

Benefits and Actuarial Committee (B&A) Meeting

1111 E. Main Street 3rd Floor Board Room Richmond, VA 23219 Monday, 11/15/2021 1:00 - 3:30 PM ET

I. Welcome and Introductions

II. Approve Minutes

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III. Action Item

• Cavanaugh Macdonald Consulting, LLC, 2021 Actuarial Valuation Results for Political Subdivision Retirement Plans, the Virginia Local Disability Program (VLDP), Local Health Insurance Credit (HIC), and Line of Duty Act (LODA) Fund.

RBA_RatesForPoliSubs_HIC_VLDP_LODA - Page 5 Locals2021 Presentation - Page 7

LODA2021_B&A - 170.1 Part B FINAL - Page 85

IV. Information Item

• 2022 B&A Committee Meeting Schedule

- February 9 at 1:00 p.m.
- June 6 at 1:00 p.m.
- October 17 at 1:00 p.m.
- November 14 at 1:00 p.m.

V. Other Business



Minutes

A regular meeting of the Benefits and Actuarial Committee was held on October 13, 2021 in Richmond, Virginia with the following members participating:

William A. Garrett, Chair Michael P. Disharoon, Vice Chair John Bennett

Board members present: O'Kelly E. McWilliams, III, Board Chair Joseph W. Montgomery, Board Vice Chair Troilen G. Seward

VRS Staff:

Patricia Bishop, Jennifer Schreck, Rory Badura, Ty Bowers, Jeanne Chenault, Michael Cooper, Sara Denson, Valerie Disanto, Barry Faison, Jon Farmer, Andy Feagans, Krystal Groff, Robert Irving, Angela Payne, Jillian Sherman, Virginia Sowers and Cindy Wilkinson.

Guests:

Larry Langer, Alisa Bennett, and Brad Wild, Cavanaugh Macdonald Consulting, LLC; Adam Rosatelli, Senate Finance and Appropriations Committee; Latosha Johnson, Department of Planning and Budget; Jamie Bitz, Joint Legislative Audit and Review Commission; Louise Moody, Fairfax County Public Schools; and Bea Snidow, Virginia Education Association.

The meeting convened at 10:01 a.m.

Opening Remarks

Mr. Garrett called the meeting to order and welcomed everyone to the October 13, 2021 meeting of the Benefits and Actuarial Committee.

Approval of Minutes

Upon a motion by Mr. Bennett, with a second by Mr. Disharoon, the Committee approved the minutes of its September 1, 2021 meeting.

Cavanaugh Macdonald Consulting, LLC, 2021 Actuarial Valuation Results for Five Statewide Retirement Plans, Group Life Insurance, State and Teacher Retiree Health Insurance Credit, and the Virginia Sickness and Disability Program (includes self-funded Long-Term Care)

Mr. Garrett introduced Larry Langer and Alisa Bennett with the VRS plan actuary, Cavanaugh Macdonald Consulting, LLC, who presented the June 30, 2021 actuarial valuations for the Five Statewide Retirement Plans (Teachers, State Employees, JRS, SPORS, and VaLORS). In addition, the results of the Other Post-Employment Benefit Programs (OPEBs), including Group Life Insurance, Health Insurance Credit (HIC), and the Virginia Sickness and Disability Program, which includes self-funded Long-Term Care, were presented.



Mr. Langer began his presentation by stating that the June 30, 2021 valuations are used to set the contribution rates for fiscal years 2023 and 2024. He provided an overview of the actuarial valuation process used to determine contribution rates and the funded status of pension and OPEB plans.

Since the previous valuation, there were several significant changes to assumptions and plan experience that differed from what was assumed, which will impact future contribution rates. Such factors included assumption changes from the April 2021 experience study, investment return, salary increases and demographic changes. The most significant assumption change was to the mortality assumptions, which included moving to a generational mortality improvement scale. This generally increased liabilities for pension plans and had mixed results on OPEB plans.

Mr. Langer advised that the 2021 investment return of 27.5% had an immediate positive impact to the funded status on the market value of assets basis. The investment gain will be phased in over a five-year period due to actuarial smoothing of assets for funding calculations. The Teacher retirement plan and the State HIC also benefitted from additional cash infusions above the required contributions; \$61.3 million and \$38.7 million respectively. He also noted that the Governor's budget included 5% salary increases for state employees and 8% salary increases for SPORS members, along with additional compression increases for eligible SPORS members. Mr. Langer advised that headcounts for State, Teachers, and VaLORS plans decreased from the prior year. The plans generally experienced more terminations, deaths, and refunds than expected, and fewer hires.

The contribution rates for the upcoming biennium are lower than the rates paid for fiscal years 2021 and 2022 for all plans except SPORS, VaLORS and JRS, which had increases in liability associated with the experience study that were not fully offset by the investment gains.

Mr. Garrett thanked Mr. Langer and Ms. Bennett for their presentation.

Upon a motion by Mr. Bennett, with a second by Mr. Disharoon, the Committee recommended approval of the following action to the full Board of Trustees:

RBA: Certify the contribution rates for the Five Statewide Retirement Plans and associated OPEBs for FY 2023 and FY 2024.

Request for Board Action: After considering the recommendations of its actuary, the Board certifies the rates as presented for the Five Statewide Retirement Plans (State Employees, Teachers, JRS, SPORS, and VaLORS) and the associated OPEBs; Group Life Insurance (GLI); Health Insurance Credit (HIC); and the Virginia Sickness and Disability Program (VSDP), including self-funded Long-Term Care, all effective July 1, 2022.

Information Item

Rory Badura, Senior Staff Actuary, provided a brief overview of strategies to enhance funding, which included shortening amortization periods for legacy unfunded liabilities, using level dollar rather than percentage of pay amortization, as well as maintaining higher contribution rates following years in which the plan has favorable experience.



Mr. Garrett advised that the Committee will meet November 15, 2021 at 1:00 p.m. to receive the valuation results for the Local Plans and the Line of Duty Act Fund. Lastly, Mr. Garrett noted the Board of Trustees will meet October 14, 2021 at 1:00 p.m.

Adjournment

There being no further business and following a motion by Mr. Montgomery, with a second by Mr. Bennett, the Committee agreed to adjourn the meeting at 11:11 a.m.

Date

William A. Garrett, Chair Benefits and Actuarial Committee



Approve contribution rates for political subdivisions, the Health Insurance Credit for certain political subdivisions, the Virginia Local Disability Program and the Line of Duty Act Fund, effective for FY 2023 and FY 2024.

Requested Action

After considering the recommendations of its Plan Actuary, the Board accepts the June 30, 2021 valuation report for political subdivisions and the Health Insurance Credit (HIC) for certain political subdivisions; approves a contribution rate of 0.36% for constitutional officers, a rate of 0.37% for social services employees, and a contribution rate of 0.32% for general registrars; approves a contribution rate of 0.47% for the Virginia Local Disability Program (VLDP), including self-funded Long-Term Care for Teachers and a rate of 0.85% for VLDP, including self-funded Long-Term Care for Political Subdivisions; and approves a full-time equivalent premium rate of \$681.84 for the Line of Duty Death and Health Benefits Trust Fund (Fund), all for both FY2023 and FY2024, to be effective July 1, 2022.

Rationale for Requested Action

The certified employer contribution rates reflect the assumptions and provisions in effect as of June 30, 2021 including the assumed rate of return of 6.75%.

The employer contribution rates will go into effect on July 1, 2022.

Under *Code of Virginia* § 51.1-1403(A), the cost of HIC for retired local officers, retired general registrars (and the retired employees of each), and retired employees of a local social services board is borne by the Commonwealth and not the political subdivisions.

The Line of Duty Act (LODA) provides benefits to eligible first responders who die or become disabled in the line of duty. VRS administers, manages and invests the Fund. VRS is responsible for determining costs for the Fund in order to provide benefit payments and for collecting required contributions from participating employers.

Code of Virginia § 9.1-400.1(D) requires participating employer contributions to the Fund to be determined by the Board on a current disbursement basis (pay-as-you-go). Contributions fund the claims and administrative expenses for participating employers. The FY2023 and FY2024 premium rate of \$681.84 is based on a participating FTE count of 19,087.20.

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Authority for Requested Action

Code of Virginia §§ 51.1-124.22(5) and -145 authorize the Board to determine the required contribution rate for the various employer groups in the Retirement System. *Code of Virginia* § 9.1-400.1 authorizes the Board to set the employer contribution rates for the Line of Duty Death and Health Benefits Trust Fund.

The above action is approved.

O'Kelly E. McWilliams, III, Chair VRS Board of Trustees Date

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The experience and dedication you deserve



Virginia Retirement System Political Subdivisions June 30, 2021 Actuarial Valuations

November 15, 2021

Larry Langer, ASA, FCA, MAAA, EA Principal and Consulting Actuary

Alisa Bennett, FSA, FCA, MAAA, EA President



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- ➤ June 30, 2021 Results:
 - Employer Contribution Rates
 - Funded Status
 - Unfunded Actuarial Accrued Liability
- Plan by Plan Analysis

> Appendix



Purpose of the June 30, 2021 Actuarial Valuation



- The actuarial valuation provides a basic source document for information regarding actuarially determined contributions (employer rates) as well as the funded status of pension and other post-employment benefit (OPEB) plans.
- The June 30, 2021 valuations will be used to set contribution rates for the two-year period from July 1, 2022 through June 30, 2024
 - Odd year valuations are for rate setting.
 - Even year valuations are for informational purposes.



Purpose of the June 30, 2021 Actuarial Valuation



Each fall, CMC presents results over two Board meetings: **Other Post Employment Benefits (OPEB)** Pension Virginia Retirement System Group Life Insurance Fund State Employees Retiree Health Insurance Credit (HIC) Teachers State Employees Political Subdivisions Teachers Virginia Law Officers (VaLORS) Political Subdivisions State Police Officers (SPORS) Constitutional Officers Judges (JRS) Social Services Employees Registrars Virginia Sickness and Disability Program (VSDP) Virginia Local Disability Program (VLDP) Teachers Political Subdivisions Line of Duty Act Fund (LODA)

- We present results for the plans in bold in November; the remainder were presented in October.
- > LODA results are in a separate presentation.





Basic funding equation for benefits:

C + I = B + E

Contributions + Investment returns = Benefits + Expenses

- Over the long term, actual investment returns, benefits and expenses determine the amount of contributions.
- Over the short term, estimated investment returns, benefits and expenses developed in an actuarial valuation will determine the amount of contribution.





- The actuarial valuation process can be viewed as a budgeting process. Like a budget, we make use of information we know as of a certain date, and using assumptions, we estimate what we think will happen in the future.
- Member data, asset data and benefit provisions are provided by Staff. Thank you!!
- Assumptions and funding methodology are determined by the Board of Trustees, Code of Virginia and GASB, with input from the actuary and other professionals.

Inputs

Member Data Asset Data Benefit Provisions Assumptions Funding Methodology

↓ Results

Actuarial Value of Assets (AVA) Actuarial Accrued Liability (AAL) Net Actuarial Gain or Loss Funded Ratio/UAAL Employer Contribution Rates Projections





Executive Summary



Executive Summary



- Since the prior valuation, there have been several significant changes to assumptions as well as plan experience that differed from what was assumed which will impact future contribution rates.
- Significant factors that impacted results:
 - Assumptions changes
 - Investment return
 - COLAs less than expected
 - Demographic changes
 - Possible COVID Impacts?
 - · Headcounts are down in several plans
 - Higher terminations, deaths, and refunds
 - Fewer new hires
 - Political subdivisions which had changes in coverage since the last valuation
 - HIC political subdivisions saw increases in averages due to payroll increasing less than expected, more schools electing the extra \$1 benefit and more plans with surcharges.
- The impact of these events had mixed results across plans as we will see on the following slides.





Experience Study Recommendations

- Most significant change was to the mortality assumptions
 - PUB-2010 with generational mortality improvement scale
- Generally increased liabilities for pension plans and had mixed results on OPEB plans





- Changes in assumptions recommended by CMC and adopted by the Board in April 2021 increased liabilities for pension plans.
- Changes in assumptions had larger impact on plans with Hazardous Duty members.

| | | Actuarial Accrued Liability | | | | | | |
|------------------------|------------------------------|-----------------------------|-----------------------------|-------------|--------------------------|--|--|--|
| System | Before Assumption Changes | | After Assumption Changes | | % Change in Liability | | | |
| State | \$ | 26,326,136 | \$ | 26,727,971 | 1.53% | | | |
| Teachers | \$ | 51,871,407 | \$ | 52,747,596 | 1.69% | | | |
| SPORS | \$ | 1,267,565 | \$ | 1,326,646 | 4.66% | | | |
| VaLORS | \$ | 2,339,223 | \$ | 2,407,153 | 2.90% | | | |
| JRS | \$ | 681,969 | \$ | 733,408 | 7.54% | | | |
| Political Subdivisions | \$ | 26,217,770 | \$ | 27,161,308 | 3.60% | | | |
| Total | \$ | 108,704,070 | \$ | 111,104,082 | 2.21% | | | |



Executive Summary



- Changes in assumptions recommended by CMC and adopted by the Board in April 2021 had mixed impact on OPEB plan liabilities.
- Method change to mid-year decrements for all plans except Teachers lowered costs for VLDP Political Subdivisions due to the limited term nature of the benefit.

| | Actuarial Accrued Liability | | | | | | |
|------------------------------|------------------------------|-----------|------------------|-----------|-------------|--|--|
| | Before Assumption Changes | | After Assumption | | % Change in | | |
| Plan | | | Changes | | Liability | | |
| Group Life | \$ | 3,717,938 | \$ | 3,524,464 | -5.20% | | |
| HIC State | \$ | 1,033,299 | \$ | 1,044,663 | 1.10% | | |
| HIC Teachers | \$ | 1,457,810 | \$ | 1,471,397 | 0.93% | | |
| VSDP | \$ | 254,646 | \$ | 250,103 | -1.78% | | |
| HIC Political Subdivisions | \$ | 81,265 | \$ | 82,791 | 1.88% | | |
| HIC Constitutional Officers | \$ | 32,715 | \$ | 33,241 | 1.61% | | |
| HIC Social Service Employees | \$ | 14,592 | \$ | 14,833 | 1.65% | | |
| HIC Registrars | \$ | 581 | \$ | 590 | 1.55% | | |
| VLDP Teachers | \$ | 4,799 | \$ | 5,102 | 6.31% | | |
| VLDP Political Subdivisions | \$ | 5,520 | \$ | 5,005 | -9.33% | | |
| Total | \$ | 6,603,165 | \$ | 6,432,189 | -2.59% | | |





Investment Return for 2021

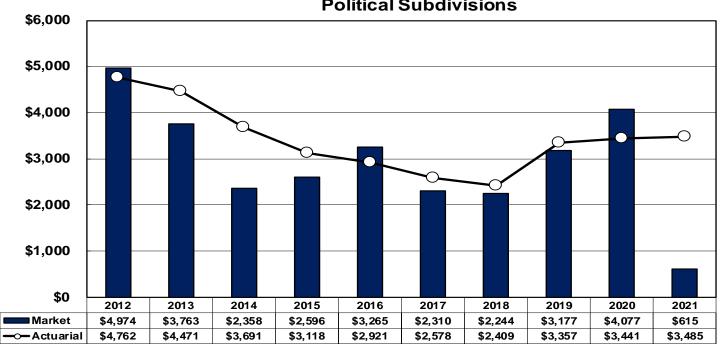
- Fiscal year investment return for 2021 was 27.5%
- Immediate positive impact to funded status on market value of asset basis
- Investment gain is phased in over a five-year period due to actuarial smoothing of assets for funding calculations



Executive Summary



 \triangleright Since the actuarial value of assets smooths in the excess gains over a fouryear period, the unfunded liabilities on an actuarial value of assets basis should trend downward toward the unfunded liabilities on a market value basis if all other assumptions are met.



