

Department for Education Risk Protection Arrangement

Estimated Provisions as at 31 August 2021

Summary of Key Results

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Executive summary

1 Executive summary

- 1.1 This report has been prepared by the Government Actuary's Department ('GAD') at the request of the Department for Education ('DfE').
- 1.2 The purpose of this report is to provide DfE with a summary for publication of the key results of the work undertaken by GAD in order to estimate claim provisions for the risk protection arrangement ('RPA') as at 31 August 2021. This work was undertaken between September 2021 and December 2021. This report is based on data and the policy environment as at 31 August 2021 and makes no allowance for changes since this time. We draw your attention to the limitations and reliance restrictions described below in paragraphs 1.51 to1.53.
- 1.3 The scope of this review includes estimates of provisions for:
 - >The academic years 2014/15 to 2020/21
 - >The financial years 2014-15 to 2021-22
 - >Each future academic year from 2021/22 up to and including 2027/28
 - >Each future financial year from 2022-23 up to and including 2027-28
- 1.4 Where a future year or future period is referred to, this is used to mean a year or time period that has yet to start as at 31 August 2021.

Background

- 1.5 The RPA is an alternative to insurance where losses that arise are covered by UK government funds. DfE are overseeing the arrangement, with some areas supported by external advisors.
- 1.6 The arrangement has been operational since 1 September 2014. Originally, the RPA was only available to academy schools, but membership was widened to local authority maintained schools ('LAMS') on 1 April 2020.
- 1.7 For academies, participation in the RPA requires a deduction at source from the academy's general annual grant ('GAG'). This deduction is calculated on an academic year basis:
 - > For those that participated in the arrangement during the 2014/15 and 2015/16 academic years, £25 per pupil was deducted.
 - > For those that participated in the arrangement during the 2016/17, 2017/18 and 2018/19 academic years, £20 per pupil was deducted.
 - > For those that participated in the arrangement during the 2019/20 and 2020/21 academic years, £18 per pupil was deducted.
- 1.8 For local authority maintained schools the deduction is calculated on a financial year basis:
 - > For those that participated in the arrangement during the 2020-21 financial year, £18 per pupil was deducted.
 - > For those that participated in the arrangement during the 2021-22 financial year, £19 per pupil was deducted.

- 1.9 The RPA covers property damage and business interruption ('PDBI'), public liability ('PL'), employers' liability ('EL') and travel ('Travel'). The main limits for the RPA are the reinstatement value of the property, £10m per claim for business interruption and £2,000 per person for baggage claims relating to UK or overseas travel. There is no limit for liability claims.
- 1.10 GAD's previous review of the RPA outstanding claims provisions was as at 31 March 2021. In this report we provide comparisons to the GAD provision estimates as at 31 March 2021, referring to these as the 'March 2021 review estimates'. Our estimates as at 31 August 2021 are referred to as the 'current estimates'.
- 1.11 The provisional estimates were analysed split by:
 - > Type of academy: Primary and Secondary & Other
 - > Main provisioning class: PDBI, PL, EL and Travel
 - > Peril: For example, the PDBI class includes the perils Fire, Flood and Theft
- 1.12 All estimates are on an undiscounted basis, which means that the amounts stated are the amounts expected to be paid out at the time they are due, without taking into account the time value of money.
- 1.13 The RPA had been operational for 84 months as at 31 August 2021. The number of academies and LAMS within the RPA has been increasing since it first became operational, and as at the date of our review the RPA provided coverage to:
 - > 7,108 academies and 3.2 million academy pupils; and
 - > 1,401 local authority schools and 0.4m local authority pupils
- 1.14 Appropriate assumptions regarding future joining rates for academies and LAMS have been determined through consultation with the RPA.
- 1.15 There are many uncertainties associated with the estimation of provisions such as those documented within this report. As a result, the claims experience may differ materially from the estimates made. Our report represents our view of the estimated ultimate claims and does not reduce the inherent uncertainty in the outcome of future events.

Assessing the impact of COVID-19

- 1.16 This assessment of the claims provisions has taken into account the effects of COVID-19 on the cover provided by the RPA. At the time of this review, schools in the UK were coming toward the end of the autumn term having experienced a range of restrictions during early 2021.
- 1.17 The vast majority of the RPA's COVID-19 claims arise from the UK and Overseas Travel provisioning classes. These claims are spread across the 2019/20, 2020/21 and 2021/22 academic years, and represent the arrangements that were in place before the pandemic reached the UK in early 2020 and which had to be cancelled.
- 1.18 Due to the size and nature of these claims, DfE has developed its own model to track reported claims and estimate future costs. In order to make best use of the work that has already been undertaken in this area, GAD has carried out an independent review of the model and concluded that DfE's estimate of future claims was appropriate to use within this provisioning exercise.

Risk Protection Arrangement for Academies Estimated Provisions as 31st August 2021

- 1.19 Whilst the main effects of COVID-19 are observed in the Travel classes, there is increasing evidence of a secondary effect emerging from the EL Injury and PL Injury classes. Whilst it is not possible to confirm a causational link, it is clear that there is significantly lower claim frequency emerging from the COVID-19 affected years. This could have been caused be reduced time on site for both pupils and teachers, giving less scope for claims to arise. Whilst the magnitude is much smaller, this has created an offset to the Travel claims.
- 1.20 The analysis does not allow for the possibility of an additional 'wave' of COVID-19 outbreak in the 2021 (or future) academic years. The risk here is that i) schools begin to make new travel arrangements in the belief that the risk from the pandemic has receded ii) there is a resurgence of COVID-19 requiring these travel plans to be cancelled, leading to additional losses.
- 1.21 The full impact of COVID-19 is highly uncertain and there may be material changes to DfE and GAD's view on the extent of the losses as further data emerges.

