

Fraud and Error in the Benefit System: Background information

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<https://www.gov.uk/government/collections/fraud-and-error-in-the-benefit-system>

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1 Executive Summary of changes to methodology

Rotational Sampling (6.4 – 6.6)

- 1.1 Rotational sampling has been introduced, for data collection between April 2017 and September 2019, so that a selection of hard to reach areas will only be selected within the sample at least once in a three year period.
- 1.2 This is the first year of published results that incorporate rotational sampling. Analysis completed on published statistics from previous years shows that the impact would be negligible – with changes to fraud and error levels of less than 0.05% for each benefit affected.

Desk-Based Reviews Pilot for Housing Benefit (6.7 – 6.9)

- 1.3 Following the evaluation of the pilot of desk based reviews for the working age passported Housing Benefit client group between April 2017 and September 2018, it has been decided to continue with face to face reviews for this client group; this publication is therefore based solely on face to face review cases. The consequence is that the sample size is smaller for this client group, and the confidence intervals may be wider than in previous years.

Personal Independence Payment (6.10 – 6.12)

- 1.4 PIP estimates of fraud and error were published for the first time within the 2016/17 final results. Two small changes have been made in the latest 2017/18 publication.
 - The error category 'Medical Needs' has been changed to 'Functional Needs'. This has no impact on the results and is simply a name change.
 - The official error only sample for claimants with a new award or reviewed award within 3 months ceased from July 2016. It is assumed that the level of fraud and error within these cases is a similar level to those cases that are reviewed.

Universal Credit (6.13 – 6.25)

- 1.5 The Universal Credit fraud and error estimates in the published national statistics were previously based on Live Service cases only which is the intermediary system in place to administer Universal Credit until the full online service is fully rolled out. Monetary value of fraud and error estimates were based on the assumption that Full Service fraud and error rates would be similar to those being found in Live Service.
- 1.6 The final 2017/18 Universal Credit fraud and error estimates are based, for the first time, on Live and Full service cases. Measurement of Full service began in October 2017 and 6 months' worth of data was available, resulting in a total of 1,551 Universal Credit cases sampled, of these 329 were Full service.
- 1.7 The inclusion of full service and a review of existing assumptions has led to methodology/assumption changes around expenditure, cases not reviewed and Official Error only checks.

Error Code Framework changes (6.26 – 6.29)

- 1.8 Every year, changes are made to the Error Code Framework, usually in October. These changes might bring in new error categories or change existing categories. At this time we review how these categories map over to the breakdowns we produce as part of our publication. For this publication we have aligned the definition of 'income – other' and 'income – other benefits' across the six continuously measured benefits, which has resulted in some small changes for Pension Credit and Housing Benefit pension age customers.

Data Quality Adjustment (6.30 – 6.32)

- 1.9 The measurement processes are subject to a series of validation checks, which aim to check that the measurement methodology is being correctly implemented. A randomly selected sub-sample of cases are used to create an adjustment across the sample population, by assuming that the same rate of incorrectness/change applies to all cases.
- 1.10 The movement to a new publication pipeline methodology and introduction of more refined and targeted data cleansing mean that this Data Quality Adjustment (DQA) is no longer required. The changes resulting from data cleansing and DQA checks are used as the final and correct outcome in the data processing and hence are incorporated directly into the calculations.

Movement to a new publication pipeline (6.33 – 6.36)

- 1.11 Between the 2017/18 preliminary publication in May 2018 and the 2017/18 final publication in December 2018, we started to simplify and align the methodology for each continuously measured benefit. Currently this new publication pipeline contains Jobseeker's Allowance, Employment Support Allowance, Pension Credit, State Pension (Official Error checks only), Housing Benefit and Universal Credit.
- 1.12 For Housing Benefit, there was a significant change to how grossing and extrapolation were carried out, when bringing it in line with the other benefits. At an overall benefit view, the effect of the change is negligible – however, when viewing at lower levels, such as the working age/pension age split, a bigger difference can be seen. The previous methodology increased the values associated with pension age claimants and decreased the values of the working age claimants more than the new process does. This also has a knock-on effect on published error reason categories at a total HB level, as reasons associated to a greater degree with either working age or pension age claimants will be affected.

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2 Introduction

- 2.1 The main statistical release and supporting tables and charts provide estimates of fraud and error for benefit expenditure administered by the Department for Work and Pensions (DWP). This includes a range of benefits for which we derive estimates using different methods, as detailed in 'Our Measurement System' below. For further details on which benefits are included in the total fraud and error estimates please see Appendix 3. For more information on the benefit system and how DWP benefits are administered please see:
<https://www.gov.uk/browse/benefits>
- 2.2 The fraud and error estimates can be used to obtain estimates for the amount overpaid or underpaid in total and by benefit, broken down into the types of fraud, claimant error and official error, across Jobseeker's Allowance (JSA), Employment and Support Allowance (ESA), Pension Credit (PC), Housing Benefit (HB), Universal Credit (UC) and Personal Independence Payment (PIP). These benefits are referred to as 'continuously reviewed benefits' throughout the rest of the document.
- 2.3 Within DWP these statistics are used to evaluate, develop and support fraud and error policy, strategy and operational decisions, initiatives, options and business plans through understanding the causes of fraud and error.
- 2.4 The fraud and error statistics published in May each year, feed into the DWP accounts. The preliminary 2017/18 estimates published in May 2018 fed into the 2017/18 DWP annual report and accounts published in June 2018:
<https://www.gov.uk/government/publications/dwp-annual-report-and-accounts-2017-to-2018>
- 2.5 The statistics are also used within the annual HM Revenue and Customs National Insurance Fund accounts. These are available in the National Insurance Fund Accounts section of the HMRC reports page:
<https://www.gov.uk/government/publications/national-insurance-fund-accounts>
- 2.6 The fraud and error estimates are used to answer Parliamentary Questions and Freedom of Information requests. Please note that we are unable to answer questions about individual fraud and error cases or provide sub national estimates of fraud and error as we do not break the statistics down to this level. This is because the sample sizes for the current survey exercises are chosen to report fraud and error at the Great Britain level only – therefore, reporting at a lower country/regional level could lead to unrepresentative and misleading conclusions.
- 2.7 We carried out a consultation on these statistics in Summer 2018, around how often we should publish our estimates and which benefits we should measure. More information can be found at: <https://www.gov.uk/government/consultations/changes-to-the-fraud-and-error-statistics>
- 2.8 For more information on how our estimates are used and by whom please refer to the below document published in "Uses and Users of the DWP Fraud and Error in the Benefits System Statistics" at:
<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>

3 Our measurement system

Estimates of fraud and error for various benefits have been derived using three different methods:

Continuously reviewed benefits

- 3.1 Fraud, claimant error and official error (see definitions below) for JSA, ESA, PC, HB, UC and PIP are measured on a continuous basis. Expenditure on these benefits accounts for 32% of all benefit expenditure. Official error is measured continuously for State Pension, meaning that 84% of all benefit expenditure is measured for official error on a continuous basis.
- 3.2 Estimates are produced by statistical analysis of data collected through continuous survey exercises, in which independent specially trained staff from the Department's Performance Measurement (PM) team review a randomly selected sample of cases for continuously reviewed benefits each year.
- 3.3 The review process involves the following activity:
 - Previewing the case by collating information from a variety of DWP or Local Authority (LA) systems to develop an initial picture and to identify any discrepancies between information from different sources.
 - Interviewing the claimant at their home, using a structured and detailed set of questions about the basis of their claim. For UC the interview is completed as a telephone review in the majority of cases. However, where this is not appropriate, there is also the option to make a home visit to the claimant or for a completed review form to be returned by post.
 - The interview aims to identify any discrepancies between the claimant's current circumstances and the circumstances upon which their benefit claim was based.
- 3.4 If a suspicion of fraud is identified, an investigation is undertaken by a trained Fraud Investigator with the aim of resolving the suspicion.
- 3.5 Between April 2017 and March 2018 the following number of benefit claims were sampled and reviewed by the PM team.

