740	739 12 649 370 155 67 54 646	740 15 682 314 114 47 40 515	739 19 960 268 83 63 35 449	740 34 090 222 78 50 19 369	777 125 64 46 1 013
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory Supplementary benefit	740 413 1 472 29 26 39	739 1 047 1 440 98 48 50	740 2 098 1 464 132 96 65	739 4 444 991 263 96 55	740 7 263 757 153 77 59	740 9 932 473 147 71 49 740	739 12 649 370 155 67 54 646	740 15 682 314 114 47 40 515	739 19 960 268 83 63 35 449	740 34 090 222 78 50 19 369 62	10 759 777 125 64 46 1 013 267
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory Supplementary benefit Child benefit Rent rebates/ allowances	740 413 1 472 29 26 39 1 566 250 33 338	739 1 047 1 440 98 48 50 1 636 484 97 445	740 2 098 1 464 132 96 65 1 756 590 176 362	739 4 444 991 263 96 55 1 406 476 248 185	740 7 263 757 153 77 59 1 046 333 269 111	740 9 932 473 147 71 49 740 190 329 41	739 12 649 370 155 67 54 646 120 307 32	740 15 682 314 114 47 40 515 102 309 23	739 19 960 268 83 63 35 449 59 303 9	740 34 090 222 78 50 19 369 62 280 16	777 125 64 46 1 013 267 235 156
Number of households in the sample original income	740 413 1 472 29 26 39 1 566 250 33 338 31	739 1 047 1 440 98 48 50 1 636 484 97 445 65	740 2 098 1 464 132 96 65 1 756 590 176 362 115	739 4 444 991 263 96 55 1 406 476 248 185 163	740 7 263 757 153 77 59 1 046 333 269 111 135	740 9 932 473 147 71 49 740 190 329 41 131	739 12 649 370 155 67 54 646 120 307 32 89	740 15 682 314 114 47 40 515 102 309 23 78	739 19 960 268 83 63 35 449 59 303 9 75	740 34 090 222 78 50 19 369 62 280 16 47	777 125 64 46 1 013 267 235 156 93
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Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory Supplementary benefit Child benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695	739 1 047 1 440 98 48 50 1 636 484 97 445 65 57 1 148	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168	740 7 263 757 153 77 59 1 046 333 269 111 135 106 954	740 9 932 473 147 71 49 740 190 329 41 131 92 764	739 12 649 370 155 67 54 646 120 307 32 89 52 601	740 15 682 314 114 47 40 515 102 309 23 78 108 620	739 19 960 268 83 63 35 449 59 303 9 75 86 531	740 34 090 222 78 50 19 369 62 280 16 47 53 459	777 125 64 46 1 013 267 235 156 93 79 829
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Number of households in the sample riginal income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Unemployment benefit Total contributory benefits Non-contributory benefits Non-contributory benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Total non-contributory benefits	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406	739 1 047 1 440 98 48 500 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366	740 7 263 757 153 77 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379 458	740 9 932 473 147 71 49 740 190 329 41 131 92 784 11 456 1 857 9 600 451 1 575 522	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088	10 759 777 125 64 46 1 013 267 295 156 93 79 829 12 601 2 193 10 408 430 1 523 525
Number of households in the sample riginal income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits. Total contributory benefits. Non-contributory Supplementary benefit Child benefit Rent rebates/ allowances. Sickness/ disablement related Other non-contributory benefits. Total non-contributory benefits. Income tax¹ and Employees' NIC insposable income Income tax¹ and Employees' NIC insposable income Domestic rates² Taxes on linal goods and services Intermediate taxes	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406 180	739 1 047 1 440 98 48 500 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238 559 218	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129	740 7 263 7 757 153 777 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379	740 9 932 473 147 71 49 740 190 329 41 131 92 764 11 456 1 857 9 600 451 1 575	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995	10 759 777 125 64 46 1 013 267 236 156 93 79 829 12 601 2 193 10 408 430 1 523
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Total non-contributory benefits Sickness/ disablement related Other non-contributory benefits Bross income Income tax' and Employees' NIC Disposable income Domestic rates* Taxes on linal goods and services Intermediate taxes	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406 180	739 1 047 1 440 98 48 500 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238 559 218	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366	740 7 263 7 57 153 77 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379 458 5 661	740 9 932 473 147 71 49 740 190 329 41 131 92 764 11 456 1 857 9 600 451 1 575 522 7 051	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607 8 483	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708 10 276	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813 12 976	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088 22 435	10 759 777 125 64 46 1 013 267 295 156 93 37 829 12 601 2 193 10 408 430 1 523 525 7 931