Academic year 2014/15 results

1.22 The chart below shows the expectation of ultimate claims for the 2014/15 academic year, as at 31 August 2021 and as at 31 March 2021 which is the date of our previous review. The 2014/15 academic year covers the 12-month period from 1 September 2014 to 31 August 2015.



Figure 1: Summary of GAD academic year 2014/15 ultimate claims estimates by class (£000s)

- 1.23 Our current estimate of ultimate claims for the 2014/15 academic year is £3.5m. This is £0.1m higher than the March 2021 review estimate which was £3.4m.
- 1.24 This increase is due to the PDBI General Damage & Other peril where two known claims, both of which relate to a single event, have deteriorated during the review period.
- 1.25 These estimates exclude all claim expenses. For all academic years we have maintained the methodology from our previous review which is to give more weight to the expense experience which has already emerged. To do this, we assumed that the expense ratio for reported claims will not be subject to any further changes, whilst the expense ratio for future claims is assumed to be in line with a benchmark assumption based on overall RPA experience.

Academic year 2015/16 results

■ Estimated ultimate claims as at 31 August 2021

1.26 The chart below shows the expectation of ultimate claims for the 2015/16 academic year, as at 31 August 2021 and as at 31 March 2021. The 2015/16 academic year covers the 12-month period from 1 September 2015 to 31 August 2016.

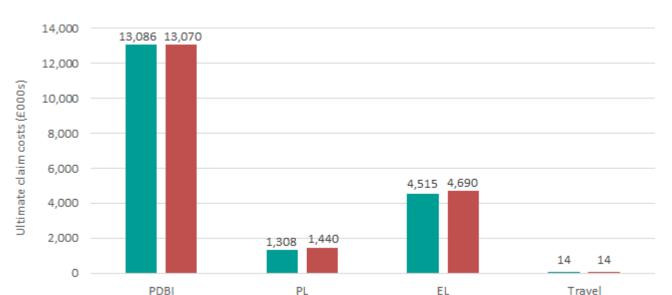


Figure 2: Summary of GAD academic year 2015/16 ultimate claims estimates by class (£000s)

1.27 Our current ultimate claims estimate for the 2015/16 academic year is £18.9m. This is £0.3m lower than the March 2021 review estimate which was £18.9m.

■ Estimated ultimate claims as at 31 March 2021

1.28 This improvement is driven by a known loss in the EL Injury class where the claim handler's estimate of the total costs has improved since our previous review. There is also a small case reserve improvement in the PL Property & Other class.

Academic year 2016/17 results

1.29 The chart below shows the expectation of ultimate claims for the 2016/17 academic year, as at 31 August 2021 and as at 31 March 2021. The 2016/17 academic year covers the 12-month period from 1 September 2016 to 31 August 2017.

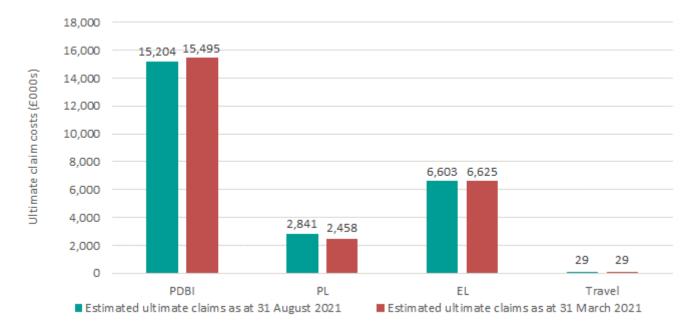


Figure 3: Summary of GAD academic year 2016/17 ultimate claims estimates by class (£000s)

- 1.30 Our current ultimate claims estimate for the 2016/17 academic year is £24.7m. This is £0.1m higher than the March 2021 review estimate which was £24.6m.
- 1.31 Whilst the overall movement is neutral, there are two offsetting movements in the PDBI and PL classes.
- 1.32 Within PDBI, a known General Damage and Other claim closed during the review period with a £0.4m improvement.
- 1.33 Offsetting this, the PL class has deteriorated by £0.4m as a number of Injury claims have seen case reserve deteriorations since the previous review.

Academic year 2017/18 results

1.34 The chart below shows the expectation of ultimate claims for the 2017/18 academic year, as at 31 August 2021 and as at 31 March 2021. The 2017/18 academic year covers the 12-month period from 1 September 2017 to 31 August 2018.

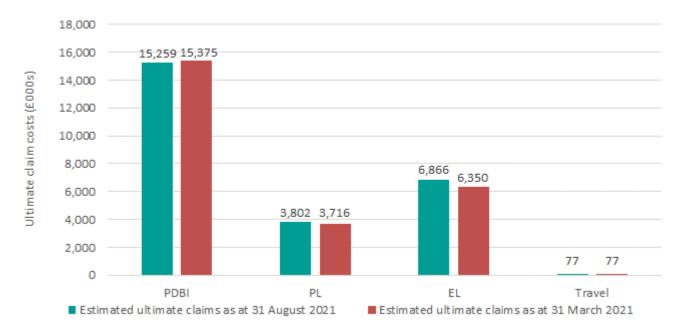


Figure 4: Summary of GAD academic year 2017/18 ultimate claims estimates by class (£000s)

- 1.35 Our current ultimate claims estimate for the 2017/18 academic year is £26.0m. This is £0.5m higher than the March 2021 review estimate which was £25.5m.
- 1.36 The deterioration is driven by Injury claims within the EL provisioning class. For this peril, attritional claims experience has been poor, and we have introduced a new claim development pattern which makes a greater allowance for future claims.

