THE EFFECTS OF TAXES AND BENEFITS ON HOUSEHOLD INCOME, 1988

The main points are:

- (1) The effect of government expenditure and taxation is to reduce the differences in income amongst households. In 1988 taxes and benefits (including NI pensions) increased the share of total income of the bottom fifth of households from 1.9 per cent of original income to 6.9 per cent of post-tax income (Table C). 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) Results for the period 1977-1988, reworked using the new methodology, show that the distribution of household income has become more unequal. The bottom quintile group's share of disposable income fell from 9.7 per cent to 7.6 per cent whilst the share of the top fifth of households went up from 36 per cent to 42 per cent (Table N).

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 1988 the Government raised and spent £177 billion; most of this revenue was raised, directly or indirectly, from UK households who also benefited, directly or indirectly, from the associated Government expenditure. In this article over half of this expenditure is allocated to households (see Table 1 in Appendix 1). Although greater equality of incomes is not necessarily a primary aim of this process, it is nevertheless one of its consequences. This 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.

Last year (ie 1987 results) we made some fundamental changes to the article after reviewing the methodology of the analysis. The most important change was to introduce equivalisation (ie adjusting income to allow for household size and composition) into the ranking process. The effects of equivalisation formed last year's special topic. A related change was to restrict the ranking process to just one income measure, disposable income - the previous methodology used original income as well as gross income and disposable income for ranking purposes in different tables. Other notable changes were to the definitions of an 'adult', and 'disposable income' (which now has domestic rates deducted). We have reworked the data for previous years using this new methodology, and the trends in the income distribution over the period 1977-1988 form this year's special topic.

Equivalisation

Equivalisation means adjusting household income to allow for household size and composition.

For example: consider two married couples, both earning £15,000 a year, the Jones with no children and the Smiths with two children (aged 3 and 5). 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 1988 for all

households, and for retired and non-retired

households separately.

Part II Trends in income distribution, 1977-1988: re-

worked on the new basis.

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 Three tables for 1988, ranked using unadjusted

disposable income.

Appendix 4 Summary of the effects of taxes and benefits, 1977-

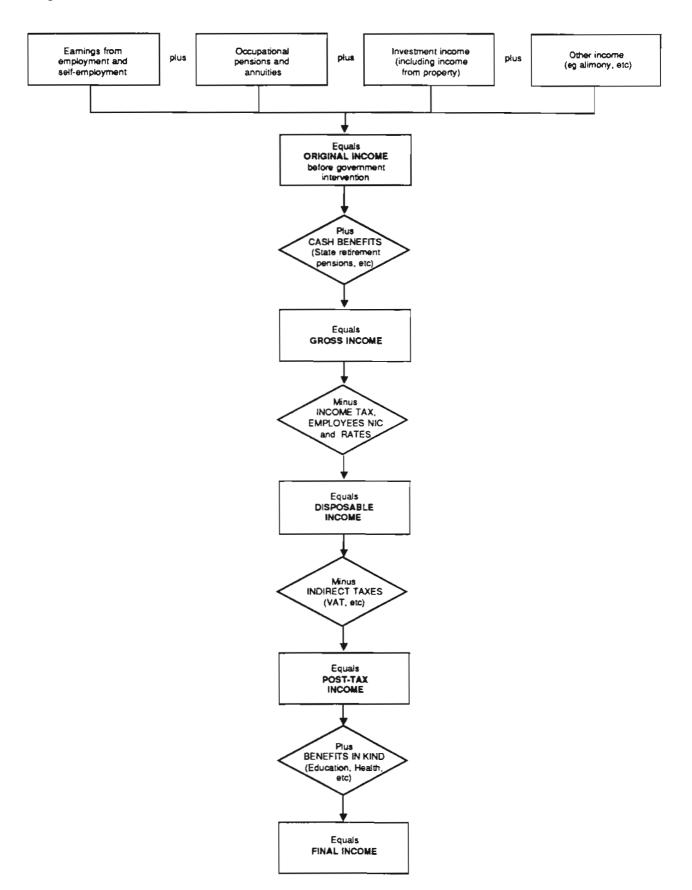
1988.

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 different households at various stages in their lifecycles; it reflects the fact that most people have 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 tables generally show actual annual incomes and taxes (ie unadjusted or unequivalised), but some of the appendix tables also give equivalised disposable income values (shown in italics) as well. Because not everybody wants to use a distribution ranked by equivalised income, we have also shown three tables ranked by unadjusted disposable income in Appendix 3.

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. However, Gini coefficients and shares of income are relatively robust and can be used to gauge the trend of income distribution. The philosophy underlying these articles is to use a given year's FES to produce the most meaningful figures for that year (on the basis of the definitions current for the FES at the time), rather than aim to produce figures on exactly the same basis from one year to the next. 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 last year mean that the 1987 figures are completely incompatible with those already published for earlier years.

As a special exercise, this year, we have re-worked the data for the earlier years (1977-1986) using the new methodology of equivalisation, definition of adult etc. The results are presented in Part II of the main article (and in Appendix 4 for certain summary tables). Readers should note that even the re-worked series is not a fully-consistent time series - this cannot be produced because of changes in the FES and gradual improvements to our methodology over the years. The FES changes slightly each year, and these changes can make one year slightly inconsistent with previous years:

CHART 1
Stages of redistribution



for example in 1988 questions were introduced for retrospective recall of certain large expenditure items (eg furniture) which gave better quality data than the usual fortnightly diary recording, but which introduced an unbridgeable dis-continuity with previous vears' figures.

Over the years many improvements have been made to the analysis behind the figures in this article; for example in estimating mortgage interest payments when the FES respondent can only give the last payment (which includes interest and capital in unknown proportions). In many cases, however, it is not practicable to re-work earlier years' results to incorporate improvements in methodology because of prohibitive cost or changes in the FES.

Summary of methodology and sources

Chart 1 illustrates the stages of redistribution which form the structure of this analysis. Initially, household members receive income 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) 1988. 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 1988 some 7,300 households participated in the UK - about 1 in every 3,000 households. The response rate was 71 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 the FES suffers from some non-response bias, for example through under-representation at 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, with the exception of some indirect taxes (see below).

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 on alcohol expenditure). 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 1988, derived from the National Accounts. Appendix 2 gives more detail on the methodology.

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

Summary of the effects of taxes and benefits, 1988

TABLE A

				ups of househo disposable inc				•
			Bottom	2nd	3rd	4th	Тор	All household:
Average per household (£	per yea	ar) ⁽¹⁾						
Original income			 1 210	4 440	10 750	16 260	29 170	12 360
plus cash benefits			 3 210	2 800	1 760	1 080	720	1 910
Gross income		**	 4 430	7 240	12 500	17 340	29 880	14 280
less direct taxes a & em	ployees	s' NIC	 670	1 220	2 450	3 790	6 690	2 960
Disposable income			 3 760	6 020	10 050	13 540	23 190	11 310
less indirect taxes			 1 080	1 470	2 410	2 900	3 710	2 320
Post-tax income			 2 680	4 540	7 650	10 640	19 480	9 000
plus benefits in kind			 2 120	2 020	2 060	1 720	1 220	1 830
Final income			 4 800	6 570	9 700	12 360	20 700	10 830
Average per household (n	umber))						
Children (1)			 0.6	0.6	8.0	0.6	0.4	0.6
Adults			 1.6	1.7	2.1	2.1	2.0	1.9
Persons			 2.2	2.3	2.9	2.7	2.4	2.5
People in full-time education	n		 0.5	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	0.1	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).

These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and gross domestic rates.

3 Children are rest

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

The composition of each quintile group of households, 1988

TABLE B

	Quintile ranked b disposal	All							
	Bottom	2nd	3rd	4th	Тор	house			
Percentages									
Household type									
Retired	51	45	19	9	6	26			
Non-retired									
1 adult	10	7	7	14	18	11			
2 adults	7	12	18	27	41	21			
1 adult with children(1)	10	5	3	2	-	4			
2 adults with children	16	21	34	29	20	24			
3 or more adults ⁽³⁾	5	10	19	20	15	14			
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.

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 (£1,210 per annum). In the highest quintile group, there are an average of 1.7 economically active people and average original income is £29,170. In the lowest quintile group, 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.

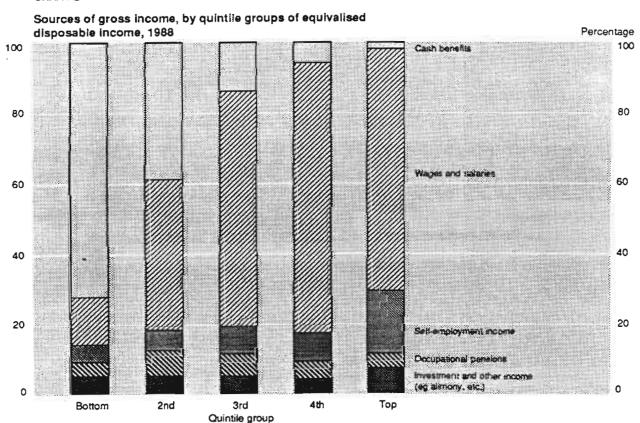
Chart 2 illustrates the declining importance of cash benefits in gross income as income rises.

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 £4,800 to £20,700, a ratio of about 1:4 compared with the ratio for original incomes of about 1:25.

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 1.9 per cent to 7.1 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 calculated using equivalised incomes, and hence 'final income' has not been included. The McClements equivalence scales, which were estimated using household spending patterns, are arguably inappropriate for equivalising non-spendable amounts of income eg benefits from education. Estimates for quintile shares may be subject to relatively large sampling errors and comparisons should therefore be made with caution (see Appendix 2).

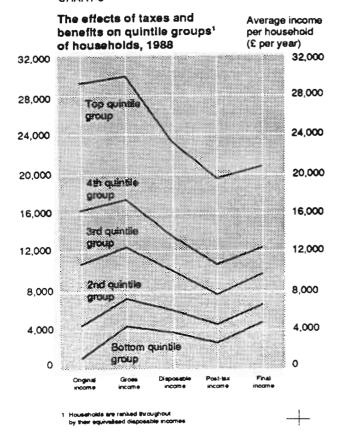
The Gini coefficient is the most widely used summary measure of the inequality of the distribution of income (see paragraph 37 of Appendix 2). It takes values between 0 and 100 per cent - the higher values indicating greater inequality. In this article, Gini coefficients are now calculated using equivalised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

CHART 2



² With or without children

CHART 3



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

Percentage shares of total household income and Gini coefficients(1), 1988

TABLE C

	income for t	shares of tot nouseholds re disposable in		
	Original income	Gross income	Disposable income	Post-tax income
Quintile group				
Bottom	1.9 7	7.1 11	7.6 11	6.9 11
2nd 3rd	16	16	16	16
3rd 4th	25	23	23	22
Тор	50	43	42	44
All households	100	100	100	100
Decile group				
Bottom	8.0	3.1	3.2	2.7
Тор	32	27	27	29
Gini coefficient				
(percent)	51	37	35	39

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 incurrs of all the households, then this distribution is ranked and this ranked distribution is used to calculate the coefficient,

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.

Summary of the effects of taxes and benefits on NON-RETIRED households, 1988

TABLE D

		oups of NON-l disposable in		seholds ranked	by	All non-retired
	Bottom	2nd	3rd	4th	Тор	holds
verage per household (£ per year)						
Original income	3 120	9 810	14 380	18 960	32 000	15 650
plus cash benefits	2 970	1 710	1 140	680	550	1 410
Gross income	6 090	11 520	15 510	19 640	32 550	17 060
less direct taxes" and employees' NIC	1 030	2 190	3 290	4 380	7 240	3 630
Disposable income	5 060	9 330	12 230	15 260	25 310	13 440
less indirect taxes	1 550	2 350	2 810	3 220	3 850	2 760
Post-tax income	3 5 1 0	6 980	9 420	12 040	21 450	10 680
plus benefits in kind	2 650	2 440	2 020	1 560	1 170	1 970
Final income	6 170	9 420	11 440	13 600	22 620	12 650
Average per household (number)						
Children ⁽²⁾	1.2	1.1	0.8	0.6	0.4	0.8
Adults	1.8	2.2	2.2	2.1	2.0	2.1
Persons	3.0	3.2	3.1	2.7	2.4	2.9
People in full-time education	1.0	0.9	0.7	0.5	0.3	0.7
Economically active people	0.7	1.5	1.8	1.9	1.8	1.6
Retired people	0.1	0.1	0.1	0.1	0.1	0.1

<sup>These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and gross domestic rates.
Children are defined as persons aged under 16 or aged between 16 and 18, unmarried and receiving non-advanced further education.</sup>

RESULTS FOR NON-RETIRED HOUSEHOLDS

Original income

The distribution of original income amongst non-retired households is more equal than among all households, ranging from an average of £3,120 per annum in the lowest quintile group to £32,000 in the highest (Table D), a ratio of 1:10 compared to the ratio of 1:25 for the distribution over all households. There is a relatively strong relationship between the original income of a household and the number of economically active people it contains 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 household income: the number of children falls steadily as income rises.

Average value of cash benefits for each quintile group of NON-RETIRED households, 1988

TABLE E

	househ	olds ra	of NON inked by isposable			All non retired		
	Bottom	2nd	3rd	4th	Тор	house- holds		
Average per household (£ a year)								
Contributory								
Retirement pension	130	300	220	150	140	190		
Sickness/injury related	280	220	120	100	80	160		
Unemployment benefit	130	80	60	20	20	60		
Other	70	70	70	60	30	60		
Total contributory	610	670	480	340	270	470		
Non-contributory								
income support, etc	1 010	220	100	30	20	280		
Child benefit	460	400	320	220	160	310		
Housing benefit	560	130	50	10	10	150		
Sickness/ disablement related	d 130	160	90	30	50	90		
Other	200	130	90	50	40	100		
Total non-contributory	2 360	1 050	660	350	280	940		
Total cash benefits	2 970	1 710	1 140	680	550	1 410		
Cash benefits as a percentage of gross income	49	15	10	3	2	8		

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 concentrated 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 Income Support (formerly Supplementary Benefit) 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 some 10 per cent of the gross income of non-retired households: their payment resulted in a significant reduction in income inequality.

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 levied on the first £305 of weekly earnings (the ceiling in operation during most of 1988), 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, 1988

TABLE F

	Quintile househ equival	olds ra	nked b	y		All non- retired
	Bottom	2nd	3rd	4th	Тор	house- holds
Percentages					-	
Income tax ⁽¹⁾ Employees' NIC Gross domestic rates	6.3 2.8 7.7	9.4 5.2 4.4	11.9 5.8 3.5	13.6 5.8 2.9	16.1 4.0 2.2	13.2 4.8 3.3
Total	16.9	19.0	21.2	22.3	22.2	21.3

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

In 1988 over one-third of working age individuals had insufficient income to pay income tax, and marginal tax rates for taxpayers ranged from 25 per cent to 40 per cent. The analysis of households when ranked by equivalised disposable income shows average rates were 6.3 per cent in the lowest quintile, rising steadily to 16.1 in the top quintile. This pattern arises chiefly because the quintile groups are based on (after-tax) equivalised disposable income, which means that even the lowest quintile is shown as paying some income tax. Additional reasons are the grouping together of sizeable and diverse populations of individuals into quintile groups of households, and the expression of tax as a proportion of gross (rather than taxable) income.

Domestic rates, which were an indirect tax, are included here with income tax and NICs on the grounds that this will be the appropriate treatment for the community charge in future articles. Rate rebates, (treated as a cash benefit), were an integral part of the domestic rates regime, designed to attenuate the regressive impact of rates at the lower end of the income distribution. The treatment of rates in Table F is thus unusual, and overstates their regressive impact.

Indirect taxes

In total, indirect taxes expressed as a proportion of disposable income fall as disposable income rises (Table G), ranging from 30 per cent in the bottom quintile group to 15 per cent in the highest, though the highest quintile pay most in indirect taxes in absolute terms. However, individual taxes have different effects.