Political Subdivisions





Demographic Changes

- Active headcounts are down in aggregate for Political Subdivisions, but varied across employers
- Generally, the impact of demographic changes on the valuation results was less than the impact of the change in assumptions, market returns being more than expected and COLAs being less than expected



Executive Summary



Demographic Changes

| | Active Counts | | | | | |
|------------------------|---------------|---------|----|---------|------------------------------|--|
| System | | 2020 | | 2021 | % Change in Active Counts | |
| State | \$ | 75,069 | \$ | 73,686 | -1.80% | |
| Teachers | \$ | 150,681 | \$ | 149,793 | -0.60% | |
| SPORS | \$ | 1,924 | \$ | 1,947 | 1.20% | |
| VaLORS | \$ | 8,554 | \$ | 7,823 | -8.50% | |
| JRS | \$ | 449 | \$ | 453 | 0.90% | |
| Political Subdivisions | \$ | 110,854 | \$ | 108,613 | -2.00% | |



Executive Summary



HIC Political Subdivisions Experience

- > The average contribution rate for HIC Political Subdivisions increased from 0.64% to 0.72%
 - Demographic experience caused an increase of 0.03%
 - This is mostly due to payroll not increasing as much as expected (1.3% versus 3% assumed)
 - The election of 12 new schools offering the extra \$1 benefit also contributed to the increase
 - Additional Funding Contribution and "At-Risk" Surcharge experience caused an increase of 0.04%
 - There are 12 employers that required an additional funding contribution due to GASB cross-over calculation. This is up from 10 employers who required additional contribution last rate-setting.
 - All 12 with an additional funding contribution are school locations, and of those, 8 were not participating prior to HB 1513 being enacted.
 - There are 62 employers with an "at-risk" surcharge compared to 119 during the last rate-setting. The "at-risk" surcharge is applied to plans with low funded levels in an effort to bring the funded level to a more sustainable level.
 - The remaining increase was due to the changes in assumptions related to the experience study.





Results



Employer Contribution Rate Pension Plans



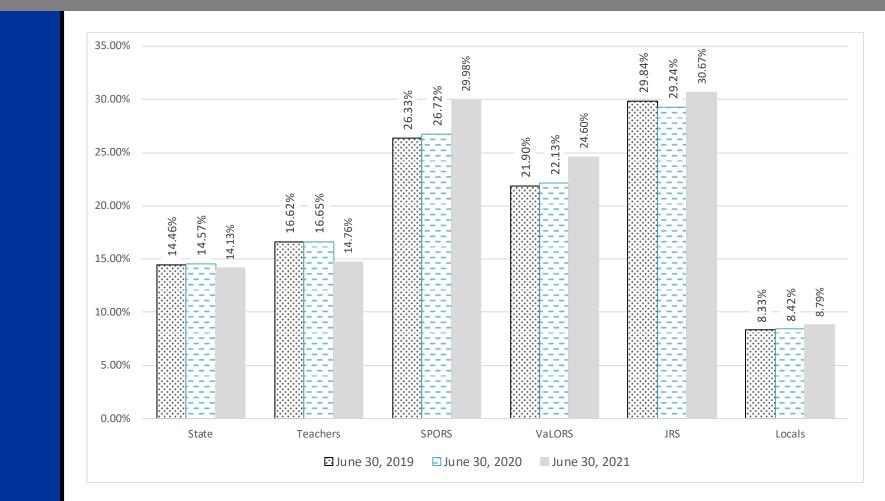
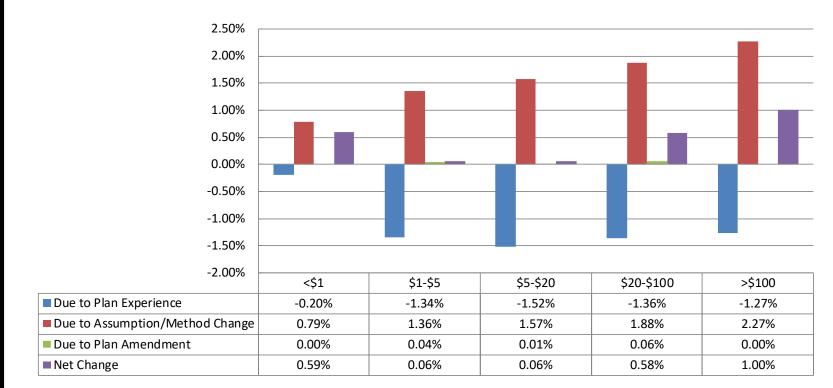


Chart of employer contribution results is also shown in appendix on slide 45.



Average Change in Employer Contribution Rates by Market Asset Size (2021 vs. 2020) (Dollars in Millions)





Average change in contribution due to plan experience is -1.24%.

Note: Distribution includes only the 595 employers that have a 2020 rate for comparison. The comparison includes the change in employer Hybrid defined contribution match.

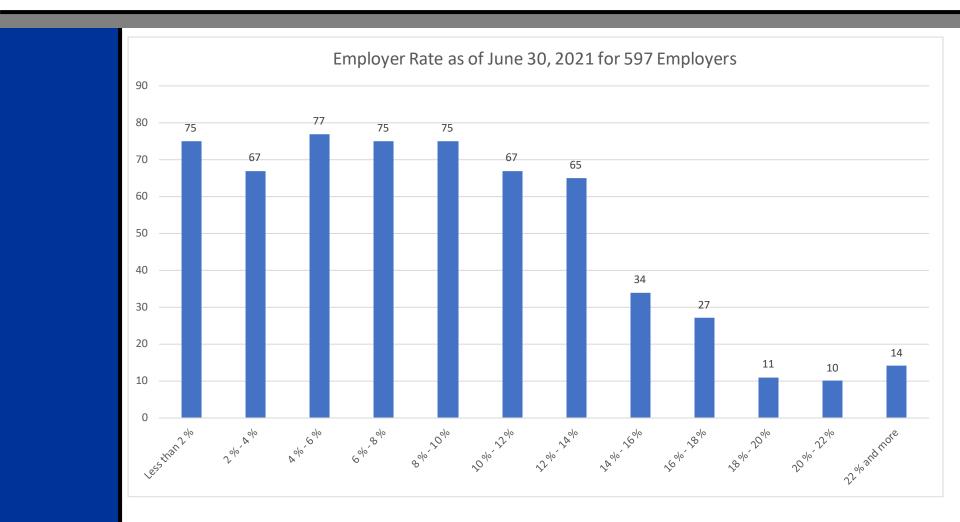
"Plan amendments" generally refer to addition of enhanced hazardous duty coverage.

"Assumption/Method Change" refers to the updated assumptions based on the results of an experience study completed for the fouryear period ending June 30, 2020.



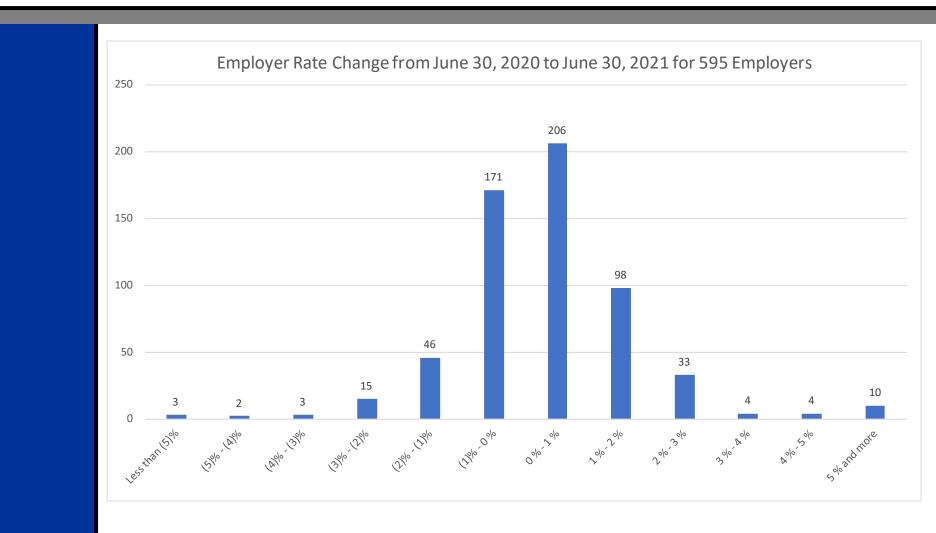
Employer Rate Political Subdivisions







Employer Rate Change Political Subdivisions





Employer Contribution Rate OPEB Plans



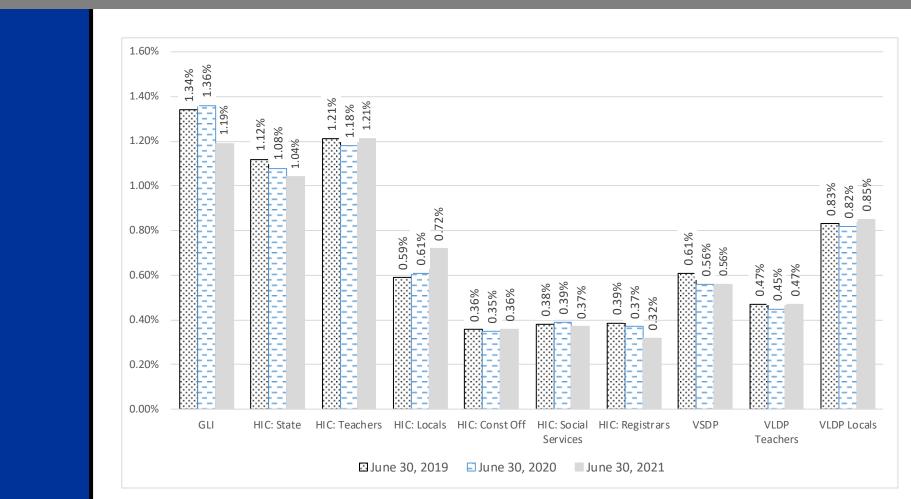
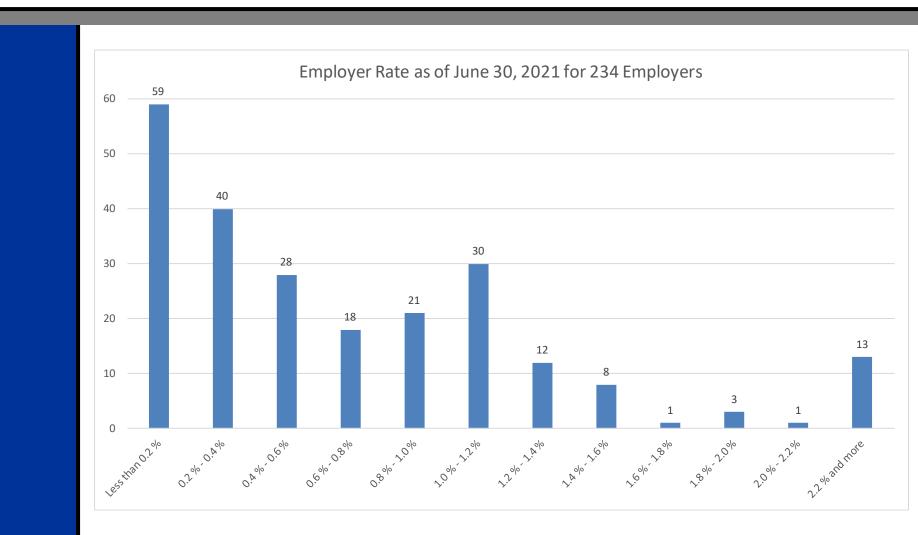


Chart of employer contribution results is also shown in appendix on slide 46.



Employer Rate OPEB HIC Political Subdivisions

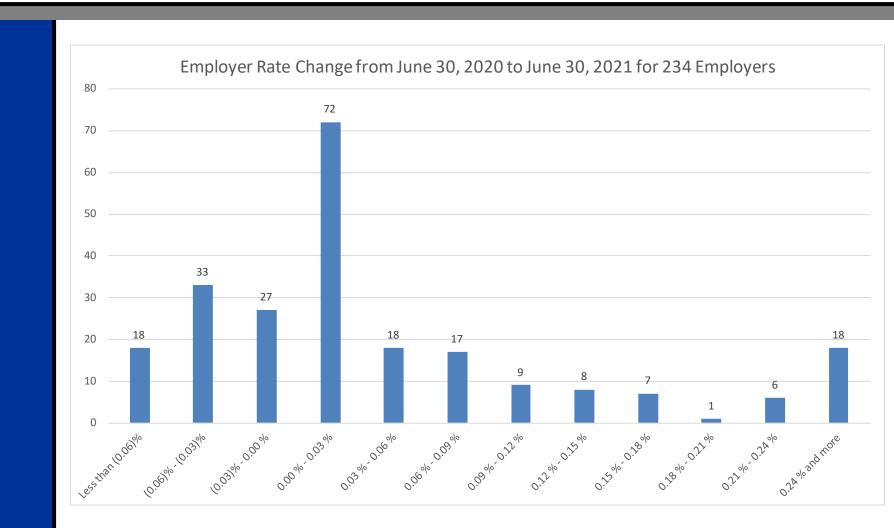






Employer Rate Change OPEB HIC Political Subdivisions

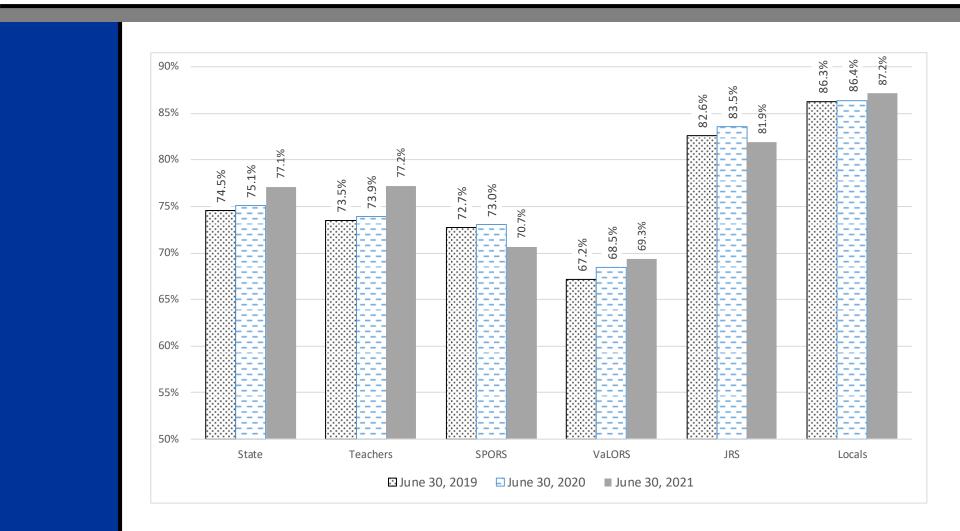






Funded Ratio on Actuarial Value Pension Plans

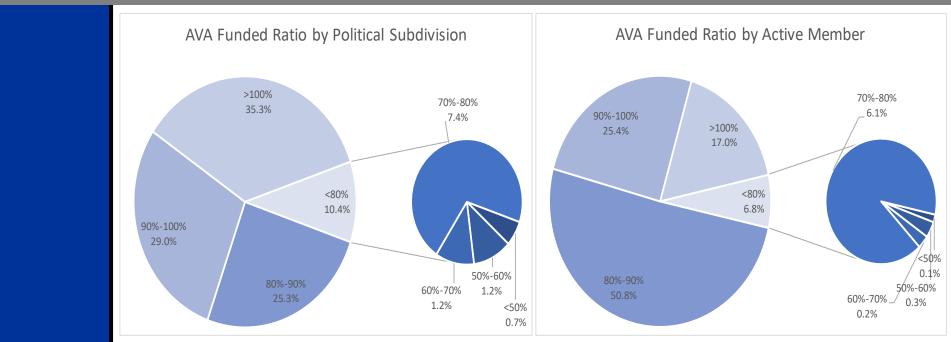






Funded Ratio Breakdowns Political Subdivisions



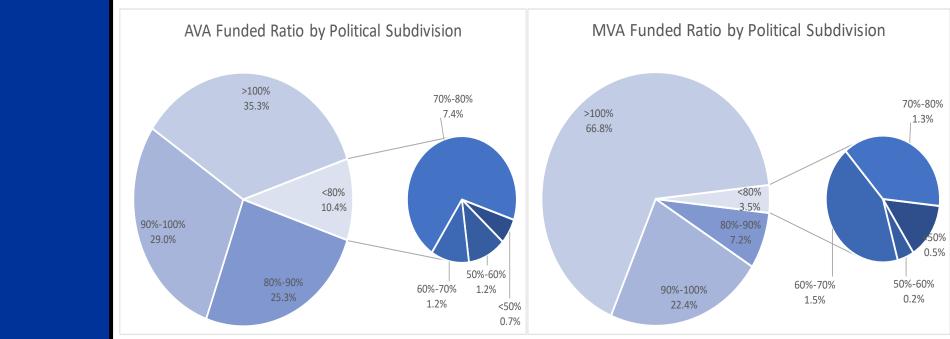


- While the overall funded ratio on actuarial value is 87.2%, the funded ratio varies significantly across the 597 political subdivisions and 108,613 active members as illustrated in the charts above
- Over a third 35.3% of political subdivisions are over 100% funded; these tend to be smaller and not have hazardous duty coverage
- Just over half 50.8% of active members are covered in political subdivisions that are funded in 80%-90% range.



