

Coverage: United Kingdom Theme: The Economy Released: 22 May 2015 Next Release: Jan/Feb 2016 Frequency of release:

Twice yearly (Jan/Feb and Apr/May)

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# UK Income Tax Liabilities Statistics

2012-13 Survey of Personal Incomes, with projections to 2015-16

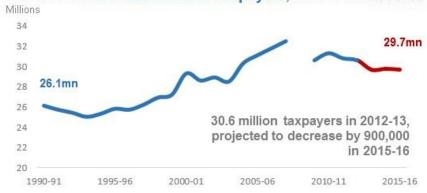
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### **Key Statistics**

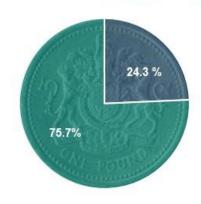
### Number of Individual Income Taxpayers, 1990-91 to 2015-16



2012-13 total income by Bottom and Top 50%\*\*

In 2012-13, the share of total income of the top 50% of taxpayers was 75.7% (£685 billion), a 51.4 percentage point income inequality between the bottom and top 50%.\*\*

Top 50% of taxpayers were liable for 89.4% of total tax (£157 billion) in 2012-13, showing the progressivity of the income tax system.\*\*



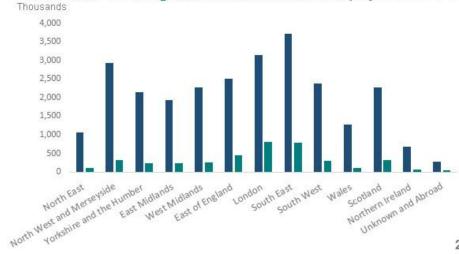
Projected 2015-16 taxpayer type compared to 2012-13:

24.7m basic\* rate (83.2%), 1.9m fewer 4.6m higher rate (15.6%), 0.9m more 332,000 additional rate (1.1%), 59,000 more

In 2012-13, The South East had the highest number of taxpayers (14.7%), followed by London (12.9%)

Northern Ireland had the lowest number of taxpayers (2.4%), followed by the North East (3.8%)





The Top 1% (broadly all additional rate taxpayers) held 11.2% of total income in 2012-13 and were liable for 25.1% of total income tax.\*\*

Projections for 2015-16 show the top 1% income share to increase to 12.5%, and liable for 27.5% of total income tax\*\*\*

Projected 2015-16 average tax rates compared to 2012-13:

10% for basic rate taxpayers, 1.3pp lower 21.8% for higher rate taxpayers, 1.0pp lower 37.9% for additional rate taxpayers, 1.9pp lower

### Background notes

Income Tax Liabilities Statistics (ITLS) is a National Statistics publication by HM Revenue and Customs (HMRC). For more information about National Statistics, please see the United Kingdom Statistics Authority (UKSA) website: http://www.statisticsauthority.gov.uk/

UKSA has confirmed that the ITLS and projections are designated as National Statistics, following HMRC implementing the enhancements listed in Assessment Report 157 Statistics on Income Tax and Assessment and Report 241 Income Tax Projections, available at:

http://www.statisticsauthority.gov.uk/assessment/assessment/assessment-reports/index.html

### Data sources, methods and quality

These statistics are based on HMRC's annual Survey of Personal Incomes (SPI), a representative sample survey of the tax records of individuals in HMRC's Pay As You Earn (PAYE), Self-Assessment (SA) and repayment claims administrative systems. Individuals' tax liabilities are estimated using the information SPI provides on taxpayer incomes and circumstances (e.g. their age).

Data sources and methods are described in Annex B, including information on changes to imputation methods introduced for the 2012-13 SPI (page 55). Information about the quality of the statistics is set out in Annex C.

As in previous releases, ITLS Table 2.2 provides projections of taxpayer numbers by taxpayer marginal rate for countries and regions. These projections are indicative only and users should note that the reliability of these projections by country and region is under review, with the possibility that they be partially withdrawn from future releases (Annex C).

### New in this release

ITLS was last published in February 2015. This (May 2015) release provides revised projections for tax years 2013-14 to 2014-15 as well as the first estimates for the 2015-16 tax year, based on the 2012-13 SPI data. The data is projected using economic assumptions consistent with the Office for Budget Responsibility's (OBR) March 2015 Economic and fiscal outlook:

http://budgetresponsibility.org.uk/economic-fiscal-outlook-march-2015/

### **Next release**

ITLS is published twice yearly, in January/February and April/May, with revised projections based on the OBR's latest published economic forecast, until final statistics based on outturn SPI data can be published.

The next scheduled release will be in January/February 2016, containing 2013-14 SPI outturn data with revised projections for 2014-15 and 2015-16 following the OBR's Autumn Statement 2015 economic forecast.

The exact date of publication will be given not less than one calendar month before publication on both the HMRC Gov.uk statistics page and Office for National Statistics (ONS) publication hub.

### 2008-09 Survey of Personal Income

The 2008-09 SPI is still unavailable but HMRC remains committed to producing National Statistics for 2008-09 and will announce their publication dates as soon as they have been confirmed.

### **Income Tax Liability Statistics**

Section A provides detailed statistics on outturn and projections of individual income taxpayer numbers, income tax liabilities and average rates of tax broken down by taxpayer characteristics such as age and gender, income levels and groupings (e.g. the top 1%), and by marginal rate of tax (e.g. basic rate taxpayers). Section A also shows tax liabilities arising on different forms of income subject to income tax and in each tax band.

As a complement to the survey-based statistics, Section B sets out trends in income tax burdens over time for a selection of illustrative family types and earnings levels. HMRC also publishes statistics on income tax receipts: https://www.gov.uk/government/collections/income-tax-receipts-statistics

### Liability versus receipts

Liabilities are amounts of income tax due on incomes arising in a given tax year whereas receipts are amounts of income tax paid and collected in a given year. Statistics on income tax liabilities and receipts in any year can differ appreciably, due to lags in the payment and collection of tax particularly under SA, or when over or underpayments occur which are repaid or recovered in a later year.

Data sources and methods underpinning the statistics also differ. Receipts statistics are based on aggregate administrative data sources whereas liabilities statistics are compiled using a sample of individuals' tax records (SPI).

The detailed breakdowns of income tax liabilities provided in ITLS, e.g. by taxpayer income or marginal rate, are not available on a receipts basis, and are not generally available in other statistical publications. Liabilities statistics also reflect more closely and immediately than tax receipts the impact of changes in the income tax policy regime and developments in the wider economy.

### Time frames

Due to the time required in processing Self-Assessment Tax Returns and information provided by employers, SPI survey results are subject to a lag of several years. Projections up to the current tax year, 2015-16, are provided to bring the statistics up to date, and enhance their timeliness and usability.

Projections beyond the current tax year are not provided as tax rates, allowances and thresholds impacting on the statistics are not known until announced by the Government. Any projections beyond 2015-16 would also be subject to the likelihood of larger projection errors.

### **Projection methods**

The projections methods, described in Annex B, have been chosen to suit ITLS' key purpose of providing informative breakdowns of income taxpayers and liabilities. Provision of projections of total tax is not a key purpose of the ITLS release, and the use of other data sources and alternative projection methods would be required to make them suitable for that particular purpose. They should not be seen or used as alternatives to other forecasts of income tax.

### Office for Budget Responsibility

The Office for Budget Responsibility was created in 2010 to provide independent and authoritative analysis of the UK's public finances, and twice yearly publishes five-year forecasts for the economy and public finances, including income tax receipts: <a href="http://budgetresponsibility.independent.gov.uk/">http://budgetresponsibility.independent.gov.uk/</a>

### Use of Income Tax Liabilities Statistics

Income Tax Liabilities Statistics are used by a variety of organisations mainly concerned with Government decision making about tax policy, both in a policy making and policy monitoring context.<sup>1</sup>

The projections form the basis for HMRC's detailed assessments of the Exchequer costs and impacts on individuals of potential changes to the income tax system. This informs the Government's tax policy decisions, and they are used by other Government departments for similar purposes.

They are also used by Parliament, Government departments such as HM Treasury, some private organisations including policy 'think tanks', as well as the media and other commentators to monitor income tax trends and distributions. They inform, for example, users' assessments of the impacts of past tax policy changes or the sustainability of the UK public finances. For some users, such as the Office for Budget Responsibility, the statistics are used explicitly in an economic and tax forecasting context, informing assessments of recent trends or used as specific inputs to the forecasting process.

The statistics are also used by HMRC and other organisations including the Office for Tax Simplification in assessments of the operation of the UK income tax system and its impact on individuals.

While HMRC has regular contact with some key users of the ITLS statistics within Government, we would like to improve our knowledge of the use made of the ITLS statistics and projections, particularly by private sector organisations and individuals. We encourage users to provide feedback on their use of the statistics including any decisions they may inform, together with their requirements and any improvements they would like to see by using the contact points set out below.

http://www.statisticsauthority.gov.uk/assessment/monitoring/monitoring-reviews/monitoring-brief-6-2010---the-use-made-of-official-statistics.pdf

<sup>&</sup>lt;sup>1</sup> UKSA Monitoring Brief 6/2010 *The Use Made of Official Statistics* provides a generic framework for classes of use of Official Statistics:

### **Further information**

Further information setting out the context for these statistics and projections is provided in Annex A. This includes an introduction to the UK income tax system and a summary of recent income tax policy changes which impact on the ITLS. Annex D provides a glossary of terms.

### Feedback and questions

We strive to improve the quality and accessibility of our National Statistics, your feedback is crucial in this process. We welcome your suggestions on any of the Statistics and Bulletin in this Income Tax Liabilities publication. If you have any feedback or queries, please contact the Statisticians named on the front page of this release, or use HMRC's user engagement form:

https://www.gov.uk/government/organisations/hm-revenue-customs/about/statistics#contact-us

User comments are reviewed regularly, and results of surveys and consultations are published. Information on the most recent survey of users of HMRC income tax statistics is available here:

http://webarchive.nationalarchives.gov.uk/\*/http://www.hmrc.gov.uk/statistics/income/user-survey-results.pdf

# SECTION A: Income Tax Liabilities Statistics

Section A provides detailed insights into some of the key statistics presented in the Table 2.1 to 2.6.

# Table 2.1 – Number of individual income taxpayers by marginal rate, gender and age, 1990-91 to 2015-16

https://www.gov.uk/government/statistics/number-of-individual-income-taxpayers-by-marginal-rate-gender-and-age

Table 2.1 shows how the number of individuals with positive income tax liabilities (taxpayers) has changed over time. The table begins in 1990-91, the year that independent taxation for all individuals was introduced in the UK; previously married couples were taxed jointly. The table provides separate breakdowns of the income taxpaying population by marginal tax rate, gender and by age group.

### **Taxpayers**

Prior to the 2008 recession, income taxpayer numbers generally increased, from 26.1 million in 1990-91 to 32.5 million in 2007-08. Latest SPI data shows an estimated 30.6 million taxpayers in 2012-13, which is followed by a steady decline in taxpayers to 29.7 million in 2015-16.

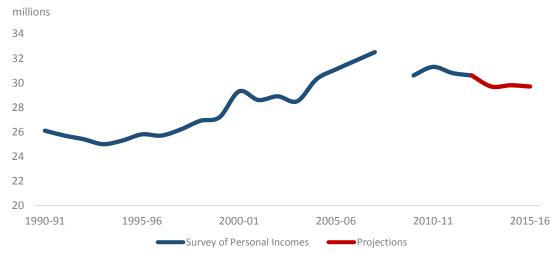


Figure 1: Number of Individual Income Taxpayers, 1990-91 to 2015-16

Population, income and employment growth would be expected to drive growth in taxpayer numbers as the combined growth is higher than the effect of indexation of the tax free Personal Allowance (PA). Above indexation growth in the PA has offset this growth, and furthermore reduced the overall number of taxpayers in total.

Total taxpayers fell by 0.2 million to 30.6 million in 2012-13. With income growth below the inflation measure used for indexation in the period to 2015-16, projections show taxpayer numbers declining further by 0.9 million to 29.7 million in 2015-16. These projected reductions in taxpayer numbers also reflect significant increases in

the PA for under 65s, with a £1,115 rise in 2013-14 above indexation, a £260 rise above indexation in 2014-15 and a £470 rise above indexation in 2015-16. Additionally, the abolition of the Starting Rate Limit (SRL)<sup>2</sup> and the extension of this limit to £5,000 in 2015-16 further contributed to taking individuals out of tax.

### Marginal rate

An individual's marginal tax rate is the proportion of an extra pound of income that would be paid in income tax, which depends on their total taxable income and its composition.

In 1990-91, an estimated 24.4 million individuals, representing the large majority of all income taxpayers (93%) were non-higher rate taxpayers<sup>3</sup>. A further 1.7 million were Higher Rate (HR) taxpayers. In 2012-13, 26.6 million individuals (87%) were non-higher rate taxpayers, 3.7 million individuals (12%) were HR taxpayers and 273,000 (1%) were Additional Rate (AR) taxpayers. In 2015-16, an estimated 24.7 million individuals (81%) are non-higher rate taxpayers, 4.6 million individuals (16%) are HR taxpayers and 332,000 (1%) are AR taxpayers.

Taxpayers liable at the higher and additional rates of tax are projected to rise by 1.0 million, from 4.0 million in 2012-13 to 5.0 million in 2015-16. While the proportion of taxpayers liable at these rate normally rises over time as income growth typically exceeds indexation of tax thresholds, UK earnings growth was below Retail Price Indexed (RPI) indexation in this particular period. Increases in HR taxpayer numbers therefore tend to reflect policy changes impacting the Higher Rate Threshold (HRT)<sup>4</sup> for income tax. This was frozen at the 2011-12 level of £42,475 in 2012-13 before falling to £41,450 in 2013-14, rising by a capped rate of 1% to £41,865 in 2014-15 (£1,035 below indexation) and rising again in 2015-16 by a capped rate of 1% plus £100 (£515 below indexation) to £42,385.

### Interpreting Table 2.1

Starting, savers and basic rate taxpayers are non-higher rate taxpayers, and might all be considered "basic" rate taxpayers in the sense that no tax is due at higher rates. The separate categories are published recognising that the highest marginal rate of tax paid will depend on the make-up of their taxable income, and this affected significant numbers of taxpayers particularly before April 2008 when the starting rate of tax on earnings was removed. Classification of taxpayers by marginal rate is described in Annex B, and is subject to discontinuities over time reflecting the changing structure of UK income tax.

The SPI is an annual cross section sample survey comprising a different sample of taxpayers each tax year. Changes in taxpayer numbers between years will in part reflect sampling variation (Annex C). Changes to SPI survey methods may also lead to some discontinuities in the accumulated time-series estimates of taxpayer numbers in survey years up to 2012-13.

<sup>&</sup>lt;sup>2</sup> The Starting Rate Limit applies to taxable savings income, in 2012-13 the first £2,710 is liable at 10%. In 2015-16 the limit is extended to £5,000 and is tax fee.

<sup>&</sup>lt;sup>3</sup> Non-higher rate taxpayers comprise of starting, savers and basic rate taxpayers.

<sup>&</sup>lt;sup>4</sup> The Higher Rate Threshold is the point at which taxpayers are liable to higher rate tax on their taxable income.

# Table 2.2 – Number of individual income taxpayers by country and region, 1999-00 to 2015-16

https://www.gov.uk/government/statistics/number-of-individual-income-taxpayers-by-marginal-rate-gender-and-age-by-country

Table 2.2 provides a breakdown of the number of individuals with positive income tax liabilities (taxpayers) over time, country and across Government Office Regions. The table provides separate breakdowns of the income taxpaying population by taxpayers' marginal tax rate, gender and by age group.

### **Taxpayers**

In 2012-13, the largest number of taxpayers are estimated to reside in the South East (14.7% of the total), followed by London (12.9%) and the North West (10.6%) Government Office Regions. The countries and regions with the lowest number of taxpayers are Northern Ireland (2.4%), followed by the North East (3.8%) and Wales (4.6%). Around 1% of taxpayers either reside abroad or their address is unknown in the SPI (these are not included in the table 2.2).

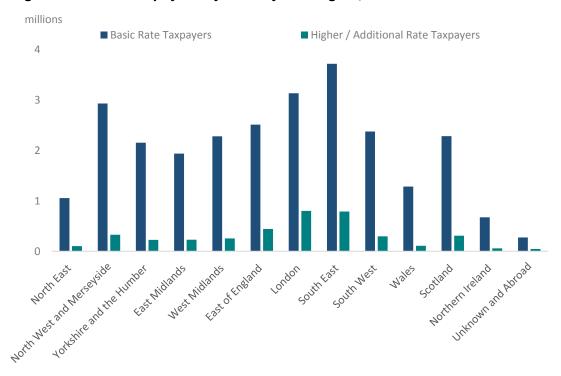


Figure 2: Income taxpayers by country and region, 2012-13

Projections show taxpayer numbers declining on average by 2.9% across the countries and regions between 2012-13 and 2015-16. Of the 900,000 fewer taxpayers in 2015-16, 12.7% are from the North West, the largest decline, followed by London at 11.6% and South East at 10.1%.

The projection methods take account of relevant economic trends at UK level; irrespective of the place of residence of each individual in the SPI data (see Annex B). Therefore, these regional projections of taxpayer numbers are indicative, and show close correspondence with the expected overall UK trend. Higher and Additional rate taxpayers

There are three regions where the proportion of higher and additional rate taxpayers exceed the UK average (13.0%): London (20.4%), the South East (17.5%), and East of England (14.9%). The unknown and abroad group also exceeds the UK average proportion of higher and additional rate taxpayers. By contrast, under-representation of higher and additional rate taxpayers is most marked in Wales (7.8%), Northern Ireland (8.0%) and the North East (8.9%).

Projections of additional rate taxpayer numbers by regions and country for 2013-14 to 2015-16 are highly indicative, and are published for continuity with past publications while HMRC assesses their reliability (see Annex C).

### Interpreting Table 2.2

Taxpayer country and region for individuals in the SPI data are determined by individuals' residential postcode (not, for example, place of work if any). Projections of taxpayer numbers by country and region beyond the 2012-13 outturns are based on economic outturns/projection assumptions applying generally to the UK as a whole, and should be regarded as indicative in that they make no explicit allowance for geographical variations in economic trends. Annex B provides further details.

# Table 2.4 – Shares of total income (before and after tax) and income tax for percentile groups<sup>5</sup>, 1999-00 to 2015-16

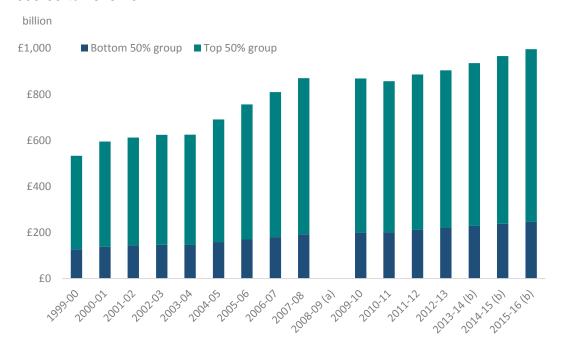
https://www.gov.uk/government/statistics/shares-of-total-income-before-and-after-tax-and-income-tax-for-percentile-groups

Table 2.4 shows how the distributions of income and tax liabilities have changed since 1999-00. Income distribution provides one measure of income inequality, while the shares of total tax liabilities reflect the progressivity of the income tax system. The table also show the income breakpoints for each percentile groups, and how this has changed since 1999-00.

### Income distribution

Figure 3 shows taxpayers' combined income totalled £533 billion in 1999-00, by 2012-13 total income grew to £904 billion and is expected to reach £996 billion by 2015-16.

