

Pension Funded Status Tracker

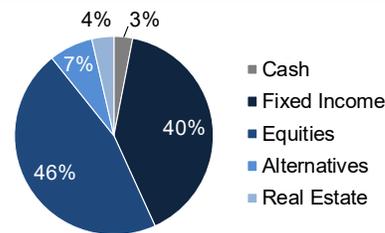
September 2018

ASSET MANAGEMENT | REPORT

The funded status of the average US corporate defined benefit pension improved to 90% funded by the end of September 2018, up 1% from the end of August 2018.

- » The asset portfolio decreased in value overall; the hedging portfolio underperformed while the growth portfolio saw some outperformance:
 - US Equities witnessed mixed performance as large cap stocks outperformed and small cap stocks underperformed
 - Within fixed income, both US Treasuries and corporate bonds underperformed as rates widened considerably.
- » Liabilities decreased in value by almost double that of the asset portfolio, mainly driven by rising interest rates:
 - The large increase in interest rates was slightly offset by a tightening in the high quality corporate bond spread.
 - As a result, the effective discount rate for the liability valuation increased by 12 basis points in September.

Asset Allocation



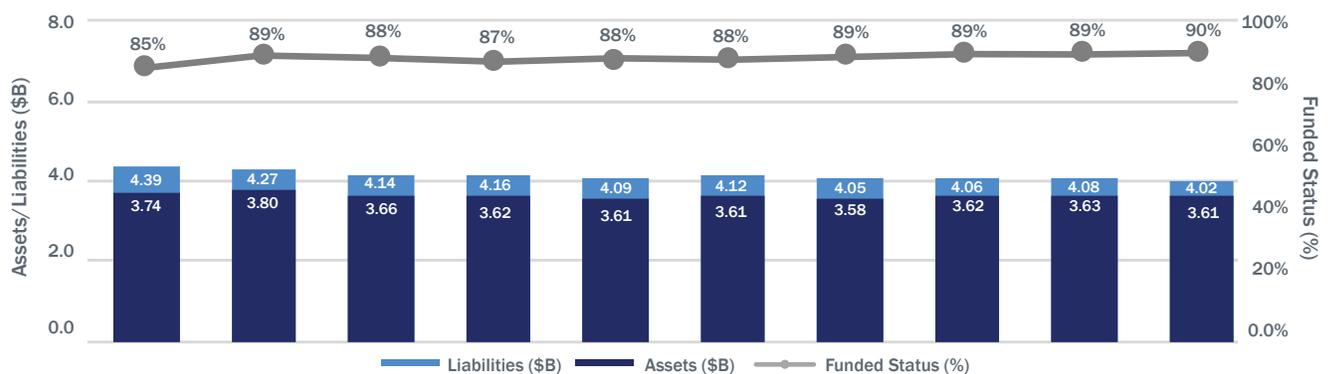
Prepared by Conning, Inc. Source: ©2018 Bloomberg, L.P. As of September 30, 2018

Key Metrics

Pension Plan	Assets	Liabilities†	Funded Status†
Valuation (\$B)	3.61	4.02	90%
Duration (Yr)	4.3	12.5	Interest Rate Hedge Ratio
Dollar Duration (\$mm)	1.5	5.0	
Yield* / Discount Rate	3.8%	4.0%	31%

Prepared by Conning, Inc. Source: ©2018 Bloomberg L.P. September 30, 2018 *Yield quoted is duration-weighted yield † Funded Status is hypothetical and calculated according to the Data and Methodology section outlined on Page 3. Refer to the Hypothetical Model Disclosures (page 3) for more important information.