	Sample size	Percentage of claimant population reviewed
Housing Benefit	6,450	0.2%
Jobseeker's Allowance	1,000	0.2%
Pension Credit	2,000	0.1%
Employment and Support Allowance	2,425	0.1%
Universal Credit	1,555	0.2%
State Pension (official error only)	2,400	0.0%
Personal Independence Payment ¹	1,080	0.1%
Total	16,910	

3.6 Overall, approximately 0.1% of all benefit claims included in DWP Global estimates were sampled and reviewed by the PM team.

3.7 Information about the Performance Measurement Team can be found at: <https://www.gov.uk/dwp-visit>

Occasionally reviewed benefits

3.8 Since 1995, the Department has carried out National Benefit Reviews (NBRs) for various benefits to estimate the level of fraud and error in a particular financial year following the same process outlined in 3.3 above. These benefits cover 61% of total expenditure. Please see Appendix 3 for details of benefits covered by occasional reviews.

3.9 Our recent consultation included a question on which benefits we should measure in future years. Further information can be found at: <https://www.gov.uk/government/consultations/changes-to-the-fraud-and-error-statistics>

Unreviewed benefits

3.10 The remaining benefits, which account for around 7% of total benefit expenditure, have never been subject to a specific review. These benefits tend to have relatively low expenditure which means it is not cost effective to undertake a review. For these benefits the estimates are based on assumptions about the likely level of fraud and error.

3.11 For some of these benefits the estimates of fraud and error are based on comparable measured benefits. Severe Disablement Allowance, for example, has many similarities to ESA, both in terms of entitlement and its administration. Therefore, the estimate of fraud and error in Severe Disablement Allowance is based on the results of measurement of ESA.

¹ Personal Independence Payment uses data taken from the period from February 2017 to January 2018 and so does not align completely with other continuously measured benefits.

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- 3.12 Where there is no similar measured benefit it is assumed that fraud and error is equal to the average estimate of fraud and error across all measured benefits.

4 Definitions of fraud, claimant error and official error

4.1 The tables presented in the statistical report estimate fraud, claimant error and official error. The definitions are explained further below:

- **Fraud:** This includes all cases where the following three conditions apply:
 - the conditions for receipt of benefit, or the rate of benefit in payment, are not being met;
 - the claimant can reasonably be expected to be aware of the effect on entitlement;
 - benefit stops or reduces as a result of the review
- **Claimant Error:** The claimant has provided inaccurate or incomplete information, failed to report a change in their circumstances, or failed to provide requested evidence, but there is no fraudulent intent on the claimant's part.
- **Official Error:** Benefit has been paid incorrectly due to inaction, delay or a mistaken assessment by the DWP, a Local Authority or Her Majesty's Revenue and Customs to which no one outside of that department has materially contributed, regardless of whether the business unit has processed the information.
- In addition, an error which is initially categorised as claimant error, will instead be categorised as official error where the error has clearly been caused by an official of the Department/LA, and the ESA/JSA/HB business unit (or, for PC, the pension centre) is in possession, from whatever source, of the true facts, regardless of whether the information has been processed by the business unit.

4.2 Note that the current methodology states that all errors (fraud, claimant error and official error) found on a case are recorded separately and the full values of each error are recorded in isolation of one another. This can lead to the sum of the error values being higher than the benefit award. In such cases a capping calculation is performed (using a fraud, claimant error, official error hierarchy) to ensure that the sum of the errors does not exceed the award, so that the monetary value of fraud and error is not over-reported. This can lead to some of the originally captured fraud, claimant error and official error raw sample values being reduced during the calculation of the estimates.

4.3 For more information on the methods used to produce these estimates and how they are quality assured please refer to the supporting documents at: <https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>

4.4 Further information on the breakdown of error classifications within the continuously reviewed benefits is available in Appendix 4.

5 Interpretation of the results

5.1 Care is required when interpreting the results presented in the main report:

- The estimates are based on a random sample of the total benefit caseload and are therefore subject to statistical uncertainties. This uncertainty is quantified by the estimation of 95% confidence intervals surrounding the estimate. These 95% confidence intervals show the range within which we would expect the true value of fraud and error to lie.
- When comparing two estimates, users should take into account the confidence intervals surrounding each of the estimates. The calculation to determine whether the results are significantly different from each other is complicated and takes into account the width of the confidence intervals. We perform this robust calculation in our methodology and state in the report whether any differences between years are significant or not.
- None of the changes over time for continuously reviewed benefits are statistically significant at a 95% level of confidence, unless specifically stated within the chart and table commentary. If changes are not statistically significant then they are likely to be due to sampling variation.

5.2 As well as sampling variation, there are many factors that may also impact on the reported levels of fraud and error and the time series presented.

- **These estimates are subject to statistical sampling uncertainties.** All estimates are based on reviews of random samples drawn from the benefit caseloads. In any survey sampling exercise, the estimates derived from the sample may differ from what we would see if we examined the whole caseload. Further uncertainties occur due to the assumptions that have had to be made to account for incomplete or imperfect data or using older measurements.
- **A proportion of continuously reviewed benefit expenditure cannot be captured by the sampling process.** This is mainly because of the delay between sample selection and the interview of the claimant, and also the time taken to process new benefit claims, which excludes the newest cases from the review. The estimates in the tables in this release have been extrapolated to cover all expenditure. We consider that the remaining unquantifiable uncertainty from this source is relatively small.
- **The estimates do not encompass all fraud and error.** This is because fraud is, by its nature, a covert activity and some suspicions of fraud on the sample cases cannot be proven. For example, unreported earnings in the informal economy will be much harder to detect than those in the formal economy. Complex official error can also be difficult to identify.
- **Some incorrect payments may be unavoidable.** The measurement methodology will treat a case as incorrect, even where the claimant has promptly reported a change and there is only a short processing delay.

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- 5.3 For more information regarding sampling uncertainties and interpreting confidence intervals please refer to the below document published in “Fraud and Error Measurement – Variance and Confidence Intervals” at:
<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>

6 Methodology Changes

- 6.1 This section provides detail of methodology changes for the 2017/18 final publication. Any historical changes prior to 2017/18 are summarised in appendix 5.
- 6.2 For more information on the full set of assumptions for 2017/18, please see the Technical Appendix <https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>
- 6.3 There have been some changes to sampling methodology during 2017/18, detailed below.

