

# Montana Teachers' Retirement System Valuation Results July 1, 2019

Shawn Graham, Executive Director trs.mt.gov



#### **Benefit Financing**

$$C + I = B + E$$

B depends on

- Plan Provisions
- Experience

C depends on

Short Term: Actuarial Assumptions

**Actuarial Cost Method** 

Long Term: I, B, E



#### **Participation in TRS**

➤ Teachers, administrators, specialists and others employed in a teaching or educational services capacity by a public school district, state agency, county, community college, Montana University System or educational cooperative are covered by TRS.

Active members 19,686

Inactive members16,052

Retirees and Beneficiaries 16,256

- Employers 365



#### **Comments on Valuation**

#### Asset returns

- Market asset return 5.69% vs. 7.50% expected (1.81% less than expected).
- Actuarial asset return 7.00% vs. 7.50% expected (0.50% less than expected).
- Market value of assets are \$770,648 more than the actuarial value of assets. This unrecognized investment gain will be recognized over the next three years
  - An investment gain followed by two investment losses



#### **Comments on Valuation**

- > Funded Ratio
  - Funding increased from 68.19% to 68.63%
- Amortization Period
  - Amortization period decreased from 31 to 29 years

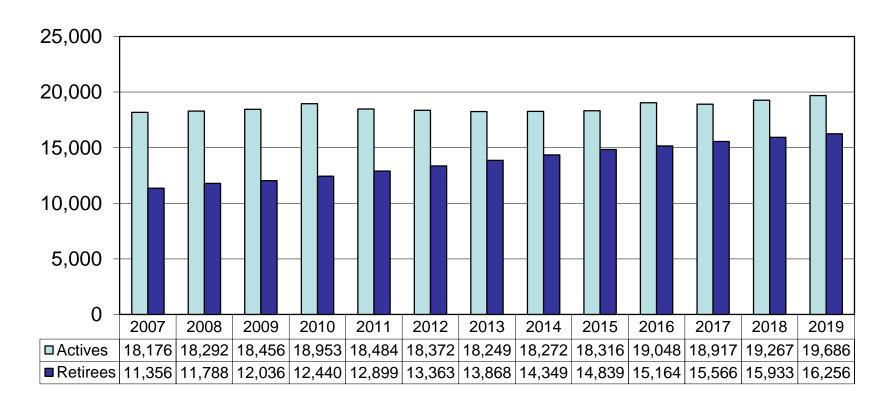


# **Changes Since the Previous Valuation**

- Reduced assumed GABA for Tier Two members from 1.50% to 0.50%
  - Tier Two GABA requires Board approval to increase from 0.50%.
- Decreased amortization period from 30 to 29 years
- Decreased unfunded actuarial accrued liability by \$6.1 million



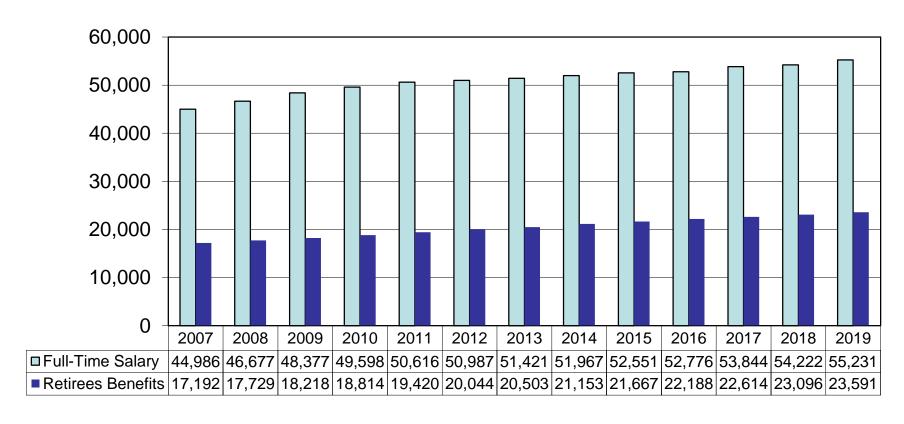
#### **Active and Retired Membership**



- 0.7% annual increase for active members since 2007; 2.2% increase for 2019.
- 3.0% annual increase for retired members since 2007; 2.0% increase for 2019.
- 0.6 retirees per active 12 years ago; 0.8 retirees per active now.



### **Average Salary and Benefits**



- 1.7% annual increase for average salary since 2007; 1.9% increase for 2019.
- 2.7% annual increase for average benefits since 2007; 2.1% increase for 2019.