Academic year 2018/19 results

1.37 The chart below shows the expectation of ultimate claims for the 2018/19 academic year, as at 31 August 2021 and as at 31 March 2021. The 2018/19 academic year covers the 12-month period from 1 September 2018 to 31 August 2019.

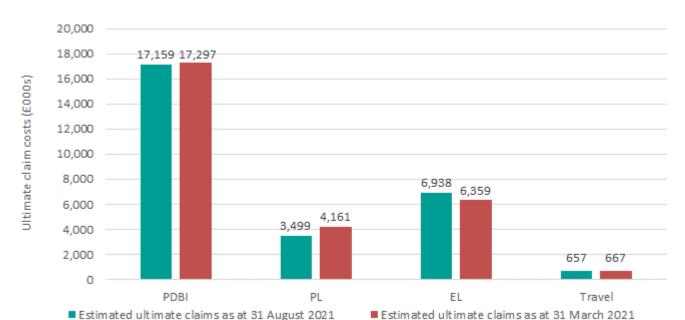


Figure 5: Summary of GAD academic year 2018/19 ultimate claims estimates by class (£000s)

- 1.38 Our current ultimate claims estimate for the 2018/19 academic year is £28.3m. This is £0.2m lower than the March 2021 review estimate which was £28.5m.
- 1.39 The improvement is driven by the PL Injury sub-class where there have been fewer new claims than expected, and a number of case reserve savings on known classes. We have also recognised the increased maturity of the year by shifting our provisioning estimate towards a method which relies on this academic year's own claim development experience.

Academic year 2019/20 results

1.40 The chart below shows the expectation of ultimate claims for the 2019/20 academic year, as at 31 August 2021 and as at 31 March 2021. The 2019/20 academic year covers the 12-month period from 1 September 2019 to 31 August 2020.

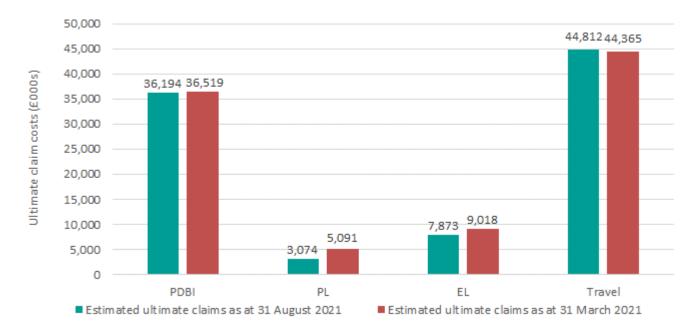


Figure 6: Summary of GAD academic year 2019/20 ultimate claims estimates by class (£000s)

- 1.41 Our current ultimate claims estimate for the 2019/20 academic year is £92.0m. This is £3.0m lower than the March 2021 review estimate which was £95.0m.
- 1.42 The largest saving arises from the PL and EL Injury sub-classes where the number of claims reported during the period has been significantly lower than expected. We note that this is the first of two COVID-19 affected academic years, and that experience across the two Injury classes has been that claim numbers are much lower than they have been in previous years.

Academic year 2020/21 results

1.43 The chart below shows the expectation of ultimate claims for the 2020/21 academic year, as at 31 August 2021 and as at 31 March 2021. The 2020/21 academic year covers the 12-month period from 1 September 2020 to 31 August 2021.

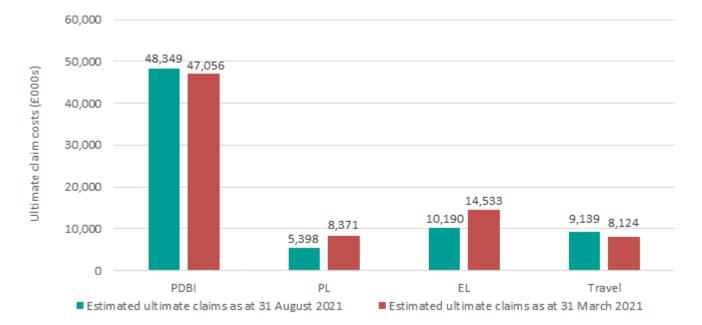


Figure 7: Summary of GAD academic year 2020/21 ultimate claims estimates by class (£000s)

- 1.44 Our current ultimate claims estimate for the 2020/21 academic year is £73.1m. This is £5.0m lower than the March 2021 review estimate which was £78.1m.
- 1.45 In the PDBI provisioning class, there have been no new large Fire or Storm losses, and there have been savings on known large losses from these perils which reported earlier in the academic year. There has been a new large Flood claim and General Damage & Other claims have deteriorated by £3.7m due to a high average claim cost.
- 1.46 The EL and PL classes have improved due to the Injury sub-classes where, as in 2019/20, there has been very low claim frequency.
- 1.47 The Travel class has been deteriorated by £1.0m as we reflect the latest reported COVID-19 claim information.

Future academic year results

1.48 The following chart shows our current estimate of ultimate claims for the 2021/22 to 2027/28 academic years alongside the corresponding estimates from our March 2021 review.



Figure 8: Summary of GAD future academic year ultimate claims estimates (£000s)

- 1.49 Our current ultimate claims estimate for the future academic years is between 7% and 2% lower than the March 2021 review estimate. The EL and PL Injury perils are driving this improvement. Whilst we have been mindful that recent experience may be artificially beneficial due to the impact of COVID-19, we have reflected improvements on a number of historical years. Changes in our estimates for exposure and our allowance for COVID-19 Travel claims create additional movements.
- 1.50 Further details on the academic years 2021/22 to 2027/28 results can be found in paragraphs 2.37 to 2.41.