Rotational Sampling

- 6.4 Since it is not possible to review every benefit claim, a representative sample of cases is selected. Cases to be reviewed are randomly selected, often from a group of local authorities which we call Primary Sampling Units (PSUs)². Within some of these PSUs there are areas which are hard to reach, meaning the cost to sample is expensive.
- 6.5 Rotational sampling has been introduced so that a selection of hard to reach areas will only be selected within the sample at least once in a three year period. This rotational sampling has initially been introduced for data collection between April 2017 and September 2019. The areas excluded are:
- April 2017 – September 2017: Highlands, Moray and Argyll and Bute
 - October 2017 – September 2018: Cornwall, West Devon, South Hams, Teignbridge, Torridge, Allerdale, Copeland and Barrow-in-Furness
 - October 2018 – September 2019: Cornwall, West Devon, South Hams, Teignbridge, Torridge, Highlands, Moray, and Argyll and Bute
- 6.6 This is the first set of published results that incorporate rotational sampling. Analysis completed on published statistics from previous years shows that the impact would be negligible – with changes to fraud and error levels of less than 0.05% for each benefit affected.

Desk-Based Reviews Pilot for Housing Benefit

- 6.7 The majority of reviews completed take place via a face to face visit, with the exception of Universal Credit where they are completed as a desk-based review via the telephone.
- 6.8 Desk-based reviews for the working age passported HB client group have been piloted during the period April 2017 to September 2018. For this pilot the sample has been split evenly between face to face reviews and desk based reviews (where the desk based reviews fall into the pilot group).

² Universal Credit is not sampled using PSU as reviews are completed via a telephone desk based review, hence location is not a consideration.

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- 6.9 Following the evaluation of the pilot, it has been decided to continue with face to face reviews for this client group; this publication is therefore based solely on face to face review cases. The consequence is that the sample size is smaller for this client group, and the confidence intervals may be wider than in previous years.

Personal Independence Payment

- 6.10 The error category 'Medical Needs' has been changed to 'Functional Needs'. This has no impact on the results and is simply a name change.
- 6.11 When PIP measurement began in October 2015, a small separate sample of cases were selected for an official error only check, where the claimant had a new award or reviewed award within three months. The sample ceased to be reviewed from July 2016; only one error was identified within this sample.
- 6.12 Around 4% of the population in 2017/18 have a new or reviewed award less than 3 months old and are excluded from the sample. It is assumed that the level of fraud and error within these cases is a similar level to those cases that are reviewed.

Universal Credit

- 6.13 UC Live service was an intermediary system used to administer the majority of UC claims to date, predominantly single unemployed jobseekers, until the full online service is fully rolled out. The new system, referred to as Full Service, is open to all UC claimant types depending on location.
- 6.14 Previously published UC fraud and error estimates were based on cases sampled from the Live Service system only. This means that monetary estimates were based on an assumption that Full Service fraud and error rates are similar to those found in Live Service.
- 6.15 Measurement of Full Service began in October 2017 and 6 months' worth of data was available for inclusion in the UC fraud and error estimates for 2017/18. A total of 1,551 UC cases were sampled in 2017/18, of these 329 were Full Service. The inclusion of Full Service and a review of existing assumptions has led to a number of methodology/assumption changes.

Expenditure

- 6.16 The method for producing the overall fraud and error rates involves calculating the rates separately for each service before combining to produce the overall UC estimates. This required total UC expenditure to be apportioned by service for use in the calculations.
- 6.17 Analysis of award amounts held in the caseload data that underpins UC official statistics produced an estimated expenditure split of 55% for Full Service and 45% for Live Service. These percentages were applied to overall UC expenditure and the resulting service level expenditure amounts were used in the calculation of the rates for each service.
- 6.18 This proportional split is an intermediary measure that will be in place until the estimates are based entirely on Full Service cases. The split will need to be recalculated and applied in 2018/19 estimates; beyond this point it is envisaged that

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the estimates will be based on Full Service only and a split of expenditure will not be required.

Assumptions for cases not reviewed

- 6.19 In 2017/18 around 4% of sample cases did not have an effective review, primarily due to the claimant not engaging in the review process, resulting in their benefit claim being suspended and later terminated. These cases are referred to as 'cannot review' and have a recorded outcome of Fraud. Not all of these cases will be fraud – for instance, if someone has recently moved in to work and off benefit they are less likely to participate in a review. For this reason an assumption is applied to estimate the proportion of these cases that are likely to be Fraud.
- 6.20 In previous publications it was assumed that 20% of cannot review cases would result in fraud overpayments. This assumption was based on an information gathering exercise; however, the exercise could not be repeated or updated. An options appraisal was conducted which resulted in the introduction of the following assumption for the 2017/18 final publication.
- 6.21 Cannot review cases are re-categorised for reporting purposes as either Fraud, not fraud or inconclusive. Details on the criteria used to re-categorise these cases is shown below.
- Not Fraud - If the individual reclaims benefit within four months, with the same circumstances and at a similar rate they were receiving prior to review, then the fraud is removed;
 - Fraud remains - If an individual does not reclaim benefit and there was a suspicion of fraud raised at the preview stage of the review, then the case remains as fraud;
 - Inconclusive – If the individual does not reclaim benefit and there was no suspicion of fraud at the preview stage of the review, then the case is categorised as inconclusive, as there is no evidence to suggest the case is fraud or not.
- 6.22 Inconclusive cases are not included in the headline statistics within the publication. However, the estimated expenditure for these cases is detailed in footnotes in the publication and supporting tables.
- 6.23 Based on 2017/18 data the overall rate of overpayments would be broadly the same between the two methodologies.

Official Error only checks

- 6.24 There are two types of official error only checks completed on UC. These are:
- Abandoned cases – a sample of two abandoned cases per month are selected and checked for official error only;
 - Zero payment cases – a sample of five cases per month that are not in payment are selected and checked for official error. These would only result in an underpayment error and these ceased to be checked in October 2017.
- 6.25 A decision has been made to cease official error only checks for abandoned cases. The reasons for this are that the sample taken is small and has a negligible impact

on the results (less than 0.01%). However, the complexity of including these in the calculation was disproportionate. Given the movement to a new publication pipeline and simplification of the calculation process, it was deemed timely to remove all official error only cases from the calculation and methodology.

Error code framework changes

- 6.26 Every year, changes are made to the Error Code Framework, usually in October. These changes might bring in new error categories or change existing categories. At this time we review how these categories map over to the breakdowns we produce as part of our publication.
- 6.27 For this publication, we have aligned the definition of ‘income – other’ and ‘income – other benefits’ across the six benefits that are measured every year. This has resulted in some changes for PC and HB pension age customers. For these groups, some errors which had previously been categorised as ‘income – other’ are now classed as ‘income – other benefits’. This means that the estimates for these categories for 2017/18 cannot be compared to previous years.
- 6.28 The table below summarises the change for PC, showing how the new categorisation affects the figures from the 2016/17 estimates. For example, there was an increase of £39m in underpayments in the ‘income – other benefits’ category between the published 2016/17 and 2017/18 final estimates. £28m of this change was due to the change in the mapping of the categories, and £11m was due to a change in the data between 2016/17 and 2017/18.