Funded Ratio Breakdowns Political Subdivisions



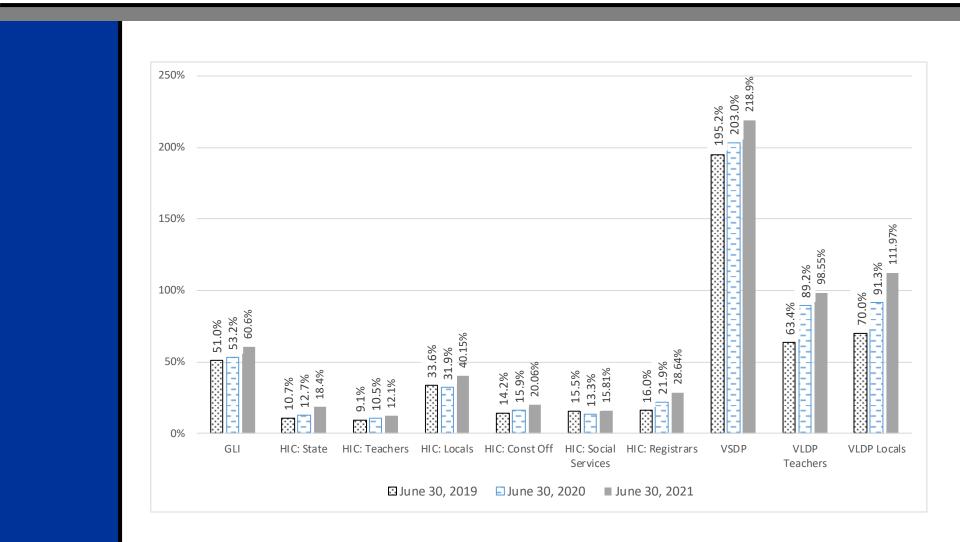


- On a market basis, funded status improves, with the number of political subdivisions with funded ratio over 100% almost doubling from 35.3% to 66.8%
- This increase indicates the *potential* for lower contributions rates at the next rate setting effective July 1, 2024



Funded Ratio on Actuarial Value OPEB Plans







Unfunded Actuarial Accrued Liability on Actuarial Value Basis Pension Plans



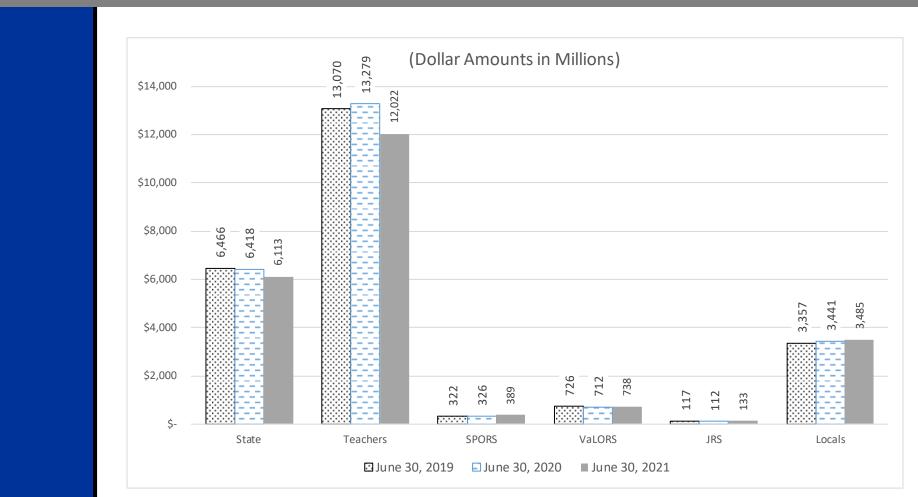


Chart of unfunded liabilities is also shown in appendix on slide 47.



Unfunded Actuarial Accrued Liability on Actuarial Value Basis OPEB Plans



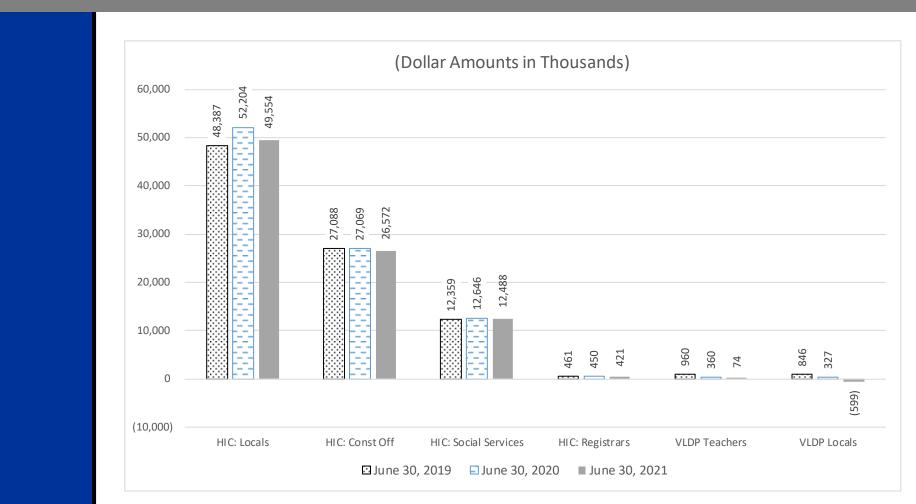


Chart of unfunded liabilities is also shown in appendix on slide 49.



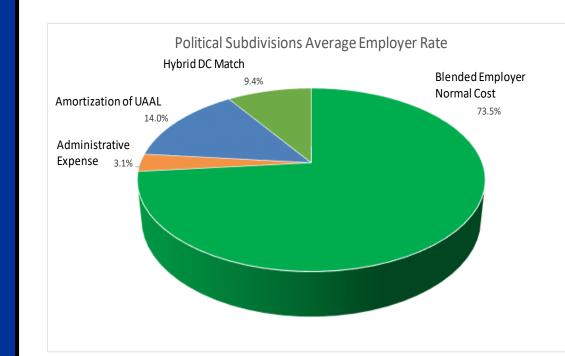


Source of Change in UAAL



Breakdown of Employer Costs





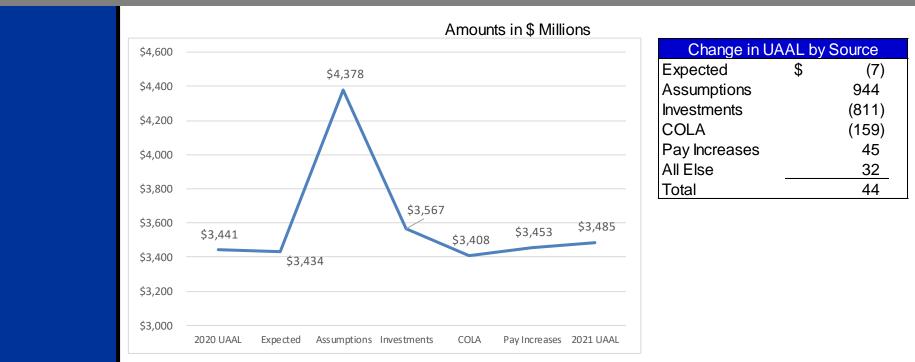
| Blended Employer Normal Cost Rate | 6.46% |
|------------------------------------|--------|
| Administrative Expense | 0.27% |
| Amortization of UAAL | 1.23% |
| Total Defined Benefit Rate | 7.97% |
| | 0.020/ |
| DC Contribution for Hybrid Members | 0.82% |
| Total Employer Pension Rate | 8.79% |

- Normal cost rate remains relatively stable and continues to trend downward in plans that have hybrid membership.
- While over 50% of the employer rate for most of the statewide plans is dedicated to paying down unfunded liabilities, only 14% is dedicated to paying down liabilities for the locals in aggregate.
- Understanding the impacts of gains and losses is crucial in managing the pay-off of unfunded liabilities for some Political Subdivisions.



Change in UAAL due to FYE June 30, 2021 Plan Experience Political Subdivisions

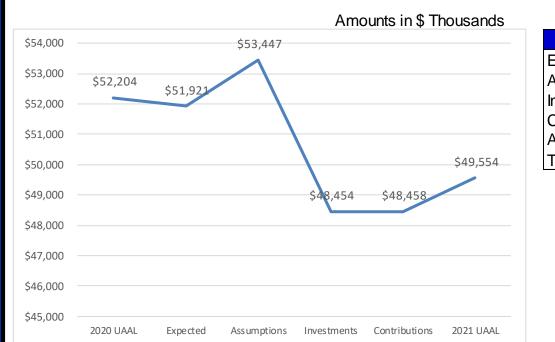




- > The increases in liability associated with assumption and method changes from the experience study were almost offset by the investment gain.
- > Change in assumptions had larger impact on plans with Hazardous Duty members.
- Similarly, higher-than-expected pay increases were partially offset by lower-than-expected COLAs.
- The Political Subdivisions also had more retirements than expected which caused a loss of \$70.9 million.



Change in UAAL due to FYE June 30, 2021 Plan Experience Health Insurance Credit - Political Subdivisions



| Change in UAAL by Source | | | | | | | | |
|--------------------------|----|---------|--|--|--|--|--|--|
| Expected | \$ | (283) | | | | | | |
| Assumptions | | 1,526 | | | | | | |
| Investments | | (4,993) | | | | | | |
| Contributions | | 4 | | | | | | |
| All Else | _ | 1,096 | | | | | | |
| Total | | (2,650) | | | | | | |

- The increases in liability associated with assumption and method changes from the experience study were more than offset by the investment gain.
- All other changes, including the demographic changes, resulted in increasing the liabilities by approximately \$1,096 thousand.



Change in UAAL due to FYE June 30, 2021 Plan Experience Health Insurance Credit - Constitutional Officers

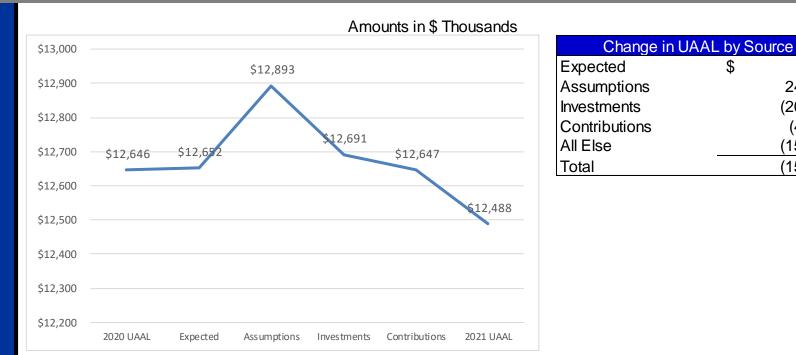


| Change in UAAL by Source | | | | | | | | |
|--------------------------|----|-------|--|--|--|--|--|--|
| Expected | \$ | (15) | | | | | | |
| Assumptions | | 526 | | | | | | |
| Investments | | (586) | | | | | | |
| Contributions | | (122) | | | | | | |
| All Else | | (300) | | | | | | |
| Total | | (497) | | | | | | |

- The increases in liability associated with assumption and method changes from the experience study were more than offset by the investment gain and employer contributions.
- All other changes, including the demographic changes, resulted in lowering the liabilities by approximately \$300 thousand.



Change in UAAL due to FYE June 30, 2021 Plan Experience Health Insurance Credit - Social Services Employees



- \geq The increases in liability associated with assumption and method changes from the experience study were more than offset by the investment gain and employer contributions.
- All other changes, including the demographic changes, resulted in lowering the \geq liabilities by approximately \$159 thousand.

June 30, 2021 VRS Political Subdivision Valuation Results

\$

6

241

(202)

(44)

(159)

(158)



Change in UAAL due to FYE June 30, 2021 Plan Experience Health Insurance Credit - Registrars



1

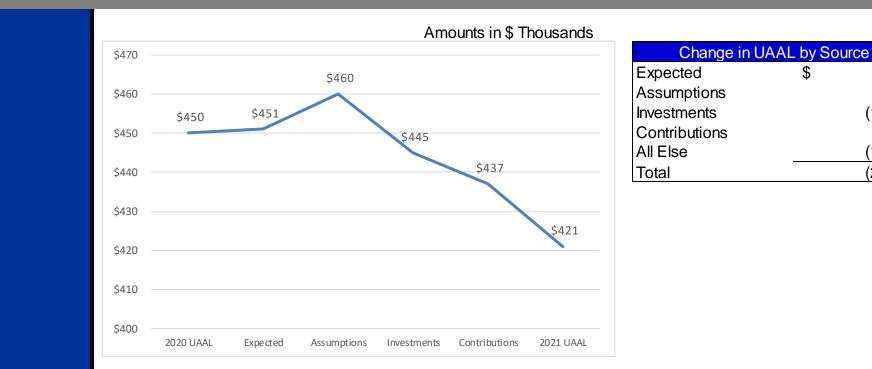
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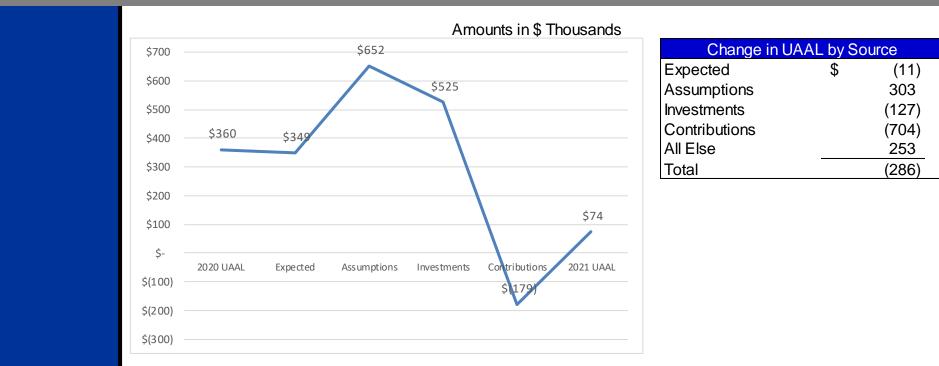


- The increases in liability associated with assumption and method changes from the experience study were more than offset by the investment gain and employer contributions.
- All other changes, including the demographic changes, resulted in lowering the liabilities by approximately \$16 thousand.



Change in UAAL due to FYE June 30, 2021 Plan Experience VLDP - Teachers



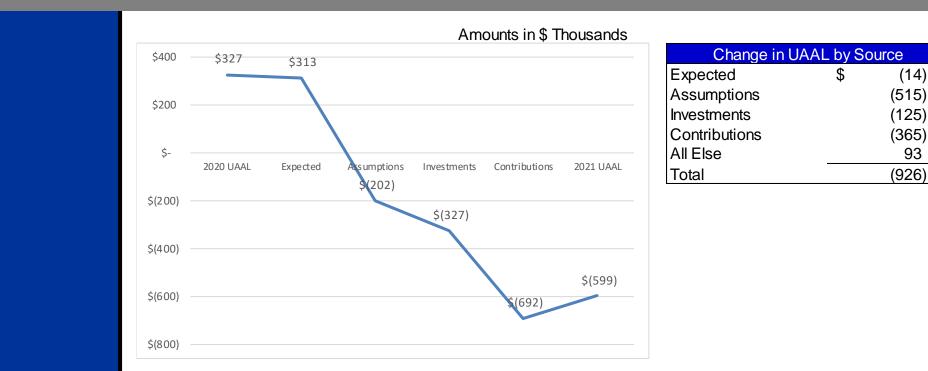


- The increases in liability associated with assumption and method changes from the experience study were more than offset by the investment gain and employer contributions.
- All other changes, including the demographic changes, resulted in increasing the liabilities by approximately \$253 thousand.



