



PPF 7800 index 30 November 2024

The PPF 7800 index (the index) tracks the funding status of the PPF-eligible universe of defined benefit pension schemes. A monthly update of numbers first featured in the PPF's annual Purple Book publications¹, the index uses the latest scheme return information provided to The Pensions Regulator (TPR) and a roll-forward methodology to estimate figures as at the latest month-end.

From the Purple Book 2024 – although we've restated PPF 7800 figures from March 2023 onwards – this roll-forward methodology uses the more granular asset allocation data collected in annual scheme returns by TPR, applying a wider range of relevant market indices in our asset calculations. The roll-forward includes estimates of cashflows in and out of schemes – such as benefit payments – over the period of roll-forward calculation.

A note on changes to the PPF 7800 index

This edition follows publication of the Purple Book 2024. As such, we've updated the index to reflect the latest data. Alongside that, we've introduced a number of changes to the roll-forward calculation methodology used to estimate the asset and liability values in the Purple Book and 7800 index. Compared to the previous purpose of showing trends and reflecting underfunding risk to the PPF – in the same, simplified way the PPF levy calculations reflect this – the new way of calculating the assets and liabilities means they may now be viewed as an estimate of the values of these items in the universe at a moment in time. The impacts of these updates as at 31 March 2024 (the effective date of the Purple Book 2024) are set out in the table below. The Purple Book 2024 includes further detail.

In addition, while the charts in the index are largely unchanged in terms of what they show, there are some that we have slightly reformatted or updated. For example, charts of market movements now show monthly rather than daily data.

Item	Assets	Liability values	Funding ratio
New dataset	-6.2%	-2.7%	-5.3pp
Roll-forward updates	-13.3%	-0.5%	-18.1pp

¹ <https://ppf.co.uk/Purple-Book>

Highlights

Item	Last month	This month	Change
Aggregate funding position	£234.0bn surplus	£235.5bn surplus	+ £1.5bn
Funding ratio	126.0%	125.7%	- 0.3pp
Total scheme assets	£1,132.8bn	£1,150.5bn	+ 1.6%
Total scheme liabilities	£898.8bn	£915.0bn	+ 1.8%
Deficit of schemes in deficit	£22.3bn	£22.8bn	+ £0.5bn
Number of schemes in universe	4,969	4,969	No change

A running history of the monthly changes to the index is available via the link to the supporting data on our PPF 7800 index home page.²

Note: Liability values in the index are according to the section 179 (s179) measure. s179 liabilities represent, broadly speaking, what would have to be paid to an insurance company to take on the payment of PPF levels of compensation (rather than full scheme benefits).

7800 statistics

Item	One year ago	Last month	This month	Change over the...	
				Month	Year
Aggregate funding position	£279.3bn surplus	£234.0bn surplus	£235.5bn surplus	+ £1.5bn	- £43.8bn
Funding ratio	131.7%	126.0%	125.7%	- 0.3pp	- 6pp
Total scheme assets	£1,160.8bn	£1,132.8bn	£1,150.5bn	+ £17.7bn / 1.6%	- £10.3bn / 0.9%
Total scheme liabilities	£881.5bn	£898.8bn	£915.0bn	+ £16.2bn / 1.8%	+ £33.5bn / 3.8%
Deficit of schemes in deficit	£28.0bn	£22.3bn	£22.8bn	+ £0.5bn	- £5.2bn
Total number of schemes	5,050	4,969		No change	- 81
Number / % of schemes in deficit	1,287 / 25.5%	1,267 / 25.5%	1,251 / 25.2%	- 16 / 0.3pp	- 36 / 0.3pp
Number / % of schemes in surplus	3,763 / 74.5%	3,702 / 74.5%	3,718 / 74.8%	+ 16 / 0.3pp	- 45 / + 0.3pp
Dataset / assumptions	Purple 23 / A11	Purple 24 / A11		No change	New dataset

² <https://ppf.co.uk/ppf-7800-index>

Market movements

Equity markets and gilt yields are the main drivers of funding positions. S179 liabilities are sensitive to the yields available on a range of fixed-interest and index-linked gilts. Liability values are time-sensitive in that, even if gilt yields were unchanged, and ignoring the impact of scheme cashflows and PPF drift (see note 4 on page 6 for more information), they increase as the point of payment approaches. This unwinding-of-discounting effect amounts to around 0.3 to 0.4 per cent a month in the current environment.