Figure 3: Distribution of total income for bottom and top 50% of taxpayers, 1999-00 to 2015-16



- (a) 2008-09 Survey of Personal Incomes is currently unavailable
- (b) Projections

In 1999-00, income inequality between the bottom and top 50% of taxpayers (on total income before tax) was shown by a 52.4 percentage point difference in their share of total income: the bottom 50% had 23.8% of total before tax income whilst the top 50% had 76.2%. Inequality on this measure grew in the years leading up to the 2008 recession, showing a 55.8 percentage point difference in 2007-08 (77.9% compared to 22.1%). By 2012-13 inequality fallen back to the 1999-00 level and is expected to decline further to 50.6 percentage points in 2015-16.

<sup>&</sup>lt;sup>5</sup> Percentile groups are ranged on total income before tax

The top 10% of taxpayers represented around a third of all income in 2012-13, the top 5% around a quarter, and the top 1% around 11.2%. Comparably, the bottom 10% represented 3.2% of all income, the bottom 5% represent 1.5%, and the bottom 1% represent 0.3%.

### Share of income tax liabilities

Figure 4 shows taxpayers' combined tax totalled £93 billion in 1999-00 and by 2012-13, total tax grew to £157 billion and is expected to reach £171 billion by 2015-16.

Figure 4: Share of total tax for bottom and top 50% of taxpayers, 1999-00 to 2015-16



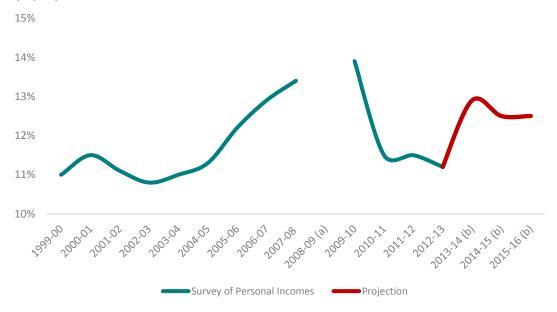
- (a) 2008-09 Survey of Personal Incomes is currently unavailable
- (b) Projections

In 2012-13 the bottom 50% of taxpayers were liable for 10.6% of total tax, whilst the top 50% were liable for 89.4%, showing the progressivity of the income tax system. More than half of total income tax is paid by the top 10% of taxpayers, while around a quarter is paid by the top 1% in 2012-13. Comparably, the bottom 10% paid 0.5% of total income tax and the bottom 1% paid a negligible share.

In 2015-16 the bottom 50% of taxpayers are projected to be liable to 9.5% of total tax, a one percentage point reduction since 2012-13, whilst the top 50% a projected to be liable for 90.5%. The top 10% of taxpayers are projected to be paid 58.9% of total tax, with the bottom 25% projected to pay 2.2%. The share projected to be paid by the top 1% of taxpayers continues to grow to 27.5% in 2015-16, up from 25.1% in 2012-13.

### Additional rate impacts

Figure 5: Percentage share of total income for top 1% of taxpayers, 1999-00 to 2015-16



- (a) 2008-09 Survey of Personal Incomes is currently unavailable
- (b) Projections

The top 1% of taxpayers broadly make up the additional rate taxpayer population. Figure 5 shows how the introduction of the additional rate in April 2010, on taxable income over £150,000, has led to individuals bringing forward or 'forestalling' income in 2009-10 from 2010-11. Income forestalling was estimated by HM Revenue and Customs at around £16-18 billion or 2% of total taxpayer income among the top 1% in 2009-10. Details of these effects were set out in a HM Revenue and Customs report.<sup>6</sup>

In April 2013, the additional rate was reduced and this led to the postponement or 'deferral' of income from 2012-13 to 2013-14, which can be seen in the 'below normal' share of income of the top 1% in 2012-13. Projections take these behavioural responses into account and as a result the share of income of the top 1% is expected to rise in 2013-14 to 12.9% and drop back to 'normal' levels by 2015-16.

The impact of these possible behavioural responses means that the top 1% share of income is:

- artificially high in 2009-10,
- artificially low in 2010-11 and 2011-12
   (relating to the introduction of the 50p rate in April 2010).
- artificially low in 2012-13
- artificially high in 2013-14

(relating to the reduction in the additional rate to 45p in April 2013).

<sup>&</sup>lt;sup>6</sup> The Exchequer effect of the 50 per cent additional rate of tax: http://webarchive.nationalarchives.gov.uk/20140206144454/http://www.hmrc.gov.uk/budget20 12/excheq-income-tax-2042.htm

2014-15 and 2015-16 are believed to be unaffected by these 'income shifting' effects and can therefore be compared directly with the years preceding them. 2007-08 is the most recent such year for which data are available.

The share of total before tax income taken by the top 1% of taxpayers declined from 13.4% in 2007-08 to 12.5% in 2015-16, reflecting the reduction in income inequality referred to earlier.

In contrast, the share of total tax paid by the top 1% of taxpayers increased from 24.4% in 2007-08 to 27.5% in 2015-16 indicating that the progressivity of the tax system increased over this period. Factors contributing to this increase in progressivity will include:

- introduction of the additional rate and the PA taper;
- lowering of the limits on tax relief on pension contributions;
- real terms PA increases since 2010-11 with the benefits going mainly to basic rate taxpayers.

Annex B (page 62) describes in more detail HMRC's estimates of possible behavioural responses to the additional rate of income tax.

### Interpreting Table 2.4

The table relates to taxpayers only, as the SPI survey provides complete coverage only for this group. The table does not provide a complete picture of individual income inequality in the UK due to the exclusion of non-taxpayers, and because the SPI records only those incomes that are assessable for tax (e.g. a range of non-taxable social security benefits and tax credits are not included).

Taxpayers are ranked on the basis of total income assessable for tax (earnings, savings and dividends incomes) before any deductions (e.g. pension contributions) and tax allowances, and then divided into specific groups (e.g. lowest and highest 50% by total income). Income levels at specific percentile points of the taxpayer total income distribution have been added to Table 2.4 to help users.

Projections of shares of income and tax for percentile groups should be considered indicative, as the projection of incomes for all taxpayers generally takes account only of expected growth in incomes in aggregate. The projections do, however, allow for differential earnings growth across the pay distribution consistent with past trends and also continued forestalling effects associated with changes in the additional rate of tax.

# Table 2.5 – Income tax liabilities by income range, 2012-13 to 2015-16

https://www.gov.uk/government/statistics/income-tax-liabilities-by-income-range

Table 2.5 shows numbers of taxpayers and their tax liabilities by range of total income and marginal rate of tax. Analysis by income range provides a snapshot of the distribution of taxpayers and their tax liabilities.

### Taxpayers by income

Figure 6 shows the projected net decline in taxpayers of 900,000 from 2012-13 to 2015-16 falling entirely in the bands below £15,000. There are several causes as to why low income taxpayers are reducing in numbers: above indexation increases to the PA, abolition of the SRL, extension of that limit and weaker projected average earnings growth at the low end of the income distribution.

Taxpayers (million) 9 8 7 6 5 4 3 2 1 Below £8.105 £10.000 (a) £15.000 £20.000 £30.000 £50.000 £100.000 £150.000+ (a) ■ 2012-13 ■ 2015-16 (projection) (a) £10,600 in 2015-16

Figure 6: Taxpayers by income range (lower limits), 2012-13 and 2015-16

### Liabilities and average tax rates

Figure 7 shows that the total tax liabilities of those with income under £30,000 have decreased since 2012-13. Taxpayers with income over £30,000 are liable for a larger proportion of the total tax liabilities: whereas in 2012-13 they were liable for 77%, in 2015-16 they are liable for 83% of total tax.

The average tax rates show how policy changes have reduced an individual's tax burden since 2012-13 to 2015-16. The average tax rates for taxpayers with total income between £50,000 and £150,000 have largely remained unchanged. This reflects increases in the PA

and abolition of the starting rate on savings income. These changes reduce income tax burden for those on low incomes and as a result reduce taxpayer numbers. The reduction in the additional rate of tax has decreased the average tax rate for those with income over £150,000.

For all taxpayers the average tax liability is expected to increase by £620, from £5,140 to £5,760 from 2012-13 to 2015-16. However, those with income below £150,000 are expected to see an average decrease in their tax liability of £410 over this period.

Tax liability (billions) Average tax rate £45 45% £40 40% £35 35% 30% £30 £25 25% f20 20% £15 15% f10 10% £5 5% 0% Belonts, 105 (a) £150,000 £100,000 £200,000 £50'00 £30,000 £50,000 £500,000 Tax liability Average rate of tax ■ 2015-16 **2012-13 2012-13** 2015-16 (a) £10,600 in 2015-16

Figure 7: Total tax liabilities and average rate of income tax by income range (lower limits), 2012-13 and 2015-16

### Interpreting Table 2.5

Income groups are defined in the table in terms of the lower limit for total income before any deductions, allowances and tax credits. Taxable income is net of these deductions, allowances, and credits, and this explains why total income for some taxpayers at each marginal tax rate in Table 2.5 exceeds the corresponding limits for taxable incomes that apply to the tax bands (e.g. total income for some basic rate taxpayers significantly exceeds the basic rate limit for taxable income). The lowest income limit shown for each tax year corresponds to the personal allowance for individuals aged under 65.

Column totals for tax liabilities of taxpayers by marginal rate show total liabilities of such taxpayers, including liabilities paid at other rates of tax (e.g. total liabilities of higher rate taxpayers includes liabilities due at the basic and other rates of income tax). For each income group, the average rate of income tax is calculated as total tax liabilities expressed as a percentage of total income defined above. Deductions, allowances and tax credits will vary across individuals within each group contributing to differences in individual tax rates within groups over and above differences in individual incomes. An individual's marginal rate of tax places an upper limit on their average rate of tax due on their total income; average tax rates therefore rise with income towards 50% from 2012-13 and 45% thereafter.

### Table 2.6 – Income tax liabilities by income source and tax band, 2012-13 to 2015-16

https://www.gov.uk/government/statistics/income-tax-liabilities-by-taxpayers-marginal-rate

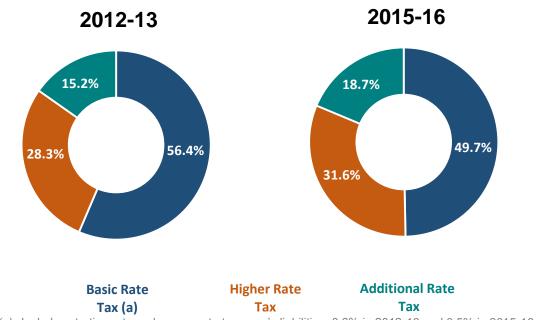
Table 2.6 shows total tax liabilities, broken down by income source (earnings, savings and dividends) and by income tax band showing the composition of the total tax liabilities. It also shows average tax rates by taxpayer marginal rate.

### **Income Source**

The table presents tax liabilities classified into three broad sources of income assessable for income tax: earnings, savings interest and dividends. In 2012-13, the large majority of total tax liabilities was due on earnings, which, as defined here, includes earnings from employment, but also profits from self-employment, pensions, taxable state benefits and income from property. Earnings accounts for 92.4% of total tax liabilities (£157 billion), with 5.8% from dividends and 1.9% from savings interest. In the projections to 2015-16, the proportion of tax from earnings slightly decreases down to 90.9%, dividends increase to 7.7% and savings interest decrease to 1.4% of the total tax liabilities (£171 billion).

### Liabilities by tax band

Figure 8: Proportion of tax liabilities at Basic, Higher and Additional rate, 2012-13 and 2015-16



(a) Includes starting rate and savers rate taxpayer's liabilities, 0.6% in 2012-13 and 0.5% in 2015-16

Composition of total tax liabilities has changed significantly since 2012-13. Tax at the basic rate (including tax at starting and savings rate) is projected to decrease from 56.4% of total liabilities in 2012-13 down to 49.7% in 2015-16. Tax at the higher rate is projected to increase from 28.3% to 31.6% and tax additional rate tax to increase from 15.2% to 18.7%.

While PA increases between 2012-13 and 2015-16 have reduced the burden on low income earners (non-higher rate taxpayers) and reduced their numbers, another reason for lower projected liabilities at the basic rate is the narrowing of the range of income subject to the basic rate as the Basic Rate Limit (BRL) has fallen in real terms.

### The average rates of Tax

For basic rate taxpayers, the average rate of income tax is projected to fall from 11.3% in 2012-13 to 10.5% in 2013-14, 10.3% in 2014-15, and then to 10.0% in 2015-16, following increases in personal allowances for under 65s in these years. The average rate for higher rate taxpayers is also expected to decline, from 22.8% in 2012-13 to 21.8% by 2015-16. The average rate for additional rate taxpayers is also projected to fall from 39.8% in 2012-13 to 37.9% in 2015-16, reflecting the reduction in the top rate of tax from 50% in 2012-13 to 45% from 2013-14 onwards.

The average rate of tax across all taxpayers, however, is projected to remain broadly stable at 17.2%, marginally down on the 17.4% level in 2012-13, reflecting a rising income share for higher income taxpayers. So while the average rate for each band of taxpayers is projected to fall, the distribution of taxpayers across those bands shifts upward.

### Interpreting Table 2.6

The purpose of Table 2.6 is to provide breakdowns of income tax liabilities by income source, by tax band and taxpayer marginal rate. Projections of total liabilities shown here and in other tables are for reference, but please see background notes on relevance and use of ITLS statistics and projections.

Dividends liabilities are shown gross of the 10% dividends tax credit that covers the first 10% of tax due on dividends income for all taxpayers. Estimates of total liabilities for given tax bands include tax paid on incomes in that band by all taxpayers, e.g. totals for starting rate tax include the starting rate tax liabilities of basic and higher rate taxpayers.

### 2\_1 Number of individual income taxpayers by marginal rate, gender and age, 1990-91 to 2015-16

Numbers: thousands Lower (1) or ΑII "Savers" (3) Basic (4) Higher (5) Additional (6) Males Females Under 65's and State Pension starting (2) 65's Year taxpayers rate rate rate Age (7) 26.100 1.700 15.400 10.700 3.620 1990-91 24.400 23.000 3.120 1991-92 25.700 24.100 1,620 15.100 10.600 22.800 2.930 3.590 1992-93 25,400 4,240 19,400 1,720 14,900 10,500 22,400 2,960 3,480 1993-94 25.000 5.390 17.900 1.740 14.600 10.300 22.000 3.040 3.570 25,300 1994-95 5,180 18,200 2,000 14,700 10,600 22,100 3,250 3,860 1995-96 25,800 5,770 18,000 2,130 15,000 10,800 22,500 3,970 1996-97 25.700 7.350 16.200 2.080 14.900 10.800 22,400 3.280 3 860 26,200 1997-98 7.690 16.400 2.120 15.200 11.000 22.800 3.390 4.000 1998-99 26,900 8,090 16,500 2,350 15,600 11,300 23,300 3,670 4,340 1999-00 27.200 2.280 954 21,400 2.510 15,500 11.700 23,600 3.580 4.220 29.300 22.600 2000-01 2.820 1,010 2.880 16.900 12.400 25.300 3.950 4.660 28,600 21,700 12,200 4,780 2001-02 3,030 857 3,000 16,400 24,500 4,090 2002-03 28,900 3,100 22,000 3,040 16,500 12,400 24,700 4,190 4,920 730 2003-04 28.500 3,220 734 21.600 2.960 16,100 12.400 24,500 3.950 4.700 2004-05 30,300 3,570 833 22,500 3,330 17,000 13,300 26,000 4,250 5,110 23,100 3,590 2005-06 31,100 3,490 866 17,600 13,500 26,900 4,160 5,100 2006-07 31,800 3,450 927 23,700 3,770 13,900 27,300 4,520 5,590 17,900 2007-08 32,500 3,440 1,070 24,100 3,870 18,200 14,200 27,700 4,790 5,930 2008-09 (a) 2009-10 30,600 163 602 26,600 3,190 17,100 13,500 26,000 4,530 5,690 2010-11 31.300 276 623 27.100 236 4.910 6.010 3.020 17.400 13.800 26,400 2011-12 30.800 318 621 26.000 3.570 262 17,300 13.400 25,700 5.090 5.980 2012-13 30,600 270 630 25,700 3,720 273 17,300 13,300 25,200 5,380 6,140 29,700 24,200 286 2013-14 (8) 249 630 4.250 17.000 12.700 24.000 5.660 6.230 2014-15 (8) 29,800 205 618 24,200 4,470 312 17,200 12,600 24,100 5,750 6,190 2015-16 (8) 691 24 000 17 100 24 000 5 750 29 700 4 650 332 12 600 6.080

Source: Survey of Personal Incomes.

Table updated May 2015

#### Key

. not applicable / zero

### Footnotes for tables 2.1

- (a) Figures for 2008-09 tax year are not currently available.
- (1) Taxpayers with total taxable income below the lower rate limit and some taxpayers whose savings and dividend income took them above the lower rate limit. From 1993-94 until 1998-99 a number of taxpayers with taxable income in excess of the lower rate limit only paid tax at the lower rate. This was because it was only their dividend income and (from 1996-97) their savings income which took their taxable income above the lower rate limit, and such income was chargeable to tax at the lower rate and not the basic rate
- (2) In 1999-2000 the starting rate replaced the lower rate. Between 1999-2000 and 2007-08 taxpayers with total taxable income below the starting rate limit. From 2008-09 taxpayers with no taxable earnings and total taxable income from savings below the starting rate limit. From 2015-16 the starting rate of tax for savings income has been reduced from 10% to 0%, and the starting rate limit has been increased to £5,000.
- (3) Taxpayers with no taxable earnings and total taxable income from savings between the starting/lower rate limit and the basic rate limit and/or dividends at the 10p ordinary rate. Before 1999-2000 these taxpayers would have been classified as lower rate taxpayers.
- (4) Betw een 1999-2000 and 2007-08 taxpayers w hose total taxable income is betw een the starting rate limit and basic rate limit and includes income from earnings or income taxed as earnings. From 2008-09 taxpayers w hose income includes earnings or other income taxed as earnings and with total taxable income below the basic rate limit. (5) Before 2010-11 taxpayers w ith total taxable income above the basic rate limit. From 2010-11 taxpayers w ith total taxable income between the basic rate limit and the higher rate limit.
- (6) Taxpayers with total taxable income above the higher rate limit.
- (7) Taxpayers aged 65 years or older for men and 60 years or older for women in 2009-10. The female State Pension Age is being increased gradually from April 2010 to be equalised with the male State Pension Age by November 2018. The female State Pension Age for the purposes of this table is 60.5 years in 2010-11, 61 years in 2011-12, 61.5 years in 2012-13, 62 years in 2013-14, 62.5 years in 2014-15 and 63 years in 2015-16.
- (8) Projected estimates based upon the 2012-13 Survey of Personal Incomes using economic assumptions consistent with the OBR's March 2015 economic and fiscal outlook.

