

Funding Progress

TERS benefits are funded by employer and employee contributions, as well as investment earnings. The Board of Administration's funding policy is intended to promote inter-generational fairness by establishing contribution rates that are tied to the benefits currently being accrued. Contributions for active members are currently 21% of pay, shared by the employer and the employee.

A pension fund is considered well-funded when it is projected to have sufficient assets to meet expected future benefit obligations to its members. The TERS actuarial accrued liability is determined by calculating the present value of all future benefits promised to past and present members. The funding ratio measures the relationship between the smoothed actuarial value of assets in the pension trust and the actuarial accrued liability. As of 1/1/2019, the funding ratio for TERS was 97.3%.

The following table provided historical information on actuarial valuations.

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (b)	Unfunded AAL (UAAL) (a-b)	Funding Ratio (a/b)
1/1/2019	\$1,713.9	\$1,761.7	\$ (47.8)	97.3%
1/1/2018	1,667.0	1,680.7	(13.7)	99.2
1/1/2017	1,585.0	1,648.1	(63.1)	96.2
1/1/2016	1,501.7	1,542.2	(40.5)	97.4
1/1/2015	1,402.7	1468.2	(65.5)	95.5

Dollars expressed in millions

Tacoma Employees' Retirement System Administrative Organization

Mayor and Chair	Victoria Woodards
Director of Finance	Andrew Cherullo
Designee of the City Manager	Tadd Wille
Designee of Tacoma Public Utilities Director	Jim Sant, CPA
Employee Representatives	Samuel Bencoter Gordon Cavanaugh John O'Loughlin
Retiree Representative	Kim Moore
Citizen Representative	Matthew Hedges, CFA, CAIA
Alternate Board Member	Wayne Reed
Administrative Staff	
Retirement Director/CIO	Tim Allen, CFA
Assistant Retirement Director	Catherine Agnes Marx, MAcc
Accountant	Trina Ealey
Accountant	Linh Nguyen
Administrative Assistant	Kathleen Mason
Retirement Specialist	Marni Moore
Retirement Specialist	Melanie Panui
Office Assistant	Cecilia Grey
Professional Consultants	
Legal Consultant	Davis Wright Tremaine, LLP
Consulting Actuary	Milliman
Custodian Bank	The Northern Trust Company
Investment Consultant	Wilshire Associates
Investment Managers	Adelante Capital Management BlackRock Dimensional Fund Advisors Eaton Vance Management Hamilton Lane HarbourVest Partners INTECH INVESCO Metropolitan West Asset Management/TCW Neuberger Berman Northern Trust Global Investments Pantheon PIMCO/Research Affiliates Prudential Trust Company Tortoise Capital Advisors, LLC
Investment Advisory	Dr. Alva Butcher Joseph E. Cook, CFA, CPA Dr. Lynda Livingston, CFA Dr. Kevin K. Boeh

Tacoma Employees' Retirement System
3628 S. 35th St., Tacoma, Washington 98409
(253) 502-8200 • TERSretirement@cityoftacoma.org
www.cityoftacoma.org/ters

Tacoma Employees' Retirement System 2018 Summary Annual Financial Report

This summary annual report has been designed to provide a summary of information for the Tacoma Employees' Retirement System (TERS), as of December 31, 2018. It includes a summary of the System, financial and actuarial information, asset allocation, investment activities, as well as the administrative organization.

The year 2018 marked the System's 78th year of operation. At year-end there were 2,474 retirees and beneficiaries receiving benefits, 747 terminated vested and other terminated members, and 2,989 active members. The System's fiduciary net position at December 31, 2018 was \$1.6 billion.

The Board of Administration conducts its monthly meetings on the second Thursday of the month. These Board meetings are held at either 10:00 a.m. or 1:00 p.m. in the Tacoma Public Utilities Building, Room ABN-LT1 and are open to the public.

If you have any questions regarding the Retirement System, please feel free to contact the Retirement Office at (253) 502-8200 or, by email at TERSretirement@cityoftacoma.org. The entire 2018 Comprehensive Annual Financial Report (CAFR) is available through our website at www.cityoftacoma.org/ters.

Victoria Woodards
Mayor and Chair of the Board of Administration

Summary of the System

The Tacoma Employees' Retirement System (TERS) is . . .

- * Organized under the official code of the City of Tacoma for the purpose of providing a uniform program of retirement, disability and death benefits for its eligible members.
- * At the direction of the City Council, the System is administered by the Board of Administration (the Board) consisting of nine regular members and one alternate member. The members of the Board are the Mayor, who serves as Chair, the Director of Finance, the City Manager (or designee), the Public Utilities Director (or designee), three elected employee representatives, one elected retired representative, and one City resident (not employed by the City) elected by the other eight members. The nine regular Board members appoint a TERS member, either active or retired, as an alternate Board member. The Board, subject to City Council approval, appoints the Director who is responsible for managing the daily operations of the System.