Change in UAAL due to FYE June 30, 2021 Plan Experience VLDP - Political Subdivisions



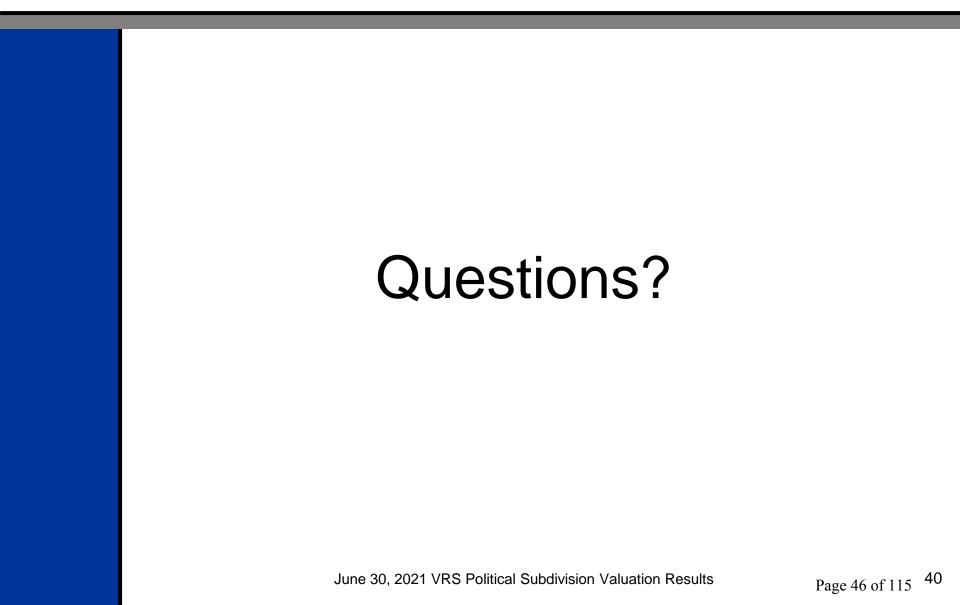


- The decreases in liability associated with assumption and method changes from the experience study together with the investment gain and employer contributions lowered liabilities such that there is now a negative unfunded.
- Method change to mid-year decrements lowered costs due to the limited term nature of the benefit.
- All other changes, including the demographic changes, resulted in increasing the liabilities by approximately \$93 thousand.













Appendix





Detailed Results



Changes In Coverage Since Last Valuation (Pension)



| | | Change in Employer |
|---|---|-------------------------|
| Employer | Employee Group | Contribution Rate |
| Charles City County (55118) | Fire and EMT | 1.94% |
| Clarke County (55121) | Fire and EMT | 2.38% |
| Town of Kenbridge (55385) | Law Enforcement Officers | 6.36% |
| Coverage Expanded to EMTs, Firefighters and Pol | ice Officers at 1.85% Hazardous Duty Benefits | |
| | | Change in Employer |
| Employer | Employee Group | Contribution Rate |
| Buckingham County (55114) | EMT | 0.78% |
| Carroll County (55117) | Fire and EMT | 2.30% |
| Gloucester County (55136) | Law Enforcement Officers | 0.75% |
| Isle of Wight County (55146) | Law Enforcement Officers, Fire and EMT | 0.54% |
| King George County (55148) | Law Enforcement Officers, Fire and EMT | 0.93% |
| Page County (55169) | Fire and EMT | 1.82% |
| Town of Christiansburg (55327) | Law Enforcement Officers, Fire and EMT | 1.04% |
| New Political Subdivisions in VRS | | |
| | | New Employer Contributi |
| Employer | | Rate |
| Orange County Broadband Authority (55854) | | 5.54% |
| Blue Ridge Resource Authority (55856) | | 6.63% |

Note: Pittsylvania County Service Authority (55402) no longer has active employees as of June 30, 2021.



Changes In Coverage Since Last Valuation (HIC)



| Schools electing to offer extra \$1 per month of s | ervice |
|--|---------------------------|
| Fiscal Year 2 | 2021 |
| Employer | Employer Contribution Rat |
| Fluvanna County Public Schools (55532) | 0.90% |
| Grayson County School Board (55538) | 2.72% |
| Nelson County Public Schools (55562) | 1.98% |
| Richmond County School Board (55579) | 0.82% |
| Stafford County School Board (55589) | 0.48% |
| Westmoreland Co School Bd (55596) | 2.12% |
| Wise County School Board (55597) | 1.07% |
| Fauquier County School Board (55611) | 0.90% |
| Manassas City Schools (55632) | 0.49% |
| City Of Salem Schools (55635) | 1.11% |
| Newport News Public Schools (55637) | 0.24% |
| Williamsburg-James City Co Sch (55802) | 0.46% |



Pension Contribution Rates



| Fiscal Years Ending June 30 | 2019/2020 | 2021/2022 | 2023/2024 June 30, 2021 | |
|--|--------------------------------------|--------------------------------------|----------------------------|--|
| Actuarial Valuation Date | June 30, 2017 | June 30, 2019 | | |
| Pension Plan | Board & General Assembly Approved | Board & General Assembly Approved | Submitted for Approval | |
| State | 13.52% | 14.46% | 14.13% | |
| Teachers | 15.68% | 16.62% | 14.76% | |
| SPORS | 24.88% | 26.33% | 29.98% | |
| VaLORS | 21.61% | 21.90% | 24.60% | |
| JRS | 34.39% | 29.84% | 30.67% | |
| Political Subdivisions (Average rates) | 7.60% | 8.33% | 8.79% | |

Contribution rates for retirement systems are net of 5% and 4% member contribution rates for Plan 1 and 2 and Hybrid Plan respectively.

Employer rate for Hybrid defined contribution component assumes employer match to DC portion of the Hybrid Plan based on DC rates for each individual employer observed during prior fiscal year.



OPEB Contribution Rates



| Fiscal Years Ending June 30, | 2019/2020 | 2021/2022 | 2023/2024 | |
|--|---|---|---------------------------|--|
| Actuarial Valuation date | June 30, 2017 | June 30, 2019 | June 30, 2021 | |
| OPEB Plan | Board & General Assembly Approved | Board & General Assembly Approved | Submitted for Approval | |
| Group Life Insurance* | 1.31% | 1.34% | 1.19% | |
| Health Insurance Credit (HIC) Program | | | | |
| State Employees | 1.17% | 1.12% | 1.04% | |
| Teachers | 1.20% | 1.21% | 1.21% | |
| Participating Political Subdivisions** | 0.32% | 0.59% | 0.72% | |
| Constitutional Officers | 0.38% | 0.36% | 0.36% | |
| Social Service Employees | 0.43% | 0.38% | 0.37% | |
| Registrars | 0.39% | 0.39% | 0.32% | |
| Virginia Sickness and Disability Program (VSDP) | 0.62% | 0.61% | 0.56% | |
| Virginia Local Disability Program (VLDP) | | | | |
| Teachers | 0.41% | 0.47% | 0.47% | |
| Political Subdivisions | 0.72% | 0.83% | 0.85% | |

* The contribution rate for GLI includes an adjustment of .34% for active group life insurance for the 2017 and 2019 valuation dates and an adjustment of .35% for the 2021 valuation date.

** Average of individual rates. The contribution rate includes the impact of HB 1513 (2020).



Unfunded Pension Liabilities



| | Unfunded Liability Using Actuarial Value of Assets (\$'s Thousands) | | | | | | | |
|-------------------------|--|------------|----|------------|----|----------------------------------|--|----------------------------------|
| | | 2020 | | 20 | 21 | | | |
| System | | | | | | efore Assumption/Plan Changes | | After Assumption/Plan Changes |
| State | \$ | 6,417,661 | \$ | 5,710,835 | \$ | 6,112,670 | | |
| Teachers | \$ | 13,278,662 | \$ | 11,145,625 | \$ | 12,021,814 | | |
| SPORS | \$ | 325,590 | \$ | 330,233 | \$ | 389,314 | | |
| VaLORS | \$ | 712,025 | \$ | 670,421 | \$ | 738,351 | | |
| Judicial | \$ | 111,633 | \$ | 81,299 | \$ | 132,738 | | |
| Total Statewide Systems | \$ | 20,845,571 | \$ | 17,938,413 | \$ | 19,394,887 | | |
| | | | | | | | | |
| Locals Aggregate | \$ | 3,441,151 | \$ | 2,536,717 | \$ | 3,485,332 | | |
| Total Fund | \$ | 24,286,722 | \$ | 20,475,130 | \$ | 22,880,219 | | |

| | Unfunded Liability using Market Value of Assets (\$'s Thousands) | | | | | | |
|-------------------------|---|------------|-----|--------------------------------|----|----------------------------------|--|
| | | 2020 | | 20 | 21 | | |
| System | | | Bef | ore Assumption/Plan Changes | - | After Assumption/Plan Changes | |
| State | \$ | 6,981,267 | \$ | 3,213,719 | \$ | 3,615,554 | |
| Teachers | \$ | 14,385,554 | \$ | 6,253,529 | \$ | 7,129,718 | |
| SPORS | \$ | 351,662 | \$ | 217,417 | \$ | 276,498 | |
| VaLORS | \$ | 758,084 | \$ | 470,299 | \$ | 538,229 | |
| Judicial | \$ | 128,417 | \$ | 8,817 | \$ | 60,256 | |
| Total Statewide Systems | \$ | 22,604,984 | \$ | 10,163,781 | \$ | 11,620,255 | |
| | | | | | | | |
| Locals Aggregate | \$ | 4,076,749 | \$ | (333,429) | \$ | 615,186 | |
| Total Fund | \$ | 26,681,733 | \$ | 9,830,352 | \$ | 12,235,441 | |

The Political Subdivisions Aggregate unfunded liabilities do not include Political Subdivisions with no active members.



Unfunded Liability Amortization Political Subdivisions in Aggregate



Breakdown of UAAL based on actuarial value of assets

| | Aggregate Unfunded Accrued Liability (UAL) (\$'s Thousands) | | | | | |
|---------------------------|--|--|---|--|--|--|
| | Original Amount | Outstanding Balance as of June 30, 2021 | Remaining Amortization Period as of June 30, 2021 | | | |
| Legacy Unfunded 6/30/2013 | \$4,490,061 | \$4,729,247 | 22 years | | | |
| 2014 (Gain) Loss Base | (\$849,477) | (\$763,130) | 13 years | | | |
| 2015 (Gain) Loss Base | (\$624,072) | (\$576,042) | 14 years | | | |
| 2016 (Gain) Loss Base | (\$247,959) | (\$234,026) | 15 years | | | |
| 2017 (Gain) Loss Base | (\$393,166) | (\$374,842) | 16 years | | | |
| 2018 (Gain) Loss Base | (\$223,765) | (\$217,886) | 17 years | | | |
| 2019 (Gain) Loss Base | \$895,629 | \$882,434 | 18 years | | | |
| 2020 (Gain) Loss Base | \$38,398 | \$38,404 | 19 years | | | |
| 2021 (Gain) Loss Base | \$1,173 | \$1,173 | 20 years | | | |
| Total | | \$3,485,332 | | | | |



Unfunded OPEB Liabilities



| | Unfunded Liability using Actuarial Value of Assets (\$'s Thousands) | | | | | |
|-----------------------------|--|-----------|------|-------------------------------|----|----------------------------------|
| | | 2020 | 2021 | | | |
| System | | | Befo | re Assumption/Plan Changes | _ | After Assumption/Plan Changes |
| Group Life | \$ | 1,677,898 | \$ | 1,582,751 | \$ | 1,389,277 |
| HIC State | \$ | 894,542 | \$ | 841,466 | \$ | 852,830 |
| HIC Teachers | \$ | 1,280,589 | \$ | 1,280,412 | \$ | 1,293,999 |
| VSDP | \$ | (256,367) | \$ | (292,733) | \$ | (297,276) |
| HIC Locals | \$ | 52,204 | \$ | 48,028 | \$ | 49,554 |
| HIC Constitutional Officers | \$ | 27,069 | \$ | 26,046 | \$ | 26,572 |
| HIC Social Services | \$ | 12,646 | \$ | 12,247 | \$ | 12,488 |
| HIC Registrars | \$ | 450 | \$ | 412 | \$ | 421 |
| VLDP Teachers | \$ | 360 | \$ | (229) | \$ | 74 |
| VLDP Locals | \$ | 327 | \$ | (84) | \$ | (599) |

| | Unfunded Liability using Market Value of Assets (\$'s Thousands) | | | | | | |
|------------------------------------|---|-----------|------|-----------------------|----|-----------------------|--|
| | | 2020 | 2021 | | | | |
| | | | В | efore Assumption/Plan | | After Assumption/Plan | |
| System | | | | Changes | | Changes | |
| Group Life | \$ | 1,728,029 | \$ | 1,304,864 | \$ | 1,111,390 | |
| HIC State | \$ | 899,066 | \$ | 825,440 | \$ | 836,804 | |
| HIC Teachers | \$ | 1,286,380 | \$ | 1,263,508 | \$ | 1,277,095 | |
| VSDP | \$ | (241,350) | \$ | (357,273) | \$ | (361,816) | |
| | | | | | | | |
| HIC Locals | \$ | 52,204 | \$ | 48,028 | \$ | 49,554 | |
| HIC Constitutional Officers | \$ | 27,069 | \$ | 26,046 | \$ | 26,572 | |
| HIC Social Services | \$ | 12,646 | \$ | 12,247 | \$ | 12,488 | |
| HIC Registrars | \$ | 450 | \$ | 412 | \$ | 421 | |
| VLDP Teachers | \$ | 447 | \$ | (789) | \$ | (486) | |
| VLDP Locals | \$ | 433 | \$ | (648) | \$ | (1,163) | |



Funded Ratio



| | Funded Ratio based on: | | | | | | |
|--|------------------------|--------------|------------------------|--------|--|--|--|
| | Actuarial Va | ue of Assets | Market Value of Assets | | | | |
| System | 2020 | 2020 2021 | | 2021 | | | |
| Pension: | | | | | | | |
| Political Subdivisions | | | | | | | |
| Political Subdivisions with no Enhanced Hazardous Duty | 93.9% | 95.6% | 91.2% | 107.2% | | | |
| Political Subdivisions with Enhanced Hazardous Duty | 84.6% | 85.1% | 82.1% | 95.5% | | | |
| All Political Subdivisions | 86.4% | 87.2% | 83.9% | 97.7% | | | |
| All Political Subdivisions < 100% funded | 84.5% | 85.0% | 82.2% | 92.6% | | | |
| OPEB: | | | | | | | |
| Health Insurance Credit (HIC) Program | | | | | | | |
| Political Subdivisions | 31.9% | 40.1% | 31.9% | 40.1% | | | |
| Constitutional Officers | 15.9% | 20.1% | 15.9% | 20.1% | | | |
| Social Services Employees | 13.3% | 15.8% | 13.3% | 15.8% | | | |
| Registrars | 21.9% | 28.6% | 21.9% | 28.6% | | | |
| Virginia Local Disability Program (VLDP) | | | | | | | |
| Teachers | 89.2% | 98.5% | 86.6% | 109.5% | | | |
| Political Subdivisions | 91.3% | 112.0% | 88.5% | 123.2% | | | |

Note: Aggregate funded ratio is sum of all assets divided by sum of all liabilities. All pension plans are those with active members.

- The funding policy is designed to increase the funded ratio if assumptions are met. Generally larger improvements are expected for plans which are not as well funded.
- Funded status on an actuarial basis generally improved due to higher-than-expected returns phased in over 5 years.
- Market value returns are immediately reflected resulting in a higher funded ratio.