Indirect taxes as a percentage of disposable income for each quintile group of NON-RETIRED households, 1988

TABLE G

				-RETIRED ho disposable inco			All non- retired house-
Percentages		Bottom	2nd	3rd	4th	Тор	holds
**		10.3	9.1	8.7	8.4	6.6	8.6
Outy on beer and cider		1.2	1.1	1.2	0.9	0.5	1.0
Outy on wines and spirits		0.9	0.8	0.8	0.9	0.8	0.8
Outy on tobacco		5.4	3.1	2.3	1.7	0.7	2.6
outy on hydrocarbon oils		1.9	2.0	1.9	1.8	1.1	1.7
ar tax and vehicle excise	duty	1.2	1.3	1.2	1.2	0.8	1.1
other taxes on final goods	•	1.2	1.9	1.6	1.4	1.0	1.4
ntermediate taxes		7.4	5.9	5.3	4.9	3.9	5.5
Total indirect taxes ⁽¹⁾		29.5	25.2	23.0	21.1	15.2	22.8

¹ The corresponding figures using total expenditure as the denominator are: 22.1, 22.3, 22.7, 22.5, 20.3 (top group) and 21.8 per cent.

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.

The incidence assumptions used for these taxes are more difficult and contentious than those used for other taxes, so the figures must be regarded as very rough estimates.

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 higher income households tend to 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 much 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 23.7 per cent of total general government expenditure in 1988. Other items for which imputations are made are school meals and welfare milk, the housing subsidy and travel subsidies, together accounting for a further 1.8 per cent of general government expenditure.

Education benefit to individual households is imputed by reference to the number of pupils and students in the state sector 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. No benefit is allocated for pupils at private schools. 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 impatient/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 ages and sex. Using this information, an imputed benefit from the state health service can be allocated to each individual in the FES sample; no allowance is made for the use of private health care services. 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.

Average value of benefits in kind for each quintile group of NON-RETIRED households, 1988

TABLE H

	Quintile househ equival		All non- retired			
	Bottom 2nd 3rd 4th Top					house- holds
Average per household (£ a year)					-	
Education National health service	1 530 870	1 380 940	1 020 890	740 730	400 680	1 010 820
Housing subsidy"	120	60	40	20	10	50
Travel subsidies	30	40	50	50	70	50
School meals and						
welfare milk	100	30	20	10	10	30
Total	2 650	2 440	2 020	1 560	1 170	1 970
Benefits in kind as a percentage of post-tax						
income	75	35	21	13	5	18

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

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

Table H shows that taken together the absolute values of these benefits in kind clearly decline as household income increases. As a proportion of post-tax income, benefits decrease from 75 per cent in the lowest quintile group to 5 per cent in the highest quintile group, indicating that this expenditure contributes to the reduction in income inequality.

Summary

The overall effect of the various stages of the tax-benefits system on non-retired households is summarised in Table J. Households in the highest quintile group (when ranked by equivalised disposable income) receive 44 per cent of all (equivalised) original income, compared with 3.5 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 7.4 per cent and that of the highest falls to 41 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 35 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.

Percentage shares of total household income and Gini coefficients⁽¹⁾ for NON-RETIRED households, 1988

TABLE J

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

	Original income	Gross income	Disposable income	Post-tax income
Quintile group				
Bottom	3.5	7.0	7.4	6.5
2nd	11	12	13	12
3rd	17	17	17	16
4th	24	23	22	22
Тор	44	41	41	43
All non-retired				
households	100	100	100	100
Decile group				
Bottom	0.9	2.8	3.0	2.4
Тор	28	26	26	28
Gini coefficient				
(percent)	42	35	33	38

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 Girl 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.

Economic activity

As already mentioned, the size of original income is largely determined by the number of economically active people in the 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 Table K, in which households are classified according to the number of economically active people they contain.

Original income ranges from an average of £1,070 per annum in households where there are no economically active people to an average of £24,950 for households where there are three or more. Cash benefits are concentrated in households where no-one is economically active and here they form 79 per cent of gross income; but they remain important, at 10 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 the four household groups in Table K, but there is also a considerable difference 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 full-time 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.

Average incomes, taxes and benefits by the number of economically active people per NON-RETIRED household, 1988

TABLE K

		Number of e	conomically active	e people" per ho	ousehold	All non-
		None	One	Two	Three or more	retired households
Number of households in the sample		606	1 948	2 233	594	5 381
Average per household (£ per year)						
Original income		1 070	12 150	20 190	24 950	15 650
plus cash benefits		4 130	1 410	810	910	1 410
Gross income		5 190	13 560	21 000	25 870	17 060
less direct taxes & employees' N	IC	490	2 950	4 580	5 450	3 630
Disposable income		4 700	10 610	16 420	20 420	13 440
less indirect taxes		1 210	2 220	3 200	4 400	2 760
Post-tax income		3 490	8 390	13 210	16 010	10 680
plus benefits in kind		2 580	1 730	1 910	2 340	1 970
Final income		6 070	10 120	15 130	18 360	12 650
Gini coefficients (percent)						
Equivalised original income		87	41	33	23	42
Equivalised gross income		23	<i>35</i>	31	22	35
Equivalised disposable income		23	33	30	21	33
Equivalised post-tax income		30	38	34	25	38

¹ Economically active people comprise employees, the self employed and others not in employment but who are

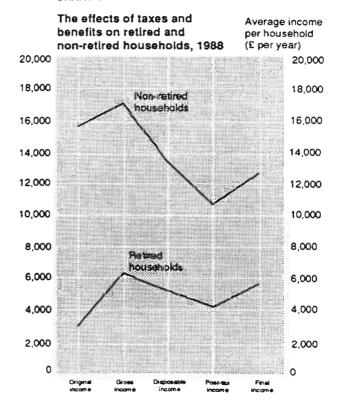
RESULTS FOR RETIRED HOUSEHOLDS

Retired households have quite distinct income and expenditure patterns and so the tax-benefit system affects them in a different way from 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 Income Support to pensioners.

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 retired households.

CHART 4



seeking or intending, when able, to seek work.

These are income tax (which is after tax relief at source on mortgage interest and life assurance premiums) and gross domestic rates.

Effects of taxes and benefits on RETIRED households, 1988

TABLE L

				Quintile gr equivalised	oups of RETIR disposable in	ED households come	s ranked by		All retired
				Bottom	2nd	3rd	4th	Тор	house- holds
verage per househo	ld (£ pa	er yea	r)						
Original income plus cash benefits				440	620	830	2 700	10 270	2 970
Contributory									
Retirement pensio				2 480	2 800	2 460	2 630	2 670	2 6 1 0
Sickness/ injury re		••		50	60	60	140	200	100
Unemployment be	nefit			10	10		-	20	10
Other				20	20	30	50	30	30
Non-contributory									
Income support/ S	upplem	entary	benefit	110	80	90	90	40	80
Child benefit		'		10	-	-	-		- -
Housing benefit				160	480	660	330	40	340
Sickness/ disablen	nent rel	ated		-	60	100	250	240	130
Other				20	40	50	40	60	40
Gross income				3 300	4 170	4 310	6 230	13 580	6 320
less income tax ⁽¹⁾				100	40	90	370	2 130	550
less employees' NIC	;		**	-		-	10	30	10
less domestic rates(gross)			480	440	450	500	680	510
Disposable income				2 710	3 680	3 770	5 350	10 740	5 250
less indirect taxes									
VAT				250	240	210	410	800	380
Tobacco duty				50	100	80	100	70	80
Other taxes on final	goods i	& serv	ices	200	210	180	320	590	300
Intermediate taxes				230	220	210	310	530	300
Post-tax income				1 990	2 920	3 080	4 200	8 750	4 190
plus benefits in kind									
Education				20	-	10		40	10
National health service	e			1 430	1 330	1 230	1 220	1 200	1 280
Housing subsidy ¹²			**	40	110	140	90	20	80
Travel subsidies				50	60	50	50	60	60
inal income				3 530	4 410	4 510	5 570	10 080	5 620

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 meanstested 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-benefits system has on retired and non-retired households.

After tax relief at source on mortgage interest and life assurance premiums,
 Does not include tax relief at source on mortgage payments, which is included in the income tax payments.

Percentage shares of total household income and Gini coefficients⁽¹⁾ for RETIRED households, 1988

TABLE M

	Percentage shares of total equivalised income for RETIRED households ranked by equivalised disposable income										
		Original income	Gross income	Disposable income	Post-tax income						
Quintile group											
Bottom		3.2	11.1	10.8	9.9						
2nd	••	4	13	14	14						
3rd		6	15	16	17						
4th		19	20	20	20						
Top		68	40	39	39						
All households		100	100	100	100						
Decile group											
Bottom		1.3	5.1	4.8	4.2						
Top		48	26	25	26						
Gini coefficient											
(percent)		69	29	27	30						

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

TRENDS IN INCOME DISTRIBUTION, 1977-1988: RE-WORKED ON THE NEW BASIS

This part of the article examines the changes which have taken place between 1977 and 1988 in the impact of taxes and benefits on household incomes; the pre-1987 data have been re-worked using the new methodology of equivalisation etc. However, as we noted in the Introduction, even the re-worked series is not a fully-consistent time series - though it is sufficiently consistent to shed light on broad trends in income distribution. The main conclusion is that the distribution of household income has become more unequal over the 11 years. The bottom quintile group's share of total disposable income fell over the period from 9.7 to 7.6 per cent, whilst the share of the top quintile group rose from 36 to 42 per cent (Table N).

As the percentage shares of income of quintile groups are subject to sampling errors they are given only to the nearest integer. However, because the percentage shares for the bottom quintile groups are small these are given to the nearest tenth of one per cent. This should not be taken to indicate that the figures for the bottom quintile groups can be estimated more accurately than for other quintile groups. A full discussion of the margin of error of the estimates is given in Appendix 2. The scale of the errors can be seen in Tables 1 and 2 of that appendix.

Cash benefits have had the most important role to play in reducing income dispersion, and they increased in importance over the period.

In 1977 the bottom quintile group of households accounted for 3.6 per cent of total original income (Table N), and by 1988 this share of total income had fallen to 1.9 per cent. The original income of the top quintile group grew much faster than that of the other quintile groups, so that its share of total original income rose from 43 to 50 per cent, whilst the shares for the other quintile groups have declined. The story is similar for all the four measures of income shown in Table N but original income shows the strongest trend. The Gini coefficients shown in Table O give a summary of the distribution of income, and they also show increasing income inequality. The coefficients increased (signifying a more unequal distribution of income) for all four measures of income, but here the one for post-tax income went up the most.

Over the period 1977 to 1988 there has been a shift in the balance of personal taxation from income to expenditure, particularly for the lower income groups, and this is reflected in Table P. Income tax, National Insurance and rates fell from 23 per cent of gross income in 1977 to 21 per cent in 1988, averaged over all households. The largest change was between 1977 and 1979, when there was a cut in the rate of income tax and real increases in personal allowances. Indirect taxes rose as a percentage of disposable income for the lowest four quintile groups, with the bottom group showing the most marked rise. The main shift occurred between 1979 and 1981, reflecting the rise in the VAT rate in 1979. But changes in indirect payments in relation to income between 1977 and 1988 also reflect changes in saving behaviour and in the pattern of expenditure, particularly for the top quintile, as well as changes in tax rates.

Table P also shows the increasing importance of cash benefits to households in the lowest two quintile groups: cash benefits as a percentage of gross income rose from 58 to 73 per cent for the bottom quintile group, and from 27 to 39 per cent for the second quintile.

Composition and housing tenure type of the top and bottom quintile groups

This short section looks at he changes in composition and housing tenure that have taken place in the top and bottom quintile groups over the period 1977-1988. The composition (ie household type) of the top and bottom quintile groups has changed only slightly (Table Q), with the retired households continuing to dominate the bottom quintile group and '2 adult non-retired' households being the largest type in the top quintile.

The tenure type has shown more change over the period (Table R), with the proportion of owner-occupiers in the top quintile group rising from 71 to 91 per cent of the group whilst the proportion of public sector renters fell from 17 to 4 per cent. In the bottom quintile group, there were increases in owner-occupation (from 38 to 41 per cent) and public-sector renting (from 44 to 49 per cent) at the expense of private-sector renting which fell from 17 to 8 per cent. Table R also gives the average number of people per household: the bottom quintile group has consistently less adults (around 1.7 per household) than the top quintile group (around 2.1 per household).

Percentage shares of original, gross, disposable and post-tax income by quintile groups of households(1), 1977-1988

TABLE N

					1977	1979	1981	1983	1985	1987	1988
quivalise	d origin	al incon	10								
Duintile gro	up										
Bottom				**	3.6	2.4	2.9	3.0	2.5	2.1	1.
2nd					10	10	9	8	7	7	7
3rd					18	18	17	17	17	16	16
4th			**		26	27	26	26	27	25	25
Тор				••	43	43	46	47	47	50	50
lli househo	ids				100	100	100	100	100	100	100
quivalise	d gross	income									
Quintile gro	up										
Bottom	••			**	8.9	8.5	8.4	8.5	8.3	7.5	7.
2nd					13	13	12	12	12	11	11
3rd				**	18	18	17	17	17	16	16
4th					24	24	23	23	24	23	23
Тор					37	37	39	39	40	43	43
di househo	lds				100	100	100	100	100	100	100
quivalise	d dispo	sable in	come								
Quintile gro	υp										
Bottom				.,	9.7	9.4	9.3	9.5	9.2	8.2	7.0
2nd					14	13	13	13	13	12	11
3rd				**	18	18	17	17	17	16	16
4th					23	23	23	23	23	23	23
Top					36	36	38	38	38	41	42
	i ala				100	100	100	100	100	100	100
All househo	1105										
		tax incor	ne								
All househo Equivalise Duintile gro	d post-	tax incor	ne								
di househo Equivalise Duintile gro Bottom	d post-	tax incor	n e 		9.4	9.5	9.0	8.9	8.6	7.6	6.9
Il househo Equivalise Duintile gro	d post-	tax Incor	ne 		14	13	9.0 13	8.9 13	8.6 13	7.6 12	6.9 11
di househo Equivalise Duintile gro Bottom	d post- up 								13	12	11
di househo quivalise Quintile gro Bottom 2nd	d post-		 		14	13 18	13 17	13 17	13 17	12 16	11 16
All househo Equivalise Quintile gro Bottom 2nd 3rd	d post-		 	**	14 17	13	13	13	13	12	11

¹ Ranked by equivalised disposable income.

Gini coefficients for the distribution of income at each stage of the tax-benefit system, 1977-1988

TABLE O

- ,	1977	1979	1981	1983	1985	1987	1988
Gini coefficients (per cent)			_	_			—
Equivalised original income	43	44	46	48	49	51	51
Equivalised gross income	29	30	31	32	32	36	37
Equivalised disposable income	27	27	28	28	29	33	35
Equivalised post-tax income	29	29	31	31	32	36	39

Taxes and benefits as percentages of income by quintile groups of households(1), 1977-1988

TABLE P

					1977	1979	1981	1983	1985	1987	1988
ash benefits as	percentages	of gr os i	income	:							
Bottom quintile g	auo				58	68	64	66	72	72	73
2nd	,		.,	**	27	29	33	41	43	42	39
3rd					12	13	14	17	16	16	14
4th		••			6	6	7	9	8	7	6
Top				n	3	3	3	4	3	3	2
Average over all	households			••	13	14	14	17	16	15	13
come tax, NIC a	and domestic	rates as	percent	ages of gross income:							
Bottom quintile g	roup				18	12	14	13	13	13	15
2nd				**	20	16	17	16	16	16	17
3rd	••				22	20	21	22	20	20	20
4th					24	22	23	24	23	22	22
Тор	••	**		v	24	23	24	25	25	24	22
Average over all	households				23	20	22	22	22	21	21
ndirect taxes as	percentages	of dispo	sable in	come:							
Bottom quintile g	oup				23	21	26 23	27	27	27	29
2nd					21	21		23	23	23	29 25
3rd				.,	21	22	23	24	23	23	24
4th					20	21	22	23	22	21	21
Top				••	17	19	19	19	18	16	16
Average over all	households				20	21	22	22	21	20	20
Benefits in kind a	s percentag	es of fina	i income) :							
Bottom quintile g	roup				40	39	43	41	39	42	44
2nd					30	30	31	31	29	30	31
3rd					23	22	23	23	22	21	21
4th					16	15	16	16	14	14	14
Top				**	9	8	8	9	7	6	6
A augs all b	nucobolde				20	19	20	20	18	. 7	
Average over all h	QUSBNORS	••			20	19	20	20	18	17	17

[!]Ranked by equivalised disposable income.

