

A Corporate Pension Finance Handbook

A practical overview for Treasurers, CFOs and CIOs

Worksheets from the Fourth edition

Pension plans and the corporations that sponsor them have faced significant headwinds over the last decade. With the Global Financial Crisis and subsequent decline in discount rates, funded status has dipped and stagnated.

While the challenge is great, practical solutions do exist. That's why we are pleased to continue this booklet designed and maintained by pension investment actuaries that understand these challenges. We have set out to show plan sponsors how to:

- navigate pension liabilities in the face of Pension Protection Act (PPA) requirements and ongoing funding relief,
- understand the impact of defined benefit (DB) plan closure or freezing,
- see how interest rate volatility impacts the plan, and
- determine the effectiveness of various strategies.

We can't make the markets less volatile, regulations fewer, or interest rates friendlier. But we have distilled the issues to a series of clear trade-offs and some key principles to bear in mind as you manage your company's pension.

A comparison of key corporate pension statistics

Put the pension plan...

Your corporation's pension liability	(a)	_____
Shortfall of assets below liabilities	(b)	_____
Pension expense	(c)	_____
Service cost	(d)	_____

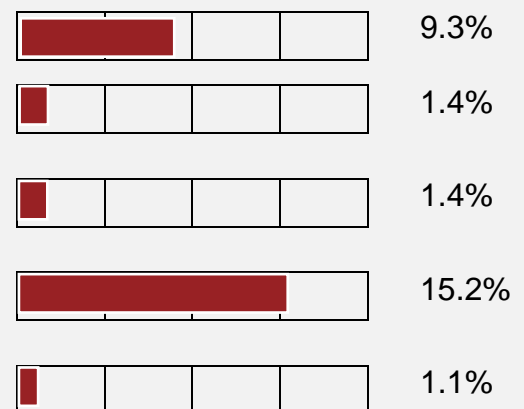
...alongside the corporation

Your corporation's market capitalization	(v)	_____
Cash flow from operations	(w)	_____
Net income	(x)	_____
Revenue	(y)	_____
Shareholders' equity	(z)	_____

Some key ratios

Pension liability to market capitalization	(a) / (v)	_____
Pension shortfall to market capitalization	(b) / (v)	_____
Pension expense to net income	(c) / (x)	_____
Pension shortfall to cash flow from operations	(b) / (w)	_____
Service cost to pension liability	(d) / (a)	_____

Median values*



* For Russell 3000® Index corporations, based on 2018 10-K filings, worldwide pension assets and liabilities.

This comparison is even more useful when it is made to other companies in the same industry rather than to the whole of the Russell 3000® Index.

From "Section 1 – The pension plan and the corporation", pages 4-5

Volatility of corporate cash contributions

Year	The \$20 bn club made combined total contributions of	Your corporation's Cash contributions
2007	\$13.2 bn	_____
2008	\$11.8 bn	_____
2009	\$26.1 bn	_____
2010	\$26.6 bn	_____
2011	\$25.4 bn	_____
2012	\$30.7 bn	_____
2013	\$27.7 bn	_____
2014	\$17.7 bn	_____
2015	\$13.0 bn	_____
2016	\$18.6 bn	_____
2017	\$37.5 bn	_____
2018	\$28.1 bn	_____
2019	\$11.9 bn	_____
2020*	\$13.9 bn	_____

The \$20 Billion Club is the 20 U.S.-listed corporations with the largest worldwide pension liabilities. They represent about 40% of the total pension assets and liabilities on all U.S. corporate balance sheets, so are a useful indicator of what is happening across all DB plans.

* Expected contribution in 2020. This expectation was, in some cases, expressed as a minimum so the actual total may well be higher.

Source for all figures on this page, corporate 10-K filings and Russell Investments.

From "Section 1 – The pension plan and the corporation", page 15

Adjusting pension expense

Example

Unadjusted net periodic benefit cost calculation

Service cost	25	(a)
Interest cost	65	(b)
Expected return on assets	(80)	(c)
Amortizations	15	(d)
Other	0	(e)
Total (a) + (b) + (c) + (d) + (e)	25	(f)

Your corporation

Adjusted net periodic benefit cost calculation

Projected Benefit Obligation (PBO) at start of year	1000	(g)
PBO at end of year	1090	(h)
Assets at start of year	850	(i)
Assets at end of year	800	(j)
Employer contributions	50	(k)
Total (h) - (g) + (i) - (j) + (k)	190	(l)

Effect on earnings

Reported net income	750	(m)
Adjusted expense	190	(n)
Reported expense	25	(o)
Increase (after tax at 21%)	130	(p)
Adjusted net income (m) - (p)	620	(q)

From "Section 1 – The pension plan and the corporation", page 25

The Pension Benefit Guaranty Corporation— a safety net(?)

The PBGC takes over the assets and liabilities of plans whose sponsoring companies fail.

It is funded by premiums paid by private corporations with DB plans.

The single employer plan premium payable in 2020 is the sum of:

- A per-participant premium of \$83
- A variable rate premium of \$45 per \$1,000 of plan shortfall (i.e., unfunded vested benefits)
The variable rate premium is capped at \$561 per participant.

Number of participants	_____	x \$83 =	_____
Unfunded vested benefits	_____	x \$45 / 1,000 =	_____
		TOTAL 2020 Premium	_____

Example:

A plan with 2,000 members and a \$10 million funding shortfall would pay \$616,000 in 2020.

Note that funding relief has not affected the calculation of unfunded vested benefits for the purposes of PBGC premium calculations.

From "Section 1 – The pension plan and the corporation", pages 28-33

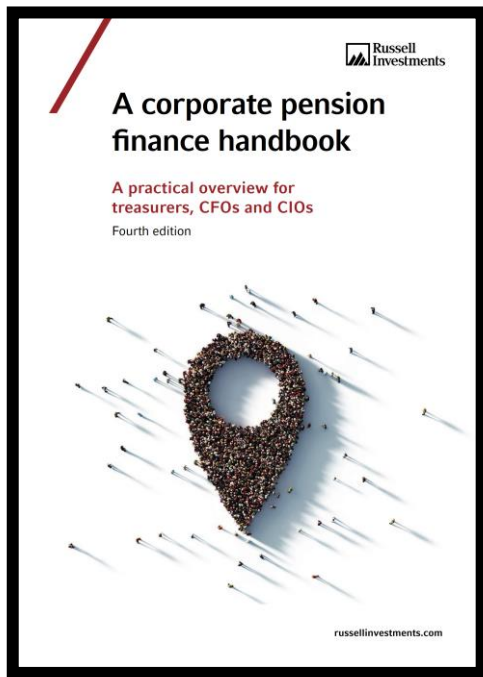
Asset allocation policy

	Your policy	Average allocation (The \$20 billion club)	Range of allocation (The \$20 billion club)
Equity	_____	30%	6 – 63%
Fixed income	_____	49%	29 – 84%
Other	_____	18%	0 – 33%
Cash	_____	3%	0 – 10%

Field (2019) “\$20 billion club loads up on fixed income as DB funded status improves”

From “Section 2 – Pension plan basics”, page 44

If you do not have “A Corporate Pension Finance Handbook,” please request a complimentary copy.



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