	2016/17 estimates (Old Error Code framework)		2016/17 estimates (New Error Code framework)		2017/18 estimates (New Error Code framework)	
	Rate	MVFE	Rate	MVFE	Rate	MVFE
Overpayments						
<i>Income – other benefits</i>	0.0%	£2m	0.2%	£10m	0.4%	£20m
<i>Income – other</i>	0.5%	£27m	0.3%	£19m	0.2%	£12m
Underpayments						
<i>Income – other benefits</i>	0.0%	£0	0.5%	£28m	0.7%	£39m
<i>Income – other</i>	0.5%	£30m	0.0%	£2m	0.0%	£2m

- 6.29 Changes in the estimates for HB pension age customers were less than those for PC, and are not detailed further here, due in part to the more complex nature of the HB calculation methodology which means it is not possible to produce a version of the above table.

Data Quality Adjustment (DQA)

- 6.30 The measurement processes are subject to a series of validation checks, which aim to check that the measurement methodology is being correctly implemented. A randomly selected sub-sample of cases are checked after the results of the individual reviews have been completed. The methodology for incorporating these checks into the calculation and production of the National Statistics has changed.

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- 6.31 Previously, the DQA checks were used to calculate a bias adjustment which was then applied to all cases within the sample population, by assuming that the same rate of incorrectness/change would apply to all cases. However, a consequence of using this adjustment was that it created complexity and introduced further sampling uncertainty. In addition, the adjustments had very little impact on the rates and the MVFE reported (less than £1m for most benefits).
- 6.32 The movement to a new publication pipeline methodology (see paragraph below), and introduction of more refined and targeted data cleansing, mean that the DQA adjustment is no longer required. The changes resulting from data cleansing and DQA checks are used as the final and correct outcome in the data processing and hence incorporated directly into the calculations.

Movement to a new publication pipeline

- 6.33 Between the 2017/18 preliminary publication in May 2018 and the 2017/18 final publication in December 2018, we started to simplify and align the methodology for each continuously measured benefit. Previously the statistics for each continuously measured benefit were created separately using different processes, with each process doing roughly the same thing but in slightly different ways. This new publication pipeline means that the statistics for all continuously measured benefits can be created at the same time in a more efficient manner, with aligned methodologies. Currently this new publication pipeline contains JSA, ESA, PC, SP, HB and UC.
- 6.34 For SP the new pipeline made no difference to the figures.
- 6.35 For JSA, ESA, PC and UC the new pipeline made no difference to figures outside of those previously mentioned in the section on DQA.
- 6.36 For HB, there was a significant change to how grossing and extrapolation were carried out, when bringing it in line with the other benefits. These changes also give outputs at an individual level rather than an aggregate level, which may allow us to give further breakdowns of HB in the future. At an overall benefit view, the effect of the change is negligible – however, when viewing at lower levels, such as the working age/pension age split, a bigger difference can be seen. The previous methodology increased the values associated with pension age claimants and decreased the values of the working age claimants more than the new process does. This also has a knock-on effect on the published error reason categories at a total HB level, as reasons associated to a greater degree with either working age or pension age claimants will be affected. For example, the error reason of earnings and employment shows the biggest difference between the methodologies. This error reason is much more prevalent in working age claimants, and is, as explained above, higher with the new process than with the old methodology. The tables in appendix 6 show the results of the 2016/17 final publication (published in November 2017) created using the old and the new method to illustrate the magnitude of the changes.

7 Future Reporting

- 7.1 The next set of fraud and error statistics have a provisional publication date of April/May 2019. This report will provide the final fraud and error estimates for the 2018/19 financial year.
- 7.2 The future coverage and scope of the national statistics “Fraud and Error in the Benefit System” will be kept under review and users will be kept informed of our plans via a Publication Strategy document:
<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-publication-strategy>
- 7.3 The National Statistics Code of Practice allows for revisions of figures under controlled circumstances: “Statistics are by their nature subject to error and uncertainty. Initial estimates are often systematically amended to reflect more complete information. Improvements in methodologies and systems can help to make revised series more accurate and more useful.”
- 7.4 Unplanned revisions of figures in reports in this series might be necessary from time to time. Under this Code of Practice, the Department has a responsibility to ensure that any revisions to existing statistics are robust and are freely available, with the same level of supporting information as new statistics.

Appendix 1: Glossary of abbreviations

CA	Carer's Allowance
DLA	Disability Living Allowance
DQA	Data Quality Adjustment
DWP	Department for Work and Pensions
ESA	Employment and Support Allowance
HB	Housing Benefit
HMRC	Her Majesty's Revenue and Customs
IS	Income Support
JSA	Jobseeker's Allowance
LA	Local Authority
MVFE	Monetary Value of Fraud and Error
NBR	National Benefit Review
PC	Pension Credit
PIP	Personal Independence Payment
PM	Performance Measurement
PSU	Primary Sampling Unit
SP	State Pension
UC	Universal Credit

Appendix 2: Supporting material

Tables and charts

The latest additional results are available as an excel spreadsheet by following the link to Supplementary Tables from here: <https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-2017-to-2018-estimates>

<u>Table 1</u>	Time series of Amount of Expenditure Overpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 2</u>	Time series of Percentage of Expenditure Overpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 3</u>	Amount of Expenditure Overpaid by Client Group, Error Type and Error Reason – 2017/18
<u>Table 4</u>	Percentage of Expenditure Overpaid by Client Group, Error Type and Error Reason – 2017/18
<u>Table 5</u>	Time series of Percentage of Cases Overpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 6</u>	Overpayments by Client Group, Error Type, Gender and Age Group – 2017/18. Percentage of Expenditure and Amount Overpaid.
<u>Table 7</u>	Time series of Amount of Expenditure Underpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 8</u>	Time series of Percentage of Expenditure Underpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 9</u>	Amount of Expenditure Underpaid by Client Group, Error Type and Error Reason - 2017/18
<u>Table 10</u>	Percentage of Expenditure Underpaid by Client Group, Error Type and Error Reason - 2017/18
<u>Table 11</u>	Time Series of Percentage of Cases Underpaid by Client Group and Error Type - 2005/06 to 2017/18
<u>Table 12</u>	Underpayments by Client Group, Error Type, Gender and Age Group - 2017/18. Percentage of Expenditure and Amount Underpaid.
<u>Table 13</u>	Net Loss to Government: Removing Recoveries From Overpayments - 2009/10 to 2017/18. Percentage of Expenditure and Amount.