The composition (le household type) of the top and bottom quintile groups of households(1), 1977-1988

TABLE Q

Percentages		1977	1979	1981	1983	1985	1987	1988
Bottom quintile group								
Household type		_						
Retired	••	56	65	53	45	47	48	51
Non-retired								
1 adult	••	5	6	5	9	9	7	10
2 adults		7	5	6	8	9	8	7
1 adult with children		7	6	7	8	7	9	10
2 adults with children		21	16	22	22	21	19	16
3 or more adults (8)	••	5	4	7	8	6	6	5
All households in the		_						
bottom quintile group		100	100	100	100	100	100	100
Top quintile group								
Household type								
Retired		4	4	5	7	7	8	6
Non-retired								
1 adult		13	14	14	16	15	18	18
2 adults		43	44	42	38	41	40	41
1 adult with children		1	1	1	1	1	-	
2 adults with children		20	18	19	22	20	20	20
3 or more adults (8		20	19	18	16	16	14	15
All households in the		_					_	
top quintile group		100	100	100	100	100	100	100

¹ Ranked by equivalised disposable income. 2 With or without children.

Tenure type and average household size for the top and bottom quintile groups of households(1), 1977-1988

TABLE R

		1977	1979	1981	1983	1985	1987	1988
Bottom quintile group Tenure type (per cent)		_	_		_	_		~
Public sector rented		44	47	51	44	47	47	49
Privately rented		17	15	11	11	10	9	8
Owner occupied		38	37	36	44	41	43	41
Rent-free		2	2	2	2	2	2	1
All tenure types		100	100	100	100	100	100	100
Average per househol	d (numb	er)						_
Persons		2.4	2.2	2.5	2.6	2.4	2.4	2.2
Adults		1.6	1.6	1.7	1.7	1.7	1.7	1.6
Children		0.7	0.6	8.0	0.8	0.7	0.7	0.6
Economically active		0.5	0.4	0.6	0.4	0.4	0.3	0.3
Retired		8.0	0.9	0.8	0.7	0.7	0.7	0.7
Top quintile group Tenure type (per cent)								
Public sector rented		17	14	11	8	5	4	4
Privately rented		10	8	7	5	4	5	4
Owner occupied		71	77	80	85	89	89	91
Rent-free		2	2	2	2	2	1	1
All tenure types		100	100	100	100	100	100	100
Average per househole	dmun) b	er)						
Persons		2.5	2.5	2.5	2.5	2.4	2.4	2.4
Adults		2.1	2.1	2.1	2.0	2.1	2.0	2.0
Children		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Economically active		1.9	1.9	1.8	1.7	1.7	1.7	1.7
Retired		0.1	0.1	0.1	0.2	0.2		

¹ Ranked by equivalised disposable income,

APPENDIX 1

Detailed tables with fine breakdown of income components for quintile and decile groups, and results for different types of household, 1988

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General government expenditure in 1988

TABLE 1 (Appendix 1)

									£ million	Percentage of total expenditure
llocated expenditure ⁽¹⁾										-
Allocated cash benefits										
Contributory (National	il Insurance,	etc)								
Retirement			 						19 470	11.0
Widows and guar	rdians		 ••						890	0.5
Unemployment		••	 					.,	1 260	0.7
Sickness/ Statuto			 						1 050	0.6
Invalidity			 						3 370	1.9
Maternity			 						260	0.1
Disablement		.,	 						460	0.3
Other			 						280	0.2
Non-contributory										
Family benefits			 						5 270	3.0
Supplementary b	enefits		 						8 020	4.5
War pensions			 						570	0.3
Other			 						2 430	1.4
Student maintenance	grants (2)								850	0.5
Rent rebates and alice			 						3 690	2.1
Allocated benefits in kind										
Health services									21 800	12.3
Education			 						20 280	11.4
School meals and we			 			.,			660	0.4
Housing subsidy			 						1 400	0.8
Travel subsidies (3)			 						1 080	0.6
114761 34031465	••	.,	 		••			**		
									93 100	52.5
Jnallocated expenditure										
Other current expenditure			 						59 210	33.4
Capital expenditure			 						4 020	2.3
Debt interest			 						18 030	10.2
Non-trading capital consu			 						2 890	1.6
Horris ading dapted corred			 	••			••	••	2 000	7.0

Including benefits to people not living in private households, it is not possible (for the reasons given in Appendix 2, paragraph 1) to allocate all of Government expenditure to households.
 Estimated.
 Including concessionary fares expenditure.

Source: United Kingdom National Accounts, 1989 edition, Table 9.4

Financing of general government expenditure in 1988

TABLE 2 (Appendix 1)

									£ million	Percentage of tota financing
Allocated	I financing (1)							 	Z IIIIIIOA	
Income	e tax ⁽²⁾								43 720	24.7
								 ••		
Employ	yees' and self-employed Ni	contribut	ions	••	••			 	15 170	8.6
	it taxes omestic rates (net of rebate	es)						 	8 850	5.0
Ta	axes on final goods and se	rvices								
	VAT							 	20 470	11.9
	Duty on beer and cider							 	2 040	1.2
	Duty on wines and spirits	5						 	2 130	1.2
	Duty on tobacco							 	4 760	2.7
	Duty on hydrocarbon oils							 	3 970	2.2
	Car tax and vehicle excis							 	2 480	1.4
	Other							 	2 730	1.5
		•		.,				 	2,700	1.5
Ta	axes and NI contributions o	n interme	diate god	ds and	services	:				
• •	Employers' NI contribution		orato got						5 420	
	Commercial and industria							 		3.1
					• •			 	4 500	2.5
	Duty on hydrocarbon oils			• •	••		••	 	2 290	1.3
	VAT			••		••		 	1 480	0.8
	Vehicle excise duty			••				 	600	0.3
	Other							 	660	0.4
Unallocat	ted financing								121 270	68.4
Employ	yers' NI contributions not al	located						 	11 090	6.3
Indirec	t taxes									
C	ommercial and industrial ra	tes not all	ocated			••		 	5 230	2.9
0:	ther taxes on expenditure n	ot allocate	ed							
_	VAT		-						6 150	3.5
	Duty on hydrocarbon oils				•	.,		 	2 060	1.2
	Other							 	4 630	2.6
O#										
Other t										
	Corporation tax							 	15 810	8.9
	Petroleum revenue tax						**	 	1 510	0.8
	Taxes on capital				••			 	4 760	2.7
	receipts (3)							 	10 740	6.1
Other r								 	2 890	1.6
	ading capital consumption							••	- 000	1.0
Non-tra	ading capital consumption							 	-8 890	-5.0
Non-tra	nment borrowing requireme									

Source: United Kingdom National Accounts, 1989 edition, Table 9.1

Including taxes paid by people not living in private households.

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

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

By quintile groups of households

TABLE 3 (Appendix 1)

			Quintile	groups of house	olds ranked by	equivalised disp	osable income	A
			Bottom	2nd	3rd	4th	Тор	house hold
Average per household (£	per year)							
Duintile points (equivalised £	3)			4 816	6910	9 594	13 701	
Number of households in t	he sample		1 453	1 453	1 453	1 453	1 453	7 26
Original income								
Earnings of main earner Other earnings			740 86	3 089 471	7 400 1 942	10 829 3 827	19 499 6 195	8 31 2 50
Occupational pensions, an		••	160	503 263	788 480	830 594	1 304	71
Investment income Other income	·· ··		158 67	115	136	174	1 953 216	69 14
Total			1 211	4 440	10 746	16 255	29 166	12 36
Direct benefits in cash Contributory					-			
Retirement pension			1 374	1 312	679	406	298	81
Unemployment benefit Invalidity pension and all			75 123	62 175	55 118	38 56	20 29	5 10
Statutory sick pay			3	18	33	42	35	2
Industriál injury disablem Sickness, industrial injury	ent benefit v benefit		2 12	13 11	18 5	14 6	8 8	1
Widows' benefits	,		38	39	36	61	25	4
Statutory Maternity allow Miscellaneous contribute			8	6 9	11 4	12 3	10 2	
Non-contributory								
Income support/ Suppler	nentary benefi		675 244	249 228	125 298	57 242	19 154	22
Child benefit . Housing benefit .			478	400	95	21	6	23 20
Invalid care allowance .			2 7	10 42	11 52	1 14	2	•
Attendance allowance . Mobility allowance .			14	42	40	16	16 15	2
War pensions .		**	6 35	8 64	16 52	5 28	8 21	2
Severe disablement allow Student maintenance aw			37	30	28	21	27	2
Government training sch		**	28	2 8 27	47 10	20 3	7	2
Family credit/ income su Other non-contributory b		**	29 22	26	24	14	6	1
Total cash benefits .			3 215	2 798	1 756	1 080	715	1 91
Gross income .			4 426	7 239	12 501	17 336	29 881	14 27
Direct taxes and Employees	NIC							
Income tax less; Tax relief at source			185 35	579 68	1 497 192	2 603 325	5 293 514	2 03: 22
Employees' NI contributi			53	229	613	944	1 214	61
Domestic rates (gross) . Total .			465 667	480 1 220	530 2 448	569 3 792	696 6 689	548 2 96 3
Disposable income		**	3 759	6 019	10 053	13 544	23 192	11 31
Equivalised disposable inco	me		3 836	5 741	8 228	11 423	21 323	10 11
(Standard error			44	71	100	136	685	162
Indirect taxes Taxes on final goods and:	services							
VAT .			358	511	891	1 125	1 589	89
Duty on tobacco Duty on beer and cider.			168 33	196 58	254 109	249 131	177 116	20 ⁻
Duty on wines			7 28	9	22	35	81	3
Duty on spirits Duty on hydrocarbon oils	 5			44 99	62 192	80 243	109 277	6 17
Car Tax			52 7	16	37 95	52	68	3
- 1			33 43	50 47	53	111 54	126 55	8 5
Stamp duty on house pu			6	8 26	20 40	29	56	2
Betting taxes			20 20	29	54	48 48	60 41	8 5 2 3 3
Other			9	13	15	18	20	1
Intermediate taxes Commercial and industri	al rates		88	114	174	210	293	17
Employers' NI contribution	ons		100	130	201	244	343	20
Duty on hydrocarbon oil: Vehicle excise duty	5		45 11	56 14	84 21	101 25	136 34	B- 2
			42	55	83	99	136	8
Total indirect taxes			1 081	1 475	2 408	2 902	3 714	2 316
Post-tax income			2 678	4 544	7 645	10 642	19 478	8 99
Benefits in kind			793	700	004	0.40		===
Education National health service			793 1 122	792 1 062	961 977	812 822	416 717	755 9 40
Housing subsidy			104	104	47	28	11	59
Rail travel subsidy			9 33	11 34	28 23	27 20	52 15	25
Bus travel subsidy School meals and welfare	milk		62	22	20	13	15 8	25
→ 11			2 124	2 024	2 056	1 722	1 219	1 829

¹ On mortgage interest and life assurance premiums.

By decile groups of households

TABLE 4 (Appendix 1)

TABLE 4 (Appendix 1)	Decile or	nuns of h	ousehold	s ranked b	v equivali	ed dispos	sable inco				All
	Bottom	2nd	3rd		5th	6th			9th	Тор	house-
Average per household (£ per year)											
Decile points (equivalised £)	4	018	816	5 667	6910	8 202	9 594	11 320	13 701	17 860	
Number of households in the sample	727	726	727	726	727	726	727	726	727	726	7 265
Original income											
Earnings of main earner Other earnings	487 62	994 111	1 804 241	702	6 584 1 498	8 217 2 387	3 236			24 728 6 703	8 311 2 504
Occupational pensions, annuities	110 163	210 152	354 202		697 467	879 494		866 641	974 1 038	1 633 2 870	717 690
Other income	67	68	90	140	158	113	170	179	200	232	142
Total	888	1 534	2 691	6 192	9 404	12 089	14 760	17 753	22 175	36 166	12 364
Direct benefits in cash Contributory											
Retirement pension Unemployment benefit	1 147 82	1 603 68	1 552 59		764 47	594 64		324 22	306 26	290 13	814 50
Invalidity pension and allowance	103	143	147	203	129	107	60	52	42	17	100
Statutory sick pay Industrial injury disablement benefit	1 3	4	12 12	13	29 17	37 19		46 18		30 6	20
Sickness, industrial injury benefit	18 35	5 41	17 26		6 46	4 27		7 58		8 17	40
Widows' benefits Statutory Maternity allowance/pay	3	4	3	9	10	13	16	9	12	9	9
Miscellaneous contributory benefits	6	10	9	8	5	4	3	3	2	2	,
Non-contributory Income support/Supplementary benefit	795	554	267	231	150	100	83	32	19	19	225
Child benefit	275 390	212 566	172 549	283	311 117	284 73	273	211	164	144	233
Housing benefit Invalid care allowance	5		8	12	11	10		2	2	2	200
Attendance allowance Mobility allowance	3 10	11 18	38 21		60 50	44 30	18 22	10 10		14 15	26
War pensions	3	9	8	8	19	13	5	6	4	12	25
Severe disablement allowance Student maintenance awards	16 53	53 22	61 27	32	61 37	42 19		14 21	21 44	2! 11	40 29
Government training schemes Family credit/ income supplement	25 24	31 34	17 28		46 10	48 9		18 5	10	5	26
Other non-contributory benefits	14	29	36		24	24		8	5	7	14 18
Total cash benefits	3 013	3 417	3 070	2 526	1 947	1 564	1 270	891	786	644	1 913
Gross income	3 901	4 951	5 761	8 718	11 351	13 654	16 029	18 644	22 962	36 810	14 277
Direct taxes and Employees' NIC											
Income tax	223 37	147 34	379 49		1 253 165	1 742 219		2 885 358	3 923 434	6 665 594	2 032 227
Employees' N I contributions	32	73	123	336	518	708	872	1 015	1 204	1 223	610
Domestic rates (gross) Total	474 693	455 641	463 916		515 2 121	546 2 776		579 4 122	623 5 317	768 8 063	548 2 963
Disposable income	3 208	4 311	4 845	7 194	9 230	10 878	12 568	14 521	17 645	28 747	11 313
Equivalised disposable income	3 236	4 436	5 207			8 896		12 432		27 048	10 110
(Standard error	56	42	56	91	99	107	126	156	218	1 291	162,
Indirect taxes Taxes on final goods and services											
VAT	370 162	346 175	384 166		806 248	975 260	1 049 240	1 201 258	1 402	1 776	895
Duty on tobacco Duty on beer and cider	31	36	43	74	95	123	128	134	202 116	152 116	209 89
Duty on wines Duty on spirits	7 26	8 29	7 39		20 55	24 70	30 84	39 77	55 103	107 115	31 65
Duty on hydrocarbon oils	63	61	69	128	178	206	225	261	275	278	174
Car tax Vehicle excise duty	10 34	4 33	6 36	64	31 85	44 105	43 104	61 118	68 128	67 124	36 83
Television licences	43 7	43 5	45 6	49 10	53 18	54 23	54 25	54 34	54 45	56 66	50
Customs' duties	21	19	19	33	37	43	46	50 55	58	63	39
Betting taxes Other	19 9	22 8	23 12	36 15	51 14	57 15	42 18	55 18	44 17	37 22	36 83 50 24 39 38 15
Intermediate taxes										_	
Commercial and industrial rates	90	86	92		164	184	199	220	252	334	176
Employers' NI contributions Duty on hydrocarbon oils	102 45	98 44	105 46		190 82	212 87	231 94	257 107	294 116	392 155	204 84
Vehicle excise duty Other	11 43	10 41	11 44		20 79	21 87	23 95	27 104	29 118	40 154	21 83
Total indirect taxes	1 094	1 068	1 154		2 225	2 591	2 730	3 075	3 376	4 053	2316
Post-tax income	2 115	3 242	3 691		7 004	8 287	9 838	11 447	14 270	24 694	8 997
Benefits in kind											
Education	939 1 098	648 1 147	529 1 083		1 047 997	875 957	915 865	708 779	500 734	332 701	755 940
Housing subsidy	93	115	122	85	53	40	33	23	15	7	940 59
Rail travel subsidy Bus travel subsidy	9 28	8 38	12 38		17 24	39 22	24 21	29 20	49 15	55 14	25 25
School meals and welfare milk	83	42	21	22	22	18	15	. 11	10	5	25
Total	2 250	1 997	1 805		2 160	1 952	1 874	1 570	1 323	1 114	1 829
Final income	4 364	5 240	5 496	7 642	9 165	10 239	11 711	13 017	15 592	25 808	10 826

³ On mortgage interest and life assurance premiums.