2019-2021 Aggregate Pension Gain/Loss Analysis



(Dollars in Millions)



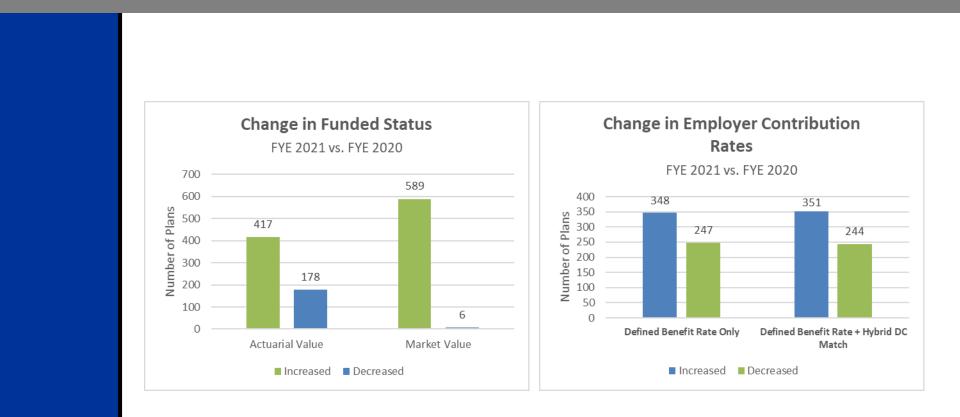
Losses are events which increase the UAAL more than expected. Gains are events which decrease the UAAL more than expected.

* e.g., data remediation, service purchase, demographic changes, etc.



Summary of Political Subdivision Changes



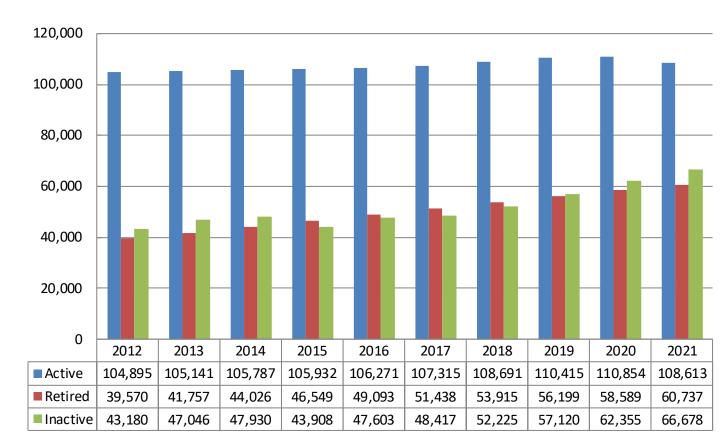


Note: 595 localities were enrolled in both 2021 and 2020.



Total Membership Political Subdivisions in Aggregate





0.4% average increase in active members since 2012; -2.0% increase for 2021.

4.9% average increase in retired members since 2012; 3.7% increase for 2021.

2.7 actives per retiree 9 years ago; 1.8 actives per retiree now. As plans mature, retiree population becomes larger portion of overall population. "Retired" includes retirees, disabled retirees and beneficiaries.

"Inactive" includes deferred vested and non-vested members with employee contributions in plan.



Average Age, Service, Pay and Benefits Political Subdivisions in Aggregate

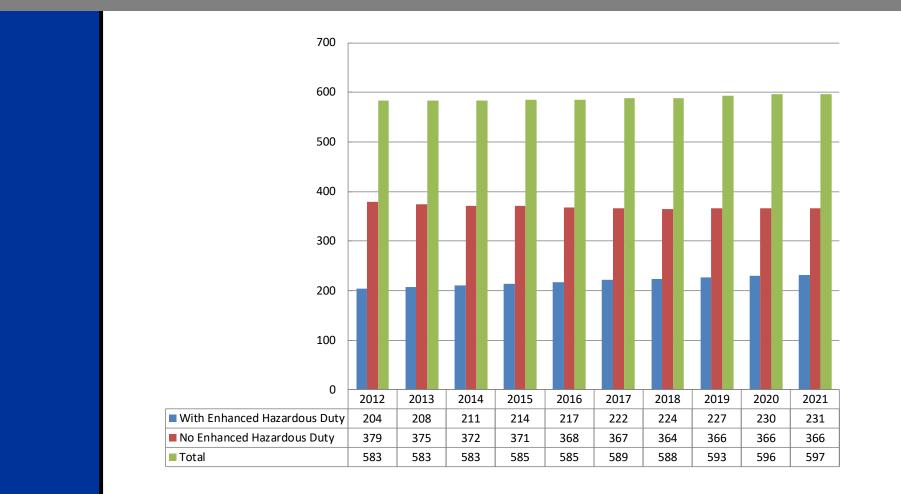


| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Actives: | | | | | | | | | | |
| Average Age | 46.2 | 46.3 | 46.3 | 46.3 | 46.2 | 46.1 | 46.1 | 45.9 | 45.9 | 46.0 |
| Average Vesting Service | 11.0 | 11.1 | 11.2 | 11.1 | 11.0 | 11.0 | 10.8 | 10.6 | 10.5 | 10.7 |
| Average Entry Age | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 | 36.3 | 36.4 | 36.5 | 36.5 | 36.5 |
| Average pay | \$39,683 | \$41,287 | \$42,101 | \$42,859 | \$43,819 | \$44,806 | \$45,758 | \$47,625 | \$48,799 | \$50,590 |
| Retirees in the past year: | | | | | | | | | | |
| Average Age at Retirement | 62.1 | 62.1 | 62.4 | 62.3 | 63.2 | 62.4 | 62.3 | 62.5 | 62.9 | 62.9 |
| Average Service at Retirement | 19.9 | 19.9 | 19.6 | 20.3 | 20.9 | 20.4 | 20.6 | 22.3 | 21.4 | 21.7 |
| Average AFC at Retirement | \$44,728 | \$44,240 | \$45,642 | \$45,865 | \$48,574 | \$48,371 | \$50,593 | \$51,460 | \$52,813 | \$52,245 |
| Average VRS Benefit at | | | | | | | | | | |
| Retirement (as a Percent of | 33.8% | 34.7% | 33.5% | 33.5% | 34.7% | 34.7% | 35.1% | 35.3% | 34.3% | 34.8% |
| Pay) | | | | | | | | | | |
| Average VRS Benefit at | \$15,135 | \$15,367 | \$15,290 | \$15,365 | \$16,855 | \$16,785 | \$17,758 | \$18,165 | \$18,115 | \$18,181 |
| Retirement | | | | | | | | | | |
| Average Social Security | | | | | | | | | | |
| Benefit at Age 62 or Average | \$14,736 | \$14,640 | \$14,988 | \$15,480 | \$16,524 | \$16,248 | \$16,668 | \$16,944 | \$17,484 | \$17,220 |
| Retirement Age if Later | | | { | | | | | | | |



Number of Political Subdivisions Covered in VRS



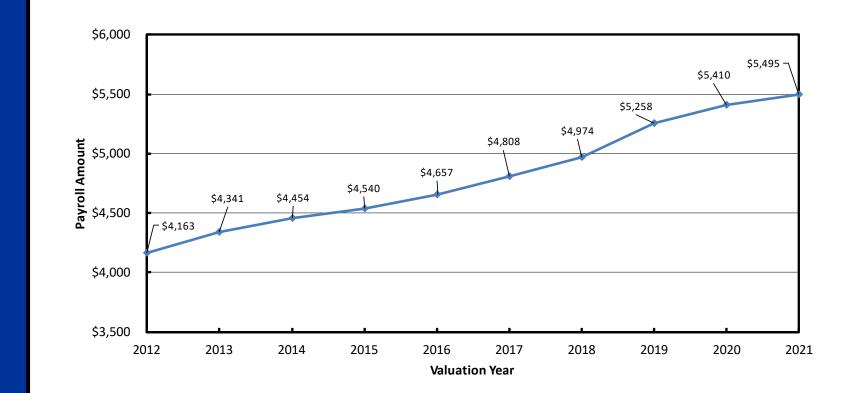


Note: Includes only political subdivisions with active members



Active Member Payroll Political Subdivisions in Aggregate (Dollars in Millions)



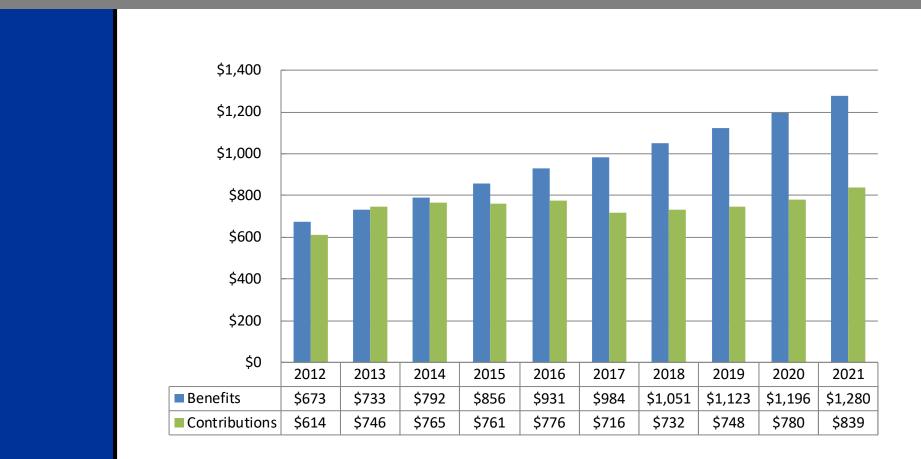


3.1% average increase in payroll since 2012; 1.6% increase for 2021.



Benefits and Contributions Political Subdivisions in Aggregate (Dollars in Millions)



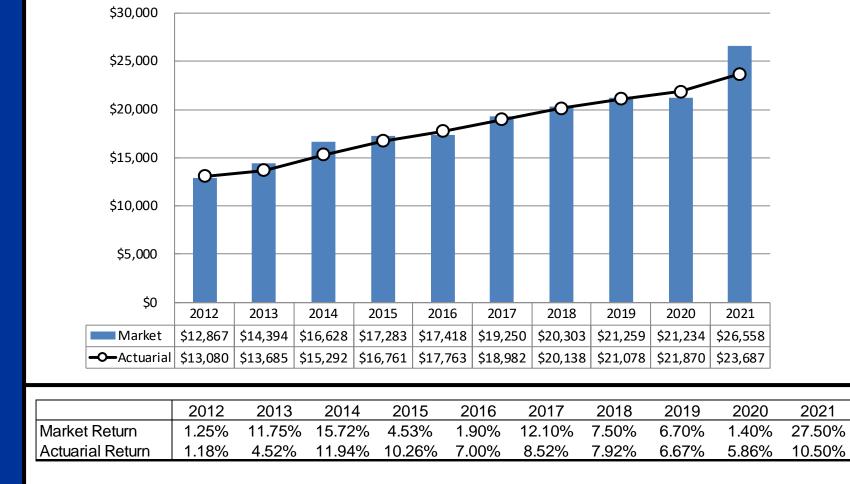


7.4% average increase in benefits since 2012; 7.0% increase for 2021.3.5% average increase in contributions since 2012; 7.5% increase for 2021.



Assets Political Subdivisions in Aggregate (Dollars in Millions)

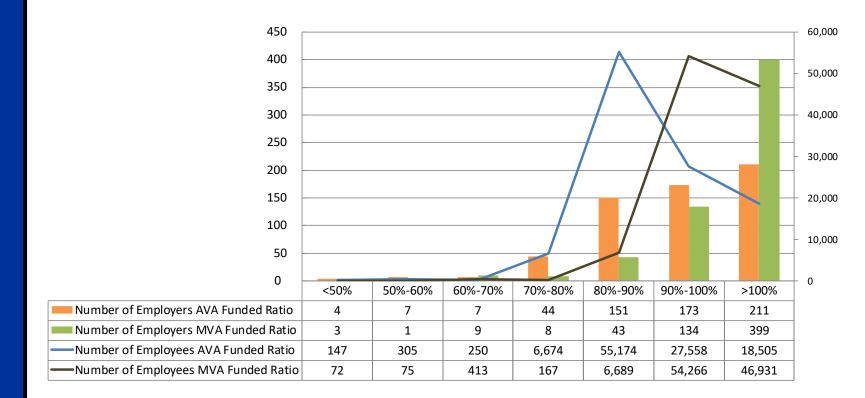




For fiscal year 2022, a return of approximately -9.87% is needed to achieve a 6.75% actuarial rate of return.

Funded Ratio Ranges By Employers





Close to 90% of the political subdivision plans have a market value funded status greater than 90%, with over 35% of plans over 100% funded.

AVA = Actuarial Value of Assets; MVA = Market Value of Assets.

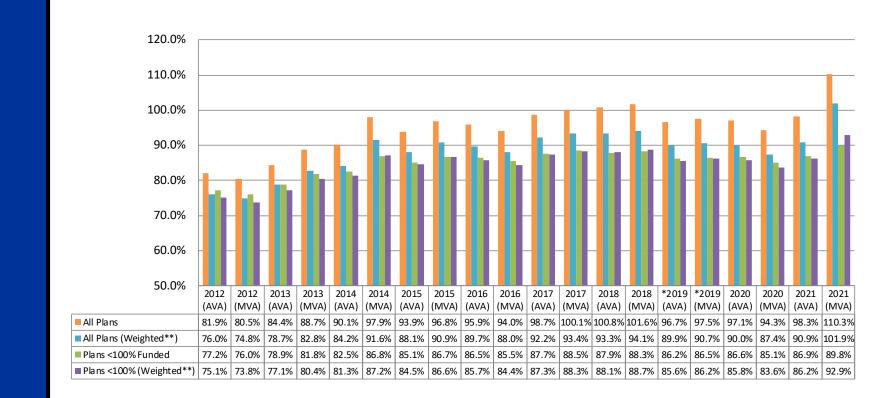
Virginia

Retirement System



Average Funded Ratio





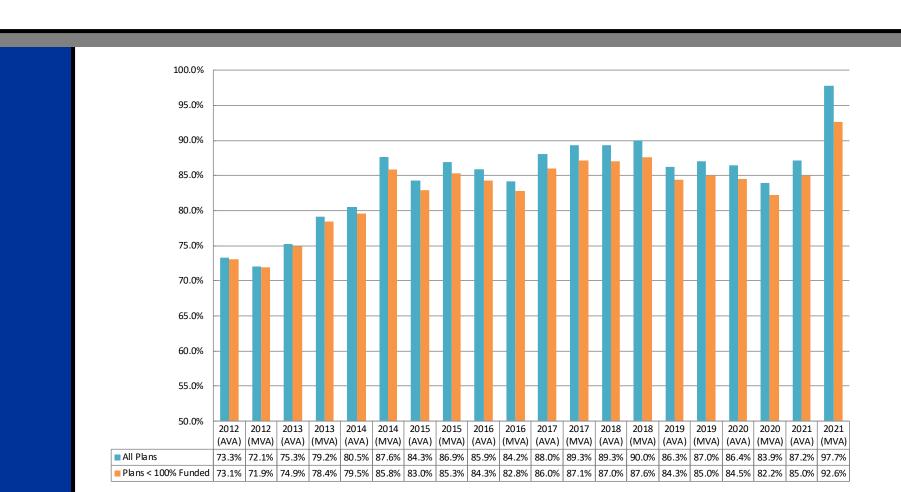
Note: Funding ratio for each location is determined first. Then the average for all locations is calculated. AVA = Actuarial Value of Assets; MVA = Market Value of Assets.

*Excludes one new employer.

**Weighted averages are based on active headcounts. Plans with larger headcounts have a greater effect on the average. If you take a plan that is 100% funded and another that is 50% funded, the average funded ratio is 75%. If the 100% plan has 2000 members and the 50% plan has 4 members, the average funded ratio is 75% (not weighted) and 99.9% (weighted).



Aggregate Funded Ratio



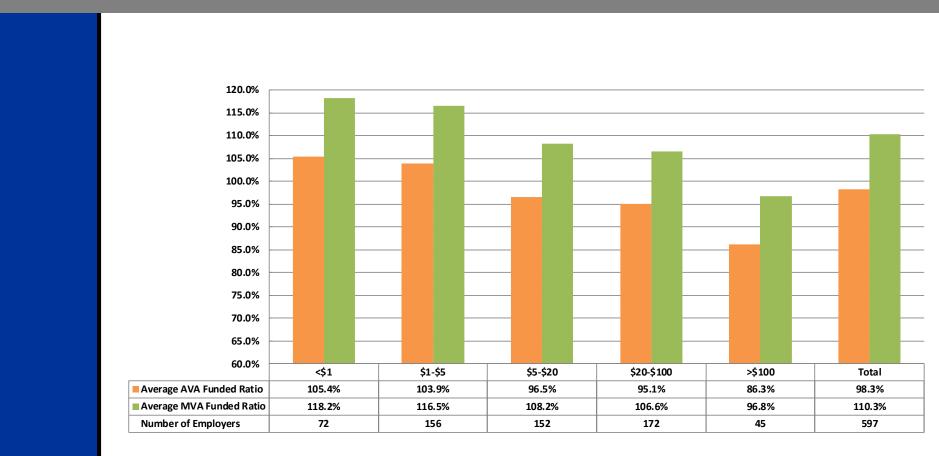
Aggregate funded ratio is the sum of assets for all locations divided by sum of liabilities for all locations. Includes only locations with active members.