### 2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

	All	Starting (2)	"Savers" (3)	Basic (4)	Higher (5)	Additional (6)	Males	Females	Under	65's and St	tate Pension
Year	taxpayers	rate	rate	rate	rate	rate			65's	over	Age (7)
England											
1999-00	22,900	1,910	800	18,000	2,230		13,100	9,860	19,900	3,040	3,570
2000-01	24,700	2,350	853	18,900	2,560		14,200	10,500	21,400	3,310	3,900
2001-02	24,200	2,530	733	18,300	2,660		13,900	10,300	20,700	3,450	4,030
2002-03	24,300	2,570	615	18,400	2,680		14,000	10,300	20,800	3,510	4,090
2003-04	23,800	2,660	618	17,900	2,610		13,500	10,300	20,500	3,300	3,920
2004-05	25,400	2,960	716	18,800	2,920		14,300	11,100	21,800	3,550	4,260
2005-06	26,000	2,890	737	19,200	3,130		14,700	11,300	22,500	3,460	4,230
2006-07	26,600	2,850	795	19,700	3,280		15,000	11,600	22,900	3,770	4,650
2007-08	27,100	2,850	904	20,000	3,360		15,200	11,900	23,100	3,970	4,910
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	,
2009-10	25,500	142	525	22,100	2,790		14,300	11,200	21,700	3,770	4,740
2010-11	26,100	235	540	22,400	2,620	214	14,600	11,500	22,000	4,050	4,950
2011-12	25,700	265	538	21,500	3,090	237	14,500	11,200	21,500	4,210	4,950
2012-13	25,500	233	552	21,300	3,220	246	14,500	11,100	21,100	4,450	5,080
2013-14 (8)	24,800	208	554	20,100	3,680	258	14,200	10,600	20,100	4,680	5,160
2014-15 (8)	24,900	170	544	20,100	3,870	280	14,400	10,500	20,200	4,750	5,120
2015-16 (8)	24,800		608	19,900	4,020	298	14,400	10,500	20,100	4,760	5,020
North East											
1999-00	1,090	106	33	890	56		629	457	935	150	177
2000-01	1,160	116	41	939	67		664	499	1,010	157	185
2001-02	1,180	147	36	927	66		682	494	1,010	169	198
2002-03	1,190	145	30	946	71		683	509	1,020	171	198
2003-04	1,170	139	28	933	75		686	489	1,020	159	186
2004-05	1,260	155	31	988	86		701	559	1,100	165	194
2005-06	1,250	149	30	978	89		708	538	1,090	151	181
2006-07	1,330	155	31	1,040	97		748	578	1,150	177	219
2007-08	1,320	151	36	1,030	101		732	587	1,130	186	233
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	1,190	4	17	1,090	80		682	505	1,020	164	202
2010-11	1,190	11	19	1,080	78	3	645	543	1,000	184	229
2011-12	1,170	11	16	1,050	93	3	673	501	985	188	221
2012-13	1,160	9	17	1,030	100	3	664	495	955	204	232
2013-14 (8)	1,130	8	18	979	117	3	653	472	909	216	237
2014-15 (8)	1,130	7	18	977	124	4	657	472	910	219	235
2015-16 (8)	1,130		19	974	130	4	657	470	907	221	233

2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

	All	Starting (2)	"Savers" (3)	Basic (4)	Higher (5)	Additional (6)	Males	Females	Under	65's and St	ate Pension
Year	taxpayers	rate	rate	rate	rate	rate		. 6.12.65	65's	over	Age (7
North West											
1999-00	3,080	335	111	2,420	216		1,740	1,340	2,700	380	45
2000-01	3,220	327	106	2,550	232		1,840	1,380	2,800	417	49
2001-02	3,190	368	93	2,480	250		1,830	1,360	2,750	431	50
2002-03	3,210	371	78	2,510	253		1,820	1,390	2,740	468	54
2003-04	3,160	393	84	2,430	253		1,770	1,390	2,720	438	51
2004-05	3,310	412	89	2,530	282		1,830	1,480	2,860	456	553
2005-06	3,360	405	88	2,570	298		1,880	1,480	2,920	438	539
2006-07	3,450	405	96	2,640	315		1,920	1,530	2,970	484	60
2007-08	3,490	398	111	2,660	317		1,920	1,570	2,980	507	633
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	
2009-10	3,300	16	64	2,960	258		1,810	1,490	2,820	476	603
2010-11	3,340	30	63	2,990	248	12	1,840	1,500	2,840	504	622
2011-12	3,260	33	66	2,850	301	13	1,820	1,440	2,720	538	63
2012-13	3,260	28	65	2,840	315	14	1,840	1,420	2,680	579	66°
2013-14 (8)	3,140	25	63	2,670	372	14	1,800	1,350	2,540	607	666
2014-15 (8)	3,160	19	63	2,670	392	16	1,820	1,340	2,540	617	663
2015-16 (8)	3,150		68	2,650	408	18	1,810	1,330	2,530	621	653
Yorkshire and	d the Humber										
1999-00	2,210	165	80	1,820	140		1,260	952	1,950	259	30
2000-01	2,390	254	90	1,890	157		1,380	1,010	2,090	296	35
2001-02	2,340	269	70	1,830	176		1,360	983	2,040	307	364
2002-03	2,360	285	59	1,840	179		1,380	986	2,050	314	370
2003-04	2,340	280	58	1,830	174		1,350	996	2,050	299	354
2004-05	2,430	306	65	1,860	200		1,380	1,050	2,100	325	389
2005-06	2,500	297	69	1,920	216		1,430	1,070	2,190	308	37
2006-07	2,590	306	75	1,980	231		1,470	1,120	2,250	341	418
2007-08	2,580	296	79	1,980	228		1,470	1,120	2,220	364	440
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	
2009-10	2,410	13	45	2,170	181		1,350	1,050	2,060	350	430
2010-11	2,470	20	45	2,220	180	8	1,400	1,070	2,100	373	460
2011-12	2,390	25	44	2,110	207	9	1,360	1,030	2,010	380	454
2012-13	2,380	24	43	2,090	217	10	1,360	1,020	1,970	410	470
2013-14 (8)	2,300	22	45	1,980	250	10	1,330	969	1,870	433	477
2014-15 (8)	2,310	17	44	1,970	266	11	1,350	964	1,870	438	472
2015-16 (8)	2,300		50	1,960	277	12	1,340	958	1,860	441	465

2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

Government	Office Region	<u> </u>	"C" (2)	Deeie (4)		A -1-1111	Malaa		I le de e		: thousands
Year	All taxpayers	Starting (2) rate	"Savers" (3) rate	Basic (4) rate	Higher (5) rate	Additional (6) rate	Males	Females	Under 65's	over	tate Pension Age (7)
East Midlands	<b>S</b>										
1999-00	1,940	150	66	1,570	149		1,130	812	1,710	234	276
2000-01	2,080	217	71	1,620	169		1,200	876	1,810	268	318
2001-02	2,070	242	61	1,590	174		1,210	855	1,770	293	336
2002-03	2,090	223	51	1,640	182		1,230	867	1,810	285	332
2003-04	2,090	240	53	1,620	179		1,190	901	1,820	274	328
2004-05	2,190	263	62	1,660	204		1,260	932	1,890	297	357
2005-06	2,240	265	63	1,690	218		1,300	941	1,940	295	362
2006-07	2,300	260	68	1,750	224		1,320	986	1,980	318	395
2007-08	2,340	253	78	1,780	231		1,350	992	2,000	340	421
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	2,200	12	42	1,960	183		1,250	945	1,880	317	404
2010-11	2,220	19	42	1,970	177	8	1,260	962	1,880	335	414
2011-12	2,170	22	45	1,880	208	10	1,240	924	1,800	366	429
2012-13	2,170	18	42	1,880	220	10	1,250	915	1,770	392	444
2013-14 (8)	2,110	19	45	1,780	254	11	1,240	871	1,690	417	459
2014-15 (8)	2,120	17	44	1,770	269	12	1,250	867	1,690	422	456
2015-16 (8)	2,100		48	1,760	282	13	1,240	854	1,680	418	443
West Midland	s										
1999-00	2,380	200	75	1,930	174		1,370	1,010	2,080	301	354
2000-01	2,530	263	75	1,990	198		1,490	1,040	2,210	321	386
2001-02	2,500	275	66	1,960	205		1,460	1,050	2,180	329	391
2002-03	2,500	277	63	1,960	203		1,450	1,050	2,150	348	408
2003-04	2,490	305	58	1,930	204		1,430	1,070	2,170	327	392
2004-05	2,640	323	68	2,020	226		1,510	1,130	2,290	351	421
2005-06	2,640	312	71	2,020	236		1,510	1,140	2,310	338	415
2006-07	2,710	308	75	2,080	254		1,570	1,150	2,340	378	463
2007-08	2,750	299	87	2,110	256		1,570	1,180	2,360	390	474
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	2,530	14	46	2,270	197		1,440	1,090	2,150	377	478
2010-11	2,610	27	50	2,330	192	10	1,490	1,110	2,190	418	505
2011-12	2,560	27	48	2,240	235	11	1,460	1,100	2,140	418	493
2012-13	2,530	24	49	2,210	243	11	1,470	1,070	2,100	435	499
2013-14 (8)	2,450	20	50	2,080	284	12	1,440	1,010	1,990	461	509
2014-15 (8)	2,460	17	49	2,080	300	13	1,460	1,010	1,990	472	508
2015-16 (8)	2,460		54	2,070	314	14	1,450	1,000	1,980	473	500

2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

Year	All	Starting (2)									
	taxpayers	rate	"Savers" (3) rate	Basic (4) rate	Higher (5) rate	Additional (6) rate	Males	Females	Under 65's	65's and Sover	tate Pension Age (7)
											- 195 (1)
East of Englan	d										
1999-00	2,530	173	100	1,970	292		1,510	1,020	2,190	339	393
2000-01	2,750	242	93	2,080	338		1,630	1,120	2,380	375	437
2001-02	2,720	257	80	2,030	354		1,610	1,120	2,310	409	468
2002-03	2,780	269	70	2,080	360		1,640	1,140	2,370	408	482
2003-04	2,740	295	71	2,020	351		1,570	1,170	2,350	386	459
2004-05	2,840	312	84	2,070	382		1,630	1,210	2,420	428	513
2005-06	2,980	316	93	2,160	408		1,720	1,260	2,550	429	524
2006-07	3,010	309	96	2,180	423		1,730	1,280	2,550	462	566
2007-08	3,070	314	109	2,220	435		1,770	1,310	2,590	486	608
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	2,940	17	66	2,490	361		1,670	1,260	2,470	464	583
2010-11	2,980	28	66	2,520	338	27	1,700	1,280	2,480	500	614
2011-12	2,970	32	62	2,450	394	31	1,710	1,260	2,450	521	608
2012-13	2,950	30	69	2,410	409	31	1,690	1,260	2,410	546	621
2013-14 (8)	2,870	28	70	2,270	464	33	1,670	1,200	2,290	573	630
2014-15 (8)	2,880	23	69	2,270	491	35	1,690	1,190	2,300	581	623
2015-16 (8)	2,870		77	2,240	511	37	1,690	1,180	2,290	579	609
London											
1999-00	3,290	273	91	2,460	470		1,780	1,510	2,910	384	452
2000-01	3,610	304	111	2,630	566		1,980	1,630	3,190	426	501
2001-02	3,390	303	89	2,420	574		1,860	1,530	2,980	410	486
2002-03	3,420	311	71	2,470	572		1,880	1,540	3,010	409	481
2003-04	3,330	316	75	2,400	542		1,830	1,500	2,960	376	454
2004-05	3,740	396	88	2,620	631		2,030	1,710	3,340	401	493
2005-06	3,790	368	85	2,670	673		2,090	1,710	3,410	385	483
2006-07	3,890	363	94	2,720	711		2,150	1,740	3,470	417	523
2007-08	4,030	391	109	2,790	743		2,230	1,800	3,590	436	549
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	3,840	14	74	3,090	654		2,080	1,760	3,430	406	509
2010-11	3,930	27	79	3,160	583	81	2,150	1,780	3,500	427	520
2011-12	3,950	36	79	3,060	685	88	2,170	1,790	3,500	446	526
2012-13	3,930	26	82	3,020	710	91	2,160	1,780	3,460	470	538
2012-13	3,800	22	80	2,810	794	95	2,090	1,710	3,310	491	543
2013-14 (8) 2014-15 (8)	3,830	17	80	2,810	829	102	2,120	1,710	3,340	496	536
2014-15 (8) 2015-16 (8)	3,830		90	2,780	858	107	2,120	1,720	3,340	497	527

2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

	All	Starting (2)	"Savers" (3)	Basic (4)	Higher (5)	Additional (6)	Males	Females	Under	65's and S	tate Pension
Year	taxpayers	rate	rate	rate	rate	rate			65's	over	Age (7)
South East											
1999-00	3,990	287	134	3,030	543		2,280	1,720	3,420	572	657
2000-01	4,340	355	151	3,220	618		2,530	1,810	3,700	635	742
2001-02	4,240	382	140	3,090	634		2,430	1,810	3,580	664	775
2002-03	4,140	389	113	3,010	633		2,390	1,760	3,480	666	769
2003-04	3,990	403	113	2,870	609		2,270	1,720	3,360	632	741
2004-05	4,330	464	133	3,070	669		2,430	1,910	3,650	684	815
2005-06	4,500	458	143	3,170	722		2,540	1,950	3,820	680	825
2006-07	4,580	440	154	3,240	745		2,570	2,010	3,850	727	894
2007-08	4,660	434	177	3,290	758		2,590	2,070	3,900	763	938
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	,
2009-10	4,430	29	105	3,660	641		2,480	1,950	3,700	731	915
2010-11	4,570	43	108	3,760	598	53	2,540	2,030	3,770	792	963
2011-12	4,490	45	111	3,580	696	59	2,540	1,950	3,670	820	958
2012-13	4,500	42	115	3,560	724	62	2,550	1,950	3,640	857	975
2013-14 (8)	4,390	37	116	3,360	813	65	2,510	1,880	3,500	894	987
2014-15 (8)	4,430	32	112	3,360	848	71	2,550	1,880	3,520	905	978
2015-16 (8)	4,410		127	3,330	877	75	2,550	1,870	3,500	908	963
South West											
1999-00	2,410	223	111	1,880	192		1,370	1,030	1,990	417	491
2000-01	2,590	270	115	1,990	216		1,500	1,100	2,180	415	484
2001-02	2,550	288	98	1,940	221		1,450	1,090	2,110	442	506
2002-03	2,570	295	79	1,980	223		1,500	1,080	2,140	438	505
2003-04	2,500	291	77	1,910	222		1,440	1,060	2,090	410	488
2004-05	2,620	326	96	1,950	245		1,480	1,140	2,180	441	520
2005-06	2,710	326	95	2,020	271		1,540	1,170	2,280	438	529
2006-07	2,760	308	105	2,060	285		1,560	1,200	2,290	467	572
2007-08	2,860	316	118	2,130	294		1,600	1,260	2,360	498	611
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	,
2009-10	2,690	23	67	2,360	235		1,520	1,170	2,200	484	608
2010-11	2,760	30	69	2,420	230	12	1,550	1,220	2,250	516	627
2011-12	2,700	34	66	2,320	271	13	1,510	1,190	2,180	528	625
2012-13	2,670	31	69	2,270	282	13	1,510	1,160	2,110	561	641
2013-14 (8)	2,600	27	69	2,160	328	14	1,490	1,110	2,010	589	650
2014-15 (8)	2,610	22	66	2,160	346	16	1,510	1,100	2,010	600	646
2015-16 (8)	2,600		74	2,150	359	17	1,510	1,090	2,000	598	631

2.2 Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

	All	Starting (2)	"Savers" (3)	Basic (4)	Higher (5)	Additional (6)	Males	Females	Under	65's and S	tate Pension
Year	taxpayers	rate	rate	rate	rate	rate			65's	over	Age (7)
Wales											
1999-00	1,200	104	58	971	69		711	492	1,030	170	205
2000-01	1,330	143	51	1,060	75		765	566	1,110	217	255
2001-02	1,330	145	40	1,060	79		768	557	1,130	198	232
2002-03	1,360	162	36	1,070	83		780	575	1,140	218	262
2003-04	1,340	169	37	1,050	85		762	578	1,140	200	239
2004-05	1,410	186	37	1,090	98		802	606	1,180	223	268
2005-06	1,450	178	37	1,130	107		825	627	1,230	222	269
2006-07	1,480	178	40	1,150	112		837	643	1,240	240	295
2007-08	1,510	176	51	1,170	115		852	655	1,250	257	316
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	,
2009-10	1,400	7	23	1,280	90		776	620	1,170	230	286
2010-11	1,440	13	23	1,320	87	3	789	655	1,200	249	305
2011-12	1,410	18	24	1,260	105	3	787	626	1,150	264	307
2012-13	1,390	10	23	1,250	106	3	776	616	1,100	288	326
2013-14 (8)	1,350	12	22	1,190	125	3	762	587	1,050	303	332
2014-15 (8)	1,360	9	21	1,190	135	4	773	585	1,050	310	332
2015-16 (8)	1,350		24	1,180	140	5	768	584	1,040	310	326
Scotland											
1999-00	2,270	190	71	1,850	167		1,290	984	1,990	288	344
2000-01	2,490	246	84	1,970	193		1,420	1,070	2,160	326	389
2001-02	2,450	266	67	1,910	213		1,350	1,110	2,120	330	393
2002-03	2,490	274	59	1,940	216		1,360	1,130	2,150	340	411
2003-04	2,470	281	59	1,930	207		1,350	1,130	2,150	326	394
2004-05	2,570	308	61	1,970	237		1,400	1,180	2,230	344	425
2005-06	2,650	294	63	2,030	261		1,440	1,200	2,310	341	423
2006-07	2,700	289	66	2,070	276		1,470	1,230	2,330	372	465
2007-08	2,780	283	73	2,140	288		1,500	1,280	2,380	398	499
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	,
2009-10	2,630	9	39	2,350	235		1,430	1,200	2,260	370	466
2010-11	2,720	19	41	2,420	232	11	1,460	1,260	2,300	425	532
2011-12	2,640	23	41	2,290	281	13	1,450	1,190	2,220	426	508
2012-13	2,590	17	38	2,230	296	14	1,420	1,170	2,150	442	508
2013-14 (8)	2,520	19	38	2,110	339	15	1,400	1,120	2,050	465	515
2014-15 (8)	2,530	18	37	2,100	357	16	1,420	1,120	2,060	471	509
2015-16 (8)	2,520		41	2,090	372	17	1,410	1,110	2,050	471	500

### Number of individual income taxpayers by marginal rate, gender and age, by country and region (9), 1999-00 to 2015-16

#### continued

Government	Office Region	(GOR)								Numbers	: thousands
	All	Starting (2)	"Savers" (3)	Basic (4)	Higher (5)	Additional (6)	Males	Females	Under	65's and St	ate Pension
Year	taxpayers	rate	rate	rate	rate	rate			65's	over	Age (7)
Northern Irela	and										
1999-00	638	58	18	526	36		347	291	579	59	73
2000-01	666	64	17	545	40		375	291	595	71	83
2001-02	552	66	11	434	41		318	235	486	66	79
2002-03	629	72	13	500	44		347	282	546	83	99
2003-04	701	79	12	562	48		385	316	624	77	98
2004-05	746	88	10	597	52		411	335	661	85	107
2005-06	773	87	16	612	59		436	338	688	86	105
2006-07	785	85	15	623	63		439	346	703	82	101
2007-08	801	82	22	632	65		450	351	706	95	118
2008-09 (a)	*	*	*	*	*	*	*	*	*	*	*
2009-10	747	3	8	689	48		402	346	656	91	112
2010-11	762	5	10	698	46	2	418	344	664	98	117
2011-12	746	6	9	673	55	2	414	333	646	100	117
2012-13	732	4	9	661	56	2	404	328	630	102	117
2013-14 (8)	698	3	9	619	65	3	389	309	592	106	117
2014-15 (8)	705	3	8	620	71	3	396	309	595	110	118
2015-16 (8)	702		9	615	75	3	394	308	592	110	117

Source: Survey of Personal Incomes

Table updated May 2015

#### Key

. not applicable / zero

#### Footnotes for tables 2.2

- (a) Figures for 2008-09 tax year are not currently available.
- (1) Taxpayers with total taxable income below the low er rate limit. From 1993-94 until 1998-99 a number of taxpayers with taxable income in excess of the low er rate limit only paid tax at the low er rate. This was because it was only their dividend income and (from 1996-97) their savings income which took their taxable income above the low er rate limit, and such income was chargeable to tax at the low er rate and not the basic rate.
- (2) In 1999-2000 the starting rate replaced the lower rate. Between 1999-2000 and 2007-08 taxpayers with total taxable income below the starting rate limit. From 2008-09 taxpayers with no taxable earnings and total taxable income from savings below the starting rate limit. From 2015-16 the starting rate of tax for savings income has been reduced from 10% to 0%, and the starting rate limit has been increased to £5,000.
- (3) Taxpayers with no taxable earnings and total taxable income from savings between the starting rate limit and the basic rate limit and/or dividends at the 10p ordinary rate.
- (4) Between 1999-2000 and 2007-08 taxpayers whose total taxable income is between the starting rate limit and basic rate limit and includes income from earnings or income taxed as earnings. From 2008-09 taxpayers whose income includes earnings or other income taxed as earnings and with total taxable income below the basic rate limit.
- (5) Before 2010-11 taxpayers with total taxable income above the basic rate limit. From 2010-11 taxpayers with total taxable income between the basic rate limit and the higher rate limit.
- (6) Taxpayers with total taxable income above the higher rate limit.
- (7) Taxpayers aged 65 years or older for men and 60 years or older for women in 2009-10. The female State Pension Age is being increased gradually from April 2010 to be equalised with the male State Pension Age by November 2018. The female State Pension Age for the purposes of this table is 60.5 years in 2010-11, 61 years in 2011-12, 61.5 years in 2012-13, 62 years in 2013-14, 62.5 years in 2014-15 and 63 years in 2015-16.
- (8) Projected estimates based upon the 2012-13 Survey of Personal Incomes using economic assumptions consistent with the OBR's March 2015 economic and fiscal outlook.
- (9) Some UK taxpayers reside abroad, or region is not known (318,000 in 2012-13). The sum of taxpayer numbers across countries and regions in Table 2.2 therefore will not match UK total shown in Table 2.1.