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory benefits Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Total non-contributory benefits Benefits in come Income tax' and Employees' NIC Disposable income Domestic rates* Taxes on linal goods and services Intermediate taxes Post-tax income Benefits in kind Education National health service	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406 180 1 816	739 1 047 1 440 98 48 50 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238 559 218 2 685	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291 3 493	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366 4 428	740 7 263 757 153 77 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379 458	740 9 932 473 147 71 49 740 190 329 41 131 92 784 11 456 1 857 9 600 451 1 575 522 7 051	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088	10 759 777 125 64 46 1 013 267 295 156 93 79 829 12 601 2 193 10 408 430 1 523 525
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Non-contributory benefits Non-contributory benefit Child benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Total non-contributory benefits Cross income Income tax' and Employees' NIC Disposable income Domestic rates* Taxes on final goods and services Intermediate taxes Post-tax income Benefits in kind Education National health service National health service	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406 180 1 816	739 1 047 1 440 98 48 50 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238 559 218 2 685	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291 3 493	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366 4 428 611 930 85	740 7 263 7 57 153 77 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379 458 5 661	740 9 932 473 147 71 49 740 190 329 41 131 92 764 11 456 1 857 9 600 451 1 575 522 7 051	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607 8 483	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708 10 276	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813 12 976	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088 22 435	10 759 777 125 64 46 1 013 267 235 156 93 37 829 12 601 2 193 10 408 430 1 523 525 7 931
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ injury related Unemployment benefit Other contributory benefits Total contributory benefits Non-contributory benefit Child benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Sicoss income Income tax¹ and Employees' NIC Disposable income Domestic rates¹ Taxes on final goods and services Intermediate taxes Post-tax income Benefits in kind Education Benefits in kind Education National health service Housing subsidies	740 413 1 472 29 26 39 1 566 250 33 338 43 695 2 674 59 2 615 213 406 180 1 816	739 1 047 1 440 98 48 50 1 636 484 97 445 57 1 148 3 831 132 3 699 238 559 218 2 685	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291 3 493 433 987 100 49	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366 4 428 611 930 85 42	740 7 263 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	740 9 932 473 147 71 49 740 190 329 41 131 92 784 11 456 1 857 9 600 451 1 575 522 7 051 895 890 52 49	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607 8 483	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708 10 276	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813 12 976 802 30 82	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088 22 435	10 759 777 125 64 46 1 013 267 236 156 93 79 829 12 601 2 193 10 408 430 1 523 525 7 931
Number of households in the sample original income Direct benefits in cash Contributory Retirement pension Sickness/ Injury related Unemployment benefit Other contributory benefits Non-contributory benefits Non-contributory benefit Rent rebates/ allowances Sickness/ disablement related Other non-contributory benefits Total non-contributory benefits Bross income Income tax¹ and Employees' NIC Disposable income Domestic rates¹ Taxes on final goods and services Intermediate taxes Post-tax income Benefits in kind Education National health service National health service	740 413 1 472 29 26 39 1 566 250 33 338 31 43 695 2 674 59 2 615 213 406 180 1 816	739 1 047 1 440 98 48 50 1 636 484 97 445 65 57 1 148 3 831 132 3 699 238 559 218 2 685	740 2 098 1 464 132 96 65 1 756 590 176 362 115 92 1 335 5 189 303 4 886 296 806 291 3 493	739 4 444 991 263 96 55 1 406 476 248 185 163 96 1 168 7 018 727 6 292 368 1 129 366 4 428 611 930 85	740 7 263 7 57 153 77 59 1 046 333 269 111 135 106 954 9 263 1 355 7 907 408 1 379 458 5 661	740 9 932 473 147 71 49 740 190 329 41 131 92 764 11 456 1 857 9 600 451 1 575 522 7 051	739 12 649 370 155 67 54 646 120 307 32 89 52 601 13 895 2 497 11 398 484 1 824 607 8 483	740 15 682 314 114 47 40 515 102 309 23 78 108 620 16 817 3 180 13 637 523 2 131 708 10 276	739 19 960 268 83 63 35 449 59 303 9 75 86 531 20 941 4 139 16 802 592 2 422 813 12 976	740 34 090 222 78 50 19 369 62 280 16 47 53 459 34 919 7 675 27 244 726 2 995 1 088 22 435	10 759 777 125 64 46 1 013 267 235 156 93 37 829 12 601 2 193 10 408 430 1 523 525 7 931