# Payroll & Benefits (Millions)





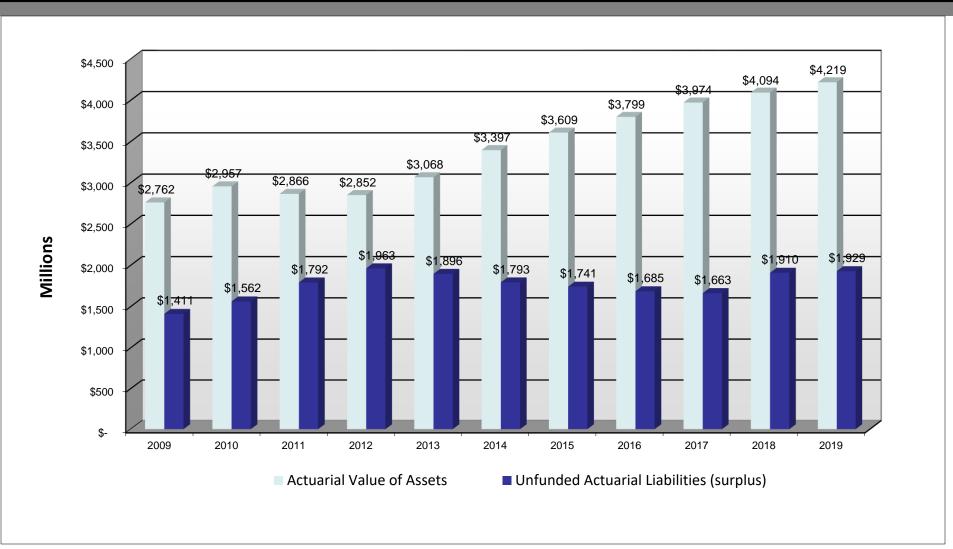
### **Assets (\$ Millions)**



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Market Return	(4.9)%	(20.8)%	12.9%	21.7%	2.2%	12.9%	17.1%	4.6%	2.1%	11.9%	8.8%	5.7%
Actuarial Return	7.2%	(10.3)%	9.8%	(0.1)%	3.2%	12.0%	13.2%	9.6%	8.8%	8.2%	6.9%	7.0%

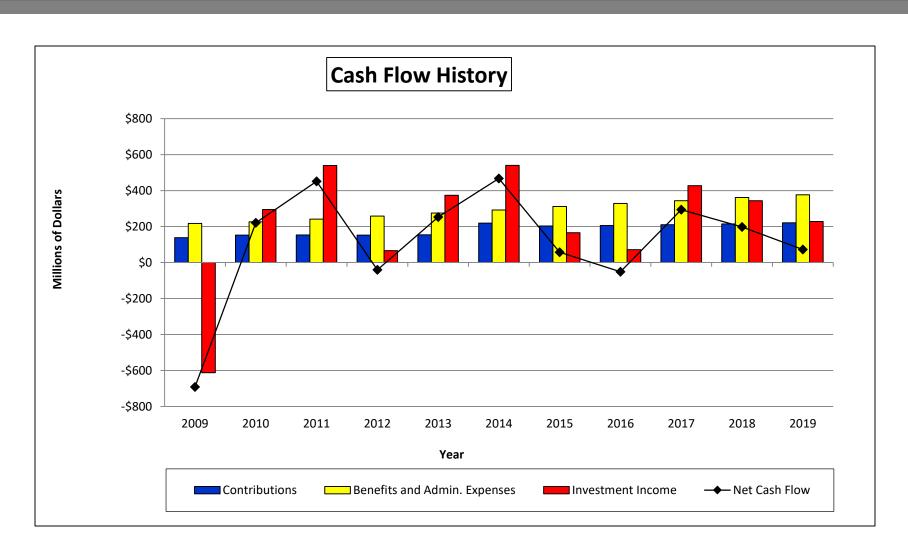


#### **Actuarial Assets vs. UAAL**





# Historical Cash Flow (in Millions)





## **Funding Results**

	July 1, 2019 Valuation	July 1, 2018 Valuation		
Total Normal Cost Rate	9.78%	9.96%		
Less Member Rate	<u>8.15%</u>	<u>8.15%</u>		
Employer Normal Cost Rate	1.63%	1.81%		
Administrative Expense Load	0.36%	0.36%		
Rate to Amortize UAL	<u>9.57%</u>	<u>9.29%</u>		
Total Employer Statutory Rate	11.56%	11.46%		
Actuarial Accrued Liability	\$6,148.6 million	\$6,004.4 million		
Actuarial Value of Assets	\$4,219.6 million	\$4,094.4 million		
Unfunded Accrued Liability	\$1,929.0 million	\$1,910.0 million		
Funded Ratio	68.63%	68.19%		
Amortization Period*	29 Years	31 Years		

<sup>\*</sup> Reflects anticipated increase in employer supplemental contribution rate



### **Progress Toward 100% Funding**