Technical documentation for the continuously reviewed benefits

<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>

Published documents relating to our National Statistics

<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports>

“Uses and users of the DWP fraud and error in the benefit system statistics”

“Quality methods”

“Fraud and error measurement: variance and confidence Intervals”

“Ad hocs and pricing policy”

Published strategy relating to our National Statistics

<https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-publication-strategy>

Appendix 3: List of benefits included in fraud and error estimates

Benefits included	Method of measurement and proxy benefit	Are measures updated?
Jobseeker's Allowance	Continuously Reviewed	Yes
Pension Credit	Continuously Reviewed	Yes
Housing Benefit	Continuously Reviewed	Yes
Employment and Support Allowance	Continuously Reviewed	Yes
Universal Credit	Continuously Reviewed	Yes
Personal Independence Payment	Continuously Reviewed	Yes
State Pension	Official error is continuously reviewed. Fraud and claimant error uses latest measured State Pension.	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used
Income Support	Occasionally Reviewed	No: rates from October 2013 – September 2014 are used
Disability Living Allowance	Occasionally Reviewed	No: rates from April 2004-March 2005 are used
Incapacity Benefit	Occasionally Reviewed	No: rates from October 2009-September 2010 are used
Carer's Allowance	Occasionally Reviewed	No: rates from April 1996-March 1997 are used
Christmas Bonus	Unreviewed, proxy measure: General *	Yes
Maternity Allowance	Unreviewed, proxy measure: Employment and Support Allowance	Yes
Statutory Sick Pay	Unreviewed, proxy measure: General *	Yes
Statutory Maternity Pay	Unreviewed, proxy measure: General *	Yes
Industrial Disablement Benefit	Unreviewed, proxy measure: Disability Living Allowance	No: rates from April 2004-March 2005 are used
Industrial Death Benefit	Unreviewed, proxy measure: State Pension	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used

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Benefits included	Method of measurement and proxy benefit	Are measures updated?
Attendance Allowance	Unreviewed, proxy measure: Disability Living Allowance	No: rates from April 2004-March 2005 are used
Specialised Vehicle Allowance	Unreviewed, proxy measure: Disability Living Allowance	No: rates from April 2004-March 2005 are used
Winter Fuel Payments	Unreviewed, proxy measure: State Pension	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used
Armed Forces Independence Payment	Unreviewed, proxy measure: Disability Living Allowance	No: rates from April 2004-March 2005 are used
Cold Weather Payments	Unreviewed, proxy measure: Jobseeker's Allowance	Yes
Over 75 TV Licence	Unreviewed, proxy measure: State Pension	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used
Financial Assistance Scheme	Unreviewed, proxy measure: State Pension	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used
Severe Disablement Allowance	Unreviewed, proxy measure: Employment and Support Allowance	Yes
Widow's Benefit / Bereavement Benefit	Unreviewed, proxy measure: Jobseeker's Allowance	Yes
State Pension Transfers	Unreviewed, proxy measure: State Pension	Yes for official error. Not for fraud and claimant error: rates from April 2005-March 2006 are used

* The General proxy is determined by: Income Support, Jobseeker's Allowance, Pension Credit, Housing Benefit, Disability Living Allowance, State Pension, Carer's Allowance, Incapacity Benefit, Employment and Support Allowance, Universal Credit and Personal Independence Payment.

Appendix 4: Error Classifications within the continuously reviewed benefits

A Glossary of the current error types for over and underpayments is given below:

- **Abroad** – claimant left Great Britain after claim began, did not notify DWP before leaving and is confirmed to be abroad for a period that exceeds any allowable absence limit.
- **Award Determination** – where a Case Manager from the DWP makes an incorrect award of PIP based on the declared functional needs of the claimant. This includes failing to consider the qualifying period.
- **Capital** – concealed or incorrect declaration of the amount of savings in bank or building society accounts, cash, ISA/PEPs, premium bonds, other property interests or shares that exceed the minimum value for capital limits.

Capital official errors include incorrect calculation by DWP staff of the value of declared savings, money and other financial assets available to the claimant, or failure to correctly adjust tariff levels and amend the benefit entitlement due.

- **Childcare Costs** – Childcare costs incorrectly included or excluded or an incorrect declaration of the amount of childcare costs for the childcare element of UC.
- **Conditions of entitlement** – undeclared change in personal circumstances of claimant or their partner that would end entitlement to a benefit. Examples are being in full-time education, long-term hospitalisation, imprisonment, death and assuming a false identity.

Includes staff failing to act on information received raising doubt on basic entitlement to benefit. For Universal Credit this includes failing to agree and/or sign a claimant commitment but UC being put into payment.

- **Control Activities** – failure of staff to conduct actions at the due time which otherwise may have changed the level of benefit payable. For example not conducting routine interviews where claimant non-participation can result in a benefit sanction or late notification of benefit disallowances.
- **Claimant Untraceable** – previously reported as 'Not at Address'. Following repeated efforts by DWP staff to interview the claimant, they did not present themselves for interview and the claim was terminated. The suspicion remaining is that DWP disrupted an active, but unknown type of fraud or error.
- **Earnings/Employment** – concealment or under-declaration of full or part-time work undertaken during the claim by the claimant or their partner. This work can be for an employer or self-employment. Staff failing to correctly calculate the amount of monthly benefit due for claimants who have declared any paid work they or their partner have undertaken during the claim.

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- **Functional Needs** – where the claimant has failed to declare a change in their ability to carry out any of the 12 activities on which PIP is considered, or misrepresented their abilities when making their claim (whether intentionally or not).
- **Household composition** – failing to disclose changes in household composition, for example a non-dependant leaving. In older claims where Tax Credits are not being claimed, claiming incorrectly for number of children (or their specific circumstances) which increases the value of DWP benefits payable, or claiming for adult partners who leave the household.

Includes incorrect action by staff taken in respect of other people the claimant declared living with them. This includes a partner or dependent children incorrectly omitted or included in the assessment (with due regard to entitlement to any disability premium or benefit reductions due to long-term hospitalisation).

- **Housing costs** – DWP provides financial assistance with the costs of mortgages, ground rent and service charges. Claimants fail to disclose payment of or changes to housing costs, for example service charges, or fail to declare sale of property, or a change of address which would end the extra amounts payable. For Universal Credit this includes determining the housing cost element that replaces housing benefit, this can include calculation of the rent amount, correctly incorporating rent free weeks and size criteria.

DWP can also inaccurately calculate the mortgage interest, ground rent or service charges, or incorrectly calculate awards of extra benefit to help with mortgage payments due to wrong start dates or by ignoring mortgage protection policies.

- **Income - Occupational and Personal Pensions** – concealed or incorrect declaration of income received from a non-state pension, obtained through contributions paid in past employment schemes, annuities or personal investments.

DWP staff failing to take into account the correct amount of non-state pensions declared by the claimant.

- **Income - Other benefits** – concealed or under-declaration of income received from another benefit or tax credit.

DWP IT systems or staff have failed to take into account the correct value of other social security benefits currently paid to the claimant or partner, including benefits paid by a foreign state.

- **Income - Other** – concealed or under-declaration of income coming into the household from sources such as HMRC Tax Credits, sick pay from work, spousal maintenance, partner's student income, unemployment or similar insurance policy payments.

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Failure by staff to correctly identify or record other money coming into the household, such as HMRC Tax Credits, Child Benefit, sick pay from work, spousal maintenance, partner's student income, unemployment or similar insurance policy payments.

- **Labour Market Issues** – lack of evidence of staff enforcement of jobseekers fulfilling legal requirements. These include actively seeking and being available for work, non-compliance with or absence of a valid Jobseeker's Agreement, not imposing sanctions when employment is refused and not following up job submissions.
- **Living Together** – where a claimant declares to be single, but has failed to declare they actually live with another person and maintain a joint household.
- **Loss of Claimant Contact** - where contact with the claimant is lost and they do not engage with the full review process. This can either be through not being available to complete the review; or requesting that their claim to benefit is withdrawn.
- **Non-dependant deductions** – failing to report that another adult, who is not financially dependent on them (e.g. another immediate family member), lives in their household, or has left the household, or their circumstances have changed. Subject to personal income, the other person is expected to contribute to household expenses, reducing any benefit payable to the claimant.
- **Other** – this covers a range of different cases not covered in the categories above or below.
- **Passporting** – relevant to Housing Benefit only. Working age claimants are required to inform the Local Authority paying Housing Benefit of any changes in their circumstances, including when DWP benefits end. Failure to do so can result in HB continuing to be paid.