By quintile groups within household type

TABLE 5 (Appendix 1)

				Quintile (groups of househ	olds ranked by equ	ivalised disposable	income	
				Bottom	2nd	3rd	4th	Тор	Al groups
Average per household (£ (I) 1 adult retired	per year	')		_					
Quintile points (equivalised	£)				4 023	4 843	5 345	6 81 1	
Number of households in	the sample	le		205	206	205	206	205	1 027
Original income				304	404	465	1 164	6 122	1 690
Direct benefits in cash Contributory									
Retirement pension Sickness/ injury related				2 117 6	2 156 21	2 144	2 162 21	2 068 75	2 129 26
Unemployment benefit Other				19	14	46	13	6 68	32
Total contributory Non-contributory				2 142	2 191	2 196	2 196	2 216	2 188
Income support/ Supple Child benefit		penefit		50	42	74	84	39	58
Housing benefit Sickness/ disablement		·· ··		148	505 22	796 15	673 73	116 200	448 62
Other				198	32 600	30 914	10 841	104 459	35 603
Gross income				2 644	3 194	3 576	4 202	8 798	4 481
Income tax ⁽¹⁾ and Employe				106	35	45	157	1 315	331
Domestic rates(gross)				481	410	419	464	581	471
Disposable income				2 057	2 749	3 112	3 581	6 902	3 679
Equivalised disposable in	icome .			3 373	4 506	5 101	5 870	11 314	6 031
Taxes on final goods and Intermediate taxes	services .			352 186	327 159	355 168	410 199	758 321	440 207
Post-tax income				1 520	2 263	2 589	2 971	5 822	3 032
Benefits in kind									
Education National health service				1 193	1 049	1 046	1 003	944	1 047
Housing subsidy Travel subsidies			••	39 37	102 43	150 46	129 44	57 44	95 43
School meals and welfa	are milk .			0.700	1	2 224			
Final income				2 789	3 458	3 831	4 147	5 866	4 217
(ii) 2 or more adults retire	d								
Quintile points (equivalised	(£)				4 155	4 833	6 253	8 699	
Number of households in	the samp	le		171	172	171	172	171	857
Original income				647	822	2 086	4 769	14 263	4 51 4
Direct benefits in cash Contributory									
Retirement pension Sickness/ injury related				3 043 104	3 425 96	3 370 150	3 061 295	3 000 319	3 180 193
Unemployment benefit Other				31 29	22 18	11 17	15 45	35 28	23 27
Total contributory				3 207	3 561	3 548	3 417	3 382	3 423
Non-contributory Income support/ Supple	ementary l	benefit		169	137	136	73	27	108
Child benefit Housing benefit				15 185	444	7 263	108	7 12	6 203
Sickness/ disablement	related			7	99	314	407	256	217
Other Total non-contributory				41 417	60 740	78 797	61 649	24 326	53 586
Gross income				4 271	5 123	6 432	8 834	17 971	8 523
income tax(1) and Employ	ees' NIC .			101	58	268	726	2 990	828
Domestic rates(gross)				496	472	511	556	780	563
Disposable income		••		3 674 <i>3 573</i>	4 592	5 653	7 552	14 201	7 132
Equivalised disposable in				721	4 478 741	5 469 931	<i>7 30 7</i> 1 324	13 243	6 812
Taxes on final goods and Intermediate taxes	services			296	272	329	448	2 017 700	1 146 409
Post-tax income				2 657	3 579	4 394	5 780	11 484	5 577
Benefits in kind Education			**	51		22		88	32
National health service	·			1 772	1 587	1 597	1 465	1 374	1 5 59
Housing subsidy Travel subsidies				46 66-	115 74	90 71	60 65	75	63 70
School meals and welf	are milk			7		2		•	2
School meals and well									

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

By quintile groups within household type

				Quintile gr	roups of househol	ds ranked by equ	ivalised disposable	income	4.
				Bottom	2nd	3rd	4th	Тор	Al groups
Average per household (£ (iii) 1 adult non-ratired	per yea	ır)							_
Quintile points (equivalised	£)				4 925	8 943	12 213	16 902	
Number of households in	the samp	ple		162	162	163	152	162	811
Original income				607	3 732	8 108	11 430	18 911	8 557
Direct benefits in cash									
Contributory Retirement pension				25	102	73	43	39	56
Sickness/ injury related Unemployment benefit				165 121	250 65	73 12	37 5	78 5	121 42
Other				170	1 26	154	120	66	127
Total contributory Non-contributory	••	••		481	543	313	205	188	346
Income support/ Supple Child benefit	mentary			796	265	35 2	13 5	2	222
Housing benefit				649	364	40	3	11	213
Sickness/ disablement r Other	elated			84 138	219 35	61 13	11 2	24 25	80 43
Takal and anneath and				1 666	883	150	33	62	558
Gross income				2 755	5 158	8 571	11 6 67	19 161	9 46 1
Income tax ⁽¹⁾ and Employe	ees' NIC			62	620	1 730	2 508	3 795	1 743
Domestic rates(gross)				386	404	441	433	538	441
Disposable income				2 307	4 134	6 399	8 727	14 827	7 278
Equivalised disposable in	соте			3 781	6 77 7	10 491	14 306	24 307	11 931
Taxes on final goods and	services			533	805	1 232	1 400	1 826	1 159
Intermediate taxes				188	249	362	408	610	363
Post-tax income				1 585	3 080	4 805	6 919	12 391	5 755
Benefits in kind Education				337	143		41		104
				263 99	283 85	268 50	252 22	252 20	264
Housing subsidy Travel subsidies				22	31	25	24	59	55 32
School meals and welfa	re milk			-	-	-	-	•	
Final income				2 306	3 622	5 149	7 259	12 723	6 210
(iv) 2 adults non-retired									
Quintile points (equivalised	£)				7 320	10 220	13 525	18 227	
Number of households in	the samp	ple		304	304	304	304	304	1 520
Onginal income			**	4 031	9 851	15 058	20 306	36 950	17 239
Direct benefits in cash									
Contributory Retirement pension				574	598	267	199	191	366
Sickness/ injury related Unemployment benefit				476 106	216 55	122	91 21	62 15	193 44
Other				38	50	55	24	5	34
Total contributory Non-contributory	••	••		1 194	920	468	335	272	638
Income support/ Supple	rmentary	benefit		407	75 3	37	17	.1	107
Child benefit Housing benefit				282	103	23	2 8	10	3 83
Sickness/ disablement i	related	**		269 162	195 62	27 10	75	21	117
Other Total non-contributory				1 120	438	97	22 1 24	23 56	56 367
Gross income				6 345	11 209	15 623	20 765	37 278	18 244
Income tax ⁽¹⁾ and Employ	ees' NIC			626	1 737	3 023	4 321	7 597	3 461
Domestic rates(gross)				469	504	528	580	740	564
Disposable income				5 250	8 968 <i>8 787</i>	12 072	15 864	28 941	14 219
Equivalised disposable inco				5 140	1 720	11 867	15 650	28 711	14 031
Taxes on final goods and intermediate taxes	services			1 238 368	509	2 169 636	2 555 759	3 052 1 049	2 147 664
Post-tax income			••	3 644	6 739	9 267	12 551	24 840	11 408
Benefits in kind Education				303	136	55	45	34	
	••	••		766	698	584	549	34 557	115 631
National health service		**						557	
National health service Housing subsidy				78	46	27	18	1	34
National health service									

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

By quintile groups within household type

				Quintile g	roups of househol	ds ranked by equ	valised disposable	income	
				Bottom	2nd	3rd	4th	Тор	group
Average per household (9 v) 3 or more adults non-r	E per yea retired	r)							
Quintile points (equivalised	E)				7 171	9 074	11 410	14 656	
Number of households in	the samp	ole	**	128	129	128	129	128	64
Original income				6 887	14 008	18 679	24 866	40 060	20 89
Direct benefits in cash Contributory									
Retirement pension				704	539	499	341	258	46
Sickness/ injury related Unemployment benefit		••		668 206	347 134	277 132	257 33	147 31	339 101
Other				67	52	58	52	11	4
Total contributory Non-contributory	••	••		1 645	1 071	966	684	448	96
Income support/ Supple	ementary	benefit		718	305	127	58	47	25
Child benefit Housing benefit				9 265	12 75	6 33	9 3	6 11	7
Sickness/ disablement	related			356	212	262	61	96	193
Other Total non-contributory			••	505 1 852	320 924	209 636	119 250	78 237	246 779
Gross income				10 384	16 002	20 282	25 801	40 745	22 637
Income taxia and Employ				1 189	2 555	3 556	5 139	8 596	4 206
Domestic rates(gross)				509	513	518	562	802	58
Disposable income				8 686	12 934	16 208	20 099	31 347	17 851
Equivalised disposable in	ncome			5 570	8 182	10 115	12 900	20 280	11 407
Taxes on final goods and Intermediate taxes	l services			1 999 593	2 764 741	3 098 837	3 501 907	3 782 1 239	3 029 863
Post-tax income				6 094	9 429	12 273	15 691	26 326	13 958
Benefits in kind									
Education	••			1 276 1 039	666 995	637 980	387 939	443 907	681
National health service Housing subsidy				86	62	47	26	18	972 48
Travel subsidies School meals and welfa	 are milk			73 1	72	62	91	129	85
Final income				8 569	11 224	13 999	17 134	27 823	15 745
(vi) 1 adult with children(1)								
Quintile points (equivalised	(£)				3 899	4 502	5 155	7 781	
Number of households in	the sam	ple		56	57	56	57	56	282
Original income				239					
				239	475	772	4 158	11 523	3 425
Direct benefits in cash Contributory				235	475	772	4 158	11 523	3 425
Contributory Retirement pension				-	475				
Contributory				62 5	:	82	33 12	43 15	3 425 - 44 6
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other				62 5 162	92	82 37	33 12 177	43 15 312	- 44 6 156
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory				62 5 162 229	92 92	82	33 12 177 222	43 15 312 371	44 6 156 206
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Suppli		 benefit		62 5 162 229 1 379	92 92 92 2 077	82 37 119 2 005	33 12 177 222 779	43 15 312 371 436	44 6 156 206 1 336
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit	 ementary 	 benefit 		62 5 162 229	92 92	82 37 119 2 005 639 1 224	33 12 177 222 779 694 514	43 15 312 371	44 6 156 206 1 336 720 813
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplichild benefit Housing benefit Sickness/ disablement	 ementary 	benefit		62 5 162 229 1 379 809	92 92 92 2 077 742 1 040	82 37 119 2 005 639 1 224 23	33 12 177 222 779 694 514 22	43 15 312 371 436 715 320	44 6 156 206 1 336 720 813 9
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit	 ementary 	 benefit 	 	62 5 162 229 1 379 809 970	92 92 92 2 077 742	82 37 119 2 005 639 1 224	33 12 177 222 779 694 514	43 15 312 371 436 715	44 6 156 206 1 336 720 813 9
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplichid benefit Housing benefit Sickness/ disablement Other	 ementary 	benefit		62 5 162 229 1 379 809 970	92 92 92 2 077 742 1 040	82 37 119 2 005 639 1 224 23	33 12 177 222 779 694 514 22 469	43 15 312 371 436 715 320	44 6 156 206 1 336 720 813
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory	ementary related	benefit		62 5 162 229 1 379 809 970 144 3 302	92 92 92 2 077 742 1 040 151 4 010	82 37 119 2 005 639 1 224 23 110 4 001	33 12 177 222 779 694 514 22 469 2 477	43 15 312 371 436 715 320 30 1 500	44 6 156 206 1 336 720 813 9 182 3 060 6 691
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ^(a) and Employ	ementary related yees' NIC	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770	92 92 92 2 077 742 1 040 151 4 010 4 577	82 37 119 2 005 639 1 224 23 110 4 001 4 893	33 12 177 222 779 694 514 22 469 2 477 6 857	43 15 312 371 436 715 320 30 1 500	44 6 156 206 1 336 720 813 9 182 3 060 6 691 428 496
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ^(a) and Employ Domestic rates(gross)	ementary related yees' NIC	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510	92 92 92 2 077 742 1 040 151 4 010 4 577	82 37 119 2 005 639 1 224 23 110 4 001 4 893	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527	1 336 720 813 9 182 3 060 6 691 428 496
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ^(a) and Employ Domestic rates(gross) Disposable income Equivalised disposable income Taxes on final goods and	ementary related yees' NIC	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355	44 6 158 206 1 336 720 813 9 182 3 060 6 691 428 496 5 768 5 946
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ^(a) and Employ Domestic rates(gross) Disposable income Equivalised disposable inco	ementary related yees' NIC	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299 3 237 699	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111 4 193 628	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420 4 776 626	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502 6 054 6 197	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355	44 6 156 206 1 336 720 813 9 182 3 060 6 691 428 496 5 768 5 946 916 332
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income income tax ^{ra} and Employ Domestic rates(gross) Disposable income Equivalised disposable inco Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind	ementary	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299 3 237 699 255 2 345	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111 4 193 628 242 3 241	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420 4 776 626 238 3 556	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502 6 054 6 197 1 158 394 4 503	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355 1 472 532 8 975	44 6 158 206 1 336 720 813 9 182 3 060 6 691 428 496 5 768 5 946 916 332 4 519
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ^(a) and Employ Domestic rates(gross) Disposable income Equivalised disposable inco Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education	ementary related	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299 3 237 699 255 2 345	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111 4 193 628 242 3 241	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420 4 776 626 238 3 556	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502 6 054 6 197 1 158 394 4 503	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355 1 472 532 8 975	44 6 156 206 1 336 720 813 9 182 3 060 6 691 428 496 5 768 5 946 332 4 519
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ⁽²⁾ and Employ Domestic rates(gross) Disposable income Equivalised disposable inco Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education National health service Housing subsidy	ementary related	benefit		62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299 3 237 699 255 2 345	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111 4 193 628 242 3 241	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420 4 776 626 238 3 556	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502 6 054 6 197 1 158 394 4 503	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355 1 472 532 8 975 2 010 574 30	1 336 206 1 336 1 336 1 336 1 32 3 060 6 691 428 496 5 768 5 946 916 332 4 519
Contributory Retirement pension Sickness/ injury related Unemployment benefit Other Total contributory Non-contributory Income support/ Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income income tax ^(a) and Employ Domestic rates(gross) Disposable income Equivalised disposable inco Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education National health service	ementary			62 5 162 229 1 379 809 970 144 3 302 3 770 -39 510 3 299 3 237 699 255 2 345	92 92 92 2 077 742 1 040 151 4 010 4 577 -2 468 4 111 4 193 628 242 3 241	82 37 119 2 005 639 1 224 23 110 4 001 4 893 1 472 4 420 4 776 626 238 3 556	33 12 177 222 779 694 514 22 469 2 477 6 857 300 502 6 054 6 197 1 158 394 4 503	43 15 312 371 436 715 320 30 1 500 13 394 1 888 527 10 979 11 355 1 472 532 8 975	44 6 155 206 1 336 720 813 9 182 3 060 6 691 428 496 5 768 5 946 332 4 519

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.