# 2.4 Shares of total income (before and after tax) and income tax for percentile groups, 1999-00 to 2015-16

Taxpayers only Percentage Percentile Groups **Bottom Bottom** Top Тор Total (All (ranged on total income Taxpayers) before tax) £bn 1% 5% 10% 25% 50% 50% 25% 10% 5% 1% Share of Total Income Total Income Before Tax Before Tax 1999-00 0.2 1.3 2.8 8.9 23.8 76.2 53.4 32.9 23.3 11.0 533 2000-01 0.2 1.2 2.7 8.5 23.2 76.8 54.1 33.7 24.0 11.5 595 2001-02 0.2 1.2 2.7 8.6 23.4 76.6 53.9 33.4 23.7 11.1 612 2002-03 0.2 1.2 2.7 8.6 23.5 76.5 53.7 33.1 23.3 10.8 624 23.3 2003-04 0.2 1.2 2.7 76.7 33.3 23.6 625 8.5 53.9 11.0 2004-05 0.2 1.2 2.7 8.4 22.9 77.1 54.4 33.6 23.8 11.3 691 2005-06 0.2 1.2 2.6 8.3 22.4 77.6 55.3 34.8 25.1 12.2 756 22.2 2006-07 0.2 1.2 2.6 8.2 77.8 55.8 35.5 25.8 12.9 810 22.1 2007-08 0.2 1.1 2.5 8.1 77.9 56.1 36.0 26.4 13.4 870 2008-09 (a) 2009-10 0.2 1.3 2.8 8.7 22.9 77.1 55.5 35.8 26.4 13.9 869 2010-11 0.2 1.3 2.9 8.9 23.5 76.5 54.2 33.7 24.0 11.5 857 2011-12 0.3 1.4 3.1 9.2 23.8 76.2 54.1 33.8 24.2 11.5 886 2012-13 0.3 1.5 3.2 9.6 24.3 75.7 53.5 33.4 23.8 11.2 904 2013-14 (1) 0.3 1.6 3.4 9.8 24.4 75.6 53.9 34.4 25.1 12.9 935 2014-15 (1) 0.3 1.6 3.5 9.9 24.6 75.4 53.7 34.1 24.8 12.5 966 2015-16 (1) 0.3 1.6 3.5 10.0 24.7 75.3 53.6 34.1 24.8 12.5 996 After Tax After Tax 0.3 1999-00 1.5 3.4 10.2 26.4 73.6 50.0 29.3 19.9 8.8 440 2000-01 0.3 1.5 3.2 9.9 25.8 74.2 50.6 29.8 20.4 9.2 489 2001-02 0.3 1.5 3.2 26.0 74.0 50.3 29.5 20.0 8.9 505 9.9 2002-03 0.3 1.5 3.2 10.0 26.1 73.9 50.1 29.2 19.7 8.6 515 2003-04 0.3 1.4 3.2 9.8 25.9 74.1 50.4 29.5 20.1 8.9 514 2004-05 0.3 1.4 3.2 9.8 25.5 74.5 50.8 29.7 20.3 9.1 568 25.1 74.9 51.7 2005-06 0.3 1.4 3.1 9.6 30.8 21.3 9.9 618 24.9 75.1 52.1 22.0 10.5 2006-07 0.3 1.4 3.1 9.6 31.4 661 2007-08 0.2 3.1 24.8 75.2 52.4 22.5 10.9 708 1.4 9.5 31.8 2008-09 (a) 0.3 1.5 3.3 10.0 25.4 52.0 22.4 11.2 2009-10 74.6 31.6 716 2010-11 0.3 1.6 3.4 10.3 26.1 73.9 50.5 29.4 19.9 8.6 706 8.6 2011-12 0.3 1.7 3.6 10.7 26.6 73.4 50.1 29.2 19.8 731 2012-13 0.3 1.8 3.8 11.1 27.2 72.8 49.4 28.7 19.4 8.3 747 2013-14 (1) 0.4 1.9 4.0 11.4 27.4 72.6 49.6 29.4 20.4 9.7 773 2014-15 (1) 0.4 2.0 4.1 11.5 27.6 72.4 49.3 29.1 20.1 9.4 800 0.4 27.8 72.2 49.1 29.0 825 2015-16 (1) 2.0 4.1 11.6 20.1 9.4

2.4 Shares of total income (before and after tax) and income tax for percentile groups, 1999-00 to 2015-16

Continued Taxpayers only Percentage Bottom Top **Bottom** Top Total (All Percentile Groups (ranged on total income Taxpayers) before tax) £bn 1% 5% 10% 25% 50% 50% 25% 10% 5% 1% Share of Total Tax **Total Tax** 0.0 69.5 93 1999-00 0.1 0.3 2.4 11.6 88.4 50.3 39.6 21.3 2000-01 88.7 70.3 22.2 106 0.0 0.1 0.3 2.2 11.3 51.5 40.7 2001-02 0.0 0.1 0.3 2.2 11.1 88.9 70.8 51.9 40.8 21.8 107 2002-03 0.0 0.1 0.3 2.2 11.1 88.9 70.5 51.5 40.2 21.0 109 2003-04 0.0 0.1 0.3 2.2 11.2 88.88 70.1 50.9 39.8 20.8 111 2004-05 0.0 0.3 2.1 10.8 89.2 70.7 40.3 21.4 0.1 51.4 123 10.6 89.4 2005-06 0.0 0.1 0.3 2.1 71.5 52.9 41.9 22.7 138 0.0 0.3 2.1 10.5 89.5 71.8 2006-07 0.1 53.5 42.6 23.5 150 2007-08 0.0 0.1 0.3 2.1 10.4 89.6 72.2 54.3 43.4 24.4 163 \* \* \* \* \* \* \* \* \* \* \* 2008-09 (a) 2009-10 0.0 0.6 11.2 88.88 72.0 54.9 44.8 26.5 0.1 2.7 154 2010-11 0.0 0.1 0.5 2.7 11.3 88.7 71.3 53.5 43.3 25.0 152 2011-12 10.7 72.7 0.0 0.1 0.5 2.5 89.3 55.4 44.7 25.4 156 2012-13 0.0 0.1 0.5 2.5 10.6 89.4 73.0 55.8 44.8 25.1 157 2013-14 (1) 0.0 0.1 0.4 2.3 9.8 90.2 74.9 58.4 47.5 28.1 162 2014-15 (1) 0.0 0.1 0.4 2.3 9.8 90.2 74.9 58.3 47.2 27.3 167 2015-16 (1) 0.0 0.3 2.2 9.5 90.5 75.5 58.9 47.6 27.5 0.1 171

# Shares of total income (before and after tax) and income tax for percentile groups, 1999-00 to 2015-16

Continued Taxpayers only Percentage **Bottom Bottom** Top Top Percentile Groups Total (All (ranged on total income Taxpayers) before tax) £bn 1% 5% 10% 25% 50% 50% 25% 10% 5% 1% Amounts: £ Percentile points for total income before tax 1 5 10 25 50 75 90 95 99 Mean 1999-00 4,600 5,630 6,570 9,260 14,400 22,300 33,000 44,600 96.400 19,600 9,280 2000-01 4,620 5,520 6,480 14,800 23,000 34,200 46,700 102,000 20,300 2001-02 4,780 5,850 6,860 9,910 15,500 24,300 36,200 49,200 107,000 21,400 2002-03 4,860 5,960 6,970 10,000 15,800 24,700 36,700 49,800 108,000 21,600 2003-04 4,820 5,850 7,000 10,100 16,000 25,100 37,100 50,600 111,000 21,900 2004-05 4,980 6,070 7,260 10,300 16,400 26,100 39,000 52,400 117,000 22,800 2005-06 5,200 6,350 7,610 10,800 17,100 27,400 41,300 56,200 132,000 24,300 2006-07 11,200 17,700 25,500 5,410 6,600 7,880 28,400 42,900 58,500 141,000 2007-08 5.600 6.870 11.800 8.240 18,500 29.500 44.900 61.500 149.000 26.800 2008-09 (a) 2009-10 6,800 7,970 28,400 9,510 12,900 19,600 30,900 46,600 63,200 149,000 2010-11 6,730 7,830 9,350 12,700 19,500 30,900 46,300 62,600 140,000 27,400 2011-12 7,740 8,840 10,200 13,500 20,300 32,100 48,300 66,200 147,000 28,800 2012-13 21.000 8.370 9.570 10,900 14,200 32,900 49,200 67,900 150,000 29.600 2013-14 (1) 9,750 10,840 11,900 15,200 22,000 34,100 51,000 70,500 158,000 31,500 22.700 35,100 52,500 72,600 164,000 2014-15 (1) 10,310 11,300 12,300 15.700 32,400 2015-16 (1) 10,700 11,800 12,900 16,300 23,500 36,300 54,200 74,900 170,000 33,500

Source: Survey of Personal Incomes Table updated May 2015

### Key

\* not available

- negligible

### Footnotes for table 2.4

- (a) Figures for 2008-09 tax year are not currently available.
- (1) Projected estimates based upon the 2012-13 Survey of Personal Incomes using economic assumptions consistent with the OBR's March 2015 economic and fiscal outlook.

### 2.5 Income tax liabilities, by Income Range, 2012-13 to 2015-16

			·				2012-13	3		·		·			·
												ı	Numbers: thous	sands; Amoui	nts: £ millio
Range of												Total		Average	Averag
total income	Starting ra	ite (1)	"Savers" ra	ate (2)	Basic rate	e (3)	Higher ra	te (4)	Additional r	ate (5)	All	income of		rate of	amount o
(low er limit)	taxpaye	ers	taxpaye	ers	taxpaye	ers	taxpaye	ers	taxpaye	ers	taxpayers	taxpayers	Tax liability	tax	tax
£	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount	%	£
8,105 (a)	106	7	61	4	1,790	327					1,960	17,600	337	1.9	172
10,000	139	18	150	50	6,400	4,630			_		6,690	83,700	4,700	5.6	703
15,000	9	6	106	97	5,590	9,350					5,700	99,200	9,450	9.5	1,660
20,000	7	10	135	231	7,070	21,700					7,210	177,000	21,900	12.4	3,040
30,000	9	25	176	531	4,830	25,300	1,070	8,130			6,080	231,000	34,000	14.7	5,590
50,000			3	8	20	112	2,220	33,100			2,250	149,000	33,200	22.3	14,800
100,000					1	3	394	14,300			394	47,200	14,300	30.3	36,200
150,000			**		-	1	27	1,220	107	6,490	135	23,000	7,710	33.5	57,000
200,000							3	87	131	14,700	134	38,500	14,800	38.3	110,000
500,000									24	6,890	24	16,300	6,900	42.2	287,000
1,000,000			**						8	4,540	8	10,400	4,540	43.6	597,000
2,000,000+	·		•	•		•			3	5,380	3	12,400	5,380	43.2	1,810,000
All Ranges	270	66	630	922	25,700	61,400	3,720	56,800	273	38,000	30,600	904,000	157,000	17.4	5,140

In 2012-13 earnings is taxable at 20 percent up to the Higher Rate Threshold (HRT) of £42,475, 40 percent up to the Higher Rate Limit (HRL) of £150,000 and 50 percent over the HRT. Savings income is taxable at 10 percent up to the Starting Rate Limit (SRL) of £2,710 above the PA, 20 percent up to the HRT, 40 percent up to the HRL and 50 percent over the HRT. Dividend is taxable at 10 percent up to the HRT, 32.5 percent up to the HRL and 42.5 percent above HRL.

See Bulletin for more details on income tax calculations - Annex A: Context and Background information.

2.5 Income tax liabilities, by Income Range, 2012-13 to 2015-16

							2013-14	(6)							
													Numbers: thous	sands; Amou	nts: £ million
Range of total income (lower limit)	Starting ra	• •	"Savers" ra taxpayı		Basic rat taxpaya	` '	Higher ra taxpaya	• ,	Additional ı taxpaye	` '	All taxpayers	Total income of taxpayers	Tax liability	Average rate of tax	Average amount of tax
£	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount	%	£
9,440 (a)	47	1	29	1	451	35					526	5,000	38	0.8	72
10,000	183	20	161	40	6,330	3,400					6,670	83,600	3,460	4.1	518
15,000	8	5	123	101	5,620	8,290			÷		5,750	100,000	8,390	8.4	1,460
20,000	6	8	159	253	7,190	20,500			÷		7,350	180,000	20,700	11.5	2,820
30,000	5	13	156	425	4,640	22,800	1,450	10,400	•		6,260	238,000	33,700	14.2	5,380
50,000			2	5	16	76	2,350	34,600			2,370	156,000	34,700	22.2	14,600
100,000							413	14,900			413	49,300	14,900	30.3	36,100
150,000							28	1,290	93	5,730	121	21,000	7,020	33.4	57,800
200,000							1	26	150	16,400	151	44,300	16,400	37.0	109,000
500,000									27	7,480	27	19,000	7,480	39.4	274,000
1,000,000									10	5,370	10	13,500	5,370	39.8	530,000
2,000,000+									5	10,200	5	25,400	10,200	40.1	1,900,000
All Ranges	249	48	630	825	24,200	55,100	4,250	61,200	286	45,100	29,700	935,000	162,000	17.4	5,480

In 2013-14 Earnings is taxable at 20 percent up to the Higher Rate Threshold (HRT) of £41,450, 40 percent up to the Higher Rate Limit (HRL) of £150,000 and 45 percent over the HRT. Savings income is taxable at 10 percent up to the Starting Rate Limit (SRL) of £2,790 above the PA, 20 percent up to the HRT, 40 percent up to the HRL and 45 percent over the HRT. Dividend is taxable at 10 percent up to the HRT, 32.5 percent up to the HRL and 37.5 percent above HRL.

See Bulletin for more details on income tax calculations - Annex A: Context and Background information.

2.5

### Income tax liabilities, by Income Range, 2012-13 to 2015-16

continued

_						•	2014-15	(6)						•	
													Numbers: thou	sands; Amou	nts: £ million
Range of total income (lower limit)	Starting ra taxpaye	` '	"Savers" ra taxpay	. ,	Basic rat taxpaye	• •	Higher ra taxpay	. ,	Additional I	` /	All taxpayers	Total income of taxpayers	Tax liability	Average rate of tax	Average amount of tax
£	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount	%	£
10,000 (a)	186	18	178	34	6,250	2,930					6,610	83,000	2,980	3.6	450
15,000	8	5	119	90	5,640	7,860					5,760	100,000	7,950	7.9	1,380
20,000	7	8	161	245	7,390	20,400					7,560	185,000	20,600	11.2	2,730
30,000	5	11	157	414	4,930	23,900	1,460	10,300			6,560	250,000	34,700	13.9	5,290
50,000			2	5	16	81	2,530	36,600			2,550	168,000	36,700	21.9	14,400
100,000							444	16,000			445	52,900	16,000	30.2	36,000
150,000							30	1,390	107	6,570	137	23,800	7,950	33.5	58,000
200,000							1	18	161	17,400	161	47,100	17,400	37.0	108,000
500,000									29	7,830	29	19,900	7,830	39.4	273,000
1,000,000									10	5,640	11	14,200	5,640	39.7	537,000
2,000,000+									5	8,830	5	22,500	8,830	39.3	1,840,000
All Ranges	205	42	618	788	24,200	55,200	4,470	64,300	312	46,300	29,800	966,000	167,000	17.2	5,590

In 2014-15 earnings is taxable at 20 percent up to the Higher Rate Threshold (HRT) of £41,865, 40 percent up to the Higher Rate Limit (HRL) of £150,000 and 45 percent over the HRT. Savings income is taxable at 10 percent up to the Starting Rate Limit (SRL) of £2,880 above the PA, 20 percent up to the HRT, 40 percent up to the HRL and 45 percent over the HRT. Dividend is taxable at 10 percent up to the HRT, 32.5 percent up to the HRL and 37.5 percent above HRL.

See Bulletin for more details on income tax calculations - Annex A: Context and Background information.

							2015-16	(6)							
													Numbers: thou	sands; Amour	nts: £ million
Range of total income (lower limit)	Starting ra taxpaye		"Savers" ra taxpaye	` ,	Basic rat taxpaya		Higher ra taxpayı	. ,	Additional ı taxpaye	` '	All taxpayers	Total income of taxpayers	Tax liability	Average rate of tax	Average amount of tax
£	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount	%	£
10,600 (a)	-		204	24	5,610	2,250				-	5,820	74,300	2,270	3.1	391
15,000			128	72	5,640	7,160				-	5,760	100,000	7,230	7.2	1,250
20,000	-		183	245	7,540	19,900				•	7,730	189,000	20,100	10.6	2,600
30,000	-		173	434	5,230	24,900	1,430	9,930		•	6,830	261,000	35,200	13.5	5,160
50,000			2	5	17	84	2,720	38,500		•	2,730	180,000	38,600	21.5	14,100
100,000							473	16,900		•	473	56,300	16,900	30.0	35,800
150,000							32	1,470	115	7,060	147	25,500	8,530	33.5	58,100
200,000							1	21	170	18,400	171	49,800	18,400	37.0	108,000
500,000									30	8,240	30	20,900	8,240	39.4	271,000
1,000,000			-						11	5,990	11	15, 100	5,990	39.7	535,000
2,000,000+									5	9,430	5	23,800	9,430	39.7	1,850,000

In 2015-16 earnings is taxable at 20 percent up to the Higher Rate Threshold (HRT) of £42,385, 40 percent up to the Higher Rate Limit (HRL) of £150,000 and 45 percent over the HRT.

54,200

24,000

Savings income is taxable at 0 percent up to the Starting Rate Limit (SRL) of £5,000 above the PA, 20 percent up to the HRT, 40 percent up to the HRL and 45 percent over the HRT.

780

Dividend is taxable at 10 percent up to the HRT, 32.5 percent up to the HRL and 37.5 percent above HRL.

691

See Bulletin for more details on income tax calculations - Annex A: Context and Background information.

Source: Survey of Personal Incomes

Table updated May 2015

4.650

66,900

332

49,100

29,700

996,000

171,000

17.2

5,760

### Key

. not applicable / zero

All Ranges

- .. not available or sample size too small to produce a reliable estimate
- negligible

#### Footnotes for table 2.5

- (1) Taxpayers with no taxable earnings and total taxable income from savings below the starting rate limit. From 2015-16 the starting rate of tax for savings income has been reduced from 10% to 0%, and the starting rate limit has been increased to £5,000.
- (2) Taxpayers with no taxable earnings and total taxable income from savings between the starting rate limit and the basic rate limit and/or dividends at the 10p ordinary rate.
- (3) Taxpayers whose income includes earnings or other income taxed as earnings and with total taxable income below the basic rate limit.
- (4) Taxpayers with total taxable income between the basic rate limit and the higher rate limit.
- (5) Taxpayers with total taxable income above the higher rate limit.
- (6) Projected estimates based upon the 2012-13 Survey of Personal Incomes using economic assumptions consistent with the OBR's March 2015 economic and fiscal outlook.
- (a) Can include some taxpayers who are not entitled to a Personal Allow ance whose total income can be less than the Personal Allow ance of £8,105 for 2012-13 (see Annex B: Data sources and methodology). From 2015-16, this will also include individuals whos Personal Allow ance is reduced and therefore become taxpayers as an impact of the Marriage Allow ance (see Annex B: Data sources and methodology).