Terms of reference

1.51 The actuarial services provided to DfE by GAD in respect of the RPA are covered by the 'Letter of Engagement between Department for Education and the Government Actuary's Department', dated 29 November 2019. This report is a summary of the estimates of claim provisions as at 31 August 2021 from advice provided to DfE by GAD between September 2021 and December 2021.

Distribution and limitations

- 1.52 Other than DfE, no person or third party is entitled to place any reliance on the contents of this report, except to any extent explicitly stated herein, and GAD has no liability to any person or third party for any act or omission taken, either in whole or part, on the basis of this report.
- 1.53 The data provided by DfE was used as it was received. GAD has not independently verified the data and we have relied on the general completeness and accuracy of the information supplied. Where possible, we have performed consistency and reasonableness checks using data from our previous review as at March 2021.
- 1.54 This report must be considered in its entirety, as individual sections, if considered in isolation, may be misleading, and conclusions reached by review of some sections on their own may be incorrect.

2 Analysis

Overview

- 2.1 This section describes the data, methodology and assumptions which we have used to perform our independent analysis of the RPA's outstanding claims provisions.
- 2.2 There is inherent uncertainty in an analysis of this type and we highlight the key uncertainties throughout this report. Our analysis does not remove this uncertainty but will provide DfE with more insight into the assumptions used and judgments made.

Data

- 2.3 Our analysis is supported by the following information and data:
 - >Claims data tables as at month ends from 30 September 2014 to 31 August 2021.
 - >Additional claims data table as at 30 September 2021. This was required to assess any material movements in individual claims.
 - >Average pupil numbers taken from a DfE study on academy schools, pupils and their characteristics dated January 2017.
 - >Indicative estimates of future academy and local authority school numbers.
 - >RPA membership data.
 - >Edubase data as at October 2021.
- 2.4 We have not verified the accuracy of the data independently. We have compared the academy projections and RPA membership data to that previously received for consistency and reasonableness.
- 2.5 Please see Appendix A for more detail on the data provided.

Overview of projection methodology

2.6 To project the expected losses, we first estimated the exposure, by estimating how many pupils will be covered by the RPA at each financial and academic year within the scope of our review. We then used this exposure estimate to inform our claims estimates, using various methods as detailed below, and selected a method or an average of methods for each class.

Projection of exposure

Overview

2.7 To estimate the number of pupils within the RPA for future risk periods we first estimate the number of academies and LAMS within the RPA and then make further assumptions about the average number of pupils within each institution.

Projection of academies within the RPA

- 2.8 Using indicative estimates provided to us of future academy numbers for the purpose of this provisioning exercise, we derived assumptions of the number of new and existing academies joining the RPA per month. These assumptions, which are listed below, are based on the RPA's actual experience:
 - >68% of new academies join the RPA each month;
 - >On average approximately 1.2% of existing academies that have not yet joined the RPA, join each month; and
 - >On average approximately 0.03% of academies that have joined the RPA will opt out for an alternative arrangement.
- 2.9 For the second and third assumptions above, we take into account seasonal effects such as uptake being higher at the start of the academic year.
- 2.10 We also assume that the new academies joining the RPA will mirror the assumed school type split which is used within the DfE academy population projections.
 - Comparison to March 2021 review estimates academies forecast
- 2.11 The actual number of academies that joined the RPA over the 5 months between March 2021 and August 2021 has been slightly lower than our expectations. This is because the overall academy population is lower than expected.
 - Projection of local authority maintained schools within the RPA
- 2.12 In addition to the indicative estimates provided to us by the RPA on LAMS numbers within the next year, we have derived several key assumptions to determine the number of local authority schools joining the RPA in the future. These assumptions, which are listed below, are based on consultations with the RPA and reflect the expected joining rates:
 - > All local authorities ('LAs') renew their insurance between April 2021 and March 2026;
 - > There is a distribution of LAs renewing their insurance over the year. The percentages of renewals vary per month and is based on known, historical renewal dates;
 - Each local authority is assigned a status based on engagement with DfE;
 - > A proportion of the schools within each LA join the RPA, varying by status;
 - > A proportion of the schools within each LA convert into an academy each year, therefore reducing the LAMS population over time;
 - No new LAMS are created, reducing the LAMS population that are available to join the RPA each year;

- > LAMS are assumed to join at their renewal date and it is assumed that all schools within a local authority have the same renewal date.
- 2.13 Local authority maintained schools operate on a financial year basis and so we assume uptake will be higher at the start of the financial year.
- 2.14 After March 2026, the RPA membership of LAMS is assumed to grow at a decaying rate each year up to financial year 2028.
- 2.15 We assume that the local authority schools joining the RPA will mirror the assumed school type split within the local authority population.
 - Projection of academy pupils within the RPA
- 2.16 We multiply the total estimated number of academies joining the RPA by the assumed average number of pupils for each school type. This is added to the number of academy pupils that are already members of the RPA to get an expected number of pupils for each school type for each future month until the end of the 2027/28 academic year.
- 2.17 For academies that participated in the RPA between 2014/15 and 2020/21 the average pupil numbers for primary academies and secondary academies are lower than the averages within the total UK school population.
- 2.18 This is driven by a significant proportion of academies within the RPA being new free schools, studio schools and university technical colleges. These schools currently on average have lower pupil numbers, as often they start with fewer classes and expand each academic year. This trend has been observed during the first two academic years that the RPA has been in existence, but any expansion appears to have slowed down in more recent years.
 - Projection of local authority pupils within the RPA
- 2.19 We multiply the total estimated number of LAMS within the RPA by the assumed average number of pupils for each school type. This is added to the number of local authority pupils that are already members of the RPA to get an expected number of pupils for each school type for each future month until the end of the 2027/28 academic year.
- 2.20 The assumed average number of pupils for each school type is calculated from local authority population data. Projected LAMS populations are then assumed to have pupil numbers equal to the average local authority school pupil number.
- 2.21 For local authority schools that participate in the RPA in academic year 2020/21 the average pupil numbers for primary schools and secondary schools are based on the LAMS membership over this period.
 - Comparison to March 2021 review estimates pupil number forecast
- 2.22 The actual number of pupils covered by the RPA over the 7 months between March 2021 and August 2021 has been slightly lower than our expectations.