The value of scheme assets is affected by the change in prices of all asset classes, but owing to the volume invested and the volatility, equities and bonds are the biggest drivers behind changes – bonds dominate the asset allocation, but equities tend to be more volatile.

The following table sets out the changes in some of the key market indicators in the month and year to 30 November 2024.

Market indicator	Change over the...	
	Month	Year
10-year fixed-interest gilt yield*	-18bps	4bps
15-year fixed-interest gilt yield*	-15bps	3bps
20-year fixed-interest gilt yield*	-14bps	3bps
5-15-year index-linked gilt yield*	-3bps	13bps
FTSE All-Share Total Return Index	2.5%	15.7%
FTSE All-World Ex-UK Total Return Index	4.9%	26.1%

* FTSE Actuaries UK gilt yields

Chart 1: Movements in UK gilt yields (source: LSEG)

15-year FI gilt yields have been above 4% pa since April 2023

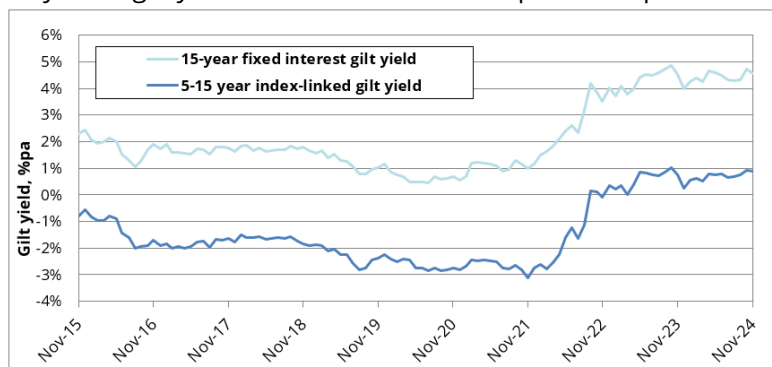
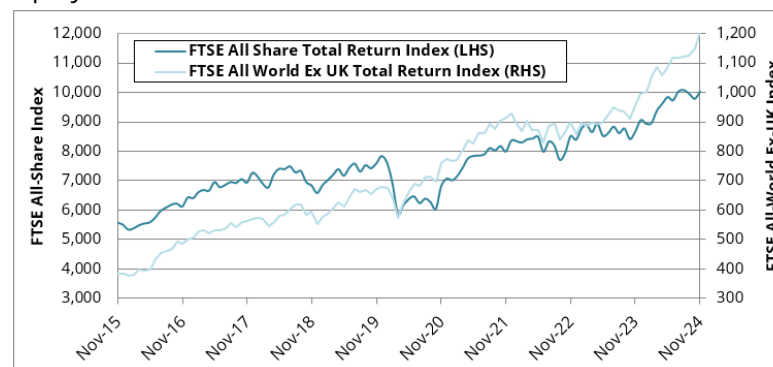


Chart 2: Movements in equity indices (source: LSEG)

Equity indices shown have continued to increase since March 2020



7800 charts

Chart 3: Historical aggregate funding position³ and funding ratio⁴ of the PPF universe