It includes communication failures between different IT systems that notify the termination of a claimant's means-tested DWP benefit to the Local Authority, impacting the HB award, or LA staff failing to act on the information received.

- **Premiums/Elements** – *Premiums*: DWP can pay additional amounts in means-tested benefits when other benefits are also being paid, for example Disability or Carer's allowances. This often introduces additional criteria for staff to consider before deciding the qualification for the extra amounts.

Elements (UC only) – The award of UC is made up of a number of different Elements. Some of these are treated in this report in a similar way to Premiums in Legacy benefits, for example Carer Element, Disabled Child Element and Work Capability Elements. Child Care Costs and Housing Costs (also Elements in their own right) are recorded separately.

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Premiums and Elements: Claimants also fail to report when the other benefit commences, or the rate payable changes or ceases, leading to an overpayment or underpayment of the benefit premiums.

- **Residency** – errors relating to Housing Benefit claimants only, where DWP confirms that the claimant no longer lives at the address being paid for. Residency in Great Britain is a condition of entitlement to Income Support, Jobseeker's Allowance and Pension Credit.
- **Tax Credits** – errors where the amount or existence of tax credits results in an incorrect award of a DWP benefit.

Appendix 5: List of historical methodology changes

Below is a list of the historical methodology changes that have been made since 2005/06.

Methodology change	Included in which published report
<p>Changes to sampling and calculation methods were aimed primarily at making the estimates better represent overpayments in the <i>whole</i> of IS, JSA and PC expenditure.</p>	<p>Fraud and Error in the Benefit System April 2005 to March 2006: Spending Review 2004 target baseline http://webarchive.nationalarchives.gov.uk/20130422101152/http://statistics.dwp.gov.uk/asd/asd2/fem/fem_new_results.pdf</p>
<p>Definitional changes to what is being measured were introduced primarily to make the estimates better relate to the actual impact of fraud and error on expenditure.</p>	<p>Fraud and Error in the Benefit System April 2005 to March 2006: Spending Review 2004 target baseline http://webarchive.nationalarchives.gov.uk/20130422101152/http://statistics.dwp.gov.uk/asd/asd2/fem/fem_new_results.pdf</p>
<p>Incapacity Benefit started to be continuously reviewed for fraud and claimant error as well as official error.</p>	<p>Fraud and Error in the Benefit System: April 2008 – March 2009 – Revised Edition http://webarchive.nationalarchives.gov.uk/20130422101152/http://statistics.dwp.gov.uk/asd/asd2/fem/fem_apr08_mar09.pdf</p>
<p>There was a change in this report to the calculation of the sample weightings for Income Support, Jobseeker’s Allowance and Pension Credit.</p>	<p>Fraud and Error in the Benefit System: April 2009 – March 2010 http://webarchive.nationalarchives.gov.uk/20130422101152/http://statistics.dwp.gov.uk/asd/asd2/fem/fem_apr09_mar10.pdf</p>

Fraud and Error in the Benefit System: Background information

Methodology change	Included in which published
<p>During 2011 the Fraud and Error Measurement (FEM) team have carried out a series of changes to the calculation processes and methodology in order to simplify and align these across the individual benefits. This work has made our processing quicker, more efficient, robust and transparent and easier to quality assure. This in turn will reduce risk in our calculation processes and will enable our team, in the future, to make changes to the computer programs more easily, especially with the advent of Universal Credit, and be more flexible with resources. The new aligned processing system will also make it easier for our customers to interpret and compare findings across the individual benefits.</p>	<p>Fraud and Error in the Benefit System: 2010/11 Estimates https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/222694/fem_1011_revised2.pdf</p>
<p>We have introduced a change to the order in which Income Support, Jobseeker's Allowance and Pension Credit errors are capped within our calculation methodology. They are now capped for fraud first, then claimant error, then official error. In previous reports they were capped for official error first, then fraud, then claimant error. This change aligns the above benefits with the Housing Benefit capping hierarchy.</p>	<p>Fraud and Error in the Benefit System: 2010/11 Estimates https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/222694/fem_1011_revised2.pdf</p>
<p>Since the introduction of Employment and Support Allowance in October 2008 no new claimants have been awarded Incapacity Benefit as they claim Employment and Support Allowance instead. In addition, all current claimants of Incapacity Benefit are being reassessed and will be moved to either Employment and Support Allowance or Jobseeker's Allowance in the near future. For this reason we have stopped measuring Incapacity Benefit for fraud and error on a continuous basis and have re-deployed resources to measure Employment and Support Allowance for Official Error instead, which was reported for the first time in May 2013.</p> <p>For this report and after, the preliminary 2010/11 Incapacity Benefit estimates will be used in our publications and applied to the latest expenditure figures to provide the most up-to-date monetary values of fraud and error.</p>	<p>Fraud and Error in the Benefit System: 2010/11 Estimates https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/222694/fem_1011_revised2.pdf</p>

Fraud and Error in the Benefit System: Background information

Methodology change	Included in which published
<p>A new error code framework was introduced in April 2010 following internal stakeholder consultation and agreement to have more meaningful information on the types of fraud and error.</p> <p>The 2010/11 publication was the first report to include these error code breakdowns. The breakdowns are not comparable to previously published error code breakdowns, i.e. reports before 2010/11.</p>	<p>Fraud and Error in the Benefit System: 2010/11 Estimates https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/222694/fem_1011_revised2.pdf</p>
<p>A change was made to the way in which the extrapolation adjustment was being calculated for Income Support, Jobseeker's Allowance and Pension Credit to ensure it was based on up-to-date assumptions for these benefits.</p> <p>This change was introduced from the Preliminary 2011/12 report onwards.</p>	<p>Fraud and Error in the Benefit System: 2011/12 Estimates https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/244844/fem_1112.pdf</p>
<p>Removal of stratifications for Pension Credit by age (over 80 and under 80): This is a sampling change that was implemented from October 2012; therefore this is the first set of statistics that is partly affected by this change.</p>	<p>Fraud and Error in the Benefit System: 2012/13 Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-201213-estimates</p>
<p>Change to significance testing for continuously reviewed benefits: Improved methodology where we use the bootstrapped values of the estimates of both years. We calculate the difference between each of the bootstrapped values and calculate the 95% confidence interval around the mean. If this confidence interval does not straddle zero, the change is marked as "statistically significant". For more information on Bootstrapping, please see our Variance and Confidence Intervals document: https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports</p>	<p>Fraud and Error in the Benefit System: 2012/13 Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-201213-estimates</p>
<p>Employment and Support Allowance estimates of fraud and claimant error are included in the "Continuously Reviewed" estimates for the first time in the Preliminary 2013/14 results. Full reviews began in October 2012. There is an impact on the Global Estimates as previously fraud and claimant error were estimated using a proxy measure, combining both Incapacity Benefit and Income Support Disabled and Others results.</p>	<p>Fraud and Error in the Benefit System: 2013/14 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-preliminary-201314-estimates</p>