Comparison to March 2021 review estimates - pupil years of exposure

- 2.23 The pupil numbers for LAMS and academies are combined to determine the overall pupil numbers for the RPA.
- 2.24 We then convert these pupil numbers into pupil years of exposure for each academic year by cumulating the time on risk for each school within each year. For example, a school that joins the RPA at the end of July will be on risk for that academic year for one month, so will contribute one twelfth of a year of exposure.
- 2.25 The following chart shows the expected ultimate pupil exposure based on data as at 31 August 2021 alongside our 31 March 2021 review estimate of ultimate pupil exposure, for the years where coverage has commenced (2014/15 through to 2020/21).

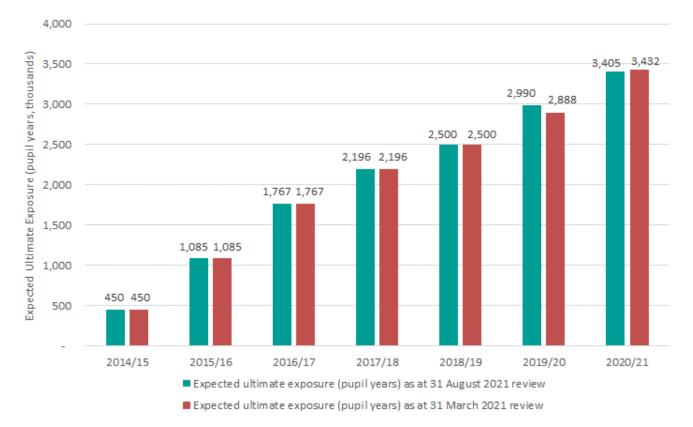


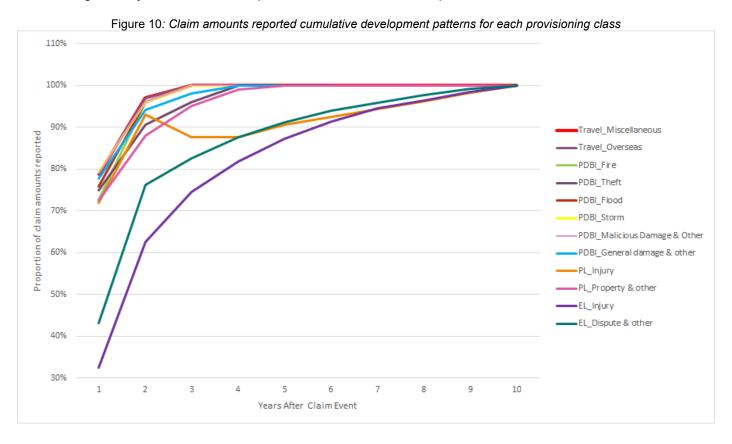
Figure 9: Summary of GAD ultimate exposure in pupil years (pupil years shown in 1,000s)

2.26 This chart shows that our exposure estimates are largely unchanged for all academic years up to and including 2020/21. For years that were already complete by the time of our previous review (2014/15 through to 2019/20) changes in our estimate are typically due to minor corrections or updates in the underlying data, for example the membership files.

Projection of claims

2.27 For each claim type, we make an estimate of the ultimate claims, i.e. the total final amount that will be paid for claims originating in a given academic or financial year. As there are often delays before a claim is reported or settled, claims are often paid in the years subsequent to the one in which the claim event occurred.

- 2.28 To estimate the ultimate claims we need to estimate future claims for incidents that occur during the academic year or financial year. The future claims include:
 - > Claims that have happened but have yet to be reported to the RPA's claims administrators (known as 'incurred but not reported' or IBNR). IBNR could occur, for example, if a child has an accident but the parent delays reporting this to the school (perhaps because they didn't realise that they would have grounds for a claim).
 - Claims that have happened but not enough has been reported, which are known as 'incurred but not enough reported' or IBNER. IBNER could occur, for example, if a fire claim is reported and a standard initial loss estimate is recorded against the claim but then, following a more detailed assessment of the fire damage by a loss adjustor in the future, the expected cost of the claim is increased.
 - Claims that will arise from unexpired periods of coverage. These types of claims are only applicable when GAD carries out a provision review as at 31 March when there are still five months of future coverage for the latest academic year.
- 2.29 Ultimate claims include all of the above along with the current value of claims that have been reported as at 31 August 2021 (known as the reported claims).
- 2.30 One of the techniques we have used to estimate ultimate claims is to project forward each academic year using the patterns shown in the figures below. These show the expected reported claim amounts and reported claim numbers as a proportion of their ultimate position for an average academic year, during each year following the initial academic year period. Note that we expect longer delays until claims are paid than for claims to be reported.