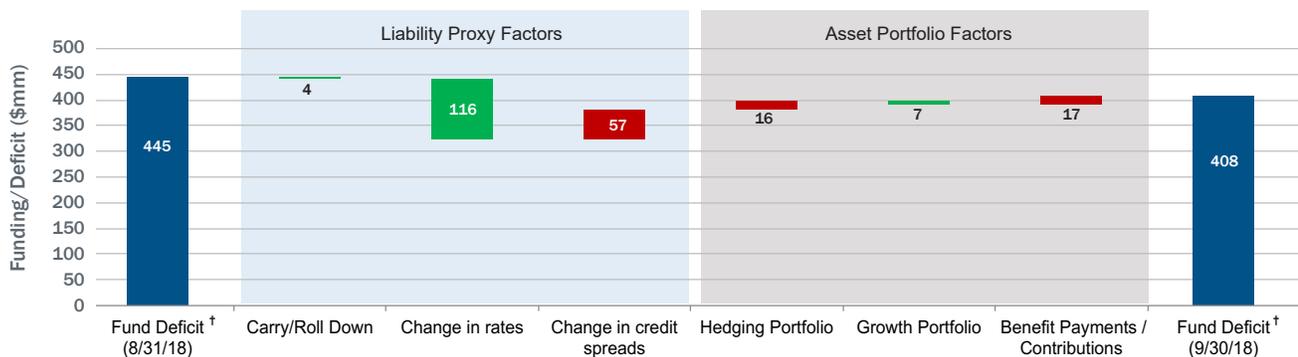
Pension Plan Tracker (September 2018)†



	Dec'17	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep'18
Funded Status (%)	85%	89%	88%	87%	88%	88%	89%	89%	89%	90%
Assets (\$B)	3.74	3.80	3.65	3.62	3.60	3.61	3.58	3.62	3.63	3.61
Liabilities (\$B)	4.39	4.27	4.14	4.16	4.09	4.12	4.05	4.06	4.08	4.02
Discount Rate (GAAP)	3.4%	3.6%	3.9%	3.8%	3.9%	3.9%	4.0%	4.0%	3.9%	4.0%

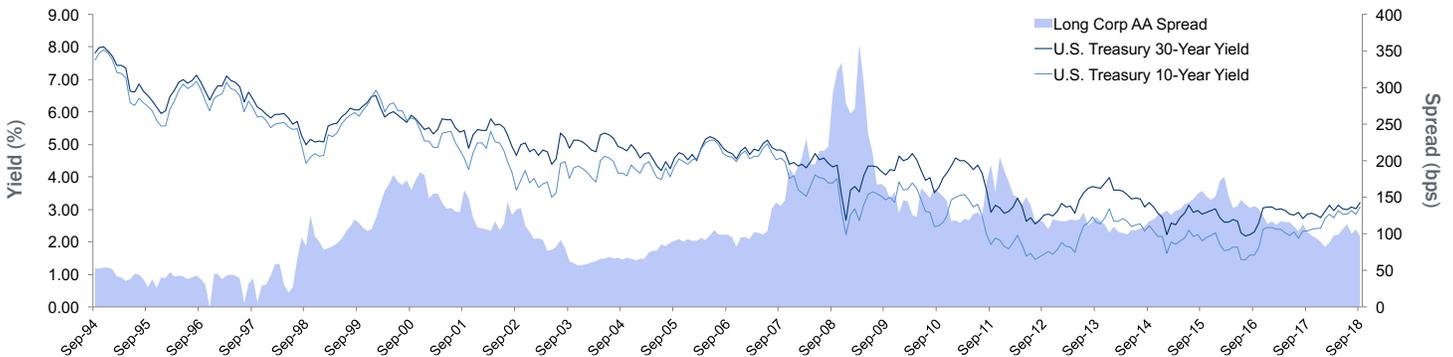
† Pension Plan Tracker results presented do not reflect actual performance. The results are hypothetical, and are generated according to the Data and Methodology section outlined on Page 3. Refer to the Hypothetical Model Disclosures (page 3) for more important information. Prepared by Conning, Inc. for illustrative purposes only. Source: ©2017-2018 Bloomberg, L.P.

Funded Status Attribution (August 31, 2018 – September 30, 2018)



† Funded Status Attribution presented does not reflect actual performance. The results are hypothetical, and are generated according to the Data and Methodology section outlined on Page 3. Refer to the Hypothetical Model Disclosures (page 3) for more important information. Chart shows the liability proxy and asset portfolio factors that contributed to the change in funded status over the month. Prepared by Conning, Inc., for illustrative purposes only. Source: ©2018 Bloomberg, L.P.

Yields and Corporate Spreads



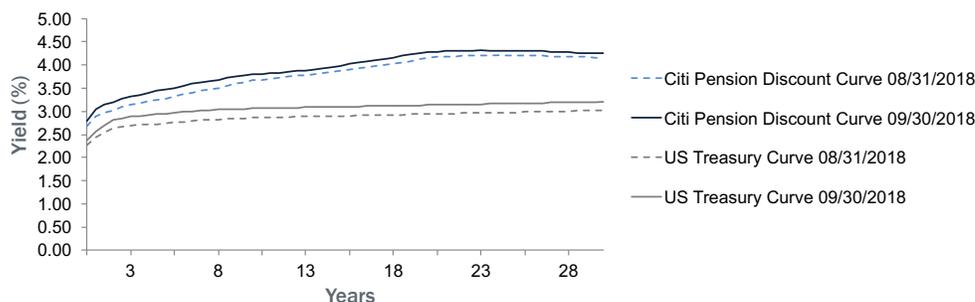
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Market Performance (September 2018 YTD)