### **2.6** Income tax liabilities, by income source and tax band, 2012-13 to 2015-16

<b>2012-13</b> Amounts: £ million									
	Starting rate (1)	"Savers" rate (2)	Basic rate (3)	Higher rate (4) Ac	dditional rate (5)				
	taxpayers	taxpayers	taxpayers	taxpayers	taxpayers	All taxpayers			
Tax liability after allow ances given									
as income tax reductions (6)									
Tax on Earnings:									
Basic rate			59,900	23,300	1,780	84,900			
Higher rate				28,000	11,200	39,300			
Additional rate					20,900	20,900			
Tax on Savings:									
Starting rate	22	31	39	6	-	99			
Basic rate		124	712	232	19	1,090			
Higher rate				825	210	1,030			
Additional rate					700	700			
Tax on Dividends:									
Ordinary rate	44	766	752	951	21	2,530			
Higher rate				3,460	744	4,210			
Additional rate					2,320	2,320			
Allow ances given as tax reductions	-	38	296	335	1,090	1,760			
Tax liability after allow ances given as income tax reduction	66	922	61,400	56,800	38,000	157,000			
Average Rate of Tax %	2.1	6.4	11.3	22.8	39.8	17.4			
Average amount of tax £	245	1,460	2,390	15,300	139,000	5,140			

 $\bf 2.6$  Income tax liabilities, by income source and tax band, 2012-13 to 2015-16

<b>2013-14</b> (7)									
	Amounts: £ mill								
	Starting rate (1) taxpayers	"Savers" rate (2) taxpayers	Basic rate (3) taxpayers	Higher rate (4) taxpayers	Additional rate (5) taxpayers	All taxpayers			
Tax liability after allowances given as income tax reductions (6)									
Tax on Earnings:									
Basic rate			53,900	24,400	1,730	80,000			
Higher rate				30,700	12,000	42,700			
Additional rate					24,900	24,900			
Tax on Savings:									
Starting rate	20	29	39	7	-	96			
Basic rate		113	660	235	18	1,030			
Higher rate				883	209	1,090			
Additional rate					666	666			
Tax on Dividends:									
Ordinary rate	28	682	521	1,230	21	2,480			
Higher rate				3,820	839	4,660			
Additional rate					4,740	4,740			
Allowances given as tax reductions	-	39	256	358	1,190	1,840			
Tax liability after allowances given as income tax reduction	48	825	55,100	61,200	45,100	162,000			
Average Rate of Tax %	1.6	5.8	10.5	22.2	38.1	17.4			
Average amount of tax £	193	1,310	2,270	14,400	158,000	5,480			

 $\bf 2.6$  Income tax liabilities, by income source and tax band, 2012-13 to 2015-16

continued

		2014-1	<b>5</b> (7)			
					An	nounts: £ million
	Starting rate (1) taxpayers	"Savers" rate (2) taxpayers	Basic rate (3) taxpayers	Higher rate (4) taxpayers	Additional rate (5) taxpayers	All taxpayers
Tax liability after allowances given as income tax reductions (6)						
Tax on Earnings:						
Basic rate			54,100	25,500	1,880	81,400
Higher rate				32,400	13,000	45,400
Additional rate					25,200	25,200
Tax on Savings:						
Starting rate	17	24	36	6	-	84
Basic rate		90	576	191	15	872
Higher rate				760	179	939
Additional rate		•			575	575
Tax on Dividends:						
Ordinary rate	25	674	510	1,360	25	2,590
Higher rate				4,140	1,000	5,140
Additional rate					4,390	4,390
Allowances given as tax reductions	-	36	227	365	1,280	1,910
Tax liability after allowances given as income tax reduction	42	788	55,200	64,300	46,300	167,000
Average Rate of Tax %	1.7	5.6	10.3	22.0	37.9	17.2
Average amount of tax £	205	1,270	2,280	14,400	148,000	5,590

**2.6** Income tax liabilities, by income source and tax band, 2012-13 to 2015-16

continued

20	1	E ,	10		
ZU	"	<b>J-</b>	ľC	(7)	ı

Amounts: £ million

	Starting rate (1) taxpayers	"Savers" rate (2) taxpayers	Basic rate (3) taxpayers	Higher rate (4) taxpayers	Additional rate (5) taxpayers	All taxpayers
Tax liability after allowances given as income tax reductions (6)						
Tax on Earnings:						
Basic rate			53,200	26,300	1,990	81,500
Higher rate				33,600	13,800	47,400
Additional rate					26,600	26,600
Tax on Savings:						
Starting rate						
Basic rate		61	504	184	15	765
Higher rate				773	187	960
Additional rate					599	599
Tax on Dividends:						
Ordinary rate		719	484	1,460	30	2,700
Higher rate				4,530	1,170	5,700
Additional rate					4,790	4,790
Allowances given as tax reductions		37	198	381	1,350	1,970
Tax liability after allowances given		780	54,200	66,900	49,100	171,000
as income tax reduction						
Average Rate of Tax %		5.0	10.0	21.8	37.9	17.2
Average amount of tax £		1,130	2,260	14,400	148,000	5,760

Source: Survey of Personal Incomes.

Table updated May 2015

# Key

- negligible
- . not applicable / zero

#### Footnotes for table 2.6

- (1) Taxpayers with no taxable earnings and total taxable income from savings below the starting rate limit. From 2015-16 the starting rate of tax for savings income has been reduced from 10% to 0%, and the starting rate limit has been increased to £5,000.
- (2) Taxpayers with no taxable earnings and total taxable income from savings between the starting rate limit and the basic rate limit and/or dividends at the 10p ordinary rate.
- (3) Taxpayers whose income includes earnings or other income taxed as earnings and with total taxable income below the basic rate limit.
- (4) Taxpayers with total taxable income between the basic rate limit and the higher rate limit.
- (5) Taxpayers with total taxable income above the higher rate limit.
- (6) In this context tax reductions refer to allow ances given at a fixed rate, for example the Married Couples Allow ance.
- (7) Projected estimates based upon the 2012-13 Survey of Personal Incomes using economic assumptions consistent with the OBR's March 2015 economic and fiscal outlook.

# **SECTION B: Illustrative Tax Burdens**

Section B provides details of some of the key illustrative statistics presented in the Table 2.7.

# Table 2.7 – Income tax (net of tax credits) as a per cent of gross earnings for specimen families, 1990-91 to 2015-16

https://www.gov.uk/government/statistics/percentage-of-earnings-paid-in-income-tax

Table 2.7 shows how income tax burdens (tax due as percent of gross earnings) have evolved over time for a range of illustrative families with a single wage earner at specific earnings levels across the earnings distribution. From 1999-00, income tax burdens take account of the financial support families receive in the form of tax credits, and are shown for single persons, and couples with and without children.

Tax burden (%) 30 20 10  $\cap$ -10 -20 -30 -40 -50 £388 £544 £649 £766 £1,069 £303 10th 25th 50th 75th 90th mean **Gross Weekly Earnings & Percentile** Childless single ■ Childless couple ■ Couple with two children

Figure 9: Income tax (net of tax credits) as a per cent of gross earnings, 2015-16

#### Tax burden

In 2013-14, the latest tax year for which earnings outturns are available, childless single persons with gross earnings at the 10th percentile of the earnings distribution had an estimated income tax burden of 7.4% of gross earnings. This increases to 13.0% at the median (50th percentile) and 20.9% at the 90th percentile. For childless couples, the tax burden is the same except for those at the 10th percentile who would still be entitled to Working Tax Credit (WTC) in 2013-14, which reduces their net income tax burden to -0.5%. This figure becomes negative for the first time due to the large above indexation increase in the personal allowance in 2013-14. Childless single people also qualify for WTC but only receive support at earnings levels below those shown in the table.

A couple with two children is eligible for WTC and Child Tax Credit (CTC). CTC extends much further up the income scale than WTC, reducing tax burdens for a couple with two

children at incomes up to and including mean earnings. At the 10th percentile the amount of CTC and WTC received in 2013-14 significantly exceeds income tax liabilities due, giving a net tax burden of -40.6% of gross earnings. As the child element of tax credits is withdrawn at higher earnings levels, the difference in tax burdens for couple families with and without children steadily falls. At mean earnings, the CTC family element only is received, reducing the income tax burden for the two child family from 14.1% to 13.9%.

Income tax burdens for childless single persons generally declined in 2013-14 compared with the previous year, by 0.9 percentage points at median earnings, and by more for lower earners. This was due to the £1,335 cash increase in the personal allowance to £9,440 in 2013-14. The tax burden increased slightly to 20.9% for the illustrative high earner at the 90th earnings percentile, reflecting increased higher rate tax paid due to rising earnings against the unchanging higher rate threshold.

Changes in tax burdens in 2013-14 for single earner childless couples were the same as those for single persons, except at the 10th earnings percentile, where reductions in WTC relative to earnings give a lower overall reduction in the net tax burden for childless couples. For couples with two children up to the 90th earnings percentile, net tax burdens fell compared with 2012-13, despite decreases in the CTC child element.

Projections for 2015-16 show income tax burdens declining further for most families without children, reflecting large cash increases in the personal allowance to £10,600, notwithstanding some recovery in projected earnings growth. The tax burden for single earner families without children is expected to fall by 0.4 percentage points at median earnings.

For lower earning families with children, net tax burdens are projected to increase slightly for those below median earnings in 2015-16, as the reduction in the income tax burden does not quite offset the freeze in most tax credit rates relative to earnings. Above that level, tax effects dominate so those above the mean earnings group in the 75th percentile group and those in the 90th percentile see their net tax burden fall.

#### **Interpreting Table 2.7**

Table 2.7 is different from the other tables in this release. The tax burdens are shown for hypothetical or illustrative families with given circumstances and earnings, and since 1999-00 take account of financial support received through the tax credit system. Tax credit entitlements exceed income tax liabilities in some cases leading to negative estimated tax burdens. SPI survey data is not used in constructing the table.

These illustrative families are not designed to represent the overall UK taxpaying population, whose family circumstances and incomes vary widely. Earnings levels assumed in the table are derived from the Office for National Statistic's Annual Survey of Hours and Earnings, with latest available outturn data for April 2014. Outturns for tax burdens therefore are published to 2013-14, with projections for 2015-16.

# 2.7 Income tax (net of tax credits) as a per cent of gross earnings for specimen families, 1990-91 to 2014-15

		Pos	tion in earnings	(1) distribution	on	
Per cent of gross earnings	10 <sup>th</sup>	25 <sup>th</sup>	50 <sup>th</sup>		75 <sup>th</sup>	90 <sup>th</sup>
	percentile	Percentile	Percentile	mean	percentile	Percentile
1990-91						
Gross earnings (£ weekly)	133.6	172.9	238.2	273.9	328.2	439.2
Tax burden (per cent of gross earnings)						
Single	14.2	16.6	18.9	19.7	20.6	21.7
Married (2)	8.0	11.9	15.5	16.7	18.1	19.8
1991-92						
Gross earnings (£ weekly)	143.7	185.7	255.8	294.7	354.1	473.1
Tax burden (per cent of gross earnings)						
Single	14.0	16.5	18.8	19.6	20.5	21.7
Married (2)	8.2	12.0	15.6	16.8	18.2	19.9
1992-93						
Gross earnings (£ weekly)	150.6	195.2	269.0	310.8	373.6	499.5
Tax burden (per cent of gross earnings)						
Single	12.7	15.5	18.1	19.1	20.1	21.3
Married (2)	7.2	11.3	15.1	16.4	17.8	19.6
1993-94						
Gross earnings (£ weekly)	155.6	201.5	277.6	321.3	385.3	517.0
Tax burden (per cent of gross earnings)						
Single	12.8	15.6	18.2	19.1	20.1	21.3
Married (2)	7.5	11.5	15.2	16.5	17.9	19.7
1994-95						
Gross earnings (£ weekly)	159.2	207.0	286.1	331.0	396.5	533.5
Tax burden (per cent of gross earnings)						
Single	12.8	15.6	18.2	19.1	20.1	21.7
Married (2)	8.6	12.4	15.9	17.1	18.4	20.4
1995-96						
Gross earnings (£ weekly)	163.5	213.8	295.7	343.9	411.9	556.3
Tax burden (per cent of gross earnings)						
Single	12.8	15.6	18.2	19.2	20.1	22.0
Married (2)	9.7	13.3	16.6	17.7	18.9	21.1
1996-97						
Gross earnings (£ weekly)	171.1	223.0	308.0	359.6	428.9	580.1
Tax burden (per cent of gross earnings)	40.4	440	47.4	40.0	40.0	04.0
Single Married (2)	12.1 9.1	14.9 12.5	17.4 15.7	18.3 16.9	19.2 18.0	21.0 20.1

2.7 Income tax (net of tax credits) as a per cent of gross earnings for specimen families, 1990-91 to 2014-15

			ition in earnings	(1) distribution		4b
	10 <sup>th</sup>	25 <sup>th</sup>	50 <sup>th</sup>		75 <sup>th</sup>	90 <sup>th</sup>
	percentile	Percentile	Percentile	mean	percentile	Percentile
1997-98						
Gross earnings (£ weekly)	178.8	232.1	320.8	376.1	446.6	604.3
Tax burden (per cent of gross earnings)						
Single	11.7	14.3	16.7	17.6	18.5	20.3
Married (2)	8.7	12.0	15.0	16.2	17.3	19.5
1998-99						
Gross earnings (£ weekly)	186.2	241.2	332.7	392.3	465.0	631.8
Tax burden (per cent of gross earnings)						
Single	11.7	14.3	16.7	17.6	18.5	20.5
Married (2)	8.8	12.0	15.0	16.2	17.3	19.6
1999-2000						
Gross earnings (£ weekly)	194.1	251.0	346.0	409.9	483.9	659.2
Tax burden (per cent of gross earnings)						
Single	11.2	13.9	16.4	17.4	18.3	20.5
Married (2)	9.2	12.4	15.3	16.5	17.5	19.9
With two children	-23.1	-4.3	13.3	16.5	17.5	19.9
2000-01						
Gross earnings (£ weekly)	202.6	261.7	361.7	432.0	506.8	697.7
Tax burden (per cent of gross earnings)						
Childless	11.1	13.6	15.9	16.9	17.6	20.6
With two children	-25.3	-6.2	11.9	16.9	17.6	20.6
2001-02						
Gross earnings (£ weekly)	211.3	272.5	376.8	454.5	529.6	737.3
Tax burden (per cent of gross earnings)						
Childless	10.9	13.4	15.8	16.8	17.6	20.9
With two children	-27.6	-8.1	10.6	14.6	15.7	20.3
2002-03						
Gross earnings (£ weekly)	218.6	283.6	397.5	479.6	562.2	781.0
Tax burden (per cent of gross earnings)						
Childless	11.0	13.6	16.0	17.0	17.7	21.6
With two children	-27.3	-7.4	11.7	14.9	15.9	21.3
2003-04						
Gross earnings (£ weekly)	226.5	293.1	411.8	492.9	581.8	804.8
Tax burden (per cent of gross earnings)						
Childless single	11.4	13.8	16.2	17.1	17.9	21.9
Childless couple	1.6	13.8	16.2	17.1	17.9	21.9
With two children	-27.5	-7.9	11.4	15.0	16.1	20.6

2.7 Income tax (net of tax credits) as a per cent of gross earnings for specimen families, 1990-91 to 2014-15

			tion in earnings	(1) distribution		
	10 <sup>th</sup>	25 <sup>th</sup>	50 <sup>th</sup>		75 <sup>th</sup>	90 <sup>th</sup>
	percentile	Percentile	Percentile	mean	percentile	Percentile
2004-05						
Gross earnings (£ weekly)	232.8	301.8	425.4	507.8	601.6	833.0
Tax burden (per cent of gross earnings)						
Childless single	11.4	13.8	16.2	17.1	17.9	22.0
Childless couple	1.9	13.8	16.2	17.1	17.9	22.0
With two children	-29.5	-9.3	10.5	15.1	16.1	20.7
2005-06						
Gross earnings (£ weekly)	240.5	312.3	440.9	528.6	626.1	869.7
Tax burden (per cent of gross earnings)						
Childless single	11.4	13.8	16.2	17.2	17.9	22.2
Childless couple	2.0	13.8	16.2	17.2	17.9	22.2
With two children	-29.4	-9.1	10.7	15.2	16.2	21.0
2006-07						
Gross earnings (£ weekly)	248.2	321.0	451.6	543.7	641.0	896.1
Tax burden (per cent of gross earnings)						
Childless single	11.4	13.8	16.2	17.2	17.9	22.3
Childless couple	2.5	13.8	16.2	17.2	17.9	22.3
With two children	-29.0	-9.1	10.6	15.2	16.3	21.1
2007-08						
Gross earnings (£ weekly)	257.4	332.1	468.1	562.3	663.3	927.0
Tax burden (per cent of gross earnings)						
Childless single	11.4	13.8	16.2	17.2	17.9	22.2
Childless couple	3.1	13.8	16.2	17.2	17.9	22.2
Couple with two children	-28.5	-8.9	10.8	15.3	16.3	21.1
2008-09						
Gross earnings (£ weekly)	266.2	343.0	483.7	580.8	684.5	958.9
Tax burden (per cent of gross earnings)						
Childless single	11.3	13.2	15.2	16.0	16.6	21.2
Childless couple	1.1	13.2	15.2	16.0	16.6	21.2
Couple with two children	-32.9	-12.3	8.4	14.2	15.1	20.1
2009-10						
Gross earnings (£ weekly)	273.2	351.1	493.8	592.8	699.1	977.6
Tax burden (per cent of gross earnings)						
Childless single	10.9	12.9	15.0	15.8	16.4	20.2
Childless couple	0.4	12.9	15.0	15.8	16.4	20.2
Couple with two children	-34.9	-14.1	7.0	14.0	14.9	19.2

Income tax (net of tax credits) as a per cent of gross earnings for specimen families, 1990-91 to 2015-16

2.7 continued

			ion in earnings	(1) distribut	ion	
	10 <sup>th</sup>	25 <sup>th</sup>	50 <sup>th</sup>		75 <sup>th</sup>	90 <sup>th</sup>
	percentile	Percentile	Percentile	mean	percentile	Percentile
2010-11						
Gross earnings (£ w eekly)	276.0	354.3	498.6	600.6	706.9	991.4
Tax burden (per cent of gross earnings)						
Childless single	11.0	13.0	15.0	15.9	16.5	20.5
Childless couple	0.4	13.0	15.0	15.9	16.5	20.5
Couple w ith two children	-35.5	-14.6	6.7	14.1	15.0	19.6
2011-12						
Gross earnings (£ w eekly)	279.2	357.0	502.2	605.4	711.6	1,000.2
Tax burden (per cent of gross earnings)						
Childless single	9.7	11.9	14.3	15.3	16.0	20.8
Childless couple	0.5	11.9	14.3	15.3	16.0	20.8
Couple w ith two children	-38.5	-16.8	5.7	13.5	14.5	20.8
2012-13						
Gross earnings (£ w eekly)	284.8	364.1	511.8	614.0	722.0	1,011.0
Tax burden (per cent of gross earnings)						
Childless single	9.1	11.4	13.9	14.9	15.7	20.
Childless couple	0.8	11.4	13.9	14.9	15.7	20.8
Couple with two children	-39.3	-17.4	5.2	14.5	15.7	20.8
2013-14						
Gross earnings (£ weekly)	287.7	369.0	517.7	620.2	730.9	1,022.2
Tax burden (per cent of gross earnings)						
Childless single	7.4	10.2	13.0	14.1	15.0	20.9
Childless couple	-0.5	10.2	13.0	14.1	15.0	20.9
Couple with two children	-40.6	-18.2	4.5	13.9	15.0	20.9
2014-15 (3)						
Gross earnings (£ weekly)	295.2	378.5	530.5	634.3	747.9	1,045.0
Tax burden (per cent of gross earnings)						
Childless single	7.0	9.8	12.7	13.9	14.9	20.9
Childless couple	0.0	9.8	12.7	13.9	14.9	20.9
Couple with two children	-39.5	-17.4	5.1	13.9	14.9	20.9
2015-16 (3)						
Gross earnings (£ weekly)	303.1	388.4	543.9	649.1	765.7	1,068.9
Tax burden (per cent of gross earnings)						
Childless single	6.5	9.5	12.5	13.7	14.7	20.9
Childless couple	0.5	9.5	12.5	13.7	14.7	20.9
Couple with two children	-38.3	-16.5	5.7	13.7	14.7	20.9

#### Footnotes for table 2.7

- (1) Gross weekly earnings (Annual Survey of Hours and Earnings). Earnings are for full-time employee jobs (male and female) on adult rates with pay unaffected by absence.
- (2) Married partner calculation assumes that the person is claiming the full Married Couple's Allow ance.
- (3) Earnings projections based on Annual Survey of Hours and Earning (ASHE) data to April 2014, and earnings growth assumptions consistent with the OBR's March 2015 economic and fiscal outlook.