By quintile groups within household type

				Quintile g	roups of household	ds ranked by equi	ivalised disposable	income	
				Bottom	2nd	3rd	4th	Тор	Al groups
Average per household (f (vii) 2 adults with 1 child	per yea	ır)							
Quintile points (equivalised	Ð				6 199	8 463	10 662	14 268	
Number of households in	the samp	ple		114	113	114	113	114	568
Original income				4 677	10 113	13 494	18 329	35 391	16 408
Direct benefits in cash									
Contributory Retirement pension				19	40	100	20	6	17
Sickness/ injury related Unemployment benefit				253 209	99 97	109 112	41 42	75 18	116 95
Other Total contributory				185 665	97 333	100 320	94 197	81 179	111 339
Non-contributory				902	168	84			
Income support/ Supple Child benefit				380	368	378	390	70 378	245 379
Housing benefit Sickness/ disablement	 related			455 52	74 53	49 11	4 30	15 86	120 46
Other		••		149 1 938	30 693	17 540	43 468	169	82
Total non-contributory								717	872
Gross income				7 279	11 139	14 354	18 994	36 287	17 620
Income tax ⁽¹⁾ and Employ Domestic rates(gross)	ees' NIC		••	1 326 488	1 756 480	2 303 540	3 605 611	7 438 715	3 288 567
Disposable income				5 466	8 904	11 511	14 779	28 133	13 765
Equivalised disposable in	гсоте			4 496	7 439	9 652	12 242	23 143	11 400
Taxes on final goods and Intermediate taxes	services			1 352 425	1 720 504	1 840 589	2 241 727	2 900 1 046	2 01 1 658
Post-tax income			.,	3 689	6 679	9 082	11 811	24 187	11 096
Benefits in kind				4.000	700	705	000	700	
Education National health service				1 038 960	726 946	785 986	899 904	702 1 067	830 973
Housing subsidy Travel subsidies				96 40	57 24	32 30	11 28	13 60	42 36
School meals and welfa	ure milk	.,		52	15	11	20	19	23
Final income				5 876	8 447	10 926	13 673	26 048	13 001
(viii) 2 adults 2 children									
Quintile points (equivalised	(£)				5 999	7 680	9 525	12 451	
Number of households in	the sam	ple		174	174	174	174	174	870
Original income			.,	5 078	11 345	14 550	18 970	33 857	16 760
Direct benefits in cash Contributory									
Retirement pension				337	13 5 5	35	46	31	9
Sickness/injury related Unemployment benefit				125	36	16	41	24 26	99 49
Other Total contributory				6 469	40 144	8 59	11 98	28 109	19 17 6
Non-contributory				810	92	5	74		
Income support/ Suppli Child benefit				757	750	735	742	8 735	198 744
Housing benefit Sickness/ disablement	 related			394 112	81 33	17 57	10	33 33	101 47
Other				79	56	27	30	16	41
Total non-contributory		••		2 151 7 698	1 012 12 501	840 15 448	856 19 923	793	1 130
Gross income	 one' NIC			963	1 914	2 590	3 573	34 759 6 256	18 066
Income tax ⁽¹⁾ and Employ Domestic rates(gross)				487	549	584	666	807	3 059 619
Disposable income				6 247	10 037	12 274	15 685	27 697	14 388
Equivalised disposable is				4 370	6 982	8 567	10 880	19 237	10 007
Taxes on final goods and Intermediate taxes	services	i		1 574 485	1 813 610	2 096 655	2 394 780	2 963 1 133	2 168 733
Post-tax income		••		4 188	7 614	9 523	12 511	23 601	11 487
Benefits in kind Education				2 033	2 076	2 05 1	2 127	1 507	1 959
National health service				1 069	1 023	1 150	1 038	1 062	1 068
Housing subsidy Travel subsidies				109 21	50 26	12 22	13 32	3 63	37 33
School meals and welf	are milk			128	54	49	45	36	62
Final income				7 547	10 843	12 807	15 766	26 272	14 647

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

By quintile groups within household type

				Quintile g	oups of household	ds ranked by equi	ivalised disposable	income	A.1
				Bottom	2nd	3rd	4th	Тор	Al groups
Average per household (I (Ix) 2 adults with 3 or mo	E per yea re childre	r) on			_	_			
Quintile points (equivalised	Ð				4 542	6 334	8 160	10 933	
Number of households in	the samp	oie		65	65	64	65	65	324
Original income				3 034	10 080	13 472	18 594	34 385	15 921
Direct benefits in cash Contributory									
Retirement pension Sickness/ injury related	 I	.,		200	132	54	79	13	96
Unemployment benefit Other				325 22	47	23 7	45 44	26 6	93
Total contributory				548	179	84	169	45	205
Non-contributory Income support/ Supple	ementary	benefit		1 483	83	100	181	46	380
Child benefit Housing benefit				1 355 556	1 315 169	1 140 32	1 204 18	1 106 29	1 224 161
Sickness/ disablement	related			129	111	94	84		84
Other Total non-contributory				260 3 784	190 1869	15 1 383	43 1 530	1 225	111 1 960
Gross income				7 365	12 128	14 939	20 292	35 655	18 086
Income taxi" and Employ	ees' NIC			374	1 899	2 313	3 704	6 349	2 930
Domestic rates(gross)				478	544	549	630	860	612
Disposable income				6 513	9 685	12 078	15 958	28 447	14 544
Equivalised disposable in				3 654	5 478	7 108	9 264	17 021	8 509
Taxes on final goods and Intermediate taxes	services 			1 365 447	1 836 576	1 791 630	2 323 806	3 096 1 398	2 083 772
Post-tax income				4 702	7 274	9 657	12 828	23 952	11 689
Benefits in kind				2 2 4 2	2.207	2.704	2.004		
Education National health service				3 842 1 584	3 387 1 370	3 784 1 408	3 391 1 480	2 961 1 378	3 472 1 444
Housing subsidy Travel subsidies		••		157 25	157 15	53 21	34 44	10 72	82 35
School meals and welfa	are milk			298	91	58	80	72	:20
Final income				10 609	12 294	14 981	17 857	28 445	16 843
(x) 3 or more adults with	children								
Quintile points (equivalised	(£)				6 014	7 946	9 79 6	12 292	
Number of households in	the samp	ole		73	73	72	73	73	364
Original income			••	7 280	14 380	19 400	24 615	39 177	20 975
Direct benefits in cash Contributory									
Reprement pension				221	263	126	314	404	
Sickness/ injury related Unemployment benefit	1		`					181	221
				246 226	137 195	162 113	59 42	183	158
Other	 	,.		226 37	137 195 57	162 113 61	59 42 81	183 45 8	158 124 49
Other Total contributory Non-contributory	 			226 37 730	137 195 57 652	162 113 61 461	59 42 81 495	183 45 8 418	158 124 49 551
Other Total contributory	 			226 37 730 1 480 801	137 195 57 652 455 587	162 113 61 461 192 474	59 42 81	183 45 8	158 124 49 551
Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit	 ementary 	 benefit 		226 37 730 1 480 801 356	137 195 57 652 455 587 77	162 113 61 461 192 474 35	59 42 81 495 150 525 16	183 45 8 418 23 568	158 124 49 551 461 591 97
Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other	 ementary 	 benefit		226 37 730 1 480 801 356 75 401	137 195 57 652 455 587 77 169 380	162 113 61 461 192 474 35 236 220	59 42 81 495 150 525 16 78 305	183 45 8 418 23	158 124 49 551 461 591
Other Total contributory Non-contributory Income support/ Suppli Child benefit Housing benefit Sickness/ disablement Other Total non-contributory	 ementary 	benefit		226 37 730 1 480 801 356 75 401 3 112	137 195 57 652 455 587 77 169 380 1 867	162 113 61 461 192 474 35 236 220	59 42 81 495 150 525 16 78 305 1 074	183 45 8 418 23 568 111 91 793	158 124 49 551 461 591 97 134 280 1 562
Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112	137 195 57 652 455 587 77 169 380 1 667	162 113 61 461 192 474 35 236 220 1 157 21 018	59 42 81 495 150 525 16 78 305 1 074 26 185	183 45 8 418 23 568 111 91 793 40 388	158 124 49 551 461 591 97 134 280 1 562
Other Total contributory Non-contributory Income support/ Suppli Child benefit Housing benefit Sickness/ disablement Other Total non-contributory	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112	137 195 57 652 455 587 77 169 380 1 867	162 113 61 461 192 474 35 236 220	59 42 81 495 150 525 16 78 305 1 074	183 45 8 418 23 568 111 91 793	158 124 49 551 461 591 97 134 280 1 562
Other Total contributory Non-contributory Non-contributory Income support Supplication Child benefit Housing benefit Sickness' disablement Other Total non-contributory Gross income Income tax ¹⁷ and Employ	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295	137 195 57 652 455 587 77 169 380 1 867 16 699	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768	59 42 81 495 150 525 16 78 305 1 074 26 185	183 45 8 418 23 568 111 91 793 40 388 7 797	158 124 49 551 461 591 97 134 280 1 562 23 088
Other Total contributory Non-contributory Income support/ Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ¹⁹ and Employ Domestic rates(gross)	ementary related yees' NIC	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619	183 45 8 418 23 568 111 91 793 40 388 7 797 885	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274
Other Total contributory Non-contributory Income support Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ⁽¹⁾ and Employ Domestic rates(gross) Disposable income Equivalised disposable in Taxes on final goods and	ementary related yees' NIC	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587 16 663 8 850 3 208	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785 3 338	183 45 8 418 23 568 111 91 793 40 388 7 797 885 31 706 16 595 4 216	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274 9 553 3 180
Other Total contributory Non-contributory Income support Supple Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ¹⁰ and Employ Domestic rates(gross) Disposable income Equivalised disposable in	ementary related yees' NIC	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345 4 527 2 323	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339 6 998 2 814	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587 16 663 8 850	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785	183 45 8 418 23 568 111 91 793 40 388 7 797 885 31 706 16 595	158 124 49 551 461 591 97 134 28 23 088 4 186 628 18 274 <i>9 553</i>
Other Total contributory Non-contributory Non-contributory Income support Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income taxin and Employ Domestic rates(gross) Disposable income Equivalised disposable in Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind	ementary related yees' NIC	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345 4 527 2 323 711 6 311	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339 6 998 2 814 805	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587 16 663 8 850 3 208 922	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785 3 338 926	183 45 8 418 23 568 111 91 793 40 388 7 797 885 31 706 16 595 4 216 1 409 26 080	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274 9 553 3 180 954
Other Total contributory Non-contributory Non-contributory Income support Supplication Child benefit Housing benefit Sickness' disablement Other Total non-contributory Gross income Income taxin and Employ Domestic rates(gross) Disposable income Equivalised disposable in Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345 4 527 2 323 711	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339 6 998 2 814	162 113 61 461 192 474 35 236 220 1157 21 018 3 768 587 16 663 8 850 3 208 922	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785 3 338 926	183 45 8 418 23 568 1111 91 793 40 388 7 797 885 31 706 16 595 4 216 1 409 26 080	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274 9 553 3 180 954 14 139
Other Total contributory Non-contributory Non-contributory Income support Supplic Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income taxin and Employ Domestic rates(gross) Disposable income Equivalised disposable in Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education National health service Housing subsidy	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345 4 527 2 323 711 6 311	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339 6 998 2 814 805 9 721	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587 16 663 8 850 3 208 922 12 533	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785 3 338 926 16 029	183 45 8 418 23 568 1111 91 793 40 388 7 797 885 31 706 16 595 4 216 1 409 26 080 2 254 1 297 15	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274 9 553 3 180 954 14 139 2 2537 1 268 59
Other Total contributory Non-contributory Non-contributory Income support Supplication Child benefit Housing benefit Sickness/ disablement Other Total non-contributory Gross income Income tax ¹⁹ and Employ Domestic rates(gross) Disposable income Equivalised disposable in Taxes on final goods and Intermediate taxes Post-tax income Benefits in kind Education National health service	ementary related	benefit		226 37 730 1 480 801 356 75 401 3 112 11 122 1 295 482 9 345 4 527 2 323 711 6 311	137 195 57 652 455 587 77 169 380 1 867 16 699 2 791 568 13 339 6 998 2 814 805 9 721	162 113 61 461 192 474 35 236 220 1 157 21 018 3 768 587 16 663 8 850 3 208 922 12 533	59 42 81 495 150 525 16 78 305 1 074 26 185 5 273 619 20 292 10 785 3 338 926 16 029	183 45 8 418 23 568 111 91 793 40 388 7 797 885 31 706 16 595 4 216 1 409 26 080	158 124 49 551 461 591 97 134 280 1 562 23 088 4 186 628 18 274 9 553 3 180 954 14 139 2 537 1 268

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

Distribution of households(1) co-operating in the Family Expenditure Survey, 1988

By decile groups of households ranked by equivalised disposable income

TABLE 6 (Appendix 1)

			Retired ho	sbloriesuc	Non-Re	tired househ	rolds						
			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	A house holds
		ouseholds											
	sed dis	sposable ir					4.7				40		
Bottom			204	135	80	62	17	69	38	59	42	21	72
2nd			192	206	71	45	14	79	28	36	34	21	726
3rd			305	119	48	57	30	39	26	58	26	19	72
4th			127	107	51	114	53	27	53	96	53	45	726
5th		••	53	95	50	122	79	21	68	151	42	46	72
6th			51	70	57	143	99	17	64	127	41	57	72
7th	••		34	39	93	162	88	16	95	113	26	61	72
8th			23	32	105	223	103	8	72	95	25	40	726
9th		••	17	31	116	270	100	4	71	69	15	34	72
	**		21	23	140	322	59	2	53	66	20	20	726
Тор	••	••	21	23	140	322	29	2	53	66	20	20	/ 20
All housel	nolds		1 027	857	811	1 520	642	282	568	870	324	364	7 26

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

APPENDIX 2

METHODOLOGY AND DEFINITIONS

The allocation of government expenditure and its financing

There are considerable difficulties in moving from the aggregates of government expenditure and financing published in the United Kingdom National Accounts - the CSO Blue Book - to apportioning taxes and benefits to individual households. We can obtain information about the types of household that receive cash benefits and pay direct taxes through surveys such as the Family Expenditure Survey (FES). From the replies respondents give to questions on their expenditure we can impute their payments of indirect taxes, and from information they supply about such factors as their ages and number of children in the household we can estimate the average costs of providing them with social services, such as health and education. But there are other kinds of financing, such as corporation tax and government receipts from public corporations: no attempt is made in this analysis to apportion them to households because it would be too difficult. Similarly, there are other items of government expenditure, such as capital expenditure and expenditure on defence and on the maintenance of law and order, for which there is no clear conceptual basis for allocation, or for which we do not in any event have sufficient information to make an allocation. In all, 68 per cent of government financing (including the Borrowing Requirement) and 53 per cent of expenditure are allocated to households in this analysis.

Family Expenditure Survey(FES)

- 2. The estimates in this article are based mainly on data derived from the FES. The FES is an annual survey of the expenditure and income of private households. People living in hotels, lodging houses, and in institutions such as old peoples' homes are excluded. Each person aged 16 and over keeps a full record of payments made during 14 consecutive days and answers questions about hire purchase and other payments. The respondents also give detailed information, where appropriate, about income (including cash benefits received from the state) and payments of income tax. Information on age, occupation, education received, family composition and housing tenure is lso obtained. The survey covers the whole 12 month period.
- 3. One of the main purposes of the FES is to produce information on household expenditure patterns which is used to derive the weights for the index of retail prices. The survey is conducted by the Office of Population Censuses and Surveys on behalf of the Central Statistical Office who analyse and report on it (prior to July 1989, the FES was the responsibility of the Department of Employment). The Family Expenditure Survey Report for 1988, containing detailed data on household characteristics, income, and expenditure, was published in February 1990. Details of the survey method are set out in 'The Family Expenditure Survey Handbook' by WFF Kemsley, RU Redpath and M Holmes. Both are published by Her Majesty's Stationery Office.
- 4. The number of households in the United Kingdom responding to the FES in 1988 was 7,265. The response rate in Great Britain was 71 per cent: the FES in Northern Ireland is done as a separate exercise to the rest of UK, with a larger sampling fraction, and only a proportion of these cases go into the UK analysis. To count as a co-operating household, all members aged 16 and over must fill in the diaries for both weeks and give full details of income etc. The available evidence suggest that older households, households

where the head is self-employed, those without children and higher income households, are less likely to co-operate than others (see 'Family Expenditure Survey: a second study of differential response, comparing Census characteristics of FES respondents and non-respondents' by Bob Redpath, Statistical News No 72 February 1986. (HMSO)). In addition response in Greater London is noticeably lower than in other areas. However, at present, the results in this article are based on the responses of those households which actually co-operated in the survey and they are not reweighted. This means that some of the figures differ from those produced by other surveys such as the Survey of Personal Incomes from the Inland Revenue.