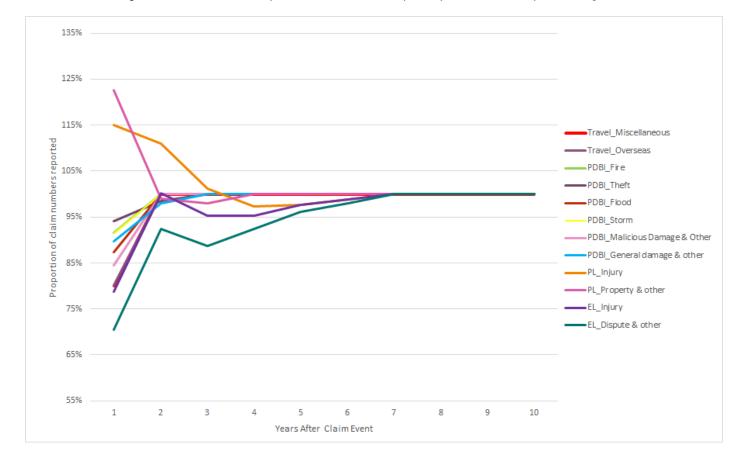


Figure 11: Claim numbers reported cumulative development patterns for each provisioning class

- 2.31 We expect that claims from both Travel classes will emerge the fastest (two years for claim numbers to be fully reported and three years for claim amounts), with the least uncertainty in their value. The PDBI class is also expected to develop relatively quickly (three years for claim numbers to be fully reported, four years for claim amounts).
- 2.32 The liability classes (EL and PL) take longer to emerge as there is a significant component of personal injury claims in these (at least seven years for claim numbers to be fully reported and ten years for claim amounts).
- 2.33 We considered the results from several methods when selecting the ultimate number of claims and the ultimate claim amount for each class.
- 2.34 We also project the expenses associated with the claims. These expenses are claims expenses related to individual claims such as claims handling and loss adjustor fees. Any expense figures within this report do not include any further expenses that DfE incur in the operation of the RPA, such as staff and consultancy costs.
- 2.35 The results of our provisioning exercise are presented in section 1 of this document.

Projection of claims for future academic years 2021/22 to 2027/28

2.36 The following chart shows our current ultimate claims estimate for the 2021/22 to 2027/28 academic years, alongside the corresponding estimates from our March 2021 review. These academic years cover the 12 month periods from 1 September 2021 to 31 August 2028. All figures exclude claim expenses.



Figure 12: Summary of GAD future academic year (2021/22 to 2027/28) ultimate claim estimates (£000s)

- 2.37 Our estimate of ultimate claims for the academic years 2021/22 and 2022/23 have decreased by between 2% and 7%. Approximately half of that increase is driven by a decrease in exposure fewer schools are now forecast to be members of the RPA, and this decreases our estimate of the claims that will arise. The Injury perils drive the remaining decrease as we reduce our view on the cost of claims arising from these classes based on historical experience.
- 2.38 Our view of future costs is based on estimates of claim frequency and average claim severity for each of the different types of cover offered by the RPA. These estimates are based upon the RPA's historical experience for each type of cover. The frequency assumptions are the same for all future academic years, whilst the severity assumptions are increased to allow for inflation.

Projection of claims for financial years 2014-15 to 2027-28

- 2.39 Our estimates of the ultimate loss for each financial year are calculated by reallocating the academic year results. The reallocation methodology is as follows:
 - > The claims data provided by Gallagher Bassett and TopMark contains information on each individual claim. This level of granularity allows us to directly calculate the paid and outstanding claims on a financial year basis without having to make any additional assumptions.
 - > IBNR and IBNER claims have already been estimated as part of our academic year projections. In order to allocate these to a financial year basis, our default assumption is that IBNR and IBNER claims are equally likely to emerge from any earned amount of exposure within an academic year.
 - > Estimated claims for unexpired periods of risk have also already been calculated on an academic year basis. We allocate these to a financial year basis by assuming they are equally likely to emerge from any unearned period of exposure.
- 2.40 For each provisioning class, we consider whether we are aware of any reasons why our default methodology would not be appropriate. For example, an adjustment would be considered for any classes where there is strong evidence that claims occur during specific seasons rather than uniformly throughout the year.
- 2.41 The figure below summarises the estimated ultimate claims for financial years 2014-15 to 2027-28.

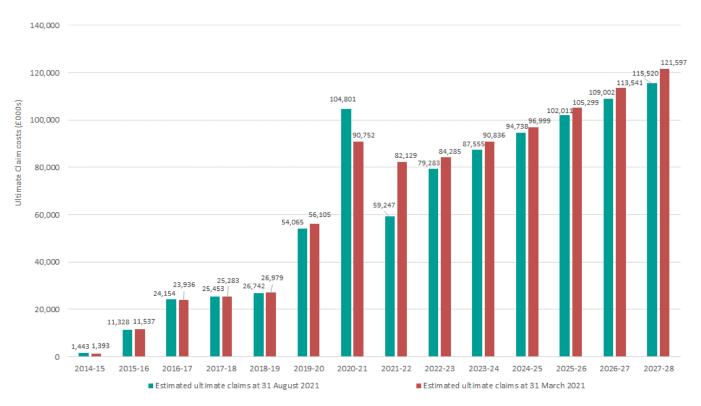


Figure 13: Financial year estimates as at August 2021 and March 2021 (£000s)

2.42 The changes on a financial year basis are driven by the same features as the academic year basis. In particular, we highlight that lower claim costs in future years are driven by decreased exposure and a reduced allowance for Injury claims.