# Annex A: Context and background information

### Income tax

An overview of income tax is available on the gov.uk website: https://www.gov.uk/income-tax

Income tax is an annual tax on individuals' income arising in a given tax year (6th April to the 5th April the following year). It is the UK Government's largest single source of tax revenue, with income tax receipts net of tax credits contributing £157.7 billion to total current receipts of £624.1 billion in 2013-14.

Since April 1990, the UK has had a system of independent taxation. This means that the tax liability for each taxpayer is based solely on their own income and circumstances, and the income of spouses or partners or other family members in general has no effect on the total tax paid.

The exception to this is for married couples or civil partnerships that are living together where at least one spouse or partner was born before 6th April 1935, who can still claim Married Couples Allowance (MCA).

A new Marriage Allowance is available from 2015-16, allowing the transfer of £1,060 (10%) of the tax free personal allowance between couples who are married or in civil partnerships, were born after 6th April 1935 and one partner has an annual income of £10,600 or less, plus up to £5,000 of tax-free savings interest and the other partner's annual income is between £10,601 and £42,385.

https://www.gov.uk/marriage-allowance

Most sources of income are liable for income tax including earnings from employment and from self-employment, most pensions income (state, occupational and personal), interest on most savings, income from shares (dividends), rental income and income paid from trusts, and some social security benefits. Employees who receive non-cash benefits from their employers such as company cars, fuel, medical insurance, living accommodation or loans also pay tax on these benefits. Adding all these sources together will give an individual's total income assessable for tax, an aggregate that appears in several ITLS tables.

Some sources of income are not liable for tax including certain social security benefits, Child and Working Tax Credits, and income from tax exempt savings accounts (e.g. Individual Savings Accounts and some National Savings & Investment products): <a href="https://www.gov.uk/income-tax">https://www.gov.uk/income-tax</a>

Most individuals resident in the UK for tax purposes receive a tax free or 'personal allowance' (PA), which is an amount of income they can receive each year tax-free. In 2015-16, the basic PA is £10,600 for individuals born after 5 April 1938. Individuals born before 6 April 1938 (previously those 75 and over) still receive a higher allowances of £10,660, although this is reduced by £1 for every £2 above the income limit of £27,700. All individuals, regardless of age, with an income above £100,000 have their allowance reduced by £1 for every £2 of the excess until it is withdrawn completely. People who are registered as blind in England and Wales, or who in Scotland and Northern Ireland cannot do any work for which eyesight is essential, can claim Blind Person's Allowance.

Income tax is due only on taxable income above an individual's personal allowance. Even then, there are other reliefs and allowances that can reduce an individual's tax bill. Tax

reliefs are available on contributions to pension schemes and donations to charities. Employees and Directors may also receive tax relief on business expenses they have paid for. There are other allowances and reliefs that can reduce tax bills such as MCA described above. Unlike personal allowances, these are not amounts of income that can be received tax-free; rather they are amounts that may be deducted from any tax bill due.

Once tax-free allowances have been taken into account, income tax due is calculated using different tax rates for specific types of income across a series of tax bands. There are three different sources of income for tax purposes:

- income other than savings and dividends, often referred to informally as "earnings", which includes earnings from employment, but also profits from self-employment, pension income, taxable benefits and rental income
- savings income (e.g. bank and building society interest)
- dividends (e.g. income from shares in UK companies)

These sources are taxed at one of the main rates of income tax shown in the table below (the basic rate, the higher rate and, from 2010-11, the additional rate). Income tax works on a 'stack' basis. This means that earnings are taxed first, then savings and finally dividend income is taxed last. This means, for example, that if an individual has earnings after allowances sufficient to completely fill the basic rate tax band, all savings or dividends income would be charged at the higher (or additional) rates of tax.

Table 1: Income tax rates 2015-16 by type of income and tax band

Source	Starting rate for savings <sup>1</sup>	Basic rate	Higher rate	Additional rate
Taxable	_		£31,786 -	More than
income after allowances	£0 - £5,000	£0 - £31,785	£150,000	£150,000
Earnings <sup>2</sup>	-	20%	40%	45%
Savings	0%	20%	40%	45%
Dividends <sup>3</sup>	-	10%	32.5%	37.5%

<sup>1</sup> The starting rate for savings is a special rate of tax for savings income only. It is only available to the extent that the individual's taxable income from earnings does not exceed the starting rate limit.

Note that a non-reclaimable dividend tax credit exists that satisfies the 10% tax liability due on grossed dividends at the basic rate (or 10% of liabilities due on dividends at higher rates). In that sense, tax rates effectively paid by individuals themselves are lower than shown in the table above (e.g. 0% for grossed dividends in the basic rate band). Irrespective of how such liabilities are satisfied, liabilities on dividends at 10% or higher rates still arise for all individuals with dividends income exceeding the personal allowance. For this reason, in this release statistics on individuals' dividends tax and therefore total tax liabilities, in turn partly determining estimated taxpayer numbers, are compiled on a "liabilities basis", i.e. gross of (i.e. before) the dividends tax credit discussed above.

<sup>2</sup> Includes all taxable income not defined as savings or dividend income.

<sup>3</sup> Dividends are paid with a non-reclaimable 10 per cent tax credit that satisfies the 10% liability for dividends.

A series of example tax calculations using 2015-16 rates and allowances are provided in table 2 below:

Table 2: Examples of tax liability calculations for 2015-161

Example 1: Individual born after 6 April 1938 with earnings only

Tax allowance 10,600

	income:		income a	income after allowance at:			income tax liabilities at:		
	before allowance	after allowance	starting rate	basic rate	higher rate	starting rate	basic rate	higher rate	Total liabilities
Earnings	50,000	39,400	-	31,785	7,615	-	@20% = 6357	@40% = 3046	9,403
Savings	0	0	0	0	0	0	0	0	0
Dividends	0	0	-	0	0	-	0	0	0
Total	50,000	39,400	0	31,785	7,615	0	6,357	3,046	9,403

Example 2: Individual born after 6 April 1938 with earnings, savings and dividends

Tax allowance 10,600

	income:		income a	income after allowance at:			x liabilities at:	_	
	before allowance	after allowance	starting rate	basic rate	higher rate	starting rate	basic rate	higher rate	Total liabilities
Earnings	40,000	29,400	-	29,400	0	-	@20% = 5880	0	5,880
Savings	3,000	3,000	0	2,385	615	0	@20% = 477	@40% = 246	723
Dividends Total	5,000 48,000	5,000 37,400	- 0	0 31,785	5,000 5,615	- 0	0 6,357	@32.5% = 1625 1,871	1,625 8,228

Example 3: Individual born after 6 April 1938 with starting rate savings tax

Tax allowance 10,600

	income:		income a	income after allowance at:			income tax liabilities at:		
	before allowance	after allowance	starting rate	basic rate	higher rate	starting rate	basic rate	higher rate	Total liabilities
Earnings	10,000	0	-	0	0	-	0	0	0
Savings	7,000	6,400	5,000	1,400	0	0	@20% = 280	0	280
Dividends	0	0	-	0	0	-	0	0	0
Total	17,000	6,400	5,000	1,400	0	0	280	0	280

Example 4: Individual born before 6 April 1938 with pension and savings income

Tax allowance 10,660

	income:		income a	income after allowance at:			income tax liabilities at:		
	before allowance	after allowance	starting rate	basic rate	higher rate	starting rate	basic rate	higher rate	Total liabilities
Earnings	12,000	1,340	-	1,340	0	-	@20% = 268	0	268
Savings	500	500	500	0	0	0	0	0	0
Dividends	0	0	-	0	0	-	0	0	0
Total	12,500	1,840	500	1,340	0	0	268	0	268

<sup>1</sup> Dividends liabilities are shown gross of the 10% dividends tax credit that covers the first 10% of tax due on dividends income for all taxpayers.

The way income tax is collected depends both on the type of the income and circumstances of the taxpayer. For most taxpayers, income tax on employment income or occupational pensions is collected through PAYE where income tax is calculated and deducted from the taxpayer's pay or pension before being paid over directly to HMRC by the employer or pension provider. Tax on savings income is usually deducted at source by banks or building societies at the basic rate, with additional income tax due for higher and additional rate taxpayers being collected either through PAYE via a change in their tax code or through SA.

Various categories of taxpayers including those with total income above £100,000, or income from savings, investments and property above a certain level, the self-employed, company directors and others with more complex tax affairs pay income tax due through Self-Assessment (SA):

https://www.gov.uk/self-assessment-tax-returns/who-must-send-a-tax-return

There are lags between when taxes collected through SA are received and when the corresponding tax liabilities arise. This is because the majority of tax collected through SA is not usually paid until the year after the liability arises.

# Recent changes to income tax

The personal allowance and most income tax limits are statutorily increased each tax year with the annual increase in the Consumer Price Index (CPI) for September in the previous year ('indexation'). This has changed from using the Retail Price Index (RPI) for most thresholds since 2015-16. The Government may also legislate to introduce other changes to allowances and limits to over-ride indexation, or to introduce changes to income tax rates and structures.

Details of current and historic income tax allowances and rates are published on the HMRC website: https://www.gov.uk/government/collections/tax-structure-and-parameters-statistics

The main income tax changes over recent years can be summarised as follows.

#### 2008-09

- The basic rate of income tax was reduced from 22% to 20% and the 20% savings rate was abolished. The 10% starting rate was removed except for savings income.
- The personal allowance was increased by £600 above indexation, and the personal allowances for those aged 65-74 and 75 and over were increased by £1,180 above indexation. The basic rate limit was reduced by £1,200 after indexation.

#### 2009-10

• The personal allowance was increased by £130 above indexation and the basic rate limit was increased by £800 above indexation.

#### 2010-11

- All existing allowances and limits remained at their 2009-10 levels, reflecting the annual change in the RPI being negative in the previous September.
- Additionally, two changes to the structure of income tax came into effect: the first was
  the introduction of a new tax rate, the additional tax rate, set at 50% for taxable
  income over £150,000 (42.5% for dividends); the second reduces the personal
  allowance by £1 for every £2 of taxable income above £100,000 until fully withdrawn,
  regardless of the individual's age.

#### 2011-12

- The personal allowance for those aged under 65 was increased by £1,000 in cash terms (£690 above indexation) and the basic rate limit was reduced by £2,400 in cash terms, leading to a £1,400 decrease in the higher rate threshold.
- The pension tax relief annual allowance was reduced from £255,000 to £50,000 in April 2011 (and the lifetime allowance falls from £1.8m to £1.5m from April 2012).
   These measures replaced a previously announced policy of restricting pension relief for those with incomes of £150,000 and over.

#### 2012-13

• In 2012-13, the personal allowance for those aged under 65 was increased by £630 in cash terms (£210 above indexation) and the basic rate limit was reduced by the same amount, implying no change in the higher rate threshold.

Note that the High Income Child Benefit charge applicable from 7 January 2013 is not included in the ITLS projections for 2012-13 or 2013-14

#### 2013-14

- In 2013-14, the personal allowance for those born after 6 April 1948 (previously those aged under 65) was increased by £1,335 in cash terms (£1,115 above indexation). The basic rate limit was reduced by £2,360 to £32,010.
- The age-related personal allowances were frozen at 2012-13 levels so that the aged personal allowance for those born between 6 April 1948 and 5 April 1938 (previously those aged 65-74) remained at £10,500 while the aged personal allowance for those born before 6 April 1938 (previously those aged 75 and over) remained at £10,660.
- The additional rate of income tax for earnings and savings was reduced from 50% to 45% while the additional rate for dividend income was reduced from 42.5% to 37.5%.

#### 2014-15

- In 2014-15, the personal allowance for those born after 6 April 1948 (previously those aged under 65) was increased by £560 in cash terms (£260 above indexation). The basic rate limit was reduced by £145 to £31,865 since the higher-rate threshold is subject to a 1% growth cap in 2014-15.
- The age-related personal allowances were frozen at 2013-14 levels so that the aged personal allowance for those born between 6 April 1948 and 5 April 1938 (previously those aged 65-74) remained at £10,500 while the aged personal allowance for those born before 6 April 1938 (previously those aged 75 and over) remained at £10,660.

#### 2015-16

- In 2015-16, the personal allowance for those born after 6 April 1948 (previously those aged under 65) was increased by £500 in cash terms (£370 above indexation), and then by a further £100 in cash terms. The basic rate limit was reduced by £80 to £31,785 since the higher-rate threshold is subject to a 1% growth cap in 2015-16 plus a £100 increase in line with the further £100 personal allowance increase passing full gains to higher rate taxpayers.
- The age-related personal allowances were frozen at 2013-14 levels so that the aged personal allowance for those born before 6 April 1938 (previously those aged 75 and over) remained at £10,660. The allowance for those born between 6 April 1948 and 5 April 1938 (previously those aged 65-74) remained at £10,500 until this year when the personal allowance went beyond this amount to £10,600 and therefore this aged personal allowance was surpassed.
- A new Marriage Allowance was introduced from 2015-16, allowing the transfer of £1,060 (10%) of the tax free personal allowance between couples who are married or in civil partnerships. It is for those born after 6th April 1935 and one partner must

have an annual income of £10,600 or less, plus up to £5,000 of tax-free savings interest and the other partner's annual income must be between £10,601 and £42,385.

• The starting rate for savings was reduced to 0% from 10% and the threshold for which the rate applies above the personal allowance for savings interest was increased from £2,880 to £5,000.

A number of the reductions in the basic rate limit had the effect of restricting the gains made by higher-rate taxpayers from personal allowance increases.

# Annex B: Data sources and Methodology

Annex B first describes the data sources and methods used to compile statistics on the number of taxpayers and income tax liabilities shown in Tables 2.1 to 2.6 of this release.

The methods used to compile estimates of the percentage of earnings paid in income tax by individuals at specific income levels (Table 2.7) are quite distinct, and described in a later section.

# **Tables 2.1 to 2.6**

### Data sources and sampling

The published estimates of the number of persons subject to UK tax with positive income tax liabilities ("income taxpayers") and the magnitude of those tax liabilities are based on HMRC's Survey of Personal Incomes (SPI).

The SPI is a sample survey of the tax records held by HMRC for individuals in the PAYE, SA and repayment claims administrative systems. The survey is conducted annually, and consists of a different sample of individuals each tax year. For each individual in the sample, SPI includes information on incomes assessable to income tax together with some basic information on individual characteristics, for example age and gender. As described below, the survey data is used to estimate income tax liabilities arising on incomes in a given tax year for each individual in the SPI sample, these amounts summarised in Tables 2.1 to 2.6 of this release.

The SPI sample totalled 705,000 individual records in 2012 13, the latest available, representing an approximate 1½ per cent sample overall of individuals in contact with HMRC, and is made up of three separate samples drawn from the following HMRC administrative systems:

- National Insurance and PAYE Service (NPS): covering all employees and recipients
  of occupational or personal pensions with a PAYE record.
- Computerised Environment for Self-Assessment (CESA): covering the SA population which includes individuals with self-employment, rental, or untaxed investment income, as well as company directors and individuals with high incomes or complex tax affairs.
- Claims: covering persons without NPS or CESA records who have had too much tax deducted on incomes at source (e.g. on savings income) and claim a repayment from HMRC.

Some individuals with a PAYE record are also in the SA system. These individuals are excluded from the PAYE population prior to sampling, as their SA record provides a more complete picture of their taxable income. Separate samples were drawn from each of these systems and different sampling strategies were used for each. The samples were structured as follows:

The PAYE population from NPS was stratified by gender and by the sum of pay plus
occupational pension income for the previous tax year. Where no previous year's
income was available cases were stratified by gender and by whether they were a

higher rate or additional rate taxpayer for the current tax year based on information available at the time the sample was drawn. The sampling fractions varied from 1 in 7.5 for individuals with high incomes and rare allowances to about 1 in 250 for people with low combined pay and pensions. In all, about 403,000 individuals were selected from NPS for inclusion in the 2012-13 SPI.

- For the SA population from CESA, the main source of income (self-employment or employment/occupational pension) and ranges of income and tax were used to stratify the sample, with the sampling fraction varying from 1 in 1 for cases with very high income or tax up to about 1 in 225 for employees and occupational pensioners with smaller income or tax for 2012-13. In all, about 292,000 individuals were selected from SA for inclusion in the 2012-13 SPI.
- For claims cases, a random sample of about 1 in 14 was selected for inclusion in the SPI. This led to around 10,500 cases being selected for the survey.

The stratified SPI sample design purposely yields very large sub-samples of SPI cases with very high incomes who account for a large proportion of total liabilities, increasing the precision of estimates of tax liabilities and taxable incomes.

Once data was collected for the three constituent parts of the sample, the data sets were joined together. After allowing for incomplete records and records that failed data validation tests, there were about 705,000 valid cases on the 2012-13 final SPI file.

#### Coverage of SPI and imputation of missing data items

Not all of the individuals in the SPI sample are taxpayers. About 25 per cent of sample cases (36 per cent grossed) have no income tax liability because allowances, deductions and reliefs exceed their total income assessable for tax. Where income exceeds the threshold for the operation of PAYE, the SPI provides the most comprehensive and accurate official source of data on personal incomes assessable for income tax.

However, as HMRC does not hold information for all people with personal incomes below this level, the SPI is not a representative data source for this part of the population and no attempt has been made to estimate the number of cases below the tax threshold or the amount of their incomes. Therefore the statistics in this publication only cover individuals liable to UK income tax (taxpayers) and their incomes.

The coverage of investment income for the sample drawn from NPS is incomplete. This is because HMRC does not need information on interest from which tax has been deducted at source nor dividends and associated tax credit to operate the PAYE system for most individuals. In order to create a full picture of total income for this survey, it is necessary to impute values of bank and building society interest and dividends to some sample cases. For interest and dividends imputation, the amount for each SPI case:

- is known for cases in Self-Assessment from the amount declared on the Self-Assessment Return
- can be inferred or estimated reasonably for NPS cases where there is an adjustment to the tax code for higher rate taxpayers
- is supplemented with information from interest paying institutions

• is unknown for NPS cases where there is no coding adjustment - typically those with no liabilities at the higher rate of tax.

Where no information at case level is available from HMRC administrative systems, estimated values are imputed to cases so that the population as a whole has amounts consistent with evidence from other sources (for example, amounts of tax accounted for by deposit takers or indicated by household surveys).