AVA = Actuarial Value of Assets; MVA = Market Value of Assets.



Average Funded Ratio by Market Asset Size (Dollars in Millions)



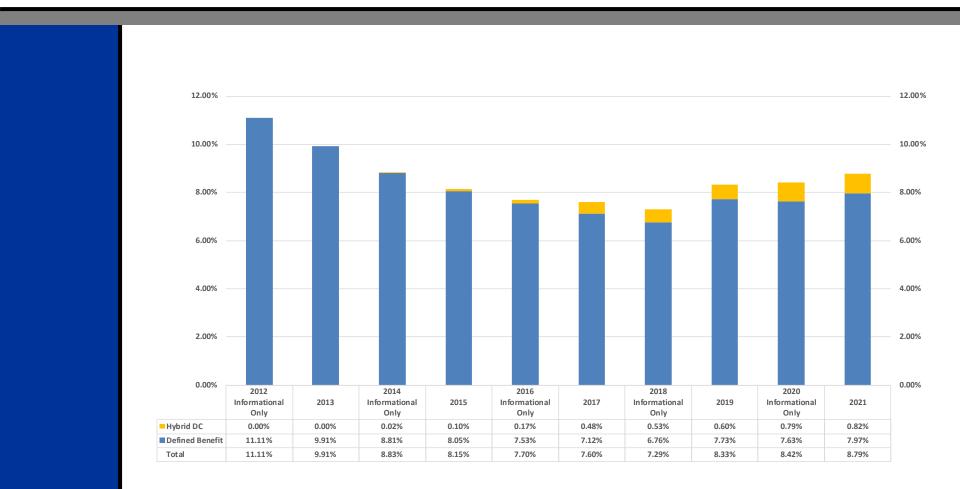


AVA = Actuarial Value of Assets; MVA = Market Value of Assets.



Average Employer Contribution Rates Including Defined Contribution Component of the Hybrid Plan



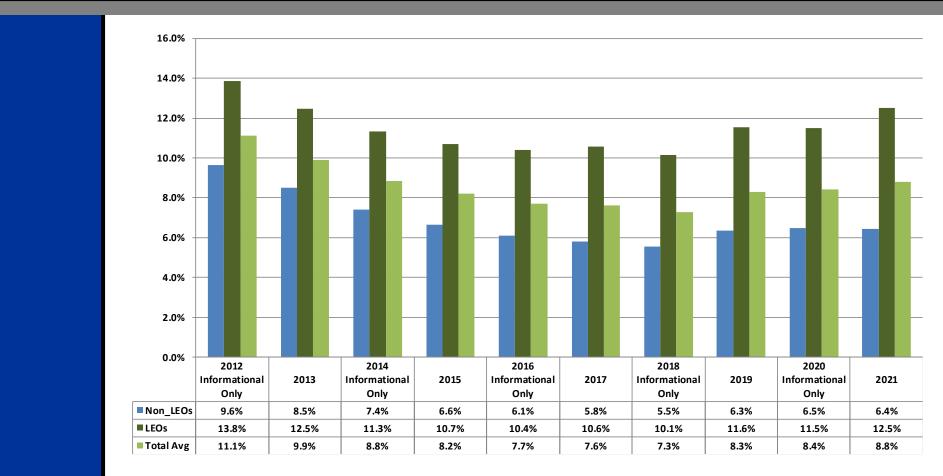


Rates net of member contribution rate. Annual discount rates –7.00% from 2012 – 2018; 6.75% from 2019 – 2021



Average Employer Contribution Rates Plans With and Without Enhanced Hazardous Duty





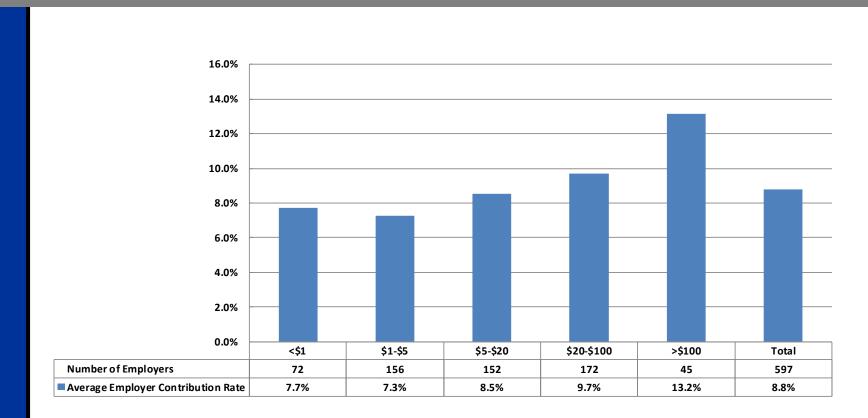
Rates net of member contribution rate.

Rates beginning 2014 include employer contribution rate for Hybrid defined contribution component.



Average Employer Contribution Rates by Market Asset Size (Dollars in Millions)





Rates net of member contribution rate.

Includes employer rate for Hybrid defined contribution component.



Results for Top 10 Political Subdivisions



| | Market Value of Assets (\$ Millions) | Funded Ratio Based On | | Fiscal Years 2021/2022 | Informational Only | Fiscal Years 2023/2024 | | | |
|------------------------|--|-----------------------|---------------|---|---|--|---|---|--|
| | | Actuarial Assets | Market Assets | Total Employer Rate for Retirement Plans | Total Employer Rate for Retirement Plans | Employer Rate for Defined Benefit Plan | Employer Rate for Hybrid DC Component | Total Employer Rate for Retirement Plans | |
| Political Subdivision | | 2021 Valuation | | 2019 Valuation | 2020 Valuation | | 2021 Valuation | | |
| Chesterfield County | \$1,196 | 81.4% | 91.2% | 15.03% | 15.06% | 16.47% | 0.65% | 17.12% | |
| Henrico County | \$1,589 | 82.4% | 92.4% | 14.50% | 14.76% | 15.93% | 0.60% | 16.53% | |
| Loudoun County | \$1,004 | 82.9% | 92.9% | 11.65% | 12.45% | 12.88% | 0.84% | 13.72% | |
| Prince William County | \$1,524 | 84.5% | 94.7% | 14.68% | 14.51% | 15.04% | 0.70% | 15.74% | |
| City of Alexandria | \$677 | 84.6% | 94.9% | 8.93% | 10.29% | 9.92% | 1.08% | 11.00% | |
| City of Hampton | \$597 | 78.1% | 87.6% | 19.09% | 18.92% | 20.24% | 0.56% | 20.80% | |
| City of Lynchburg | \$343 | 74.5% | 83.5% | 19.66% | 19.27% | 20.32% | 0.64% | 20.96% | |
| City of Portsmouth | \$423 | 92.6% | 103.8% | 13.06% | 12.57% | 12.99% | 0.53% | 13.52% | |
| City of Chesapeake | \$1,064 | 83.7% | 93.9% | 15.64% | 15.71% | 16.53% | 0.64% | 17.17% | |
| City of Virginia Beach | \$2,123 | 80.6% | 90.4% | 16.29% | 16.57% | 17.57% | 0.68% | 18.25% | |

Contribution rates are net of 5% and 4% member contribution rates for Plan 1 and 2 and Hybrid Plan, respectively.

Employer rate for Hybrid defined contribution component assumes employer match to DC portion of the Hybrid Plan based on DC rates for each individual employer observed during prior fiscal year.

Rates increased for the top 10 political subdivisions due to changes in assumptions having larger impacts on plans with enhanced hazardous duty coverage.



Active Members Demographics by Plan (Payroll in Millions)

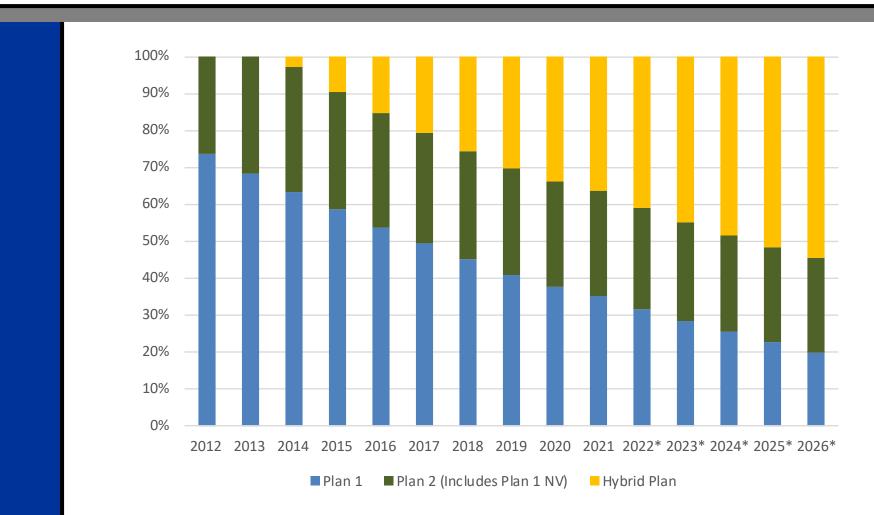


| | June 30 | , <mark>2021</mark> Valua | tion Result | s - Locals in | Aggregate | |
|--|---------------------------|----------------------------------|-------------|---------------|---------------------------------|---------------|
| | Pre Pension Reform | | Pos | t Pension Re | form | |
| | Plan 1 Vested 1/1/2013 | Plan 1 Non-Vested 1/1/2013 | Plan 2 | Hybrid Plan | Pension Reform Plan Total | Grano Tota |
| Number Active Members <i>Percent of Total</i> | 38,007 | 7,424 | 23,648 | 39,534 | 70,606 65.0% | 108,61 |
| Payroll Active Members <i>Percent of Total</i> | \$2,340 | \$376 | \$1,146 | \$1,633 | \$3,155 57.4% | \$5,49 |



Political Subdivision Plans Active Member Breakdowns





*Projected assuming number of actives remains constant



Health Insurance Credit



| Health Insurance Credit Program (Dollars in Thousands) | | | | | | | | | | |
|---|--|-------------|---------------|----------------|---------------|-----------|---------------|-----------|--|--|
| | Political Subdivisions Constitutional Officers | | | Social Service | e Employees | Registrar | | | | |
| Actuarial Valuation as of June 30 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | | |
| Rates Applicable for FYE | Informational | 2023/2024 | Informational | 2023/2024 | Informational | 2023/2024 | Informational | 2023/2024 | | |
| Number of Political Subdivisions | 235 | 234 | n/a | n/a | n/a | n/a | n/a | n/a | | |
| 1 Participants | | | | | | | | | | |
| a. Actives | 37,398 | 36,426 | 13,608 | 13,435 | 6,307 | 6,147 | 254 | 265 | | |
| b. Retirees | 9,627 | 9,924 | 3,683 | 3,861 | 1,998 | 2,055 | 71 | 73 | | |
| c. Disabled | 1,638 | 1,716 | 332 | 325 | 167 | 165 | 2 | 2 | | |
| d. Inactive, Vested | 580 | 632 | 97 | 104 | 33 | 32 | 1 | 2 | | |
| e. Total (1a through 1d) | 49,243 | 48,698 | 17,720 | 17,725 | 8,505 | 8,399 | 328 | 342 | | |
| 2 Covered Payroll | \$1,488,073 | \$1,507,656 | \$733,934 | \$747,716 | \$303,771 | \$304,315 | \$12,961 | \$14,843 | | |
| 3 Health Insurance Credit Payments | \$5,206 | \$5,590 | \$2,049 | \$2,138 | \$1,095 | \$1,118 | \$39 | \$38 | | |
| 4 Assets (Actuarial = Market) | \$24,468 | \$33,237 | \$5,114 | \$6,669 | \$1,934 | \$2,345 | \$126 | \$169 | | |
| 5 Actuarial Accrued Liability | \$76,672 | \$82,791 | \$32,183 | \$33,241 | \$14,580 | \$14,833 | \$576 | \$590 | | |
| 6 Funded Ratio (4 ÷ 5) | 31.91% | 40.15% | 15.89% | 20.06% | 13.26% | 15.81% | 21.88% | 28.64% | | |
| 7 UAAL (5 - 4) | \$52,204 | \$49,554 | \$27,069 | \$26,572 | \$12,646 | \$12,488 | \$450 | \$421 | | |



Health Insurance Credit



| | Health Insurance Credit Program | | | | | | | | | |
|---------------------------------------|---------------------------------|------------|-----------------------------------|-----------|----------------|--------------------------|---------------|-----------|--|--|
| | Political Su | bdivisions | Constitutional Officers Social Se | | Social Service | Social Service Employees | | strar | | |
| Actuarial Valuation as of June 30 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | | |
| Rates Applicable for FYE | Informational | 2023/2024 | Informational | 2023/2024 | Informational | 2023/2024 | Informational | 2023/2024 | | |
| 1 Employer Contributiuon Rate for FYE | | | | | | | | | | |
| a. Employer Normal Cost Rate | 0.15% | 0.16% | 0.11% | 0.12% | 0.11% | 0.10% | 0.15% | 0.13% | | |
| b. Amortization Charge | 0.44% | 0.46% | 0.24% | 0.24% | 0.28% | 0.27% | 0.22% | 0.19% | | |
| c. Administrative Expenses | 0.00% | 0.01% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| d. Additional Funding Contribution | 0.02% | 0.04% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| e. Plan Surcharge | 0.03% | 0.05% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| f. Total (1a through 1e) | 0.64% | 0.72% | 0.35% | 0.36% | 0.39% | 0.37% | 0.37% | 0.32% | | |
| Amortization Period | 14 – 23 | 13 – 22 | 14 – 23 | 13 – 22 | 14 – 23 | 13 – 22 | 14 – 23 | 13 – 22 | | |



Health Insurance Credit Data Summary



| Valuation Date | Number | Annual Covered Payroll (Dollars in Thousands) | Annual Average Pay | % Change in Average Pay |
|-------------------|-----------|--|-----------------------|----------------------------|
| | PARTICI | PATING POLITICAL S | UBDIVISIONS | |
| 6/30/2021 | 36,426 | \$ 1,507,656 | \$ 41,390 | 4.02 % |
| 6/30/2020 | 37,398 | 1,488,073 | 39,790 | 2.87 % |
| 6/30/2019 | 37,448 | 1,440,731 | 38,679 | (14.99)% |
| 6/30/2018 | 23,034 | 1,048,068 | 45,501 | 3.52 % |
| 6/30/2017 | 22,478 | 987,951 | 43,952 | 1.80 % |
| 6/30/2016 | 21,846 | 943,186 | 43,174 | 2.32 % |
| | | ONSTITUTIONAL OFF | ICERS | |
| 6/30/2021 | 13,435 | \$ 747,716 | \$ 55,654 | 3.19 % |
| 6/30/2020 | 13,608 | 733,934 | 53,934 | 2.74 % |
| 6/30/2019 | 13,302 | 698,316 | 52,497 | 3.78 % |
| 6/30/2018 | 12,890 | 652,041 | 50,585 | 1.93 % |
| 6/30/2017 | 12,706 | 630,541 | 49,625 | 1.16 % |
| 6/30/2016 | 12,374 | 606,902 | 49,054 | 1.16 % |
| | <u>S(</u> | CIAL SERVICE EMPL | OYEES | • |
| 6/30/2021 | 6,147 | \$ 304,315 | \$ 49,506 | 2.79 % |
| 6/30/2020 | 6,307 | 303,771 | 48,164 | 1.95 % |
| 6/30/2019 | 6,048 | 285,738 | 47,445 | 3.31 % |
| 6/30/2018 | 5,713 | 261,274 | 45,733 | 1.69 % |
| 6/30/2017 | 5,595 | 251,620 | 44,974 | 1.67 % |
| 6/30/2016 | 5,418 | 239,648 | 44,232 | 1.87 % |
| | 1 . | REGISTRARS | | |
| 6/30/2021 | 265 | \$ 14,843 | \$ 56,011 | 9.77 % |
| 6/30/2020 | 254 | 12,961 | 51,028 | (0.37)% |
| 6/30/2019 | 232 | 11,882 | 51,216 | 4.02 % |
| 6/30/2018 | 233 | 11,474 | 49,236 | 1.80 % |
| 6/30/2017 | 231 | 11,173 | 48,367 | 1.69 % |
| 6/30/2016 | 216 | 10,274 | 47,565 | 2.50 % |