Unit of analysis

- 5. The basic unit of analysis in the article is the household, and not the family, individual or tax unit. A household is defined in the FES as comprising people who live at the same address and who share common catering for at least one meal a day. Spending on many items, particularly on food, housing, fuel and light, is largely joint spending by the members of the household. Without further information or assumptions it is difficult to apportion indirect taxes between individuals or other sub-divisions of households.
- 6. In classifying the households into various types, a child (ie a dependant) is defined as:

either aged under 16

or aged 16,17 or 18 not married, and receiving full-time non-advanced further education.

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

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

- 7. A retired household is defined as one where the combined income of retired members amounts to at least half the total gross income of the household, where a retired person is defined as anyone who describes themselves as 'retired' or anyone over minimum NI pension age describing themselves as 'unoccupied' or 'sick or injured but not intending to seek work'.
- 8. By no means all retired people are in retired households: about one in five households comprising three or more adults contain retired people, for example, and households comprising one retired and one non-retired adult are often classified as non-retired.
- 9. The sample households have been classified according to their compositions at the time of the interview. This classification is sensible for the vast majority of households, but it can be misleading for the very small number of cases (26 in 1988) where a spouse is absent from the household at the time of interview. The absent spouse may well be working away from home (eg on an oil rig), or living separately but contributing financially to the household's upkeep. These contributions would be picked up as part of the household's original income. Also, it is likely that some households will have changed their composition during the year.
- 10. Economically active people comprise employees, the self-employed 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 on 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 benefits, sickness and industrial injury benefit, statutory sick pay, invalidity pension and allowance, industrial injury disablement benefits, widows' benefits, 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 and Statutory Maternity Pay are classified as cash benefits even though they are 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 pre-1987 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 from 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 in this way 'at source'. In 1988 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 licenses
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 car tax 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).
- Indirect taxes on intermediate goods and services are:

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 the redundancy payments scheme

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 (including concessionary
fares schemes)

- 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 benefits attributed to a household depends on the number of people in the household recorded in the FES as receiving each kind of state education (students away from the household are excluded). No benefit is allocated for pupils attending private schools.
- 28. The value of school meals and other welfare foods is based on their costs to the public authorities. Any payment by the individual household is subtracted to arrive at a net contribution.
- 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. No allowance is made for the use of private health care services.

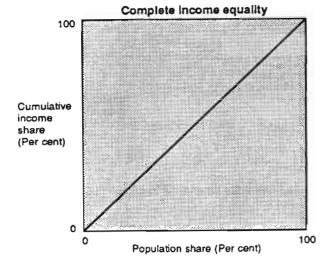
- 30. In this article public sector tenants are defined to include the tenants of local authorities, New Town Corporations, the Scottish Special Housing Association (SSHA), Northern Ireland Housing Executive (NIHE) and housing associations. The total housing subsidy includes the contribution from rate 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 this 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

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	f household member	Equivalence value
a. marr	ied head of household	
	(ie a married couple of	1.00
	2 adults)	1.00
	1st additional adult	0.42
	2nd (or more) additional	
	adult	0.36 (per adult)
h sino!	e head of household	
0. 311.6	(ie I adult)	0.61
	,	
	1st additional adult	0.46
	2nd additional adult	0.42
	3rd (or more) additional	
	adult	0.36 (per adult)
c. Chile	d aged:	
	16-18	0.36
	13-15	0.27
	11-12	0.25
	8-10	0.23
	5-7	0.21
	2-4	0.18
	Under 2	0.09

Diagram A



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

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

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

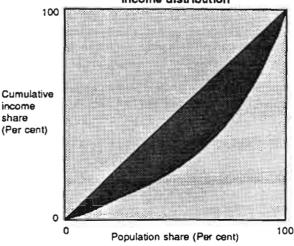
It is important to note that most monetary values shown in the article are ordinary (ie un-equivalised) £ a year, not equivalised £ a year. Where equivalised £ a year do appear (eg the quintile points in Table 3 of Appendix 1), they are shown in italics.

Gini coefficient

- 37. The Gini coefficient is the most widely used summary measure of the degree of inequality in an income distribution. It can more 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 are based on distributions of

Diagram B

Lorenz curve for a typical income distribution



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

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 in this article are based on actual household spending and do not, therefore, apply to such items as notional income.

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. It is difficult to calculate these standard errors exactly because of the multi-stage design of the FES, but we have made a good approximation by combining the simple random formula with the appropriate design factor from the FES analysis. [The design factor is the ratio of the standard error using the detailed formula that takes account of the full complexity of the sample design to the standard error using the simple random sample formula]. The most appropriate design factor from the FES work is for 'gross normal weekly household income'. The standard error of the mean for N households in Table 1 is given by:

where the design factor is 1.36 for 1988, and S² is the estimate of the population variance.

This simple formula is applicable to a complete group of households, but for quintile or decile groups a more complex formula is required (see paragraph 43).

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:

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

For example: the mean disposable income for all households is £11,313 (see Table 3 in Appendix 1), and its standard error is £188 (from Table 1). So the confidence interval for the population value

is £11,313 \pm £368 ie about (£10,950 to £11,700). It is very likely that the mean disposable income for the whole population (ie all UK private households) will lie in this range.

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. We have used a formula for the asymptotic variance of a 'randomly trimmed' mean. This formula gives a good approximation where the total sample size is around 1,000 (when the variance is under-estimated by about 2 per cent on average), and a reasonable approximation for samples of 100-500 (when the variance is under-estimated by about 5 per cent on average). The formula for the variance of a mean (x) calculated between two sample percentiles, Q1 and Q2, corresponding to proportions p, and p, is:

$$[n(p_2-p_1)]^{-1} *$$

$$\{S^2 + p_1(x-Q_1)^2 + (1-p_2)(Q_2-x)^2 + [p_1(1-p_2)/(p_2-p_1)](Q_2-Q_1)^2 \}$$

where $S^2\!\!=\!$ variance calculated from observations between \boldsymbol{Q}_1 and \boldsymbol{Q}_2 and

n = total sample size.

The square root of this quantity is then multiplied by the design factor (as described in paragraph 41) to give the standard errors shown in the tables for quintile and decile groups.

44. The 'complex' standard errors for quintile and decile groups are quite a bit larger than the simple random sample estimates, as shown below:

Ratio of 'complex' standard error to simple random sample estimate for equivalised disposable income, 1988

Decile g	roup	Quintile	group
Bottom	1.82	Bottom	1.95
2nd	4.83	2nd	4.41
3rd	6.32	3rd	4.91
4th	6.74	4th	4.43
5th	7.07	Top	1.45
6th	7.16	All	1.36
7ւհ	6.83		
8th	6.25		
9th	4.91		
Top	1.45		
All	1.36		

For the 'all households' group the ratio merely reflects the fact that the simple random sample figure is multiplied by the design factor (1.36 in 1988) to produce the 'complex' standard error. For the middle quintile group, the quoted standard error is about five times larger than it would have been if we had merely used the simple random sample estimate (as we did in last year's article). The quoted standard errors for the middle decile groups are about seven times higher than the simple random sample estimates.

- 45. Table 2 gives standard errors for quintile groups of households within household type. The standard errors of the top quintile group are often 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 groups of some household types are so large that it is doubtful whether the averages for these groups are reliable enough to be worth quoting in the tables in Appendix 1.
- 46. Another aspect of sampling errors and reliability is the variation from year to year. Table 3 gives the standard error of the mean (expressed as a percentage of the mean) for disposable income for the years from 1977 to 1988. 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 1.4 times the size of the standard error for a particular year (assuming the two standard errors are about the same) - because the

variance of a difference between years equals the sum of the variances for those individual years.

Previous articles

47. This article is the latest in an annual series. Earlier articles covering the years 1957 to 1986 (using the old methodology) were published in the following issues of Economic Trends:

November 1962, February 1964, August 1966, February 1968, 1969, 1970, 1971, 1972, November 1972 and 1973, December 1974, February 1976, December 1976, February 1978, January 1979, 1980, 1981 and 1982, December 1982, November 1983, December 1984, December 1985, July 1986, November 1986, July 1987 and December 1988.

- 48. The results for 1987 (the first year of using the new methodology) were published in the May 1990 edition of Economic Trends. This year's and last year's articles have such a marked change in methodology that the results are completely incompatible with those for earlier years.
- The results in all articles are intended to be free standing: 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 are relatively robust and will stand comparison with other years: this year's article gives such a comparison for the years 1977-1988. Enquiries should be addressed to Dave Westcott, Branch E2, Central Statistical Office, Room 1936, Millbank Tower, Millbank, London SW1P 4QQ.

Standard errors of the mean, 1988

TABLE 1 (Appendix 2)

					Standard e	rror of the mea	an of the five inc	ome measures (£	per year)	
				Number	0444		Disposab	le income	Post-tax	
				in sample	Original income	Gross income	Unadjusted	Equivalised	income	Fina income
lousehold ty	/pe/ Qu	antlie g	roup							
All household	s			7 265	241	231	188	162	175	180
Non-retired				5 381	298	288	238	209	225	230
Retired				1 884	165	166	126	124	107	113
Quintile grou	ps (\$									
Bottom				1 453	114	107	90	44	85	163
2nd		,.		1 453	550	469	315	71	251	42
3rd				1 453	658	570	432	100	363	534
4th				1 453	725	706	538	136	464	609
Тор				1 453	908	906	780	685	761	772
ecile group	8 (1)									
Bottom				7 27	130	132	110	56	116	236
2nd				726	439	377	310	42	247	501
3rd				727	1 022	896	490	56	372	683
4th				726	1 122	932	696	91	583	993
5th				72 7	1 200	1 000	780	99	656	1 068
6th				726	1 395	1 244	931	107	786	1 10
7th				727	1 502	1 453	1 087	126	949	1 303
8th				726	1 435	1 422	1 100	156	943	1 220
9th				727	1 418	1 417	1 066	218	947	1 128
Тор				726	1 676	1 674	1 460	1 291	1 436	1 450
lousehold ty	уре									
1 adult retire	ed			1 027	138	131	95	156	88	89
2 or more at	dults re	tired		857	309	298	222	196	192	197
1 adult non-	retired			811	345	311	241	395	216	215
2 adults non	-retired	d		1 520	664	649	582	581	570	569
3 or more ac	dults no	on-retired	t	642	902	859	581	383	536	560
1 adult with				282	499	431	329	342	303	356
2 adults and				568	1 150	1 131	893	687	868	871
2 adults and				870	589	569	474	325	449	444
2 adults with			dren	324	964	906	703	424	638	651
3 or more ac				364	937	878	653	329	598	610

Households ranked by equivalised disposable income.

Standard errors for disposable income for quintile groups(1) within household type, 1988

TABLE 2 (Appendix 2)

	Number	Standard error for mean unadjusted disposable income for quintile groups of households ranked by equivalised disposable income (£ per year)							
	in sampl e	Bottom	2nd	3rd	4th	Тор	Al groups		
Household type									
All households	7 265	90	315	432	538	780	188		
Non-retired	5 381	164	392	585	700	1016	238		
Retired	1 884	92	214	273	368	508	126		
1 adult retired		47	44	30	78	390	95		
2 or more adults retired	857	116	158	268	372	840	222		
1 adult non-retired	811	92	249	221	286	734	241		
2 adults non-retired	1 520	203	225	295	369	2 638	582		
3 or more adults non-retired	642	425	794	1 154	1 276	2 139	581		
1 adult with children		270	459	571	886	1.275	329		
2 adults with 1 child	568	300	396	515	651	4 080	893		
2 adults 2 children		292	330	458	600	1 876	474		
2 adults with 3 or more children	324	418	731	895	1 650	2 429	703		
3 or more adults with children	364	642	1 082	1 363	1 327	2 128	653		

¹ Ranked by equivalised disposable income.

Standard errors for unadjusted disposable income expressed as a percentage of the mean, 1977 to 1988

TABLE 3 (Appendix 2)

	Number in	in as a percentage of the mean (%)									
	sample (1988)	1977	1979	1981	1983	1985	1987	1988			
Household type											
All households	7 265	1.0	1.0	1.2	1.1	1.2	1.2	1.7			
Non-retired	5 381	1.0	1.0	1.2	1.1	1.2	1.2	1.8			
Retired	1 884	2.0	1.9	2.0	2.0	2.2	2.7	2.4			
1 adult retired	1 027	2.0	2.0	2.1	2.1	2.0	4.0	2.6			
or more adults retired	857	2.5	2.3	2.4	2.6	2.9	3.3	3.1			
adult non-retired	811	3.1	3.2	3.9	3.4	3.3	4.0	3.3			
2 adults non-retired	1 520	2.0	1.6	2.9	2.4	2.0	2.0	4.1			
3 or more adults non-retired	642	2.0	2.3	2.1	2.4	2.5	3.1	3.3			
f adult with children	282	5.3	5.9	13.0	4.9	4.6	4.4	5.7			
2 adults with 1 child	568	2.4	2.4	2.7	2.6	3.0	3.0	6.5			
2 adults 2 children	870	2.0	2.2	1.9	2.3	2.6	3.1	3.3			
2 adults with 3 or more children	324	3.2	3.1	3.9	3.7	5.7	5.0	4.8			
3 or more adults with children	364	2.2	2.3	2.8	2.5	3.1	3.2	3.6			

APPENDIX 3

Three tables for 1988, ranked using unadjusted disposable income

		(CON	ITE	NT	S				1	Γable
Average income, taxes and benefits, r	anked	hv una	linetad	dienos	able inc	come 1	088			•	2010
Average income, taxes and cenerits, i	alikou	Uy una	ajusacu	uispos	adic nic	oniic, i	700				
By quintile groups of households						••			 		1
By decile groups of households					••			••	 ••	**	2
Cross tabulation of households rai	nked h	dieno	sable in	come							
unadjusted and equivalised, 1988	-			come,							3
unados and odar anos, 1900			••	••	••	••		••	 ••	••	,

By quintile groups of households (ranked by UNADJUSTED disposable income)

TABLE 1 (Appendix 3)