For interest income, starting from control totals at UK level, for the number of cases with interest and the total amount of that interest, the numbers of cases and amounts of interest in Self-Assessment cases and those NPS cases with coding adjustments are deducted to leave targets for the remainder of the taxpayer population. These targets are at UK level – no attempt is made to control the targets to sub-UK geographical units. The cases to which amounts are attached by the imputation process and the amounts attached are determined by probabilistic methods with just the UK targets and distributions in mind.

For dividends income, the number of non SA cases with dividends income and distribution of imputed amounts were inferred from Family Resources Survey data for 2012-13.

As with investment income, HMRC does not have complete information about superannuation or personal pension contributions. Under PAYE, tax is paid on pay after the deduction of superannuation contributions and therefore HMRC does not need to record the contributions deducted from gross pay. For a small proportion of individuals, the superannuation contribution has been taken directly from an end of year return submitted by employers. For most others, their total amount of superannuation contributions has been imputed and has been distributed among earners in the SPI sample, based on information from the Annual Survey of Hours and Earnings produced by the Office for National Statistics. The imputation of superannuation contributions has been improved using P14 employer returns data to identify probable superannuation contributions (as P14s contain information on income subject to tax and income subject to NICs, and superannuation contributions are only subject to NICs).

Relief at basic rate is given at source for employee contributions to personal pensions. As this is the correct amount of relief for basic rate taxpayer employees, HMRC does not need to collect personal pension data for this group of taxpayers. To compile complete estimates for personal pensions and total income for the SPI, a significant proportion of the amount of personal pension contributions has been imputed using data from external data sources. The estimated value for this and for superannuation contributions has been combined with other pension reliefs and included in these statistics.

# Methods for modelling income tax liabilities

Numbers of taxpayers, total income tax liabilities, and the distributions of income tax liabilities shown in Tables 2.1 to 2.6 are estimated using HMRC's Personal Tax Model (PTM).

PTM is a micro simulation model of the UK income tax system. 'Micro simulation' denotes modelling of tax with reference to individual case level data, in this context the large sample of individuals within the SPI. For each sample case, PTM models income tax liabilities due in a given tax year based on the main features and parameters of the income tax system applying in that year, and incomes assessable for tax recorded in SPI.

Annex A provides a brief summary of how tax liabilities are calculated. An overview of the PTM modelling process applied to each SPI sample case is given below.

- Step 1: "Total income" is summed across the various components of income assessable for tax recorded or imputed in SPI, with separate sub totals for "earnings" (comprising all incomes taxed like earnings), savings and dividends.
- Step 2: "Income after deductions" is calculated by PTM as total income less
  contributions to occupational and private pensions and charities. This approach
  implies 100% tax relief on such contributions, consistent with the overall exchequer
  effects. PTM deducts pension contributions and contributions to charities from
  earnings income first, then savings then dividends income.
- Step 3: PTM calculates personal allowances, initially on the basis of an individual's age, and with blind person's allowance allocated where applicable. PTM's final assessment of personal allowances takes account of the excess of income after deductions over the aged income limit for SPI cases aged 65 and over (replaced by those born before 6 April 1948 from 2013-14) and, from 2010-11, the excess of income after deductions over £100,000 for all SPI cases.
- Step 4: The resulting allowance is allocated first to earnings, then savings and then dividends incomes (after deductions) in order to derive sub totals for "taxable income".
- Step 5: Taxable incomes are allocated to the starting, basic, higher and, from 2010-11, additional rate tax bands beginning with taxable earnings, then savings, and then dividends, with corresponding gross tax liabilities in each category found by applying the corresponding rate of income tax.
- Step 6: The resulting total for income tax liabilities is adjusted to take account of other allowances given as income tax reductions (sometimes called "tax credits").
   PTM takes the following such allowances into account: Married Couples Allowance, Maintenance Payments Relief, Community Investment Tax relief, Venture Capital Trust Relief, Enterprise Investment Scheme Relief and Seed Enterprise Investment Scheme Relief.

As with similar models of personal taxes and benefits, it is neither possible nor practical to incorporate all of the detailed features of the UK income tax system into the PTM modelling process. For example, the list of deductions and allowances built into the PTM modelling process at steps 2-6 is not exhaustive, but does cover the most significant income tax reliefs by value.

The tax calculation process has been revised to better reflect the treatment of a small number of cases subject to the pension charge or who, under the residence and /or domicile rules, do not qualify for or choose to give up their personal allowance.

A Pension Tax Charge occurs when a taxpayer makes contributions to their pension above the annual (or lifetime) threshold for tax relief. The charge is the equivalent of taxing these contributions at the taxpayers' marginal tax rate. While this charge uses the income tax rates, and it is part of a taxpayer's tax liability, it is strictly the recovery of an excess of tax relief given. The methodology used in the personal tax model keeps this charge separate from a taxpayer's income tax liability, which maintains the link between their taxable income and the income tax paid.

An individual with income below the personal allowance can still be a taxpayer in some circumstances. This can arise where individuals who have income liable to UK tax do not qualify for a personal allowance under the residence and /or domicile rules. Some people

who do qualify for the personal allowance choose to give up their personal allowance as part of the qualifying conditions for having their income taxed under the "remittance basis". These taxpayers may only have a small amount of income liable to UK tax (i.e. below where the personal allowance is set), but this income is still liable to tax and is charged at the starting, basic and/or rates.

# Taxpayers and taxpayer marginal rates

SPI sample cases with PTM modelled tax liabilities greater than zero are classified as income taxpayers and underpin the analyses of numbers of taxpayers shown in Tables 2.1 and 2.2. PTM further classifies taxpayers by their highest marginal rate of tax, as seen in Tables 2.1, 2.2, 2.5 and 2.6.

In practice, the marginal rate of tax an individual will pay on an additional pound of income will depend on what type of income it is, as well as the total and composition of their other taxable incomes. For example, an individual with earnings only within the basic rate tax band would face a marginal rate of 20% on an additional pound of earnings in 2012 13; the same rate would apply to an extra pound of savings, whereas a 10% rate would apply for dividends in 2012 13.

PTM adopts a simplified and strictly ordered method in allocating marginal rates to SPI sample cases:

- From 2010-11, cases with total taxable income above the additional rate threshold (£150,000) are classified as additional rate taxpayers.
- Cases with total taxable income above the basic rate limit but below the additional rate threshold are classified as higher rate taxpayers.
- Remaining cases with non-zero total taxable income lying at or below the basic rate limit are classified as either starting, savers or basic rate taxpayers according to the make-up of their total taxable income:
  - o Those with any taxable earnings are classified as basic rate taxpayers.
  - Those without taxable earnings, and with taxable savings only below the starting rate limit for savings income are classified as starting rate taxpayers.
  - Those without taxable earnings, and with taxable savings exceeding the starting rate limit or taxable dividends, are classified as "savers" rate taxpayers.

This ITLS classification has changed over time reflecting the changing structure of the income tax system. The allocation described above applies from 2008-09, when the starting rate of tax was removed for earnings income.

For 2007-08 and earlier, all SPI cases with taxable earnings/savings income below the starting rate limit were classified as starting rate taxpayers. Those with taxable earnings/savings between the starting and basic rate limits were classified either at savers rate (i.e. those without earnings charged at the then basic rate of 22%) or basic rate otherwise. Individuals with taxable dividends only below the basic rate limit were classified at savers rate.

Informally, all individuals classified by PTM as either starting, savers and basic rate taxpayers may all be viewed as "non-higher rate" taxpayers in the sense that their total

taxable income is less than the basic rate limit, and so no tax liabilities are due at higher or additional rates of tax.

Tables 2.1, 2.2, 2.5 and 2.6 are presented in their current format to provide additional information showing these different types of non-higher rate taxpayer, but some users may prefer to group together these categories depending on context and purpose; in a timeseries context for example, this grouping is helpful in abstracting from those step changes in numbers assigned to each sub category that have arisen directly as a result of changes to the structure of the income tax system.

# **Projections**

Due to the time needed to receive and process tax returns and information provided by employers, SPI survey results are not available until several years after the tax year to which the survey data relate. The latest available SPI survey data is for 2012-13, and was first published in January 2015.

Projections up to the current tax year, 2015-16, therefore are also given in tables 2.1 to 2.6 in order to provide a more up-to-date assessment of the distributions for taxpayers and liabilities. While the projections methods aim to capture where possible the most important likely influences on taxpayer numbers and liabilities, projection of the base SPI survey data to later years inevitably means that these projections are subject to greater uncertainties and potential error margins than outturns for 2012-13 and earlier years (see Annex C).

The projections methods described below have been chosen to suit the ITLS statistics key purpose of providing informative breakdowns of income taxpayers and liabilities. Provision of projections of total tax is not a key purpose of the ITLS release, and use of other data sources and alternative projection methods would be required to make them suitable for that particular purpose. They should not be seen or used as alternative or competitor forecasts of income tax produced by other organisations.

Potential taxpayer numbers in the projections years are projected via a re scaling of the SPI base year grossing factors for individual SPI sample cases, according to a high level partition of the SPI sample by each case's main income source:

- main source employment and self-employment income cases are first projected/re-scaled according to published Office for National Statistics (ONS) population projections by single year of age (implying initially constant employment and self-employment rates by age band). Grossing factors are then further re-scaled uniformly across all age bands so that grossed SPI main source employment and self-employment case totals change in percentage terms from 2012-13 in line with the OBR's most recently published forecast for total employment and self-employment (Labour Force Survey definitions).
- remaining SPI cases are projected/re-scaled uniformly according to the implied percentage change in the residual main source "other" category, calculated as difference between the published ONS population total and projected SPI main source employed and self-employed totals derived as described immediately above.
- this process is applied separately for males and females.

Nominal income amounts recorded in the base SPI survey data for each case are projected at the UK level using OBR's most recently published forecasts for a range of macroeconomic series relevant to the specific income sources recorded in SPI. For each income source, this

uprating is generally uniform across all sample cases. However, in the case of pay/earnings, the projection factors are allowed to vary across the pay distribution according to the recent trends revealed in the ONS Annual Survey of Hours and Earnings (ASHE):

- SPI cases are assigned to one of six quantile groups, partitioned according to percentiles P10, P25, P75, P90 and P95 of the ASHE weekly pay distribution.
- For each quantile group, earnings growth is adjusted according to the percentage point difference between historic earnings growth for the corresponding percentile point in the ASHE data and the growth in the mean. For example, earnings growth for those in the bottom group (below P10) is adjusted according to average growth at ASHE P10 relative to the ASHE mean.
- For projecting 2013-14, the percentage point differences referred to above are based on the April 2013 and April 2014 ASHE data already available.
- For projecting 2014-15 and 2015-16, the percentage point differences are based on a three year average of ASHE based estimates for 2011-12, 2012-13 and 2013-14.

Again, this process is applied separately for males and females. Since these ASHE and SPI samples are different, it should be clear that resulting mean earnings growth across all SPI cases would differ from the OBR forecast; a further re-scaling is applied to all cases to ensure that mean earnings growth does align with the OBR forecast.

Table 3 below summarises which assumptions/series are used in the ITLS projections processes for re-scaling of grossing factors and nominal incomes.

	SPI taxpayer total 2012-13	
SPI population totals:	£ billion	Series used in projections
Main source employed	-	Population by single year age; and total employees (LFS)
Main source self employed	-	Population by single year age; and total self- employment (LFS)
Main source other	-	Population by single year age
Main income components:		
Pay	627	Implied whole economy average earnings (Wages and salaries divided by LFS employees), with allowance for differential growth across distribution (see main text)
Profits	78.4	Total self-employed (mixed) income
Personal pension income	80.0	Weighted average Retail Prices Index and whole economy average earnings
Dividends	45.3	Household and Non-profit institutions serving households dividend receipts
State pension income	42.9	Announced rates
Bank & building society interest	7.9	Household bank & building society deposits multiplied by weighted average of building society deposit and 5-year rates
Property income	13.1	Retail Prices Index
Taxable employer benefits	8.7	Retail Prices Index

The economic series used in the projection processes are consistent with the most recently published OBR forecast for the UK economy. Note that because ITLS projections are provided only to the current tax year, these economic series mainly consist of economic outturns published by other organisations, usually ONS. The OBR forecasts for these series are typically relevant only for the ITLS projections for tax year 2015-16, where economic outturns for most series are not yet available.

The projections in the May 2015 release of ITLS use economic series consistent with the OBR's March 2015 Economic and fiscal outlook. Outturns and OBR forecasts for key series including employment, earnings, prices and interest rates are published by the OBR (Table 4.1 'Determinants of the fiscal forecast'):

 $\frac{http://budgetresponsibility.org.uk/pubs/Charts-and-Tables-March-2015-Economic-and-fiscal-\underline{outlook.xls}$ 

The OBR's release policy for supplementary forecast information is available here: <a href="http://budgetresponsibility.independent.gov.uk/wordpress/docs/release\_policy.pdf">http://budgetresponsibility.independent.gov.uk/wordpress/docs/release\_policy.pdf</a>

Population projections used in this ITLS release are published by ONS (Table A3-1 'Principal projection - UK population single year of age'):

http://www.ons.gov.uk/ons/rel/npp/national-population-projections/2012-based-projections/rft-table-a3-1-principal-projection---uk-population-single-year-of-age.xls

Projections of incomes for high earners for 2013-14 also allow for possible behavioural responses following the introduction of the additional rate of tax in April 2010 and the reduction in the rate from 50% to 45% in April 2013. Specifically, these responses are: (a) continued temporary reductions in incomes below 'normal' levels for those affected during 2012-13, the counterpart of significant forestalling of incomes in 2009-10 ahead of the introduction of the additional rate; and (b) possible anticipatory effects in 2012 13 and their subsequent counterpart in 2013-14 that may arise in advance of the reduction in the additional rate of tax to 45%. 2014-15 is likely to be the first year to be relatively unaffected by timing effects due to the changes in the additional rate of income tax in the recent series. The projections to this year are, however, still influenced by the uncertainties regarding the extent of unwinding of forestalling in the base year. This timing effect should have minimal or no impact on the projection for 2015-16.

Separate to the ITLS statistics, in March 2012 HMRC published a comprehensive ex-post assessment of the 50% additional rate of income tax using a range of evidence including 2010-11 SA returns:

http://webarchive.nationalarchives.gov.uk/20140206144454/http://www.hmrc.gov.uk/budget2012/excheq-income-tax-2042.htm

Forestalling of incomes in 2009-10 was estimated at £16 18 billion in total, together with significant temporary reductions in incomes for those affected in later years (but especially in 2010-11). While these assessments are subject to significant uncertainties, unadjusted projections of the outturn SPI 2012-13 survey data therefore would be likely to lead to significant under-prediction of incomes for high earners and associated liabilities in later years.

Consistent with the published report the ITLS projections for 2013-14 therefore allow for:

- a gradual recovery in incomes back towards 'normal' levels from their 2010 11 outturn, which is assumed to be especially depressed by incomes brought forward to 2009-10. Forestalling in 2009-10 was assumed to be split equally between pay and dividends, with unwinding concentrated in 2010-11 for forestalled pay, but split more equally across the three tax years to 2012 13 for dividends; and
- temporarily elevated incomes totalling £5¼ billion in 2013-14 representing the counterpart of the 2012-13 deferrals following the reduction in the additional rate.

Ignoring temporary forestalling effects, underlying behavioural responses to the introduction of the additional rate in April 2010 are assumed to be captured in the 2011-12 and the new 2012-13 SPI survey data; and underlying responses to the reduction in the additional rate to 45% will occur only from 2013-14 when the rate is reduced.

The projection adjustments are applied to most SPI cases with income above £150,000. The degree of forestalling/unwinding is assumed to increase by broad income band, consistent also with the evidence from 2010-11 SA returns.

The adjustments in the projections for 2012-13 have been realised in the 2012-13 SPI survey data, as for example, shares of income and tax accounted for by the top 1% of taxpayer by income (Table 2.4) have fallen slightly in 2012-13 as projected.

The adjustments continue to have a significant impact on the ITLS projections of the incomes and tax liabilities of taxpayers with total income above £150,000 from 2013-14 as the incomes rises strongly as the deferral is unwound to benefit from the reduction in the additional rate to 45%.

HMRC's assessment of the yield arising from the introduction of the additional rate in 2010-11 is set out in the published report on the 50p rate. It is not possible to infer the additional yield arising from the 50p rate using ITLS Table 2.6, as this gives no indication of reductions in income and yield arising due to behavioural responses.

Income tax structures, rates, allowances and thresholds have been announced up to and including the current tax year 2015-16. No projection methods or assumptions are therefore required for this aspect of the modelling process for projections years.

For all projection years, income tax liabilities are modelled as described earlier with respect to re-grossed and uprated SPI dataset, and announced tax rates, allowances and thresholds.

# Table 2.7

Table 2.7 "Percentage of earnings paid in income tax" depicts income tax burdens over time for a selection of specific family types and illustrative earnings levels.

The purpose and therefore methods underpinning Table 2.7 are quite distinct from Tables 2.1 to 2.6. The statistics in Table 2.7 do not relate to actual UK taxpayers, nor any particular subset of UK taxpayers, but rather hypothetical families assuming specific family circumstances (e.g. concerning numbers of children) and gross wages. Family circumstances and earnings in all cases are by assumption, and SPI data is not used in the calculations. The family types depicted are illustrative but far from exhaustive; circumstances and incomes in practice vary widely across families in the UK.

Table 2.7 also differs from the other tables in this release by taking account of the amounts of personal tax credits (Working Tax Credit and Child Tax Credit) the depicted families would be entitled to. These tax credits provide financial support to working families and families with children, based on family circumstances including hours worked, family income, claimant's age, the number and age of children and childcare costs.

An introduction to the tax credit system is published alongside HMRC's regularly published tax credit statistics:

https://www.gov.uk/government/collections/personal-tax-credits-statistics

#### **Methods**

Gross income tax liabilities and tax credit entitlements are calculated for each family in each tax year assuming specific family circumstances and the presence of a single wage earner with gross earnings at specified points in the earnings distribution.

The family types depicted in Table 2.7 have changed over time, reflecting changes to the systems, including the introduction of tax credits in 1999 00, abolition of Married Couples Allowance for all born after 6th April 1935, and reforms to the tax credits system in April

2003. Since 2003-04, income tax burdens are presented for single adult families without children, couple families without children, and couples with two children.

The income tax calculations assume that:

- the taxable income of the wage earner consists only of the specified gross earnings; and that the partner in couples is a non-taxpayer.
- the wage earner is entitled only to the personal allowance for under 65s, and has no deductions (e.g. pension contributions) or other allowances (e.g. blind persons allowance) reducing gross tax liabilities.

The tax credit calculations assume that:

- wage earners work full-time (>30 hours per week) and so are entitled to Working Tax Credit (WTC), including the couple element where applicable, and the WTC 30 hour element whatever their family circumstances or earnings.
- the family with two children is entitled to the Child Tax Credit (CTC) family premium and per child element; and does not receive any support through WTC for childcare costs.
- the final (tapered) tax credit award is based on a family income that consists solely of the gross earnings of the wage earner.

Calculations for each tax year are based on the prevailing structure and parameters of the income tax and tax credit systems. Table 2.7 shows income tax net of tax credits entitlements, and expressed as a percentage of gross earnings. In some cases, calculated tax credit entitlements exceed income tax liabilities, leading to a negative estimate of tax overall as a per cent of income.

#### Data

Earnings at the specified points in the earnings distributions are based on the Office for National Statistics Annual Survey of Hours and Earnings (ASHE): http://www.ons.gov.uk/ons/rel/ashe/annual-survey-of-hours-and-earnings/2014-provisional-results/index.html

The specific ASHE-based earnings percentiles used in Table 2.7 relate to gross weekly pay for full-time employee jobs (ASHE Table 1-1a), on an annualised basis. ASHE is published annually with an April reference period. Figures for tax years are derived by HMRC as an average of the ASHE results for the adjacent Aprils.