Virginia Local Disability Program



| (Dollars in Thousands) | | | | | | | | | | |
|---------------------------------------|---------------|-----------|------------------------|-----------|--|--|--|--|--|--|
| | Teac | | Political Subdivisions | | | | | | | |
| Actuarial Valuation as of June 30 | 2020 | 2021 | 2020 | 2021 | | | | | | |
| Rates Applicable for FYE | Informational | 2023/2024 | Informational | 2023/2024 | | | | | | |
| 1 Participants | | | | | | | | | | |
| a. Actives | 13,027 | 14,312 | 10,672 | 11,017 | | | | | | |
| b. Disabled | 9 | 16 | 36 | 54 | | | | | | |
| c. Ported | 8 | 8 | 8 | 8 | | | | | | |
| e. Total (1a through 1c) | 13,044 | 14,336 | 10,716 | 11,079 | | | | | | |
| 2 Covered Payroll | \$571,356 | \$642,284 | \$392,684 | \$423,151 | | | | | | |
| 3 Assets | | | | | | | | | | |
| a. Market | \$2,886 | \$5,588 | \$3,319 | \$6,168 | | | | | | |
| b. Actuarial | \$2,973 | \$5,028 | \$3,425 | \$5,604 | | | | | | |
| 4 Actuarial Accrued Liability | \$3,333 | \$5,102 | \$3,752 | \$5,005 | | | | | | |
| 5 Funded Ratio | | | | | | | | | | |
| a. Market Value of Assets (3a ÷ 4) | 86.59% | 109.53% | 88.46% | 123.24% | | | | | | |
| b. Actuarial Value of Assets (3b ÷ 4) | 89.20% | 98.55% | 91.28% | 111.97% | | | | | | |
| 6 UAAL (5 - 3b) | \$360 | \$74 | \$327 | (\$599 | | | | | | |



Virginia Local Disability Program



| Virginia Local Disability Program | | | | | | | | | |
|---------------------------------------|---------------|-----------|---------------|------------|--|--|--|--|--|
| | Teacl | ners | Political Su | odivisions | | | | | |
| Actuarial Valuation as of June 30 | 2020 | 2021 | 2020 | 2021 | | | | | |
| Rates Applicable for FYE | Informational | 2023/2024 | Informational | 2023/2024 | | | | | |
| 1 Employer Contributiuon Rate for FYE | | | | | | | | | |
| a. Employer Normal Cost Rate | 0.26% | 0.29% | 0.52% | 0.57% | | | | | |
| b. Amortization Charge | 0.01% | 0.00% | 0.01% | -0.01% | | | | | |
| c. Administrative Expenses | 0.18% | 0.18% | 0.29% | 0.29% | | | | | |
| d. Additional Funding Contribution | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| e. Plan Surcharge | 0.00% | 0.00% | 0.00% | 0.00% | | | | | |
| f. Total (1a through 2e) | 0.45% | 0.47% | 0.82% | 0.85% | | | | | |
| Amortization Period | 14 – 20 | 13 – 20 | 14 – 20 | 13 – 20 | | | | | |



Virginia Local Disability Program Data Summary



| Valuation Date | Number | Annual Covered Payroll (Dollars in Thousands) | Annual Average Pay | % Change in Average Pay |
|-------------------|--------|--|-----------------------|----------------------------|
| | | TEACHERS | | |
| 6/30/2021 | 14,312 | \$ 642,284 | \$ 44,877 | 2.32 % |
| 6/30/2020 | 13,027 | 571,356 | 43,859 | 4.61 % |
| 6/30/2019 | 11,047 | 463,174 | 41,928 | 3.57 % |
| 6/30/2018 | 9,332 | 377,798 | 40,484 | (4.05)% |
| 6/30/2017 | 7,439 | 305,446 | 42,195 | 9.31 % |
| | | POLITICAL SUBDIVIS | IONS | |
| 6/30/2021 | 11,017 | \$ 423,151 | 38,409 | 4.38 % |
| 6/30/2020 | 10,672 | 392,684 | 36,796 | 3.04 % |
| 6/30/2019 | 9,447 | 337,363 | 35,711 | 5.42 % |
| 6/30/2018 | 7,915 | 268,121 | 33,875 | 3.66 % |
| 6/30/2017 | 6,331 | 206,895 | 32,680 | 3.42 % |





Valuation Process





- The actuary determines the amount of employer contributions to be made to each VRS System during each member's career that, when combined with investment return and member contributions, is expected to be sufficient to pay for the benefit of that System
- In addition, the annual actuarial valuation is performed to:
 - Determine the progress on funding
 - Explore why the results of the current valuation differ from the results of the valuation of the previous year
 - Satisfy regulatory and accounting requirements



The Actuarial Valuation Process



Definition of the results developed in the actuarial valuation:

- Actuarial Accrued Liability (AAL) The cost of benefits attributable to service accrued as of the valuation date for the System.
- Actuarial Value of Assets (AVA) the value of the System's total assets used to develop Unfunded Actuarial Accrued Liability and the employer contribution towards it. The AVA is a smoothed value of assets where investment gains and losses which differ from the 6.75% assumed return are reflected over five years. Use of an AVA results in employer contributions which are less volatile than if the market value was used. For the Health Insurance Credit Political Subdivision and Special Coverage Code Plans, the AVA is equal to the market value of assets.
- Unfunded Actuarial Accrued Liability (UAAL) the excess of Actuarial Accrued Liability (AAL) over Actuarial Value of Assets (AVA); the amount of liability to be funded with future contributions.
- > Funded Ratio the ratio of the AVA over AAL.
- Net Actuarial Gain or Loss –an increase (loss) or decrease (gain) in the UAAL due to actuarial experience different from expected.
- Employer Contribution Rate the rate of pay developed to systematically pay off benefits accruing during the year, administrative expenses and the UAAL. Refer to components on the next slide.



The Actuarial Valuation Process



The components of the employer contribution rates are as follows:

- Employer Normal Cost Rate The ongoing annual cost of active employees accruing benefits under the plan, net of the member contribution rate.
- Amortization Charge The amortization of, or payment towards, the unfunded actuarial accrued liability (UAAL) for the year.
- Administrative Expenses An estimate of the administrative expenses to be paid out of the trust in the upcoming fiscal year.
- Additional Funding Contribution The additional contribution rate needed to allow for the use of the 6.75% investment return as the single equivalent investment return assumption for purposes of the GASB 67/68 statements.
- Plan Surcharge The additional contribution rate applied to plans with low funding levels to bring the plan to a more sustainable funding position as determined by the Plan Actuary.
- DC Contribution for Hybrid Members 1% mandatory employer contribution as well as an estimate of the employer match to the voluntary contributions made to the DC plan by Hybrid Plan members.



The experience and dedication you deserve



Virginia Retirement System Line of Duty Death and Health Benefits Trust Fund

November 15, 2021

Alisa Bennett, FSA, FCA, MAAA, EA President



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Overview



| \checkmark | | e June 30, 2021 valuation is used to set contributi 2024. | on rates for fiscal years 2023 |
|--------------|-----------|---|--|
| 4 | info • | d year valuations are for rate setting; ever rmational purposes FY 2021 and 2022 rate based on June 30, 201 FTE. FY 2022 rate was increased by the general a 1818 and HB 2207, each of which added additio | 9 valuation was \$717.31 per assembly in response to HB |
| | | | Premium per FTE |
| | | Regults of the June 20, 2010 Valuation | |
| | | Results of the June 30, 2019 Valuation Board Certified Rate | \$717.31 |
| | | Board Certified Rate Add Hypertension and Heart Disease Presumptions | \$717.31 |
| | | Board Certified Rate | \$717.31 <u>5.24</u> |
| | | Board Certified Rate Add Hypertension and Heart Disease Presumptions for Eligible EMS Personnel, and | |

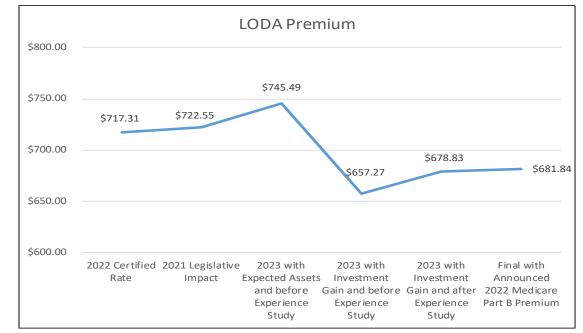
6/30/2021 VRS LODA Fund Valuation Results



Overview



Change in Employer Costs per FTE due to FYE June 30, 2021 Experience and Assumption Changes



- Decrease due to large asset value as of June 30, 2021, which will be spent down over the next two years.
- Experience study assumption changes to rates of deaths and disabilities along with an unanticipated increase in Medicare Part B premium slightly raised expected premium rate.



Development of LODA Fund Employer Costs Per FTE



Pay-As-You-Go Funding Section 9.1-400.1 of the Code of Virginia requires participating employer contributions to be determined by the Board on a current disbursement basis.

Costs Death and DHRM health care premium payments HIC reimbursements (used to offset claims) Administrative expenses

- Project benefit payments for future years.
 - Covers the cost of health care premiums for current beneficiaries.
 - Needs to cover the cost of any new claims that are expected to occur during the year (new health care premiums & death claims).



Development of LODA Fund Employer Costs Per FTE



- Projected benefit payments based on:
 - Demographics of group as of June 30, 2021.
 - Health care premium rates as of June 30, 2021.
 - Health care trend assumption.
 - Actuarial assumptions for:
 - Future death and disabilities
 - Medicare eligibility, Social Security Disability Eligibility
 - Dependent Coverage
 - o Mortality
- Health Insurance Credit (HIC) Program Reimbursements
 - Health Insurance Credits that would have been payable to eligible LODA beneficiaries are transferred to the LODA Fund to offset health care costs provided under the Line of Duty Act.
- Administrative Expenses
 - Assumed to be \$565,000 for fiscal year 2022 with 3% increases in the future.



Development of LODA Fund Employer Costs Per FTE



- Employer contributions per FTE are set such that assets are expected to be sufficient to cover costs for a two-year period but will be depleted at the end of the two-year period.
- Funding on a "pay-as-you-go" basis, rather than pre-funding of benefits. LODA fund assets are expected to earn 6.75%.
- FTE counts are expected to remain level over two-year period.
- LODA Fund contributions are likely to increase annually.
 - Current disbursement basis (no advance-funding).
 - Dollar per FTE employee contribution basis.
 - Health care inflation (increasing cost basis).
 - Increasing number of beneficiaries/static FTE employee count.



Costs – Health Care



| FY 2022 | | | | | | | | | |
|-----------------------------------|---|--|---------------------|----------------------------|--|--|--|--|--|
| Membership Level | LODA Plan Current LODA Employment | LODA Plan Former LODA Employment | Medicare Primary | Medicare Part B Premium | | | | | |
| Single | \$1,016 | \$1,049 | \$293 | \$170.10 | | | | | |
| Two Person | \$1,733 | \$1,764 | N/A | N/A | | | | | |
| Family (3 or more family members) | \$2,458 | \$2,486 | N/A | N/A | | | | | |

| FY 2021 | | | | | | | | | |
|-----------------------------------|---|--|---------------------|----------------------------|--|--|--|--|--|
| Membership Level | LODA Plan Current LODA Employment | LODA Plan Former LODA Employment | Medicare Primary | Medicare Part B Premium | | | | | |
| Single | \$948 | \$979 | \$283 | \$148.50 | | | | | |
| Two Person | \$1,618 | \$1,647 | N/A | N/A | | | | | |
| Family (3 or more family members) | \$2,295 | \$2,321 | N/A | N/A | | | | | |

- For pre-Medicare members premiums increased roughly 7% as expected
- For Medicare eligible members premiums increased 3.5% vs. 5.375% expected
- Projected 2022 Medicare Part B premium increased roughly 14.5% from \$148.50 to \$170.10. This
 was more than expected.

6/30/2021 VRS LODA Fund Valuation Results

7



Impact of COVID-19



No explicit changes were incorporated at this time for COVID-19 due to the level of uncertainty regarding the impact on both plan costs and contribution levels going forward \geq Potential Impacts: Routine and elective care being deferred Ο Deferrals offset COVID-19 costs for 2020 but could increase costs in 2021 and 2022 due to pent up demand. Direct COVID-19 treatment and prevention costs – still an ongoing Ο situation Addition of COVID-19 to Workers' Compensation presumptions Ο Potential for long term effects on both health costs and disabilities Ο



FY 2021 Financial Activity



| | | | Amount |
|----|--|----|------------|
| 1 | Accrued Assets as of June 30, 2020 | \$ | 4,333,000 |
| 2 | Benefit Payments | \$ | 13,094,000 |
| 3 | Administrative Expenses (includes opt-out members) | | 979,000 |
| 4 | Total Expenses (2 + 3) | \$ | 14,073,000 |
| 5 | Employer Contributions | \$ | 13,633,000 |
| 6 | Miscellaneous Revenue (includes reimbursement for opt-out members) | | 629,000 |
| 7 | Investment Income | | 3,031,000 |
| 8 | Total Revenue (5 + 6 + 7) | \$ | 17,293,000 |
| 9 | Revenue Less Expenses (8 - 4) | \$ | 3,220,000 |
| 10 | Accrued Assets as of June 30, 2021 (1 + 9) | \$ | 7,553,000 |

6/30/2021 VRS LODA Fund Valuation Results



Overview - Assets



- Asset balance has been growing over the last two years.
- > \$3 million in investment income during FY 2021.
- Since the plan is pay-as-you go, the funding mechanism is to spend down the \$7.5 million balance over the next two years, causing a drop in the proposed FTE rate.
- The FTE rate is projected to start increasing again after the twoyear period since the assets are projected to go to \$0.