2018 Key Statistics

Active Members	2,989
Benefit Recipients.....	2,474
Terminated Vested & Other Terminated Members	747
Fiduciary Net Position (at Fair Value of Assets) \$1,635,020,381	
Benefits Paid.....	\$80,034,214
Refund of Contributions	\$2,199,211
Administrative Expenses	\$1,690,865
Member Contributions	\$25,193,034
Employer Contributions.....	\$28,587,937
Funded Ratio (at Actuarial Value of Assets).....	97.3%
Funded Ratio (at Fair Value of Assets)	92.8%
Investment Rate of Return	-3.2%

Fiduciary Net Position

	2018	2017
Cash and Short-Term Investments	\$ 17,508,429	\$ 35,448,884
Receivables	4,516,642	5,323,232
Investments	1,628,186,781	1,727,359,837
Securities Lending Collateral	21,575,741	41,989,985
Capital Assets	9,285	10,129
Total Assets	\$1,671,796,878	\$1,810,132,067
Accounts Payable and Other Liabilities	1,937,311	1,999,360
Investment Purchases	13,263,445	42,893,200
Securities Lending Collateral	21,575,741	41,989,985
Total Liabilities	\$ 36,776,497	\$ 86,882,545
Net Position Restricted for Pensions	\$1,635,020,381	\$1,723,249,522

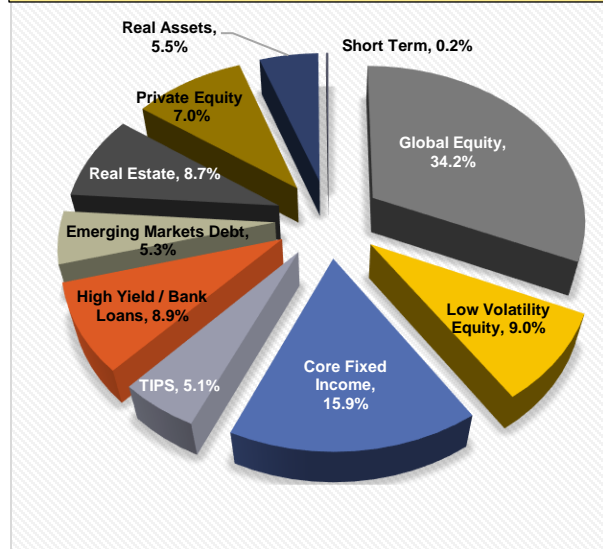
Changes in Fiduciary Net Position

	2018	2017
Total Contributions	\$ 53,780,971	\$ 49,100,277
Net Investment Income	(58,085,821)	205,616,277
Total Additions	\$ (4,304,850)	\$ 254,716,554
Benefits and Refunds of Contributions	82,233,426	77,467,644
Administrative Expenses.....	1,690,865	1,663,105
Total Deductions	\$ 83,924,291	\$ 79,130,749
Net Increase	(88,229,141)	175,585,805
Net Position Beginning of Year	1,723,249,522	1,547,663,717
Net Position End of Year	\$1,635,020,381	\$1,723,249,522

Benefits and Refunds Paid

Year	Service	Survivor	Disability	Refunds	Totals
2018	\$73,639,003	\$5,913,125	\$482,088	\$2,199,211	\$82,233,426
2017	68,597,676	5,986,221	463,074	2,420,673	77,467,644
2016	64,019,898	5,621,915	480,628	1,873,613	71,996,054
2015	60,158,017	5,476,217	498,177	2,475,363	68,607,773
2014	56,535,677	5,423,800	526,129	2,151,028	64,636,634

2018 Actual Asset Allocation



Annualized Rate of Return

	1-Year	3-Year	5-Year
Total Fund	-3.24%	6.17%	5.26%
Custom Policy Benchmark Index	-2.92%	6.44%	5.03%
Global Equity	-9.48%	7.14%	5.40%
Custom Global Equity Index	-8.70%	7.25%	5.54%
Low Volatility Equity	-1.17%	8.12%	#
MSCI ACWI Min Volatility Index	-1.56%	7.64%	#
Core Fixed Income	0.31%	2.27%	2.65%
Barclays U.S. Aggregate Index	1.00%	2.06%	2.52%
TIPS	-1.30%	2.12%	1.68%
Barclays U.S. TIPS Index	-1.26%	2.11%	1.69%
High Yield / Bank Loans	-1.39%	5.44%	2.92%
Custom High Yield Index	-2.25%	7.27%	3.83%
Emerging Market Debt	-5.96%	6.16%	5.78%
JPM EMBI Global Diversified Index	-4.26%	5.15%	4.79%
Real Estate	1.59%	4.98%	8.93%
Custom Real Estate Index	1.42%	4.86%	8.92%
Private Equity	6.08%	10.42%	9.05%
Custom Private Equity Index	5.00%	13.45%	9.28%
Real Assets	-7.00%	2.81%	-0.28%
Custom Real Assets Index	-3.53%	2.39%	-5.07%

Additional Information:

#=performance for full period not applicable
 Note: Performance calculations were prepared by Wilshire Consulting using time-weighted rates of return.
 Total returns include cash income plus gains and losses due to changes in fair value, whether realized or unrealized.

Supplemental Benchmark Information:

The Custom Total Policy Benchmark Index at year-end 2018 was 34.5% Russell Global Equity Index (50% Hedged on Developed ex-U.S. Countries), 8.0% MSCI ACWI Minimum Volatility Index, 16.5% Barclays U.S. Aggregate Index, 5.0% Barclays U.S. TIPS Index, 9.0% Merrill Lynch High Yield Master II Constrained Index, 5.0% JP Morgan EMBI Global Diversified Index, 4.0% Wilshire REIT Index, 4.0% NCREIF ODCE Index, 2.0% Alerian MLP Index, 2.0% CPI+3% and 10.0% Custom Private Equity Index.

The Global Equity Index is the Russell Global Equity Index (50% Hedged on Developed ex-U.S. Countries).

The Custom High Yield Index is the Merrill Lynch High Yield Master II Constrained Index.

The Custom Real Estate Index starting is 50% NCREIF ODCE Index and 50% Wilshire REIT Index.

The Custom Private Equity Index is dynamically calculated based on the actual weights of the private equity investments and the private equity source fund.

To coincide with private equity investments reporting, 1-quarter lagged market values are used for the private equity component in the custom benchmark calculation.

The Custom Real Assets Index from October 2015 is 50% Alerian MLP Index and 50% CPI+3%. Prior to that it was the Alerian MLP Index.