# **Projections**

The most recently published ASHE results are for April 2014, published on 19 December 2014, permitting derivation of estimates of earnings across the distribution up to tax year 2013-14.

Projections of income tax burdens are also provided for 2014 15 and 2015-16. Earnings are projected to grow uniformly across the earnings distribution according to the OBR's March 2015 forecast for whole economy earnings growth.

# Annex C: Quality indicators

A quality report covering the ITLS statistics and projections is available from the National and Official Statistics section of the HMRC website:

https://www.gov.uk/government/statistics/quality-report-income-tax-liabilities-statistics

This report, last updated in January 2013, assesses the statistics against standard dimensions of quality such as relevance, accuracy and reliability, timeliness and punctuality, accessibility and clarity, and coherence and comparability.

This Annex provides an annual update on quality, and provides more detailed summary quality indicators, in particular summarising the accuracy and reliability of ITLS statistics and projections. It also contains further information on the relevance and appropriate use of the statistics.

# **Sampling Error**

The SPI sample is compiled in order to infer results for the UK taxpaying population as a whole, e.g. the number of such taxpayers and their total tax liabilities. As with all sample surveys, estimates from the SPI are subject to sampling variation meaning estimated totals and other sample statistics would vary from one sample to the next if repeated random samples were drawn, and in all cases would differ to some degree from the corresponding population totals purely by chance. Intuitively, the extent of such variation increases with the degree of variation across the population in the variable of interest (e.g. income tax liabilities), and falls as the size of the sample increases.

Variation in a given sample-based statistic is usually measured by its standard error, which represents the standard deviation of the statistic of interest computed across all possible samples that could have been drawn from the population. Based on the standard errors, the precision of sample estimates is typically illustrated through confidence intervals, which provide an estimated range of values which is likely to include the unknown population parameter with a given level of confidence.

95% confidence intervals for SPI-based estimates of the number of UK income taxpayers and total tax liabilities by region and county in 2012-13, together with a range of other variables, are published in HMRC Table 3.13a:

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/410298/Nation al Statistics T3 12 to T3 15 Publication V2.pdf

Key results are repeated in table 4 below. For the United Kingdom, the width of the 95% confidence intervals for numbers of taxpayers and total income tax liabilities are 100 thousand and £1 billion (0.3% and 0.6% of the central estimates respectively). As shown in the table, precision declines for smaller estimated totals, e.g. for numbers of taxpayers and tax liabilities in specific countries and regions. Broadly speaking, as sample size changes by a factor x, the confidence interval will change by a factor ( $1/\sqrt{x}$ ), so a fourfold increase in sample size will halve the confidence interval. Confidence intervals for year on year changes in these quantities meanwhile may very broadly be expected to be larger than those for the annual levels shown below by a factor of around  $\sqrt{2}$ .

Table 4: Confidence intervals for estimates of taxpayer numbers and total tax liabilities, 2012-13 Survey of Personal Incomes

		Taxpayers, thousands			Inc	Income tax liabilities, £million			
	95% CI		95% CI	CI width	95% CI		95% CI	CI width	
	Lower	Central	Upper	as %	Lower	Central	Upper	as %	
	Limit	estimate	Limit	estimate	Limit	estimate	Limit	estimate	
United Kingdom	30,500	30,600	30,600	0.3	157,000	157,000	158,000	0.6	
North East	1,140	1,160	1,180	3.4	4,000	4,090	4,170	4.2	
North West	3,230	3,260	3,290	1.8	12,600	12,700	12,900	2.4	
Yorkshire and the Humber	2,350	2,380	2,410	2.5	8,870	9,020	9,160	3.2	
East Midlands	2,140	2,170	2,190	2.3	8,530	8,680	8,820	3.3	
West Midlands	2,500	2,530	2,560	2.4	9,760	9,910	10,100	3.4	
East of England	2,920	2,950	2,980	2.0	16,000	16,300	16,500	3.1	
London	3,900	3,930	3,970	1.8	34,800	35,300	35,800	2.8	
South East	4,470	4,500	4,530	1.3	28,700	29,000	29,400	2.4	
South West	2,640	2,670	2,700	2.2	10,900	11,000	11,200	2.7	
Wales	1,370	1,390	1,410	2.9	4,540	4,630	4,720	3.9	
Scotland	2,560	2,590	2,620	2.3	11,200	11,300	11,500	2.7	
Northern Ireland	717	732	747	4.1	2,510	2,580	2,650	5.4	

The 95% confidence intervals may be interpreted in one of two ways: (i) if repeated samples were drawn and intervals computed as in the table, those intervals would contain the unknown population parameter around 95 times in 100; or (ii) the lower and upper confidence limits provide a plausible range for the true population value in the sense that if that value were in reality greater [smaller] than the upper [lower] confidence limit, then the probability of obtaining a sample estimate any lower [greater] than that observed would be just  $2\frac{1}{2}$  per cent.

# Coverage error

The SPI survey is fully representative only of UK taxpayers, as opposed to the entire UK population, and so ITLS tables are published for UK taxpayers only.

Annex B also notes that for the SPI sub-sample of individuals drawn from PAYE only, a number of data items are not recorded in administrative tax records because these are not needed for the operation of the income tax system. These items include, for example, savings interest income which is not recorded in PAYE because tax is deducted at source via a separate scheme operated by deposit takers. These missing data items are imputed for most SPI sample cases in PAYE only as described in the annex.

Table 5 below shows the total contribution to key SPI income aggregates from imputed values in 2012-13. Users interested in ITLS estimates and projections of tax liabilities on these particular items should note the degree of imputation. A large contribution to the estimates from imputed values is likely to lead to a loss of accuracy. Overall, imputation contributes around £29 billion (occupational pension contributions are included in gross pay) to grossed total income across all taxpayers of £904 billion in 2012-13.

Table 5: Extent of imputation, 2012-13 Survey of Personal Incomes

_					
	Number of individuals (thousands)			mount Ilion)	
	imputed	total	imputed	total	
Individuals' age	60	47,100	-	-	
Occupational Pension	52	11,300	166	88,300	
Pay	501	29,800	8,810	638,000	
Bank and building society interest income	25,600	30,800	2,540	9,280	
Dividends	2,210	5,550	1,460	46,200	
Occupational pension contributions	7,800	7,800	14,000	14,000	
Personal pension contributions	2,400	3,290	2,310	7,130	

The table above also includes imputations for PAYE data. At the time the PAYE sample was drawn, earnings information for a small proportion of employments was not available from the analytical extract of PAYE data so earnings were estimated using data for the taxpayer from other years. These adjustments were made to sample cases representing 500 thousand taxpayers, 1.7% of taxpayers with employment income, and amounted to £8.8bn, 1.4% of total employment income.

#### **Model errors**

Income tax liabilities in ITLS are estimated at case level on the basis of the SPI survey data using HMRC's Personal Tax Model (PTM). The PTM tax modelling process attempts to capture all of the significant features of the UK income tax system, but inevitably this involves certain simplifications and omissions.

PTM model outputs are regularly benchmarked at case level against income liabilities recorded as due in HMRC's SA system for the SPI sub-sample in SA. Differences arise for known and specific reasons and only in a small minority of sample cases. The impact of these simplifications is judged to be small for key aggregates at UK level, and for most UK taxpayer sub populations.

#### **Projection errors**

Simplifications and potential errors: (a) in projection processes; and also (b) the economic assumptions employed in those processes are likely to induce larger errors in ITLS projections compared with outturn statistics for 2012 13 and earlier tax years.

Projection methods are described in Annex B. Users of the projections should note that the projection methods are suited to analysis of tax liabilities at UK level. Projection of potential taxpayer numbers and incomes by income source are based on UK economic assumptions, which are applied generally uniformly to all individuals in the SPI sample. They take no account of local divergences in economic trends since 2012 13 within the UK, or indeed across other dimensions such as industrial sector.

Published breakdowns of projected taxpayer numbers by country and region (Table 2.2) therefore are indicative, and there is some evidence that they may be subject to potentially large error margins. HMRC is reviewing the evidence, and will consider whether regional projections are suitable for continued publication.

In addition, the projections will not capture potentially important shifts in the distribution of incomes occurring after 2012-13. ITLS projected shares of total income and tax across

taxpayer income groupings are therefore likewise indicative (Table 2.4), but do allow for differential growth in earnings across the pay distribution consistent with past trends, and possible responses of high income taxpayers to changes in the tax policy regime.

Summary statistics describing ex post ITLS absolute projection errors across key aggregates for projections released following spring Budgets since 2001 are shown in the table below. The forecast horizon is defined with respect to the latest SPI outturn data available, e.g. this ITLS release uses 2012 13 SPI survey data, which gives a 'one-year ahead' projection for 2013-14.

Table 6: Summary statistics for absolute errors in ITLS projections of key aggregates<sup>1,2</sup>

aggregates	Taxpayers thousands	Higher rate taxpayers thousands	Total income £ billion	Total liabilities £ billion
One-year ahead projections (N = 12)				
Mean	540	120	16	4
Max	1,400	290	40	9
Standard deviation	500	110	13	3
Mean	2%	4%	2%	3%
Max	5%	10%	7%	8%
Standard deviation	2%	4%	2%	2%
Two-year ahead projections (N = 11)				
Mean	820	160	27	7
Max	1,900	400	63	14
Standard deviation	490	140	20	4
Mean	3%	5%	4%	5%
Max	6%	11%	8%	10%
Standard deviation	2%	4%	3%	3%
Three-year ahead projections (N = 9)				
Mean	1,110	220	40	10
Max	2,300	480	84	19
Standard deviation	700	140	26	6
Mean	4%	7%	5%	8%
Max	8%	13%	11%	13%
Standard deviation	2%	4%	3%	4%
Memo: Evolution of projections for 2012-13				
Three-year ahead projection (April 2012)	29,700	4,110	888	155
Two-year ahead projection (April 2013)	30,000	4,100	903	160
One-year ahead projection (April 2014)	30,600	4,130	907	158
SPI 2012-13 outturn	30,600	3,990	904	157

<sup>&</sup>lt;sup>1</sup> ITLS projections released after spring Budgets since 2001.

The table indicates mean absolute projection errors of 2-4% for key UK aggregates in respect of the one-year ahead projections, roughly doubling for three-year ahead projections. Plus or minus one standard deviation in past errors provides one guide to the possible limits of approximate 70 per cent confidence intervals around central projections for key ITLS aggregates. However, past errors may not accurately reflect the degree of ex ante uncertainty in projections made at any specific point in time. The table also shows the evolution of projections made for 2012-13, the latest SPI outturn.

Ex ante uncertainty in the projections may be illustrated via 'ready reckoners'. The table below shows estimated changes from the April 2014 ITLS central projections arising for

<sup>&</sup>lt;sup>2</sup> Projection horizon is defined by latest SPI outturn data available for analysis, e.g. one-year ahead projections are projections for tax year T+1 based on SPI data for year T. Budget projections for year T+1 are generally published at the beginning of year T+3, and so economic asssumptions used in the projection processs are typically outturns to around year T+2

illustrative increases in key economic assumptions used in the projection process. Comparable reductions in the same series would have broadly similar impacts of opposite sign.

Table 7: Sensitivity of central projections to changes in key economic assumptions

	2012-13	2013-14	2014-15	2015-16
	outturn	projection	projection	projection
Central projection				
Taxpayers	30,600	29,700	29,800	29,700
o/w non higher rate taxpayers	26,600	25, 100	25,000	24,700
o/w higher/additional rate taxpyers	3,990	4,530	4,780	4,980
Total liabilties	157,000	162,000	167,000	171,000
o/w liabilities of non higher rate taxpayers	62,300	56,000	56,000	55,000
o/w liabilities of higher/additional rate taxpayers	94,800	106,000	111,000	116,000
Working-age employees+1% <sup>1</sup>				
Taxpayers		131	130	133
o/w non higher rate taxpayers		104	102	104
o/w higher/additional rate taxpyers		27	28	29
Total liabilties		794	764	786
o/w liabilities of non higher rate taxpayers		308	303	301
o/w liabilities of higher/additional rate taxpayers		487	<b>4</b> 61	<i>4</i> 85
Pay+1% <sup>2</sup>				
Taxpayers		73	72	76
o/w non higher rate taxpayers		-6	-19	-7
o/w higher/additional rate taxpyers		<i>7</i> 9	92	83
Total liabilties		1,900	1,970	2,050
o/w liabilities of non higher rate taxpayers		760	777	793
o/w liabilities of higher/additional rate taxpayers		1,140	1,190	1,260
Profits+1% <sup>2</sup>				
Taxpayers		16	20	21
o/w non higher rate taxpayers		10	14	15
o/w higher/additional rate taxpyers		7	5	6
Total liabilties		241	274	279
o/w liabilities of non higher rate taxpayers		69	73	73
o/w liabilities of higher/additional rate taxpayers		172	201	206
Interest rates+1ppt <sup>3</sup>				
Taxpayers		163	170	70
o/w non higher rate taxpayers		93	100	3
o/w higher/additional rate taxpyers		70	69	68
Total liabilties		2,360	2,330	2,240
o/w liabilities of non higher rate taxpayers		759	751	619
o/w liabilities of higher/additional rate taxpayers		1,600	1,580	1,620

<sup>1%</sup> point increase in numbers employed (SPI cases with pay > 0 aged 16-59) relative to central projection, holding SPI population aged 16-59 constant.

<sup>&</sup>lt;sup>2</sup> 1% point increase in pay/profits for all SPI cases with pay/profits relative to central projection.

<sup>&</sup>lt;sup>3</sup> 1% point increase **interest rates** on savings income relative to central projection. The resulting percentarge change in savings interest income depends on the central projection for interest rates, but will generally be much larger than the +1% ready reckoners shown earlier in the table for pay/profits.

#### The table shows that:

- An illustrative 1 percentage point increase in working-age employment increases projected taxpayer numbers by 0.4% and tax liabilities by 0.5% in 2014-15, with increases in taxpayer numbers and liabilities at non higher and higher/additional rates reflecting the centrally projected distributions.
- An illustrative 1 percentage point increases in earnings has a larger 1.2% impact on liabilities in 2014-15, as marginal rates of tax exceed average rates (the latter relevant to the employment change). Taxpayer numbers rise by 0.3% overall, but with numbers of non-higher rate taxpayers declining a little as numbers moving into higher rate tax (from basic rate) exceed those moving into basic rate tax.
- An illustrative 1 percentage point increase in average profits raises liabilities by 0.2% in 2014-15, reflecting the much lower level of profits in total taxpayer income relative to earnings. Taxpayer numbers rise by 0.1%.
- An illustrative 1 percentage point increase in interest rates increases liabilities by 1.5% in 2014-15. Note that the percentage change in savings income resulting from a 1 percentage point increase in savings interest rates varies with the central projection for interest rates, but will generally be much larger than 1 percentage point ready reckoners shown for pay and profits. Taxpayer numbers rise by 0.6%.

# Annex D: Glossary of Terms

Annex D aims to explain acronyms, abbreviations and terms associated with personal incomes and income tax liabilities.

#### **Allowances**

The amount of income which an individual can receive before being liable for income tax. The personal allowance is an example of an allowance.

#### Average rate of Tax

The ratio of income tax liability to total income, where income is measured before deductions, reliefs and allowances.

#### **Basic rate limit**

This is the highest income point for taxable income (after allowances) at which basic rate income tax is charged.

# **CESA (Computerised Environment for Self-Assessment)**

This is the computer system used to administer Self-Assessment from which SA data for the SPI has been extracted since 1996-97. See Self-Assessment (SA).

### **COP** (Computerisation of PAYE)

The computer system which used to administer PAYE until being replaced by NPS and from which PAYE data for the SPI was extracted for tax years 1997-98 to 2007-08 inclusive.

#### **Deductions and Reliefs**

Amounts deducted from total income, along with personal allowances to arrive at the amount of taxable income subject to an income tax charge. This includes amounts for contributions to occupational and personal pensions, and a variety of other Deductions and Reliefs including charitable giving and loss relief etc.

#### **Dividend Income**

Income derived from shares.

#### **Geographical Areas**

Some tables present information for sub-UK areas described as Government Office Region, County, District and Parliamentary Constituency. Administrative and Political geographical areas are not held on taxpayers' records. For the SPI, the areas are attached by matching the individual's postcode to the Office for National Statistics Postcode Directory.

#### Industry

Industry categories are based on UK Standard Industrial Classification of Economic Activities 2007 (SIC2007). Income from self-employment (sole trade and partner) is assigned an industry using the nature of business text descriptions supplied on Self-Assessment Returns.

#### **National Insurance and PAYE System (NPS)**

NPS is the computer system HMRC uses to administer PAYE. It replaced COP and is the source of PAYE data for SPI for tax year 2008-09 onwards.

### National Insurance Recording System 2 (NIRS2)

This computer system is used to monitor payment of National Insurance (NI) contributions and to calculate and prove entitlement to contributory benefits. These include Job Seekers

Allowance (JSA) and the National Insurance Pension. It provides contribution information to a number of government departments.

#### P14s

Form P14 is an End of Year summary for an employment that is submitted by the employer to HMRC, showing pay, tax and NI contributions for the year. The employer provides similar information to the employee on an end of year certificate, form P60.

#### Pay As You Earn (PAYE)

PAYE is the system used by HMRC to collect and account for income tax on earnings from employment and pensions. Income Tax and National Insurance Contributions are deducted by the employer and paid over to HMRC on behalf of the individual for each pay period.

#### **Personal Allowance**

This is the amount of income you can receive for the tax year without having to pay tax on it.

#### **Savings Income**

A particular class of income that includes interest on bank and building society accounts.

# Self-Assessment (SA)

SA is a system where an individual declares their income and can calculate their own income tax due after the end of the tax year. Taxpayers included in SA can be higher earners, self-employed and taxpayers with complex tax affairs.

#### Starting rate limit/Starting rate for savings limit

This is the highest income point for taxable income (after allowances) at which starting rate income tax is charged. From 2008-09 the starting rate was abolished for non-savings income and applied only to non-dividend savings income.

#### **Superannuation contributions**

These are the regular amounts paid by an employee into an employer occupational pension fund which are deducted from the employee's salary. Superannuation contributions to an authorised fund or scheme are not liable to income tax and the employer would deduct the amount of superannuation contributions from the gross pay before assessing the income tax liability through PAYE.

#### **Survey of Personal Incomes (SPI)**

An annual survey of individuals who could be liable for income tax derived from HMRC administrative systems holding data on persons within PAYE, SA and income tax claims.

### Tax liabilities

The amount of income tax due on taxable income after applying tax rates to the tax base. The income tax liability for each sample case in SPI is calculated by reference to the amounts of income by type, deductions and reliefs and the tax regime parameters that apply for the year. The calculated liability for a tax year will differ from the amount of tax receipts collected in a financial year.

# Tax receipts

The amount of income tax collected by HMRC. The SPI measures the amount of income tax liability for a tax year, but not the amount of receipts in the financial year.

#### **Taxable income**

Income assessable to income tax after allowances.

#### **Taxpayer**

An individual calculated to have a positive income tax liability for the tax year, based on the income, allowances, reliefs and deductions for the year.

#### **Total income**

The sum of an individual's components of income taken into account in calculating income tax. This includes earnings from employment, profits from self-employment, pension income, some social security benefits, savings income, income from shares (dividends), rental income, and income paid from trusts. It excludes:

- gains from the disposal of assets that are classified as capital gains
- interest, dividends or bonuses from tax exempt investments (for example, ISAs and National Savings & Investments Savings Certificates)
- interest and terminal bonuses from Save As You Earn Schemes
- Premium Bond, National Lottery and gambling prize winnings

It is before relief for contributions to occupational and personal pensions, other deductions and reliefs or personal allowances.

In the tax system, income is streamed into three main categories: Dividends; Savings Income (not dividends); Non-savings income as different rules apply.