3 Further considerations

- 3.1 This section outlines further considerations that DfE should bear in mind when examining the results in this report.
- 3.2 The insurance market would offer different premium rates to each school based on their risk profile and claims history. The RPA will therefore vary in the amount of value that each school receives from it, which may make it more likely that those schools currently paying high insurance premiums will join, which is a form of selection against the RPA (known as anti-selection). This would create a risk profile that may not be in line with the claims data.
- 3.3 The actuarial analysis undertaken for the arrangement does not include a specific consideration of latent claims. These are claims of a type that was not anticipated at the time that cover was provided, though these claims would be funded by DfE if they were to arise in the future. This represents a source of uncertainty in the level of claims to the arrangement.
- 3.4 A Periodical Payment Order ('PPO') is an alternative way of settling significant personal injury claims. Rather than settling the claim as a lump sum amount, extinguishing any future requirements to compensate the injured party, a PPO requires regular payments to be made to the claimant for the rest of their lives. The RPA is exposed to PPOs through the EL and PL Injury covers and could arise as a result of a claim by a teacher, pupil or other third party who is badly injured as a result of a school's negligence. Our provisioning methodology makes the following allowances for PPOs:
 - Should a PPO arise from a known event, or if the claims handler believes there is a non-negligible chance that a PPO will arise, we will work with the claim handler to ensure the provisions appropriately reflect the likely costs.
 - > For unexpired and future periods of risk from the EL and PL Injury classes, we make an allowance for attritional, large and catastrophic injuries to occur. Our considerations of what a large and catastrophic claim might cost take into account the potential for PPO claims to be awarded.
- 3.5 In DfE's accounts, provisions, contingent assets and contingent liabilities are considered in accordance with International Accounting Standard 37 (IAS 37). Under IAS 37 future payments for claims made to the RPA will require a provision to be held by DfE. DfE utilise this provision as claims are reported and allocate budget at this point. DfE will therefore have to ensure that funds are available when needed.
- 3.6 Since 1 April 2020 the RPA has provided cover to LAMS in addition to academies. The growing number of LAMS creates an additional source of uncertainty, as the ways in which local authority schools join the RPA may differ to that of academies.
- 3.7 Due to the lack of historical data in relation to LAMS, we currently assume that LAMS and academies pose the same level of risk. As the volume of data for local authority maintained schools grows over time, any differences in experience between LAMS and academies will become clearer.
- 3.8 In preparing this advice, we have considered the extent to which our analysis may be affected by material risks arising from the impact of the COVID-19 pandemic. Any adjustments and additional uncertainty to reflect such risks are discussed in sections 1 and 2 of the report. The situation around COVID-19 continues to rapidly evolve and the full impact of the virus will not be known until further evidence has been established. Once the implications of the COVID-19 pandemic become more apparent, it is recommended that the advice is reviewed to check it is still appropriate in light of the emerging information.

Appendix A: Data

Exposure

- A.1 We were provided with the following data from DfE concerning the exposure of the RPA:
 - >Actual number of academies and pupils in the RPA as at 31 August 2021, split by type of academy (Primary, Secondary, All Through and Special);
 - >Actual number of LAMS and pupils in the RPA as at 31 August 2021, split by type of school (Primary, Secondary, All Through and Special);
 - >Academies and LAMS where there is information to suggest they may join the RPA in the future, alongside an expected opt-in date;
 - >Projected number of academies.
 - >Projected number of LAMS converting to academies.

Claims data

- A.2 We were provided with the following data, as at the month ends from inception of the RPA in September 2014 to 31 August 2021 inclusive for each claim that had been reported by that date:
 - >Paid loss amount (excluding claims expenses)
 - >Outstanding loss amount (which represents the Gallagher Bassett or TopMark loss estimate (excluding claims expenses) that has yet to be paid
 - >Paid claim expense amount
 - >Outstanding claim expense amount (which represents the Gallagher Bassett or TopMark expense estimate that has yet to be paid)
 - >Accident date
 - >Date first reported
 - >Date closed (if the claim has closed)
- A.3 We understand the claims expense amounts to include claims handling and loss adjustor fees. Any expense figures within this report do not include any further expenses that DfE incur in the operation of the RPA, such as staff and consultancy costs.
- A.4 A nil claim is defined as a claim that has closed, but where the paid loss and outstanding loss are zero. These claims are excluded from the claim number triangle only from the point at which they close as a nil claim.

Data detail

- A.5 We have grouped the data by each major class of business and peril separately. This creates 12 different provisioning classes:
 - >Property Damage and Business Interruption
 - o Fire
 - Flood
 - o Theft
 - o Storm
 - o Malicious Damage
 - General Damage & Other
 - >Public Liability
 - Injury
 - Property & Other
 - >Employers' Liability
 - Injury
 - o Dispute & Other
 - >Travel
 - Miscellaneous
 - Overseas
- A.6 Each of the 12 provisioning classes is then further divided into attritional, large and catastrophic claim types. This creates 36 provisioning groups
- A.7 We also divide provisioning groups into Primary and Secondary & Other school types (where Secondary & Other includes Secondary, All Through and Special school types). This creates 72 unique provisioning groups and this is the level at which outstanding claims provisions are set.
- A.8 The number of groups used must be balanced against the volume of data available, as each group must have sufficient data to achieve a robust statistical measure. This consideration, along with the requirements of DfE, led to the choice of the segmentation outlined above.
- A.9 As the RPA has only been operating for a short period of time there is limited claims data in some of these provisioing groups. Where this is the case, there is a lack of statistical credibility which should be borne in mind.