Fraud and Error in the Benefit System: Background information

Methodology change	Included in which published
<p>An additional level of stratification was introduced into the Pension Credit single review sampling from April 2013. The new classification is based on characteristics of the claim, as held in our administrative records. This modification will not lead to any systematic change in our central estimates, but was introduced to reduce the width of our confidence intervals, thereby improving the precision of our central estimates.</p>	<p>Fraud and Error in the Benefit System: 2013/14 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-preliminary-201314-estimates</p>
<p>A level of stratification was removed from the Income Support sampling from October 2013. Results can no longer be presented as split by “Lone Parents” and “Disabled/Other”. This modification will not lead to any systematic change in our central estimates, but will increase the width of our confidence intervals, thereby reducing the precision of our central estimates. The reason for the change was the reduction in caseload.</p>	<p>Fraud and Error in the Benefit System: 2013/14 Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-2013-to-2014-estimates</p>
<p>Half of the Income Support single review cases were randomly allocated to receive notified visits from October 2013 onwards. This has had no significant effect on the rates of fraud and error reported.</p>	<p>Fraud and Error in the Benefit System: 2013/14 Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-2013-to-2014-estimates</p>
<p>Housing Benefit measurement methodology changed for the 2014/15 preliminary results. We have aligned the treatments of cases with both overpayments and underpayments across Housing Benefit and the other continuously reviewed benefits in the May 2015 release. This means that both the overpayments amounts and the underpayments amounts have been reduced for Housing Benefit and hence for the total of all benefits. We have also reduced the amount of Claimant Untraceable fraud and error that we count.</p>	<p>Fraud and Error in the Benefit System: 2014/15 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201415-preliminary-estimates</p>
<p>Introduced a new ‘Global Net Loss’ measure that takes away the overpayments that the department and Local Authorities recover from the overpayments. Instead of counting all overpayments as a loss to the system, we subtract the amount that the department gets back, giving a more accurate representation of the cash loss to the public purse.</p>	<p>Fraud and Error in the Benefit System: 2014/15 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201415-preliminary-estimates</p>

Fraud and Error in the Benefit System: Background information

Methodology change	Included in which published
<p>From 2014/15, within the measurement system, there was a change in the way some errors were classified as either claimant error or fraud, following a review of the evidence gathering process by the Performance Measurement teams. The outcome from the review emphasised the need for further questioning to establish the facts around any changes in circumstances. The new data appeared from the 2015/16 Preliminary Estimates.</p> <p>The change gives a more accurate classification of the level of fraud and claimant error across benefits, but it does mean that caution should be used in any comparisons between post 2014/15 results and earlier results. The change is thought to be the main reason for the increase in fraud and a corresponding fall in the level of claimant error, and it may have affected the overall level of total overpayments since its introduction after 2014/15. The new process has been applied to all of the continuously reviewed benefits but has had a particularly large effect on the Housing Benefit estimates</p>	<p>Fraud and Error in the Benefit System: 2015/16 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201516-preliminary-estimates</p>
<p>Universal Credit estimates of fraud and error are included in the “Continuously Reviewed” estimates for the first time in the Preliminary 2015/16 results. Full reviews began in October 2014. There is an impact on the total overpayments and underpayments as previously fraud and error were estimated using a proxy measure.</p>	<p>Fraud and Error in the Benefit System: 2015/16 Preliminary Estimates https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201516-preliminary-estimates</p>

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Methodology change	Included in which published
<p>Universal Credit introduced a methodology change where the statistics have been split into Reviewed and Cannot Review cases. The latter cases are included in the final statistics but calculated using assumptions as opposed to measured data.</p> <p>For more information, please see appendix 3 of the publication document and the Technical Appendix.</p> <p>https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports</p>	<p>Fraud and Error in the Benefit System: 2015/16 Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201516-estimates</p>
<p>The composition of the JSA sample has changed within this publication so that we no longer have a separate sample for newer cases.</p>	<p>Fraud and Error in the Benefit System: 2015/16 Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201516-estimates</p>
<p>JSA grossing no longer includes PSU or the yearly split in the calculation of the grossing factors; instead these have been calculated based solely on the client group. The grossing factors now mainly depend upon the national population for JSA, with the same grossing factor applied to all of the sample cases.</p> <p>This reduces the possibility of a relatively small number of cases with very high grossing factors within the sample having a large influence on the reported results, and has led to a decrease in the range of the confidence intervals around the central estimates for JSA.</p>	<p>Fraud and Error in the Benefit System: 2016/17 Preliminary Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201617-preliminary-estimates</p>

Fraud and Error in the Benefit System: Background information

Methodology change	Included in which published
<p>PIP estimates for fraud and error were published for the first time within the 2016/17 final results. There is an impact on the total overpayments and underpayments as previously fraud and error on PIP was estimated using DLA as a proxy measure.</p> <p>For more information on the assumptions underpinning the PIP statistics, please see appendix 4 of the publication document and the Technical Appendix.</p> <p>https://www.gov.uk/government/publications/fraud-and-error-in-the-benefit-system-supporting-documents-for-statistical-reports</p>	<p>Fraud and Error in the Benefit System: 2016/17 Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-2016-to-2017-estimates</p>
<p>Rotational sampling has been introduced, for data collection between April 2017 and September 2019, so that a selection of hard to reach areas will only be selected within the sample at least once in a three year period.</p> <p>This is the first set of published results that incorporate rotational sampling. Analysis completed on published statistics from previous years shows that the impact would be negligible – with changes to fraud and error levels of less than 0.05% for each benefit affected.</p>	<p>Fraud and Error in the Benefit System: 2017/18 Preliminary Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201718-preliminary-estimates</p>
<p>We have now changed the way we gross the ESA and PC estimates to using National grossing factors. This brings these benefits in line with JSA, as well as UC and PIP. National grossing tends to reduce the scope for individual cases to have a higher influence on the reported estimates and, consequently, leads to a decrease in the range of the confidence intervals around the central estimates of the levels of fraud and error.</p>	<p>Fraud and Error in the Benefit System: 2017/18 Preliminary Estimates</p> <p>https://www.gov.uk/government/statistics/fraud-and-error-in-the-benefit-system-financial-year-201718-preliminary-estimates</p>

Appendix 6: Difference between old and new methodology for Housing Benefit

	Overpayments						Underpayments					
	New process		Previously published		Difference		New process		Previously published		Difference	
	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)
Official Error												
Capital	0.0%	9	0.0%	11	0.0%	-2	0.0%	1	0.0%	0	0.0%	1
Conditions of Entitlement	0.0%	6	0.1%	16	0.0%	-10	0.0%	0	0.0%	4	0.0%	-4
Control activities are not carried out appropriately	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Household Composition	0.0%	4	0.0%	4	0.0%	0	0.0%	5	0.0%	5	0.0%	0
Residency	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Earnings/Employment	0.1%	24	0.1%	22	0.0%	1	0.1%	15	0.1%	15	0.0%	0
Income - Other benefits	0.1%	12	0.0%	11	0.0%	1	0.0%	9	0.0%	9	0.0%	0
Income - Occupational and Personal Pensions	0.0%	1	0.0%	1	0.0%	0	0.0%	1	0.0%	1	0.0%	0
Income - Other	0.0%	9	0.0%	6	0.0%	3	0.1%	13	0.0%	12	0.0%	1
Housing costs	0.1%	23	0.1%	19	0.0%	4	0.1%	20	0.1%	15	0.0%	4
Passporting	0.0%	8	0.0%	9	0.0%	-1	0.0%	0	0.0%	0	0.0%	0
Labour Market Issues	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Living Together	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	1	0.0%	0
Premiums	0.0%	8	0.0%	9	0.0%	-1	0.0%	8	0.0%	8	0.0%	0
Other	0.0%	4	0.0%	4	0.0%	-1	0.0%	1	0.0%	1	0.0%	0
Non-Dependant Deductions	0.0%	2	0.0%	2	0.0%	0	0.0%	8	0.0%	7	0.0%	0
Loss of Claimant Contact	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Total	0.5%	110	0.5%	110	0.0%	-10	0.3%	80	0.3%	80	0.0%	0