Net of tax relief at source on mortgage interest and life assurance premiums, See Appendix 1.
 Net of the rate element of housing benefit, but including water, etc. charges.
 Negative average tax payment results largely from imputed tax relief on life assurance premiums paid by those with nil or negligible tax liabilities.

Percentage distribution of original, gross, disposable, post-tax, and final income, households re-ranked at each stage, 1975-87

TABLE 2 OLD BASIS

					1975	1977	1979	1981	1983	1985	1986	1987
riginal income												
quorg elitriu												
ottom					8.0	0.6	0.5	0.6	0.3	0.3	0.3	0.0
nd					10	10	9	8	7	6	6	6
ird					19	19	19	18	18	17	16	16
th	•				26	27	27	27	27	27	27	27
-					44	44	45	46	48	49	51	51
op	••		••		4-4	***	43	40	40	43	51	31
All households				,-	100	100	100	100	100	100	100	100
Gross încome Juintile group												
Bottom				**	5.5	5.7	5.5	5.6	5.7	5.4	5.3	5.1
2nd		.,			12	12	11	11	11	10	10	10
ord	•				18	18	18	17	17	17	16	16
					25	25	25	25	25	25	24	24
	**				40	40	40	41	42	43	44	45
Гор		••	••	••	40	40	40	41	46	43	***	45
All households				•	100	100	100	100	100	100	100	100
Disposable Incon Duintile group	ie											
Bottom					6.6	6.9	6.5	6.7	6.8	6.5	6.2	6.1
N- 4					13	13	12	12	12	11	11	11
			••		18	18	18	18	18	17	17	17
	**		**			24			24	24		
lth	**			**	24		25	24			24	24
˙ορ ,	-			**	38	38	39	39	40	41	42	42
All households					100	100	100	100	100	100	100	100
Post-tax income												
Quintile group					~ ~				~ ~			
Bottom		••		••	6.2	6.4	6.1	6.0	6.0	5.6	5.1	5.1
2nd	**		••		12	12	11	11	11	11	10	10
3rd	•-	.,	**		18	18	18	17	17	17	16	16
4th					24	24	25	24	24	24	24	24
Гор					39	39	40	41	42	43	45	45
All households					100	100	100	100	100	100	100	100
Final income Quintile group Bottom					7.1	7.3	7,1	7.2	6.9	6.7	6.3	6.2
2nd					13	13	12	12	12	12	11	11
					18	18	18	18	18	17	17	17
			••		24	24	24	24	24	24		
կե		**	**								24	24
Гор		••			38	38	38	39	39	40	42	42
							100	100		100		

Gini coefficients for the distribution of income at each stage of the tax-benefit system, 1975-87

TABLE 3											OLD BASIS
				1975	1977	1979	1981	1983	1985	1986	1987
Gini coefficients (pe Original income	er cent)	 		43	44	45	47	49	51	52	52
Gross income Disposable income		 	**	35 32	34 31	35 33	36 33	36 33	38 35	40 36	40 37
Post-tax income Final income		 	 	33 31	33 31	35 32	36 32	36 33	38 34	40 36	40 36