Appendix B: Glossary

- A.10 Expired exposure The exposure corresponding to the expired risk period.
- A.11 Expired risk period The risk period for which, up to a certain date, RPA policies have been in force.
- A.12 Exposure A measure that represents the risk. Possibilities for the RPA are the number of academies and number of pupils. Pupil numbers were chosen since these give an indication of the size of the academies within the RPA, which will affect the risk. The exposure is measured in 'pupil years' such that the duration that pupils have been covered by the RPA is taken into account.
- A.13 Future claim amounts This is all claims estimated to be reported and ultimately paid in the future relating to exposure within a given academic or financial year. For a given year this estimate is the sum of the IBNER, IBNR and estimated ultimate claims for the unexpired risk period.
- A.14 Future claim numbers This is all claims estimated to be reported and ultimately settled in the future relating to exposure within a given academic or financial year. For a given year this estimate is the sum of the IBNR numbers and estimated ultimate claim numbers for the unexpired risk period.
- A.15 Government Actuary's Department ('GAD') A non-ministerial government department providing actuarial advice to public sector clients. For more information see www.gov.uk/gad.
- A.16 IBNER For the RPA, exposure is considered in academic years running from September to August. At the end of each exposure year there will still be outstanding claim amounts that have not yet been received, relating to that period. These amounts that are expected to arise in future are referred to as incurred but not enough reported ('IBNER') claims.
- A.17 IBNR For the RPA, exposure is considered in academic years running from September to August. At the end of each exposure year there will still be claims that have not yet been received, relating to that period. These amounts that are expected to arise in future are referred to as incurred but not reported ('IBNR') claims. Often IBNR is used to refer to both 'pure IBNR' (as per the definition above) and IBNER combined, however in this report we refer to IBNR to just mean the pure IBNR, excluding IBNER. IBNR numbers are the number of claims that have incurred but have yet to be reported.
- A.18 Latent claims These are claims of a type that was not anticipated at the time that cover was provided.
- A.19 Long tail A claim type is referred to as 'long-tailed' where claims reporting and/or claims payments may occur many years after the risk period has expired. Long tail risk is the risk that claims may be made many years after the risk period has expired. (See also short tail)
- A.20 Peril The specific source of loss to the risk pool. Examples include fire, theft and injury.
- A.21 Personal injury Legal term for injury to body, mind or emotions.
- A.22 Reported claims For a given academic year, the reported claims at a certain point in time is the total amount that the claim handlers estimate the claims that have been notified to date to ultimately cost, where these claims originate in the given academic year.
- A.23 Return period An expression of the expected frequency of occurrence of an event. It represents the frequency on a 1 in 'x' basis, where x is the return period. A common event may have a return period of 1, implying an expected occurrence rate of once per year. More remote events will have much higher return periods.
- A.24 Risk period The time for which the expectation is to have RPA policies in force.

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- A.25 Short tail A claim type is referred to as 'short-tailed' where claims reporting and/or claims payments occur within the space of a few years after the risk period has expired.
- A.26 Triangle or Claims triangle Manipulating data into a triangle format is a way of presenting the data to aid analysis of the development of the data over time. Triangles are made of reported claims, paid claims, claim numbers and average claim cost. Going across in the triangle is the development period, for example claims reported month. Going down is the origin period, for example the academic month that the incident occurred. Each row then shows all claims where the incident occurred during the same time period, and going right in the row shows how the claim amount or number changes over time since the incident period.
- A.27 Ultimate claim The total final amount that will be paid for claims originating from a given academic or financial year. This is the aggregate of claims that have been reported and estimated future claim amounts.
- A.28 Unexpired exposure The exposure corresponding to the unexpired risk period.
- A.29 Unexpired risk period The remaining risk period for an academic/financial year for which, as at a certain date, RPA policies are expected to be in force.

Appendix C: Analysis of Fire Claims

- A.30 The RPA provides property damage and business interruption cover that responds to fire losses. This section provides more information on the RPA's claims experience in relation to these losses.
- A.31 The following table shows the number of individual members in the RPA, the number that have experienced a fire-related event and the average cost of a fire-related event. This information is shown for the historical academic years where fire loss experience is considered to be mature and where no material updates are expected.

| Academic year | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
|---|---------|----------|---------|---------|---------|---------|
| No of Individual RPA members | 912 | 2,169 | 3,657 | 4,718 | 5,494 | 6,690 |
| No of members who have experienced a fire related event | 12 | 15 | 36 | 36 | 47 | 40 |
| Average cost of fire event | £14,280 | £243,662 | £77,462 | £87,244 | £75,865 | £69,351 |

A.32 The high average cost of a fire event in 2015/16 is a result of several larger losses that occurred during this academic year.

Notes on construction

- A.33 A fire-related event is one where the claims handler has recorded the main cause of loss to be fire and this has resulted in damage to the fabric of a school building, contents owned by the school, or has caused the school to incur additional costs associated with finding alternative accommodation. This definition excludes a small number of claims where fire has been the cause of other types of loss (for example damage to the property of third parties).
- A.34 The number of RPA members is measured at the end of each academic year. As the RPA membership has been increasing over time, the number of members at the end of an academic year is greater than the average membership during that period.
- A.35 The number of members who have experienced a fire-related event is calculated as any member that recorded at least one fire loss that was greater than zero. If a member experienced more than one claim, they are only included once. Nil-claims, i.e. claims that resulted in no cost the RPA, have been excluded.
- A.36 The average cost of a fire-related event is taken as the sum of reported fire-related claims divided by the number of non-nil claims in a given academic year.