	MTD	QTD	YTD	
Equities	S&P 500	0.6%	7.7%	10.6%
	Russell 2000	-2.4%	3.6%	11.5%
	MSCI World ACWI	0.5%	4.4%	4.2%
	EAFE	0.9%	1.4%	-1.0%
	MSCI Emerging Markets	-0.5%	-1.0%	-7.5%
Alternatives	Private Equity	1.2%	5.9%	5.4%
	Hedge Funds	-0.2%	0.6%	1.5%
	Real Estate	-2.6%	0.6%	2.1%
Fixed Income	High Yield	0.6%	2.4%	2.6%
	US Aggregate	-0.6%	0.0%	-1.6%
	US Long Gov/Credit	-1.6%	-0.5%	-5.4%
	US Long Credit	-0.6%	1.3%	-5.2%
	US Long Corporate AA	-1.1%	0.5%	-5.2%
	US Treasury 10 Yrs	-1.3%	-0.9%	-3.2%
	US Treasury 30 Yrs	-3.1%	-3.2%	-6.6%

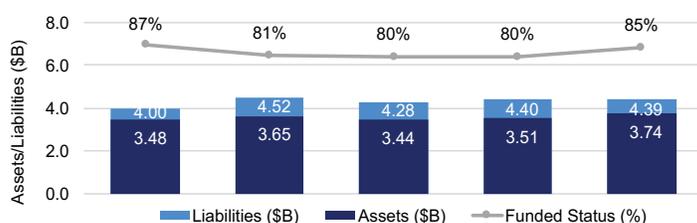
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Liability Discount Curve



Prepared by Conning, Inc. Source: ©2017-2018 Bloomberg L.P. and ©2017-2018 Analytics provided by "The Yield Book"® Software and Services/London Stock Exchange Group plc

Pension Plan Tracker (Annual 2013-2017)



	2013	2014	2015	2016	2017
Funded Status (%)	87%	81%	80%	80%	85%
Assets (\$B)	3.48	3.65	3.44	3.51	3.74
Liabilities (\$B)	4.00	4.52	4.28	4.40	4.39
Discount Rate (GAAP)	4.6%	3.7%	4.1%	3.9%	3.4%

Prepared by Conning, Inc. Source: ©2013-2017 Bloomberg, L.P.

About Conning®

Conning (<http://www.conning.com>) is a leading investment management firm with approximately \$132 billion in global assets under management as of June 30, 2018.* With a long history of serving the insurance industry, Conning supports institutional investors, including pension plans, with investment solutions and asset management offerings, award-winning risk modeling software, and industry research. Founded in 1912, Conning has investment centers in Asia, Europe and North America.

*As of June 30, 2018, represents the combined global assets under management for the affiliated firms under Conning Holdings Limited, and Cathay Securities Investment Trust Co., Ltd. ("SITE"). SITE reports internally into Conning Asia Pacific Limited, but is a separate legal entity under Cathay Financial Holding Co., Ltd. which is the ultimate controlling parent of all Conning controlled entities.

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Data and Methodology

Conning's Funded Status Tracker is a monthly publication that tracks the performance of the average defined benefit pension plan (the "Plan") of select corporate sponsors comprising a subset of the Russell 3000 Index. The data in this monthly review was reported in the 10-Ks of 496 publicly traded companies from the Russell 3000 index for the 2017 year-end.¹ Further, the Funded Status Tracker was updated retroactively to reflect published 10-K data for the 2017 year-end. All months of 2018 have been restated to account for the, now known, 2017 year-end position. Note: these assets may include non-U.S. pension plans. In aggregate, these 496 entities reported \$1.8 trillion in plan assets and \$2.2 trillion in plan liabilities at year end 2017.

The average plan size of the subset of the Russell 3000 index universe outlined above is approximately \$3.74 billion in assets and \$4.39 billion in liabilities, as of December 31, 2017. The Plan's liability is a hypothetical cash flow generated from our proprietary model to reflect a 13-year duration and valuation equivalent to the Plan's PBO on a US GAAP valuation basis as at the end of 2017, but allowed to drift with market conditions during the following year.

It is important to note that asset definitions are not uniform. Conning's analysis of companies' financial statements has found that some firms only report individual stocks as equities, while other firms include stock mutual funds. A similar mixing of types occurs in fixed income. In this analysis, Conning has used the allocations as reported by the companies and not adjusted them. Funded status is the percentage of liabilities that are covered by assets. Interest rate hedge ratio is the dollar duration of assets as a percentage of liability dollar duration.

¹For the periods 2012-2016, data from 389 publicly traded companies were used. These companies were selected because they had consistently filed pension data every year for the period from 2012 through to 2016. However, for the year 2017: an aggregate of 496 publicly traded companies were used since by this time more companies reported on a consistent basis.

LDI Hypothetical Model Disclosures

The proprietary model analysis presented herein is for illustrative purposes only. The model relies on a number of assumptions that are generally stated in the Data and Methodology and within the illustrations. The assumptions can be subject to significant uncertainties and contingencies, and such illustrations may change materially in response to small changes in one or more of such assumptions. The data used for this model was obtained from sources deemed reliable, and then organized by Conning, Inc. and was not audited by any third party. Errors could have occurred in the data, in the calculations, or in the preparation of this analysis. Therefore, information contained in this analysis may not be precise. C: 7605719

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