Aggregate funding levels have been stable since March 2024

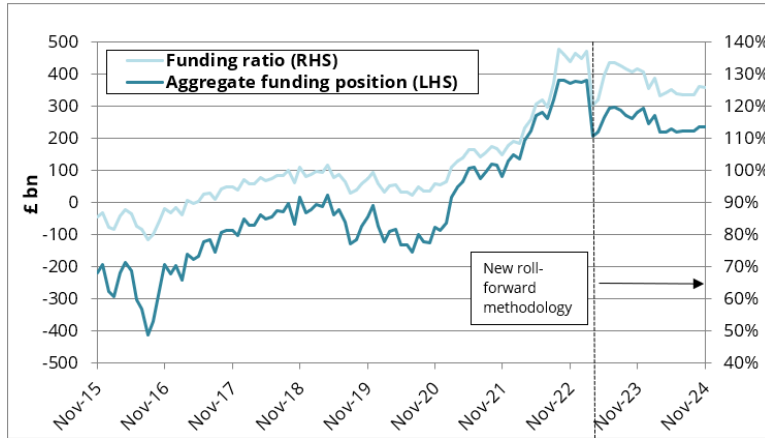


Chart 4: Historical aggregate assets and liability values

Current asset and liability values are similar to those in mid 2023

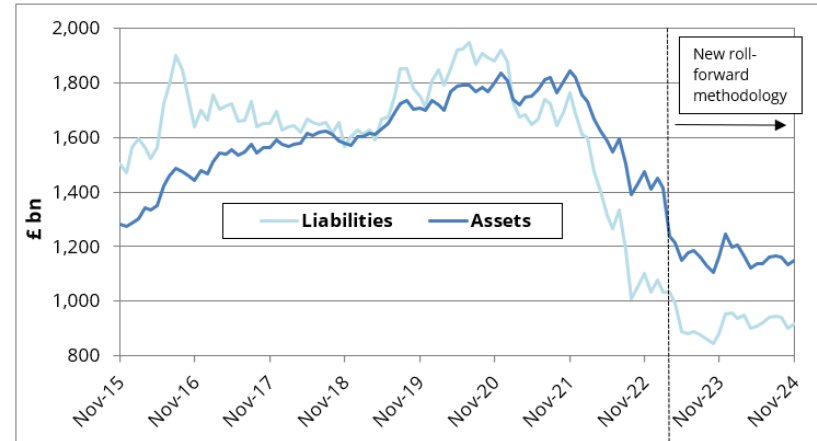


Chart 5: Distribution of liability values, by funding ratio

Around 20% of scheme liabilities relate to underfunded schemes

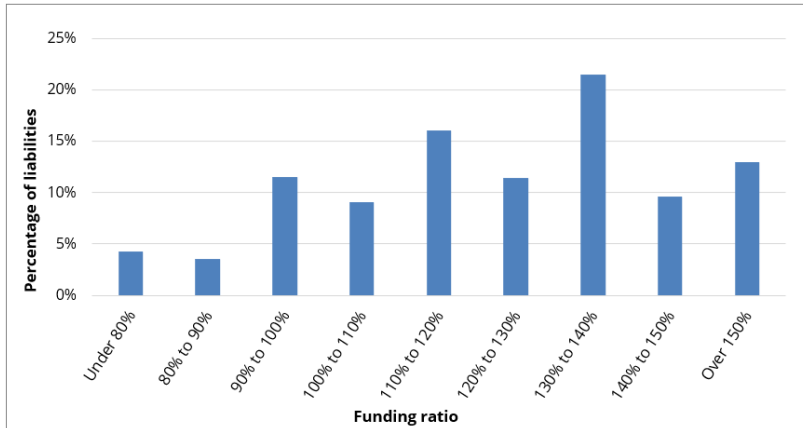
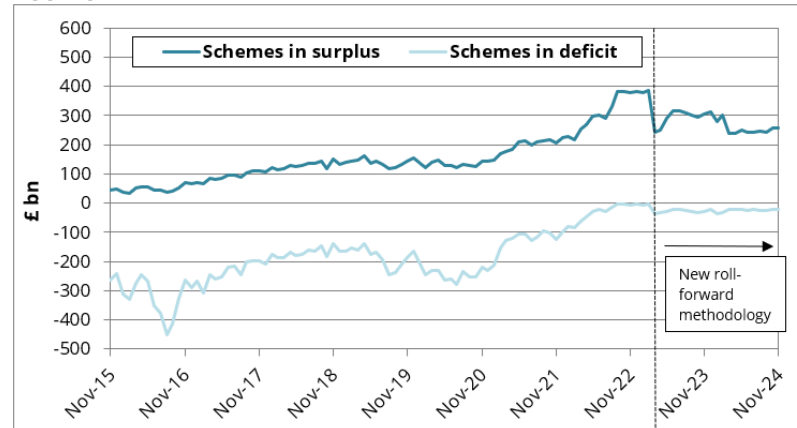


Chart 6: Historical s179 deficit (surplus) for schemes in deficit (surplus)

Aggregate deficit of schemes in deficit has been under £50bn for 2 years



³ The difference between assets and liabilities

⁴ Assets as a percentage of liabilities

Chart 7: Historical percentage of schemes in deficit on an s179 basis

Around a quarter of schemes are in deficit, down from over 60 per cent five years ago.



Note: From time to time, we make changes to the actuarial assumptions used to value schemes on an s179 measure. The most recent change was made in May 2023 and implemented in the end of May 2023 PPF 7800 index. This served to reduce the number of schemes in deficit by 129 (2.6 per cent of the number of schemes in the universe).

We produce the PPF 7800 in accordance with the UK Statistics Authority Code for official statistics which came into force in February 2009.