		Quintile gro	ups of household	ds ranked by UNA	DJUSTED dispos	able income	Ai
		Bottom	2nd	3rd	4th	Тор	house holds
verage per household (£ per year)							
Duintile points			4 144	7 339	11 162	16 296	
lumber of households in the sample	**	1 453	1 453	1 453	1 453	1 453	7 26
original income		289	2 451	7 278	11 135	20 404	5.04
Earnings of main earner Other earnings		18	115	1 130	3 293	7 965	8 31 1 2 504
Occupational pensions, annuities	••	256 184	750 391	818 504	726 678	1 034	717
Investment income Other income	**	46	101	151	141	1 691 269	690 142
Total		793	3 808	9 881	15 973	31 363	12 364
irect benefits in cash							
Contributory Retirement pension		1 552	1 340	613	312	252	814
Unemployment benefit		34	68	65	50	33	50
Invalidity pension and allowance Statutory sick pay	**	65 1	187 13	133 32	82 43	252 33 33 42	100 26
Industrial injury disablement benefit		4	15	14	9	12	11
Sickness, industrial injury benefit Widows' benefits		5 34	14 61	5 46	8 38	9 19	40
Statutory Maternity allowance/pay		2	6	11	14	11	40
Miscellaneous contributory benefits		10	8	4	2	2	
Non-contributory income support/ Supplementary benef	it	369	440	159	98	59	225
Child benefit		63	190	294	323	296	233
Housing benefit in invalid care allowance		538 3	332 3	91 11	3 2 7	9 3	200
Attendance allowance		5	47	38	23	19	26
Mobility allowance War pensions		14 7	45 11	27 10	23 6	17 9	25
Severe disablement allowance		22	72	45	29	32	5 26 25 9 40 29 26
Student maintenance awards	**	20 6	27	32 29	19 37	45	29
Government training schemes Family credit/ income supplement		7	18 35	20	5	39 2	14
Other non-contributory benefits		19	40	16	15	2	18
otal cash benefits		2 778	2 973	1 695	1 175	944	1 913
aross income		3 571	6 781	11 576	17 149	32 307	14 277
Pirect taxes and Employees' NIC							
Income tax		154 15	536 60	1 433 197	2 508 348	5 526 514	2 032 227
Employees' NI contributions		17	167	563	936	1 370	610
Domestic rates (gross)		448 604	483 1 126	516 2 315	568 3 664	725 7 108	548 2 963
Disposable income	.,	2 967	5 654	9 261	13 485	25 199	11 313
ndirect taxes							
Taxes on final goods and services		0.47	407	200			
VAT Duty on tobacco		247 100	487 199	808 237	1 157 262	1 774 246	895 209
Duty on beer and cider		21	54	93	125	153	89
Duty on wines Duty on spirits	••	6 22	12 47	21 55	35 82	81 117	31 65
Duty on spirits		22 34	95	173	248	322	174
Car tax	••	3 19	15 53	33 85	.56	72	36
Vehicle excise duty Television licences		40	48	53	114 56	144 57	83 50
Stamp duty on house purchase		.5	.9	21	34	52	24
Customs' duties Betting taxes		13 14	23 29	38 49	50 47	69 53	39
Other		8	11	14	18	23 _.	24 39 38 15
Intermediate taxes							
Commercial and industrial rates	••	67 76	110 125	161 186	214 249	327 382	176
Employers' NI contributions Duty on hydrocarbon oils	••	33	54	78	103	153	204 84
Vehicle excise duty	••	.8	13 53	19 78	26	39	21
Other	-	32			101	152	83
otal indirect taxes		747	1 437 4 217	2 203 7 059	2 976	4 217	2 316
Post-tax income		2 220	4 217	7 039	10 510	20 982	8 997
Benefits in kind Education		202	572	908	1 060	1 033	755
National health service		978	1 020	912	885	905	940
Housing subsidy		104 6	95 11	51 24	29 31	15 53	59 25
Rail travel subsidy Bus travel subsidy		32	34	20	19	53 19	25 25
School meals and welfare milk		17	44	25	22	18	25
7.040		1 339	1 775	1 940	2 046	2 043	1 829
Total						· · _	

 $^{{\}mathfrak t}$ On mortgage interest and life assurance premiums.

By decile groups of households (ranked by UNADJUSTED disposable income)

TABLE 2 (Appendix 3)

	Decile gr	oups of hou	seholds r	anked by U	NADJUSTI	ED dispos	able incom	θ			All house-
	Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	holds
Average per household (£ per year)				_							
Decile points	3	050 4	144	5 604 7	339 9	343	11 162	13 340	16 296 2	089	
Number of households in the sample	727	726	727	726	727	726	727	726	727	726	7 265
Original income											
Earnings of main earner Other earnings	228 18	350 18	1 236 45	3 868 185	6 150 689	8 407 1 573	10 254 2 602	12 016 3 986	14 833 6 368	25 982 9 565	8 311 2 504
Occupational pensions, annuities	141 175	370 193	615 351	885 431	894 492	742 516	750 566	702 791	704 763	1 365 2 620	717 690
Other income	34	58 990	87 2 334	115	156	146	106	177	193 22 862	345	142
Total	596	990	2 334	5 284	8 380	11 384	14 277	17 672	22 602	39 877	12 364
Direct benefits in cash Contributory	=										
Retirement pension Unemployment benefit	1 447 33	1 657 36	1 607 66	1 073 69	730 63	496 67	316 41	307 60	229 42	276 25	814 50
Invalidity pension and allowance	43 1	86 1	137 5	237 20	173 28	94 35	110 45	54 41	50 43	17 41	100
Statutory sick pay Industrial injury disablement benefit	1	6	12	18	21	7	11	8	14	11	11
Sickness, industrial injury benefit Widows' benefits	5 42	6 27	18 55	9 67	3 49	8 44	10 44	5 32	4 21	13 18	40 40
Statutory Maternity allowance/pay Miscellaneous contributory benefits	3 8	1 11	2 9	10 7	11 5	11 3	13 2	14 2	16 2	5 2	5
Non-contributory									_	-	
Income support/ Supplementary benefit	272 31	466 95	531 173	350 207	195 257	123 331	129	67 322	64 286	54	225
Child benefit Housing benefit	435	640	438	226	123	59	324 37	26	∠86 13	305 5	233 200
Invalid care allowance	3	2 8	2 36	4 59	16 52	6 23	4 21	11 25	2 23	4 15	26
Mobility allowance	2 7	21	35	55	32	22	29	18	24	10	25
War pensions	9 13	5 30	11 52	12 91	16 57	3 32	23	8 35	7 36	10 28	9 40
Student maintenance awards	30	10	27	28	20	45	20	17	43	47	29 26
Government training schemes Family credit/ income supplement	6 2	5 12	18 19	18 52	32 31	2 6 9	35 7	40 3	51 0	28 3	26 14
Other non-contributory benefits	18	19	57	24	22	10	18	12	Ö	3	18
otal cash benefits	2 411	3 144	3 309	2 636	1 936	1 453	1 244	1 106	970	917	1 913
Gross income	3 007	4 134	5 642	7 920	10 317	12 837	15 521	18 778	23 831	40 794	14 277
Direct taxes and Employees' NIC	188	120	281	792	1 197	1 670	2 176	2 84 1	3 882	7 173	2 032
less: Tax relief at source (1)	15	15	41	80	159	236	302	395	446	581	227
Employees' N I contributions Domestic rates (gross)	13 440	21 456	82 471	253 495	456 503	669 528	851 543	1 020 593	1 306 631	1 433 819	610 548
Total	626	581	793	1 460	1 997	2 632	3 267	4 060	5 373	8 845	2 963
Disposable income	2 381	3 552	4 850	6 460	8 319	10 205	12 254	14 718	18 458	31 950	11 313
ndirect taxes											
Taxes on final goods and services VAT	227	268	381	593	742	875	1 063	1 251	1 497	2 052	895
Duty on tobacco Duty on beer and cider	83 19	118 23	183 42	215 67	224 79	250 106	258 121	266 129	268 161	224 146	209
Duty on beer and cider Duty on wines	5	6	9	15	19	22	29	40	52	110	89 31
Dutý on spirits	20 26	24 41	34 74	59 117	49 162	62 184	79 235	84 260	111 303	124 342	65 174
Cartax	5	2	7	24	34	31	52	61	72	72	36
Vehicle excise duty	16 39	23 41	45 48	62 48	79 52	91 54	109 56	119 55	141 56	146 57	83 50
Stamp duty on house purchase	5	4	6	12	17	24	28	40	46	58	24
Customs' duties Betting taxes	12 12	14 15	19 27	28 32	35 40	41 59	47 50	52 44	62 61	76 45	39 38
Other	7	8	11	11	13	15	18	19	19	28	15
Intermediate taxes	62	72	93	126	148	174	199	229	000	•	
Commercial and industrial rates Employers' NI contributions	70	81	106	145	170	203	231	266	266 309	387 455	176 204
Duty on hydrocarbon oils	31 7	36 8	47	61 15	70	86 22	97	108	125	182	84
Vehicle excise duty Other	30	34	11 45	61	17 72	83	24 95	27 108	31 125	46 179	21 83
Total indirect taxes	676	819	1 186	1 689	2 023	2 383	2 792	3 159	3 705	4 730	2316
Post-tax income	1 706	2 733	3 664	4 771	6 297	7 822	9 462	11 559	14 753	27 220	8 997
Benefits in kind	, = .	6									
Education	184 906	221 1 049	525 1 094	618 946	780 914	1 037 911	1 001 884	1 118 887	1 043 871	1 023 939	755 940
Housing subsidy	88	120	111	79	57	45	27	31	16	14	59
	7	5	8 41	13 27	17 21	32 20	27 20	35 18	39 17	68 22	25
Rail travel subsidy	28							10			
Rail travel subsidy Bus travel subsidy School meals and welfare milk	28 7	36 27	50	37	22	27	26	18	19	16	25 25
Bus travel subsidy		27 1 459									25 1 829

¹ On mortgage interest and life assurance premiums.

Cross-tabulation of households ranked by disposable Income, unadjusted and equivalised, 1988

TABLE 3 (Appendix 3)

(i) Quintile (roups				Qui	ntile group	ps of equiv	/alised	disposable	in∞me				, Al
					Bot	tom	2nd		3rd		4th	Top	p	house holds
Number of h	ousehok	ds							_					
Quintile grou			d											
Bottom						915	538		-		-		_	1 453
2nd						479	519		287		168		_	1 453
3rd	••					53	326		658		269	147	7	1 453
4th						6	68		452		620	307	7	1 453
Тор						-	2		56		396	999	9	1 453
All househ	olds				1	453	1 453		1 453	1	453	1 453	3	7 265
(ii) Decile q	roups													
(ii) Decile g	roups			Decile gro	oups of eq	uivalised	l disposabl	e incom	e					
(ii) Decile g	roup s			Decile gro	oups of eq	q uivalised 3rd	I disposabl	e incom	e 6th	7th		9th	Тор	house
(ii) Decile g	·	ds			•	•				7th	8th	9th	Тор	house
Number of h	ousehol	adjusted	I		•	•				7th	8th	9th	Тор	house-
Number of h	ousehol	adjusted	ı 		•	•				7th	8th	9th	Тор	house holds
Number of h Decile group	ouseholos of una	adjusted		Bottom	2nd	3rd		5th	6th	7th		9th -		house holds
Number of h Decile group disposable Bottom	ouseholos of una	adjusted		Bottom 368	2nd 265	3rd 93	4th	5th	6th	-	-	9th		house holds 726 727
Number of h Decile group disposable Bottom 2nd 3rd	ouseholos of una income	adjusted 		368 202 107	265 80 252	93 275	4th	5th	6th -		- -	-	-	726 727 727
Number of h Decile group disposable Bottom 2nd	ouseholes of una income	adjusted 		Bottom 368 202	2nd 265 80	93 275 167	4th 170 15	5th	6th	-	- - -	-	-	726 727 727
Number of h Decile group disposable Bottom 2nd 3rd 4th 5th	ouseholes of una income	adjusted		368 202 107 38 8	2nd 265 80 252 82	93 275 167 91	4th 170 15 246	5th	6th - 79 32	- - - 128 5	- - 40 88	- - - - 51	:	726 727 727 727
Number of h Decile group disposable Bottom 2nd 3rd 4th 5th	ousehol	adjusted 		368 202 107 38	265 80 252 82 33	93 275 167 91 71	170 15 246 121	5th 107 69 202	6th - 79 32 148		40	:	14	726 727 727 727 727
Number of h Decile group disposable Bottom 2nd 3rd 4th 5th	ousehol	adjusted		368 202 107 38 8	265 80 252 82 33	93 275 167 91 71	170 15 246 121	5th 107 69 202 163	6th 79 32 148 145	128 5	- - 40 88	51 82	:	726 727 727 726 727 726 727
Number of h Decile group disposable Bottom 2nd 3rd 4th 5th 6th 7th 8th	ousehol	adjusted		368 202 107 38 8	265 80 252 82 33 9 5	93 275 167 91 71 24	4th 170 15 246 121 110 46	5th 107 69 202 163 127	6th 79 32 148 145 152	128 5 175 113	- - 40 88 1 215	51 82 1 203	- - - 14 63 40	726 727 727 727 726 727 726 727
Number of h Decile group disposable Bottom 2nd 3rd 4th 5th 6th 7th	ousehol	adjusted		368 202 107 38 8	265 80 252 82 33	93 275 167 91 71 24 4	4th 170 15 246 121 110 46 16	5th 107 69 202 163 127 47	6th 79 32 148 145 152 126	128 5 175 113 170	40 88 1 215 122	- - - 51 82 1	14	726 727 727 727 726 727 726 727 726 727

APPENDIX 4

Summary of the effects of taxes and benefits, 1977-1988

CONTENTS													
Summary of the effects of taxes and benefits, 1977-1988									1				
Standard errors for the 5 income definitions used in Table 1, 1977-	1988		••						2				
Number of households in the FES sample each year, 1977-1988									3				
Distribution of households in the FES sample each year, 1977-1988	3				••				4				

Summary of the effects of taxes and benefits, 1977-1988

TABLE 1 (Appendix 4)

	Quintile	groups of househo	lds ranked by equi	valised disposable	income	Al
	Bottom	2nd	3rd	4th	Тор	house- holds
Average per household (£ per year)						
1977						
Original income	762 1 033 1 795 316 1 479	2 186 801 2 987 596 2 390	3 966 527 4 493 1 008 3 486	5 344 347 5 690 1 386 4 305	7 955 223 8 178 1 994 6 184	4 043 586 4 629 1 060 3 569
Equivalised disposable income	1 457	2 052	2 664	3 458	5 451	3 016
less indirect taxes	344 1 135 764 1 899	499 1 892 801 2 692	748 2 737 827 3 564	864 3 441 671 4 112	1 057 5 127 500 5 627	702 2 866 713 3 579
1979						
Original income plus cash benefits	674 1 454 2 128 257 1 871	2 683 1 121 3 804 622 3 182	5 112 736 5 848 1 178 4 669	7 229 472 7 701 1 688 6 013	10 292 327 10 519 2 408 8 211	5 198 822 6 020 1 231 4 789
Equivalised disposable income	1 934	2 749	3 656	4 783	7 354	4 095
less indirect taxes Post-tax income plus benefits in kind Final income	397 1 474 947 2 422	673 2 509 1 067 3 576	1 033 3 636 1 041 4 677	1 292 4 722 850 5 572	1 560 6 651 574 7 225	991 3 798 896 4 694
1981						
Original income pius cash benefits Gross income less direct taxes ⁽¹⁾ & employees' NIC Disposable income	1 141 2 013 3 154 427 2 728	3 354 1 651 5 005 858 4 147	6 613 1 045 7 658 1 638 6 020	9 587 744 10 332 2 410 7 922	14 868 442 15 310 3 705 11 605	7 113 1 179 8 292 1 807 6 485
Equivalised disposable income	2 586	3 621	4 764	6 287	10 424	5 53 7
less indirect taxes Post-tax income plus benefits in kind Final income	699 2 029 1 502 3 531	956 3 191 1 464 4 654	1 396 4 624 1 398 6 023	1 778 6 144 1 199 7 343	2 226 9 378 830 10 209	1 411 5 074 1 279 6 352
1983		1000				
Original income	1 267 2 467 3 734 498 3 236	3 191 2 181 5 372 867 4 505	7 136 1 433 8 569 1 850 6 719	10 226 1 042 11 267 2 654 8 613	16 870 618 17 488 4 411 13 077	7 738 1 548 9 286 2 056 7 230
Equivalised disposable income	2 990	4 162	5411	7 122	11 857	6 309
less indirect taxes Post-tax income plus benefits in kind Final income	875 2 361 1 648 4 009	1 054 3 450 1 541 4 991	1 591 5 127 1 543 6 671	1 988 6 625 1 250 7 875	2 518 10 559 1 090 11 649	1 605 5 625 1 415 7 039
1985						
Original income	1 156 2 925 4 081 522 3 559	3 323 2 514 5 837 920 4 917	8 317 1 638 9 955 2 015 7 940	12 382 1 038 13 420 3 098 10 323	20 050 675 20 726 5 117 15 609	9 045 1 758 10 803 2 334 8 469
Equivalised disposable income	3 413	4 726	6 337	8 573	14 126	7 435
less indirect taxes	945 2 615 1 685 4 300	1 123 3 794 1 585 5 379	1 853 6 087 1 673 7 760	2 297 8 025 1 321 9 346	2 819 12 790 1 016 13 805	1 807 6 662 1 456 8 118