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	Overpayments						Underpayments					
	New process		Previously published		Difference		New process		Previously published		Difference	
Claimant Fraud	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)
Capital	0.3%	77	0.5%	106	-0.1%	-29	0.0%	0	0.0%	0	0.0%	0
Conditions of Entitlement	0.1%	13	0.1%	14	0.0%	-1	0.0%	0	0.0%	0	0.0%	0
Abroad	0.1%	23	0.1%	24	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Claimant Untraceable	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Household Composition	0.1%	35	0.1%	34	0.0%	1	0.0%	0	0.0%	0	0.0%	0
Housing Costs	0.1%	19	0.1%	18	0.0%	1	0.0%	0	0.0%	0	0.0%	0
Residency	0.2%	35	0.2%	51	-0.1%	-16	0.0%	0	0.0%	0	0.0%	0
Passporting	0.0%	3	0.0%	9	0.0%	-6	0.0%	0	0.0%	0	0.0%	0
Non-Dependant Deductions	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Earnings/Employment	1.9%	456	1.9%	440	0.1%	16	0.0%	2	0.0%	1	0.0%	1
Income - Occupational and Personal Pensions	0.0%	6	0.0%	6	0.0%	-1	0.0%	0	0.0%	0	0.0%	0
Income - Other	0.0%	11	0.1%	13	0.0%	-2	0.0%	0	0.0%	0	0.0%	0
Living Together	0.4%	89	0.4%	88	0.0%	2	0.0%	0	0.0%	0	0.0%	0
Premiums	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Income - Other benefits	0.1%	14	0.0%	12	0.0%	2	0.0%	0	0.0%	0	0.0%	0
Loss of Claimant Contact	1.1%	256	1.0%	240	0.1%	16	0.0%	0	0.0%	0	0.0%	0
Tax Credit	0.0%	10	0.0%	8	0.0%	2	0.0%	0	0.0%	0	0.0%	0
Total	4.5%	1,050	4.5%	1,060	-0.1%	-20	0.0%	0	0.0%	0	0.0%	0

Fraud and Error in the Benefit System: Background information

	Overpayments						Underpayments					
	New process		Previously published		Difference		New process		Previously published		Difference	
	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)
Claimant Error												
Capital	0.3%	63	0.3%	73	0.0%	-10	0.0%	3	0.0%	3	0.0%	0
Conditions of Entitlement	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Abroad	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Claimant Untraceable	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Household Composition	0.1%	20	0.1%	17	0.0%	3	0.2%	40	0.2%	39	0.0%	1
Housing Costs	0.1%	15	0.0%	11	0.0%	3	0.1%	19	0.1%	19	0.0%	0
Residency	0.0%	4	0.0%	5	0.0%	-2	0.0%	0	0.0%	0	0.0%	0
Passporting	0.0%	8	0.0%	7	0.0%	0	0.0%	1	0.0%	2	0.0%	0
Non-Dependant Deductions	0.0%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Earnings/Employment	0.9%	206	0.7%	165	0.2%	41	0.5%	128	0.5%	117	0.0%	11
Income - Occupational and Personal Pensions	0.0%	11	0.1%	14	0.0%	-3	0.0%	3	0.0%	3	0.0%	0
Income - Other	0.1%	12	0.1%	18	0.0%	-6	0.0%	3	0.0%	4	0.0%	-1
Living Together	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Premiums	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Income - Other benefits	0.1%	15	0.0%	9	0.0%	6	0.1%	22	0.1%	22	0.0%	0
Loss of Claimant Contact	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Tax Credit	0.0%	11	0.0%	9	0.0%	2	0.1%	16	0.0%	12	0.0%	4
Total	1.6%	360	1.4%	330	0.2%	40	1.0%	230	0.9%	220	0.1%	10

Fraud and Error in the Benefit System: Background information

		Overpayments					Underpayments						
		New process		Previously published		Difference	New process		Previously published		Difference		
		%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)	%	(£m)
Total	Capital	0.6%	149	0.8%	190	-0.2%	-41	0.0%	4	0.0%	3	0.0%	1
	Conditions of Entitlement	0.1%	19	0.1%	30	0.0%	-11	0.0%	0	0.0%	4	0.0%	-4
	Abroad	0.1%	23	0.1%	24	0.0%	0	0.0%	0	0.0%	0	0.0%	0
	Claimant Untraceable	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
	Household Composition	0.2%	59	0.2%	54	0.0%	4	0.2%	45	0.2%	44	0.0%	1
	Housing Costs	0.2%	56	0.2%	48	0.0%	9	0.2%	39	0.1%	34	0.0%	5
	Residency	0.2%	39	0.2%	57	-0.1%	-18	0.0%	0	0.0%	0	0.0%	0
	Passporting	0.1%	19	0.1%	26	0.0%	-7	0.0%	1	0.0%	2	0.0%	0
	Non-Dependant												
	Deductions	0.0%	3	0.0%	3	0.0%	0	0.0%	8	0.0%	7	0.0%	0
	Earnings/Employment	2.9%	685	2.7%	627	0.2%	58	0.6%	145	0.6%	133	0.1%	12
	Income - Other benefits	0.2%	41	0.1%	32	0.0%	9	0.1%	31	0.1%	31	0.0%	0
	Income - Occupational and												
	Personal Pensions	0.1%	18	0.1%	21	0.0%	-3	0.0%	3	0.0%	3	0.0%	0
	Income - Other	0.1%	32	0.2%	37	0.0%	-5	0.1%	16	0.1%	16	0.0%	0
	Tax Credits	0.1%	21	0.1%	17	0.0%	4	0.1%	16	0.0%	12	0.0%	4
	Living Together	0.4%	89	0.4%	88	0.0%	2	0.0%	1	0.0%	1	0.0%	0
	Premiums	0.0%	8	0.0%	9	0.0%	-1	0.0%	8	0.0%	8	0.0%	0
	Control activities are not												
	carried out appropriately	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
	Labour Market Issues	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
	Other	0.0%	4	0.0%	5	0.0%	-1	0.0%	1	0.0%	1	0.0%	0
	Loss of Claimant Contact	1.1%	256	1.0%	240	0.1%	16	0.0%	0	0.0%	0	0.0%	0
	Total	6.5%	1,520	6.4%	1,510	0.1%	10	1.4%	320	1.3%	300	0.1%	20

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