## TRS

## Montana Teachers' Retirement System Valuation Results <br> July 1, 2015

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## Benefit Financing

> Basic Retirement Funding Equation

## $C+I=B+E$

C = Contributions
I = Investment Income
$B=$ Benefits Paid
$E=$ Expenses (administration)

## Results

## Comments on Valuation

> Asset returns

- Market asset return 4.57\% vs. 7.75\% expected (3.18\% less than expected).
- Actuarial asset return $9.59 \%$ vs. $7.75 \%$ expected (1.84\% greater than expected).
$>$ Funded Ratio
- Funding increased from 65.45\% to 67.46\%
> Amortization Period
- Amortization period decreased from 28 to 26 years


## Active and Retired Membership


0.0\% annual increase for active members since 2005; 0.2\% increase for 2015.
3.4\% annual increase for retired members since 2005; 3.4\% increase for 2015.
0.6 retirees per active 10 years ago; 0.8 retirees per active now.

## Average Salary and Benefits


2.3\% annual increase for average salary since 2005; 1.1\% increase for 2015.
$3.1 \%$ annual increase for average benefits since 2005; 2.4\% increase for 2015.

## Payroll \& Benefits (Millions)


$\rightarrow$ Full-time Payroll $\rightarrow$ Benefits

## Assets (\$ Millions)



|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Market Return | $8.0 \%$ | $8.9 \%$ | $17.6 \%$ | $(4.9) \%$ | $(20.8) \%$ | $12.9 \%$ | $21.7 \%$ | $2.2 \%$ | $12.9 \%$ | $17.1 \%$ |
| Actuarial Return | $2.7 \%$ | $8.5 \%$ | $10.2 \%$ | $7.2 \%$ | $(10.3) \%$ | $9.8 \%$ | $(0.1) \%$ | $3.2 \%$ | $12.0 \%$ | $13.2 \%$ |

## Funding Results

|  | July 1, 2015 Valuation | July 1, 2014 Valuation |
| :--- | :---: | :---: |
| Total Normal Cost Rate | $9.21 \%$ | $9.13 \%$ |
| Less Member Rate | $\underline{8.15 \%}$ | $\underline{8.15 \%}$ |
| Employer Normal Cost Rate | $1.06 \%$ | $0.98 \%$ |
| Administrative Expense Load | $0.28 \%$ | $0.31 \%$ |
| Rate to Amortize UAL | $\underline{9.82 \%}$ | $\underline{9.77 \%}$ |
| Total Employer Statutory Rate | $11.16 \%$ | $11.06 \%$ |
|  | $\$ 5,351.4$ million | $\$ 5,191.0$ million |
| Actuarial Accrued Liability | $\$ 3,609.8$ million | $\$ 3,397.4$ million |
| Actuarial Value of Assets | $\$ 1,741.6$ million | $\$ 1,793.6$ million |
| Unfunded Accrued Liability | $67.46 \%$ | $65.45 \%$ |
| Funded Ratio | 26 Years | 28 Years |
| Amortization Period* |  |  |

* Reflects anticipated increase in employer supplemental contribution rate


## Progress toward 100\% Funding



Montana Teachers' Retirement System Retirement Benefits Paid by County - Fiscal Year 2015


Total Benefits Paid in Montana: \$251,159,293
Total Recipients in Montana: 11, 379
Prepared: October 1, 2015

Montana Teachers' Retirement System
Retirement Benefits Paid by County - Fiscal Year 2015

| County | Gross Benefits Paid | \# of Benefit Recipients | County | Gross Benefits Paid | \# of Benefit Recipients |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEAVERHEAD | \$2,663,924 | 133 | MCCONE | \$408,167 | 29 |
| BIG HORN | \$2,245,506 | 108 | MEAGHER | \$404,573 | 23 |
| BLAINE | \$1,404,330 | 82 | MINERAL | \$1,160,302 | 61 |
| BROADWATER | \$1,066,236 | 53 | MISSOULA | \$35,417,791 | 1,362 |
| CARBON | \$2,398,985 | 132 | MUSSELSHELL | \$1,172,439 | 56 |
| CARTER | \$118,420 | 10 | PARK | \$2,795,145 | 134 |
| CASCADE | \$20,867,273 | 941 | PETROLEUM | \$97,006 | 7 |
| CHOUTEAU | \$1,320,327 | 78 | PHILLIPS | \$1,298,233 | 65 |
| CUSTER | \$3,037,177 | 151 | PONDERA | \$1,443,790 | 82 |
| DANIELS | \$506,955 | 28 | POWDER RIVER | \$270,137 | 18 |
| DAWSON | \$2,360,911 | 112 | POWELL | \$1,480,182 | 75 |
| DEER LODGE | \$2,912,665 | 132 | PRAIRIE | \$168,764 | 12 |
| FALLON | \$650,727 | 29 | RAVALLI | \$6,810,722 | 379 |
| FERGUS | \$3,489,647 | 185 | RICHLAND | \$1,892,306 | 95 |
| FLATHEAD | \$19,553,793 | 957 | ROOSEVELT | \$1,801,282 | 100 |
| GALLATIN | \$24,219,662 | 961 | ROSEBUD | \$1,636,589 | 94 |
| GARFIELD | \$138,582 | 10 | SANDERS | \$2,157,593 | 123 |
| GLACIER | \$2,430,148 | 115 | SHERIDAN | \$1,060,535 | 54 |
| GOLDEN VALLEY | \$145,827 | 12 | SILVER BOW | \$11,794,778 | 488 |
| GRANITE | \$605,123 | 32 | STILLWATER | \$1,943,730 | 105 |
| HILL | \$4,428,149 | 200 | SWEET GRASS | \$1,055,412 | 41 |
| JEFFERSON | \$3,203,249 | 151 | TETON | \$1,705,421 | 92 |
| JUDITH BASIN | \$380,134 | 23 | TOOLE | \$897,803 | 50 |
| LAKE | \$6,157,568 | 301 | TREASURE | \$223,940 | 14 |
| LEWIS AND CLARK | \$18,282,113 | 791 | VALLEY | \$2,188,979 | 108 |
| LIBERTY | \$320,167 | 20 | WHEATLAND | \$385,764 | 30 |
| LINCOLN | \$4,721,025 | 242 | WIBAUX | \$139,160 | 7 |
| MADISON | \$1,899,155 | 92 | YELLOWSTONE | \$37,820,972 | 1,594 |
|  |  |  |  |  |  |
|  |  |  | Total Montana: | \$251,159,293 | 11,379 |
|  |  |  | Other U.S. States: | \$48,307,310 | 2,888 |
|  |  |  | International: | \$351,905 | 30 |
|  |  |  | Total: | \$299,818,508 | 14,297 |