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

Summary of the effects of taxes and benefits, 1977-1988

TABLE 1 (Appendix 4) (continued)

	Quintile grou	ips of households	ranked by equivali	sed disposable inc	ema	, A
	Bottom	2nd	3rd	4th	Тор	hause holds
Average per household (£ per year)						
1987						
Original income plus cash benefits Gross income less direct taxes" & employees" NIC Disposable income	1 223 3 173 4 396 582 3 815	3 851 2 776 6 627 1 061 5 566	9 473 1 870 11 343 2 241 9 102	14 506 1 072 15 578 3 431 12 146	25 469 668 26 136 6 396 19 740	10 904 1 912 12 816 2 742 10 074
Equivalised disposable income	3 725	5 372	7 446	10 228	18 539	9 062
less indirect taxes Post-tax income plus benefits in kind Final income	1 038 2 776 2 045 4 821	1 303 4 263 1 815 6 078	2 122 6 980 1 890 8 871	2 592 9 555 1 520 11 075	3 183 16 557 1 101 17 658	2 048 8 026 1 674 9 700
1988		12				
Original income plus cash benefits Gross income less direct taxes ¹⁰ & employees' NIC Disposable income	1 211 3 215 4 426 667 3 759	4 440 2 798 7 239 1 220 6 019	10 746 1 756 12 501 2 448 10 053	16 255 1 080 17 336 3 792 13 544	29 156 715 29 881 6 689 23 192	12 364 1 913 14 277 2 963 11 313
Equivalised disposable income	3 836	5 741	8 228	11 423	21 323	10 110
less indirect taxes Post-tax income plus benefits in kind Finat income	2 124	1 475 4 544 2 024 6 568	2 408 7 645 2 056 9 701	2 902 10 642 1 722 12 363	3 714 19 478 1 219 20 697	2 316 8 997 1 829 10 826

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

Standard errors for the five Income measures given in Table 1, 1977-1988

TABLE 2 (Appendix 4)

				Quintile group	s of households ra	nked by equivalise	ed disposable inco	me	All
				Bottom	2nd	3rd	4th	Тор	house- holds
(£ per year)						-			
1977									
Original income				58	197	221	216	157	53 48
Gross income Disposable income				48 32	157 114	195 147	207 155	157 121	48 36
Equivalised disposable i				15	18	24	30	94	27
•		••		28	92	124	133		
Post-tax income Final income				56 56	152	188	182	110 120	31 35
1979									
Original income				66	276	305	325	206	73
Gross income Disposable income				60 48	228 177	284 221	320 247	207 158	67 50
Equivalised disposable i		.,		20	33	38	49	102	36
				41	143	185	213	143	
Post-tax income Final income				79	247	269	273	155	43 47
1981									
Original income				88	331	391	433	335	108
Gross income Disposable income				78 63	272 207	347 259	413 305	334 284	100 78
Equivalised disposable	ncome			26	34	48	64	251	64
Post-tax income				54	159	215	253	270	69
Final income				107	268	320	335	281	73
1983									
Original income				100 93	394 323	471 402	503 466	358 355	119
Gross income Disposable income				80	244	296	343	269	108 79
Equivalised disposable	псоте			35	3 5	57	71	216	63
Post-tax income				69	193	242	282	248	68
Final income				126	348	376	367	268	75
1985									
Original income Gross income				103 96	432 347	578 506	602 580	463 460	147 134
Disposable income	••			79	259	383	432	345	99
Equivalised disposable	ncome			<i>36</i>	45	73	94	237	74
Post-tax income				90	204 340	316 458	370	318	86
Final income		**		140	340	456	469	340	92
1987									
Original income				107 100	459 370	608 526	635 609	595 596	179 167
Disposable income				88	285	401	456	445	124
Equivalised disposable	income		••	37	58	82	119	382	105
Post-tax income Final income		 		77 161	226 382	338 485	403 505	423 438	111 116
1988									
Original income			**	114	550	658	725	908	241
Gross income	••			107 .90	469 315	570 432	725 706 538	906 780	231
Disposable income	···				71	100			188
Equivalised disposable	ncome		•-	44			136	685	162
Post-tax income Final income				85 163	251 421	363 534	464 609	761 772	175 180

Number of households in the FES sample for each year, 1977-1988

TABLE 3 (Appendix 4)

	1977	1979	1981	1983	1985	1987	1988
i) Numbers in sample							
Household type							
Non-retired	5 623	5 196	5 764	5 264	5 220	5 459	5 381
Retired	1 575	1 581	1 761	1 709	1 792	1 937	1 884
1 adult retired	860	878	951	908	966	1 059	1 027
2 or more adults retired	715	703	810	801	826	878	857
1 adult non-retired	564	618	607	671	694	799	811
2 adults non-retired	1 615	1 424	1 584	1 380	1 444	1 490	1 520
3 or more adults non-retired	640	538	710	616	635	682	642
1 adult with children	190	196	228	250	230	284	282
2 adults with 1 child	680	623	649	622	604	592	568
2 adults 2 children	926	892	986	887	864	874	870
2 adults with 3 or more children	466	396	426	388	336	340	324
3 or more adults with children	542	509	574	450	413	398	364
All households	7 198	6 777	7 525	6 973	7 012	7 396	7 265
ii) Percentages							
Household type							
Non-retired	78	77	77	75	74	74	74
Retired	22	23	23	25	26	26	26
1 adult retired	12	13	13	13	14	14	14
2 or more adults retired	10	10	11	11	12	12	12
adult non-retired	8	9	8	10	10	11	11
2 adults non-retired	22	21	21	20	21	20	21
3 or more adults non-retired	9	8	9	9	9	9	9
1 adult with children	3	3	3	4	3	4	4
2 adults with 1 child	9	9	9	9	9	8	8
2 adults 2 children	13	13	13	13	12	12	12
2 adults with 3 or more children	6	6	6	6	5	5	4
3 or more adults with children	8	8	8	6	6	5	5
3 OF MOTE ACOUS WILL CHICKET							

Distribution of households(1) in the FES sample each year, 1977-1988

By decile groups of households ranked by equivalised disposable income

TABLE 4 (Appendix 4)

1 adult adult adult 2 adults adults children 1 child children					Retired h	ouseholds	Non-Rei	ired househ	olds						
Decision of the proper of households reviewed by equivalised disposable income 211 167 38 53 13 61 40 53 57 27 27 38 38 38 38 38 38 38 3					1 adult	more	1 adult	2 adults	more	with	with	with 2	with 3 or more	adults with	All house- holds
by equivalised disposable income Borrom Borr	1977														
2nd 236 189 40 43 10 33 31 55 64 19 3 44 19 30 41 10 33 31 55 64 19 49 49 49 49 49 49 49 49 49 49 49 49 49	by equivalise	d dispos	able income	4	244	467		50		54					
3rd								23 43		33		53 55		27	720 720
4th										22		85	59		719
5th 31 48 50 146 55 12 84 144 68 82 7th 16 31 62 186 89 7 99 112 36 82 9th 18 19 18 71 224 166 9 93 101 22 56 9th 100 22 56 9th 100 36 82 20 39 101 22 56 9th 100 18 19 18 19 18 19 36 82 20 39 101 22 56 9th 48 51 22 30 20 20 30 7 48 19 22 7 110 20 20 20 48 18 25 20 11 6 20 10 11 6 30 10 48 34 44 11 80						79	44		42	23			70		720
8th	5th				31	48	50	146	55	12	84	144		82	720
8th											90				720
No											99		36		720
No											83		20		719
All households								323		5			26	28	720 720
Decile groups of households ranked by equivalised disposable income 227 190 59 32 9 48 18 24 60 11 62 60 61 62 62 62 63 64 75 64 64 65 74 75 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 64 65 77 65 65 77 78 78 78 78 78 78 7	•									_					
Decile groups of nouseholds ranked by equivalised disposable income 227 190 59 32 9 48 18 24 60 11 62 63 64 65 7 64 65 7 65 7 65 7 65 7 7 7 7 7 7 7 7 7			••	- "	960	715	304	1015	640	190	680	926	406	542	7 198
by equivalised disposable income Battom Battom Battom Battom Battom Battom Battom Battom Correct Battom Correct Battom Correct Battom Correct Battom Correct C				-											
2nd	by equivalise								_						
3rd		••			227	190			9			24			678
### Ann								30							677
5th 28 45 46 119 34 19 95 161 54 77 6 6th 10 17 71 161 73 16 109 117 31 73 6 6 11 28 89 204 107 10 70 96 23 68 6 6 70 96 23 68 6 6 70 10 70 96 23 68 6 70 90 92 8 51 47 11 25 6 70 92 8 51 47 11 25 6 70 92 8 51 47 11 25 6 6 23 892 396 509 6 7 8 4 4 4 4 4 4 4 4 4 4 4 4 4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>678 678</td></t<>															678 678
7th					28	45									678
8th						34									677
9th															678
Top															678
1981														25	677 678
Decile groups of households ranked by equivalised disposable income Bottom 177 162 50 54 12 58 29 71 91 49 7 7 1 92 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	All househo	olds	••		878	703	618	1 424	538	196	623	892	396	509	6 777
by equivalised disposable income Bottom	1981														
27d	by equivalise	of house d dispos	holds ranked able income	d S		400	50		40	50					
4th											29				753
4th					252				23		33		50		752 753
6th									54		67		67		752
7th	5th				51	69	49	146	48	13	103			83	752 753
8th					29						92				752
9th		**		••	28	38									753
Top					15										751
Decile groups of households ranked by equivalised disposable income Bottom														21	754 752
Decile groups of households ranked by equivalised disposable income Bottom	All househo	olds			951	810	607	1 584	710	228	649	986	426	574	7 525
by equivalised disposable income Bottom 152 117 81 63 23 52 30 58 82 39 6 2nd 165 190 46 47 17 59 36 56 51 31 6 3rd 224 132 31 58 19 42 39 74 48 30 6 4th 159 92 49 80 39 30 46 101 51 50 6 5th 62 72 38 117 67 17 84 137 34 70 6 6th 47 50 60 133 69 16 83 134 38 67 6 7th 47 50 60 133 69 16 83 134 38 67 6 8th 47 50 60 13 69 16 83 134 38 67 6 8th 22 40 78 194 106 11 90 82 22 52 56 9th 22 29 123 294 65 7 59 64 15 19 64	1983														
Bottom 152 117 81 63 23 52 30 58 82 39 8 2nd 165 190 46 47 17 59 36 56 51 31 6 3rd 224 132 31 58 19 42 39 74 48 30 6 4th 159 92 49 80 39 30 46 101 51 50 6 5th 62 72 38 117 67 17 84 137 34 70 6 6th 47 50 60 133 69 16 83 134 38 67 6 7th 40 52 71 155 95 7 72 109 28 68 67 7th 40 52 71 155 95 7 72 109 28 68 67 8th 22 40 78 194 106 11 90 82 22 52 52 6 9th 22 29 123 294 65 7 59 64 15 19 66	Decile groups of	of house	holds ranked able income	_ d											
3rd 224 132 31 58 19 42 39 74 48 30 64 4th 159 92 49 80 39 30 46 101 51 50 6 5th 62 72 38 117 67 17 84 137 34 70 6 6th 47 50 60 133 69 16 83 134 38 67 6 7th 40 52 71 155 95 7 72 109 28 68 6 8th 22 40 78 194 106 11 90 82 22 52 5 9th 22 29 123 294 116 9 83 72 19 24 6 Top </td <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>52</td> <td></td> <td>58</td> <td>82</td> <td>39</td> <td>697</td>	Bottom									52		58	82	39	697
4th 159 92 49 80 39 30 46 101 51 50 6 5th 62 72 38 117 67 17 84 137 34 70 6 6th 47 50 60 60 16 83 134 38 67 6 7th 40 52 71 155 95 7 72 109 28 68 6 8th 22 40 78 194 106 11 90 82 22 22 52 6 9th 15 27 94 239 116 9 83 72 19 24 6 Top 22 29 123 294 65 7 59 64 15 19 6											36		51	31	698
6th 47 50 60 133 69 16 83 134 38 67 6 7th 40 52 71 155 95 7 72 109 28 68 6 8th 22 40 78 194 106 11 90 82 22 52 6 9th 15 27 94 239 116 9 83 72 19 24 6 Top 22 29 123 29 65 7 59 64 15 19 6					224	132	31		19						697
6th 47 50 60 133 69 16 83 134 38 67 6 7th 40 52 71 155 95 7 72 109 28 68 6 8th 22 40 78 194 106 11 90 82 22 52 6 9th 15 27 94 239 116 9 83 72 19 24 6 Top 22 29 123 29 165 7 59 64 15 19 6	4th 5th				62	72	38		67	17	84	137	34	50 70	697 698
8th 22 40 78 194 106 11 90 82 22 52 6 9th 15 27 94 239 116 9 83 72 19 24 6 Top 22 29 123 294 65 7 59 64 15 19 6					47	50		133	69	16	83	134	38	67	
					40	52	71	155	95		72	109	28	68	697 697
			**		22	40	78	194	106		90	82	22	52	697
	9th				15	27	122	239	116	9	83	72	19	24	698
All households 908 801 671 1 380 616 250 622 887 388 450 6 9	•														697
	All househo	olds			908	801	671	1 380	616	250	622	887	388	450	6 973

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

Distribution of households(1) in the FES sample each year, 1977-1988

By decile groups of households ranked by equivalised disposable income

				Retired h	ouseholds	Non-Ret	ired househ	oids						
				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	A house hoids
1985				_			<u> </u>				_			
Decile groups by equivalise	of househ	olds ranki able incom	ed ne						_					
Bottom			**	152	134	66	74	16	42 59	37	71	76	33 25	701
2nd	••	**		166	211	60	51	17	59	39	45	28	25	70
3rd		**		278	120	37	57	25	38	37	62	30	18	702
4th	••		**	163	102	39	78	45	30	57	103	44	40	70
5th	••			.66	61	62	110	72	17	74	119	48	72	70
6th				40	66	56	114	79	13	80	138	43	72	70
7th				30	36	74	185	104	18	80	92	26	56	70
8th	••			25	37	88	203	102	4	85	97	17	44	70
9th				28	34	94	253	101	5	62	80	13	31	70
Тор				18	25	118	319	74	4	53	57	11	22	70
All househ	olds			966	826	694	1 444	635	230	604	864	336	413	7 012
1987														
Decile groups by equivalise	of househ	nolds ranki able incom	ed 1e											
Bottom				195	122	59	69	25	58	43	70	60	39	740
2nd				211	188	51	50	23	79	26 29	44	39	28	739
3rd				286	118	64	55	19	50	29	49	36	34	740
4th				144	139	50	85	56	36	46	98	47	38	739
5th		••	••	71	93	69	122	63	25	69	126	47	38 55	740
6th				38	62	63	140	105	11	82	128	43	68	740
7th		.,		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
Τορ			••	31	28	157	317	67	2	61	56	9	12	740
All househ	olds			1 059	878	799	1 490	682	284	592	874	340	398	7 396
1988			_											
Decile groups	of househ	olds rank	ed											
by equivalise Bottom	-			204	135	80	62	17	69	38	59	40	2.	
		**		192	206	71	45	14	79	28	36	42 34	21	727
2nd		••	**	305	119	48	57	30				34	21	726
3rd					107	48 51		53 53	39 27	26 53	58 96	26 53	19	727
4th		••		127		51 50	114	53 79				53	45	726
5th	**	••	**	53	95	50	122	79	21	68	151	42	46	727
6th				51 34	70 39	57 93	143	99 88	17	64 95	127	41	57	726
7 1/ 1							162		16		113	26	61	727
8th				23	32	105	223	103	8	72	95	25	40	726
9th				17	31	116	270	100	4	71	69	15	34	727
Тор				21	23	140	322	59	2	53	66	20	20	726
All househ	olds			1 027	857	811	1 520	642	282	568	870	324	364	7 265

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