Press enquiries

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Notes

1. The PPF universe

The PPF covers certain occupational defined benefit pension schemes and defined benefit elements of hybrid schemes. More information about eligible schemes is on our website at: <https://www.ppf.co.uk/levy-payers/what-levy-and-who-has-pay-it/your-scheme-eligible>

2. PPF compensation

For members who have reached their scheme's normal pension age or are already in receipt of a survivor's pension or pension on the grounds of ill health, the PPF will generally pay compensation at the 100 per cent level, i.e., these members will not see any reduction in retirement income when their scheme's sponsor becomes insolvent. For most people below their scheme's normal pension age the PPF will generally pay compensation at the 90 per cent level. Increases in future payments for members may not be as much as they would have been under the original pension schemes. More information about PPF compensation is on our website at: <https://www.ppf.co.uk/what-it-means-ppf>

3. s179 – one of many different funding measures

s179 is one particular measure of funding. The change in the deficit of schemes in deficit on an s179 basis is an illustration of the impact of changes in financial markets on the PPF's total exposure. Schemes in surplus on an s179 basis at the time of insolvency usually do not enter the PPF.

In addition to s179, there are many different measures of a scheme's funding position. Among the other common measures are full buy-out (what would have to be paid to an insurance company for it to take on the payment of full scheme benefits), IAS19 or FRS102 (the measures used in UK company accounts), and Technical Provisions (as used in the UK's scheme funding regime). The different measures can give different levels of scheme funding at any point in time and move differently over time.

4. Methodology (asset and liability roll-forward)

The figures shown throughout this document are based on adjusting the scheme valuation data supplied to TPR as part of schemes' annual scheme returns, including Deficit Reduction Contribution (DRC) certificates. We roll the asset and s179 liability values forward in the following way.

- We roll forward asset values using the submitted asset split information and the change in benchmark asset indices over the period.
 - We use a range of indices here to better match the more granular asset categorisation captured in the scheme returns. This is not the same as the methodology used in the PPF levy calculations. This methodology will generally only allow for unfunded LDI arrangements, such as interest rate swaps, to the extent that the exposure is reflected in the asset split information submitted. However, our updated modelling includes some broad assumptions about short-duration bond indices not reducing the hedging of long-liability-duration schemes.

- We add DRCs that have been submitted by schemes for levy purposes⁵ to the asset values submitted in s179 valuations. These DRCs represent the contributions made by the sponsoring employer between the s179 valuation date and 31 March 2024 after allowing for deductions for items such as additional benefit accrual and benefit augmentations.
- Additionally, we make allowance for benefits paid out and contributions made over the roll-forward period, including for DRCs since those certified in the scheme return. In some cases we produce our own estimates and compare these to ONS data, in others we use ONS data directly.
- We roll forward the s179 liability values to, and convert to the version of the s179 assumptions in force at, a particular date, according to changes in reference gilt yields over the period.
 - Similarly to assets, the liability roll-forward includes an allowance for benefits paid out, as well as for the estimated cost of new benefit accrual.
 - In addition, the liability calculations allow for actual inflation differing from expected and PPF drift over the roll-forward period.⁶

Regardless of these features, our roll-forward methodology remains approximate in nature and the modelling necessarily features a number of estimations and judgements.

5. Estimating the impact of changes in market conditions on the PPF 7800 index

We have developed a number of ‘rules of thumb’ to estimate the impact of changes in asset prices and gilt yields on scheme assets and s179 liabilities. For example:

- A 7.5 per cent rise in equity markets boosts aggregate scheme assets by 1.4 per cent while a 0.3 percentage point rise in gilt yields reduces scheme assets by 3.7 per cent.
- A 0.3 percentage point rise in gilt yields reduces aggregate scheme liabilities by 4.0 per cent.

Strictly speaking, the rules of thumb only apply to small changes from the level as at 31 March 2024. More information can be found in Chapter 5 (Funding sensitivities) of the Purple Book 2024.

6. The Purple Book 2024 dataset

The schemes in the Purple Book 2024 dataset are estimated to include over 99 per cent of liabilities of PPF eligible schemes. We update this dataset annually, through a standard procedure, in each Purple Book and subsequent 7800 index publications.

⁵ For more information see the 2023/24 DRC appendix and guidance on our website: <https://www.ppf.co.uk/levy-payers/levy-2023-24>

⁶ The definition of PPF drift can be found on page 42 of the glossary in the Purple Book 2024.