Population – Participating Employee Headcount



| | Fiscal Year I | Ending 2020 | | Fiscal | Year Ending 2021 | | |
|---|---------------|---------------|-----------|--------|------------------|----|---------------------------|
| Employer Group | Employees | FTE Employees | Employees | Weight | FTE Employees | C | FY 2022 Contributions* |
| State/VaLORS/SPORS | 9,707 | 9,707.00 | 9,577 | 100% | 9,577 | \$ | 6,919,861 |
| National Guard | | | | | | | |
| Full-Time | 1,873 | 1,873.00 | 1,044 | 100% | 1,044.00 | ¢ | 1 205 0 45 |
| Part-Time | 6,333 | 633.30 | 7,522 | 10% | 752.20 | \$ | 1,297,845 |
| Total State & National Guard Employees | 17,913 | 12,213.30 | 18,143 | | 11,373.20 | \$ | 8,217,706 |
| Participating Political Subdivisions | | | | | | | |
| Full-Time | 7,171 | 7,171.00 | 7,106 | 100% | 7,106.00 | \$ | 5,134,440 |
| Volunteers | 2,419 | 604.75 | 2,432 | 25% | 608.00 | \$ | 439,310 |
| Total Political Subdivision Employees | 9,590 | 7,775.75 | 9,538 | | 7,714.00 | \$ | 5,573,750 |
| Aggregated Total | 27,503 | 19,989.05 | 27,681 | | 19,087.20 | \$ | 13,791,456 |

* FY 2022 contribution rate of \$722.55 per FTE employee based upon June 30, 2019 valuation including increases due to legislation

6/30/2021 VRS LODA Fund Valuation Results



Population – Number of Current Health Care Beneficiaries



| Participating Employer Groups as of June 30, 2021 | | | | | |
|---|-----------|------------------------|------------------|--|--|
| Beneficiary Type | State | Political Subdivisions | Aggregated Total | | |
| Disabled Participants | 250 | 403 | 653 | | |
| Spouses of Currently Disabled Participants | 162 | 278 | 440 | | |
| Surviving Spouses | <u>39</u> | <u>57</u> | <u>96</u> | | |
| Total | 451 | 738 | 1,189 | | |

| Participating Employer Groups as of June 30, 2020 | | | | | |
|---|-----------|------------------------|------------------|--|--|
| Beneficiary Type | State | Political Subdivisions | Aggregated Total | | |
| Disabled Participants | 255 | 395 | 650 | | |
| Spouses of Currently Disabled Participants | 164 | 265 | 429 | | |
| Surviving Spouses | <u>40</u> | <u>49</u> | <u>89</u> | | |
| Total | 459 | 709 | 1,168 | | |

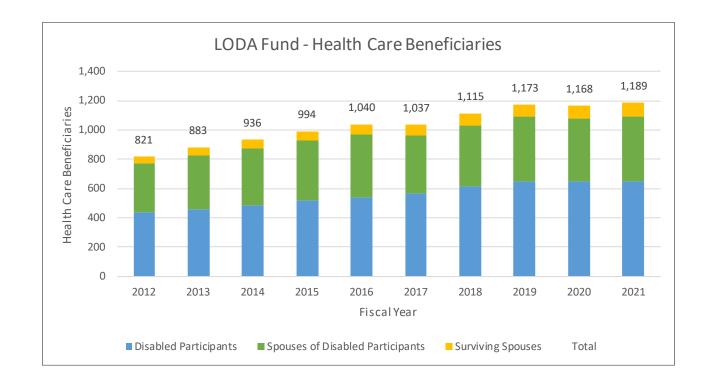
As some beneficiaries elect to cover dependents, assumed adult costs include the additional costs for the coverage of dependent children.

6/30/2021 VRS LODA Fund Valuation Results



Population – Number of Current Health Care Beneficiaries





- Disabled participants increased by an average of 26 each fiscal year from 2013 – 2020. Fiscal year 2021 had a net increase of 3 disabled participants.
- Total beneficiaries increased by an average of 43 each fiscal year from 2013 2020. Fiscal year 2021 had a net increase of 21 beneficiaries.



Summary of Results

Estimated per FTE Employee Rates - Pay-As-You-Go Funding



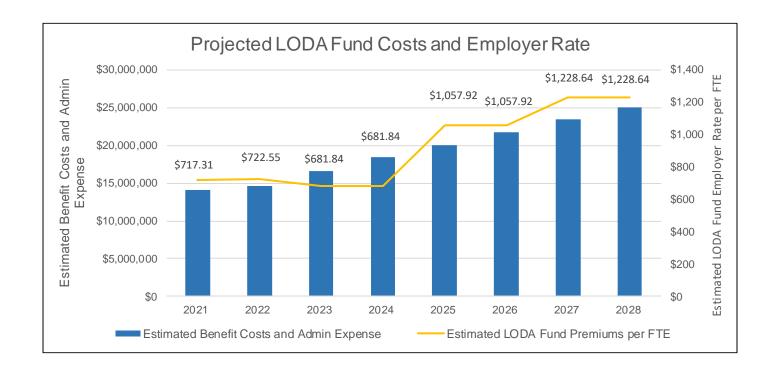
- The June 30, 2021 valuation is used to set contribution rates for fiscal years 2023 and 2024.
- Comparison of valuation results:

| | June 30, 2019 | June 30, 2020 | June 30, 2021 | |
|-------------------------------|-----------------------|---------------|---------------|--|
| Valuation Date | (Board Approved) | | | |
| Fiscal Year(s) | 2021 and 2022 | Informational | 2023 and 2024 | |
| Number of FTE Employees | 19,243 | 19,989 | 19,087 | |
| Contribution per FTE Employee | \$717.31 and \$722.55 | \$758.03 | \$681.84 | |



Projected Cost Estimates

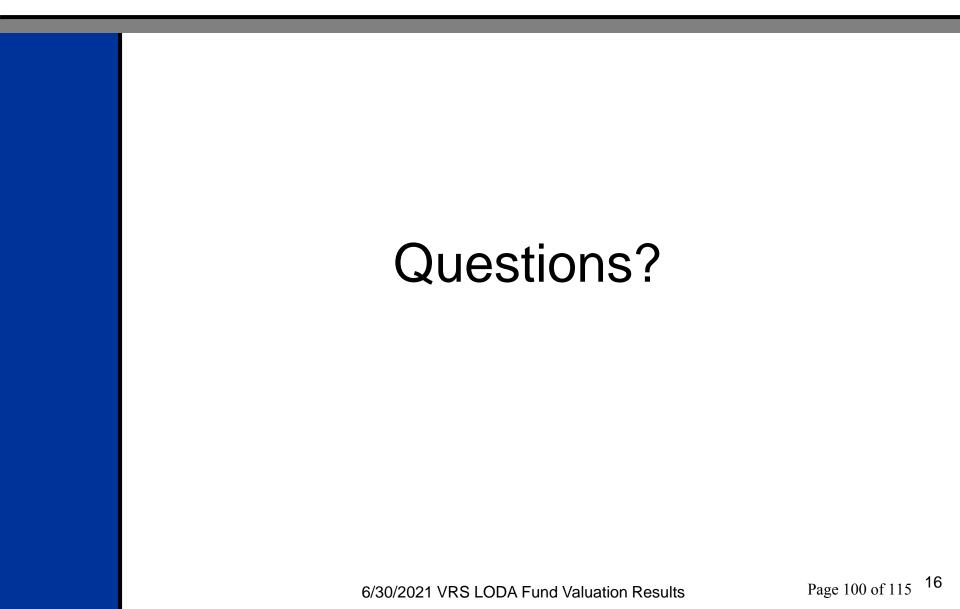
















Appendix

6/30/2021 VRS LODA Fund Valuation Results

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Projected Cost Estimates Actual Employer Contribution Rates



| All Participating Employer Groups - June 30, 2021 Valuation Basis | | | | | | | | |
|---|------------------|--------------|----------------|---------------|----------------|--------------|--------------|--------------|
| | Actual | | | , | Projected | | | |
| | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| FTE Employees | 19,989.05 | 19,087.20 | 19,087.20 | 19,087.20 | 19,087.20 | 19,087.20 | 19,087.20 | 19,087.20 |
| | | Cash Flo | ow (Per FTE Em | ployee) | | | | |
| Employer Contribution Rate | \$717.31 | \$722.55 | \$681.84 | \$681.84 | \$1,057.92 | \$1,057.92 | \$1,228.64 | \$1,228.64 |
| Benefit Costs | (655.11) | (738.42) | (840.46) | (935.31) | (1,018.65) | (1,103.43) | (1,194.65) | (1,275.85) |
| Administrative Expenses | (49.00) | (29.60) | (30.49) | (31.38) | (32.33) | (33.32) | (34.32) | (35.36) |
| Investment Income and Misc. Rev | <u>183.14</u> | 49.56 | 43.62 | <u>30.56</u> | <u>35.94</u> | <u>35.94</u> | 41.46 | <u>41.46</u> |
| Net Cash Flow | 196.34 | 4.09 | (145.49) | (254.29) | 42.88 | (42.89) | 41.13 | (41.11) |
| | | | Cash Flow | | | | | |
| Employer Contributions | \$13,632,927 | \$13,791,456 | \$13,014,453 | \$13,014,453 | \$20,192,792 | \$20,192,792 | \$23,451,235 | \$23,451,235 |
| Benefit Costs | (13,094,992) | (14,094,421) | (16,041,981) | (17,852,481) | (19,443,202) | (21,061,347) | (22,802,536) | (24,352,467) |
| Administrative Expenses | (979,427) | (565,000) | (582,000) | (599,000) | (617,000) | (636,000) | (655,000) | (675,000) |
| Investment Income and Misc. Rev | <u>3,660,865</u> | 945,975 | 832,489 | 583,361 | <u>685,982</u> | 685,982 | 791,267 | 791,267 |
| Net Cash Flow | \$3,219,373 | \$78,010 | (\$2,777,040) | (\$4,853,668) | \$818,572 | (\$818,573) | \$784,965 | (\$784,965) |
| End of Year Net Position | \$7,552,697 | \$7,630,707 | \$4,853,667 | \$0 | \$818,572 | \$0 | \$784,965 | \$0 |

*Reflects estimated reduction in costs from HIC receipts.

Note: this chart details the computation of the projected future rates as show the chart on slide 13.

6/30/2021 VRS LODA Fund Valuation Results

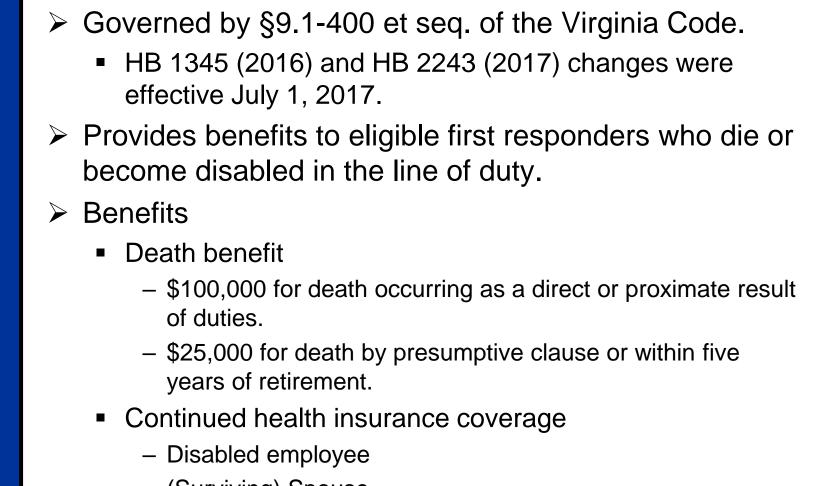




- The Virginia Line of Duty Act (LODA), established in <u>Title 9.1</u> of the <u>Code of Virginia</u> and enacted in 1972, provides benefits to eligible family members of eligible employees and volunteers killed in the line of duty and to those eligible employees and volunteers disabled in the line of duty and their eligible family members.
- Funding of LODA benefits is provided by employers in one of two ways:
 - Participation in the Line of Duty Death and Health Benefits Trust Fund (LODA Fund), administered by the Virginia Retirement System (VRS).
 - Self-funding by the employer or through an insurance company.
 - Employers were given the opportunity to opt-out of the State administered LODA fund by way of a resolution on two occasions with the last opportunity in July 2012.







- (Surviving) Spouse
- Dependent children 6/30/2021 VRS LODA Fund Valuation Results



LODA Eligibility - Benefits



Death benefit

- Death occurring as the direct or proximate result of the performance of duty.
 - Includes death by presumptive cause within five years of retirement.
 - Direct: \$100,000 (as of January 1, 2006)
 - Presumptive: \$25,000 (as of January 1, 1990)
 - Effective April 8, 1972
- Disability benefit
 - Disability occurring as the direct or proximate result of the performance of duty.
 - Mentally or physically incapacitated
 - Incapacity is likely to be permanent
 - Effective January 1, 1966
 - Only State employees are covered back to 1966





Disabled employee

- Health care benefit terminates upon the disabled person's death, recovery, or return to full duty.
- Includes spouse and dependent coverage
 - Coverage continues upon disabled employee's death.
- Surviving spouse
 - Health care benefit terminates upon the spouse's death or election of alternate coverage (opt-out).
- Dependents
 - Health care benefit terminates upon the earlier of the dependent's death, marriage, election of alternate coverage, or 26th birthday.



LODA Eligibility - Other



- Statute of limitations
 - 5 years under §8.01-255.
- Claim must be filed and approved
 - Submitted to VRS
 - Investigated by the Department of State Police.
 - Approved by VRS.



LODA Eligibility – Covered Employees



- Law-enforcement officers of the Commonwealth or any of its political subdivisions
- Correctional officers
- Jail officers
- > Regional jail or jail farm superintendents
- Sheriff, deputy sheriff, city sergeant, or deputy city sergeant of the City of Richmond
- Police chaplains
- Members of fire companies or departments or rescue squads recognized by any county, city, or town of the Commonwealth as an integral part of an official safety program
- Virginia National Guard or Virginia State Defense Force, including fire companies or departments providing their fire protection services
- Special agents of the Virginia Alcoholic Beverage Control Board
- Full-time sworn members of the enforcement division of the Department of Motor Vehicles

- Regular or special conservation police officers
- Commissioned forest wardens
- Members or employees of the Virginia Marine Resources Commission granted the power of arrest
- Department of Emergency Management hazardous materials officers
- Other employees of the Department of Emergency Management if performing duties related to a major disaster or emergency
- Employees of any county, city, or town performing official emergency management or emergency services duties in cooperation with the Department of Emergency Management
- Non-firefighter regional hazardous materials emergency response team members
- Conservation officers of the Department of Conservation and Recreation



Population – FY 2021 Participating Employer Groups



- Virginia Law Enforcement Officers Retirement System (VaLORS)
- State Police Officers Retirement System (SPORS)
- Virginia State Lottery
- Virginia Department of Conservation and Recreation
- Virginia Department of Forestry
- Virginia Department of Motor Vehicles
- Virginia Department of Emergency Management
- Virginia Air National Guard
- Virginia Army National Guard
- Virginia Port Authority
- Arlington County, Town of Appalachia, Town of Boones Mill, and Town of Pocahontas

(independent from VRS)

- Fire companies or departments that provide fire protection services to Virginia National Guard or Virginia Air National Guard facilities
- VRS Local Employers' Law Enforcement Officers of participating political subdivisions
- VRS Local Employers' members performing hazardous duties for participating political subdivisions
- Law Enforcement, Firefighters, and EMTs of associated participating political subdivisions
- Firefighter trainees enrolled in a Fire Service Training course offered by the Virginia Department of Fire Programs

6/30/2021 VRS LODA Fund Valuation Results







- Maintain Line of Duty Death and Health Benefits Trust Fund (the Fund) for payment of program benefits of participating employers.
 - Fund Administration
 - Fund Management
 - Fund Investment
- Collect required data from participating employers.
- Determine costs of providing benefit payments to participating employers.
- Develop funding policies and procedures.
- Invoice and collect required contributions from the State and participating localities.





- Department of Human Resource Management (DHRM).
 - Develop health insurance claims policies and procedures.
 - Review health insurance claims submissions.
 - Verify on-going eligibility.
 - Means testing.
 - Spouse eligibility.
 - Dependent eligibility.



2021 Legislation Impacting LODA



2021 VRS-Related Bills – Workers' Compensation



| House Bill 1818 | Adds Hypertension and Heart Disease Presumptions | | | |
|------------------|---|--|--|--|
| Senate Bill 1275 | for Eligible EMS Personnel | | | |
| | Makes salaried or volunteer emergency medical services (EMS) | | | |
| | personnel eligible for the hypertension and heart disease presumptions. | | | |
| | Covers salaried or volunteer EMS personnel, as defined in §32.1- 111.1, employed by any locality that has legally adopted a resolution declaring it will provide one or more presumptions under the subsection. | | | |
| | The legislation is prospective only, effective July 1, 2021. | | | |
| House Bill 2207 | Adds COVID-19 as Workers' Compensation Presumption | | | |
| Senate Bill 1375 | COVID-19 will be considered a presumption for the following: | | | |
| | Firefighters | | | |
| | Emergency medical services personnel | | | |
| | Law enforcement officers | | | |
| | Correctional officers | | | |
| | Regional jail officers | | | |
| | The presumption covers death or disability on or after July 1, 2020 (extending through December 31, 2021). | | | |



Approved Budget



Budget Changes to LODA Premium

 General Assembly provided funding for increased premium of \$722.55 in the final budget

| | Premium per FTE |
|---|-----------------|
| Results of the June 30, 2019 Valuation Board Certified Rate | \$717.31 |
| Add Hypertension and Heart Disease Presumptions for Eligible EMS Personnel, and | |
| Add COVID-19 as Workers' Compensation | <u>5.24</u> |
| Adjusted LODA Premium Rate | \$722.55 |

Virginia

Retirement System