SUMMARY OF 2020 VALUATION RESULTS

South Carolina Retirement System
(SCRS)

Executive Summary

(Dollar amounts expressed in thousands)

	Valuation Date:	
	July 1, 2020	July 1, 2019
Membership		
• Number of		
- Active Members	201,144	200,264
- Retirees and Beneficiaries	146,131	144,292
- Inactive Members	198,926	191,113
- Total	546,201	535,669
• Projected payroll of active members	$9,788,610	$9,272,010
• Projected payroll for all members, including working retirees and members in ORP	$11,928,366	$11,335,475
Required Contribution Rates		
• Employer contribution rate[1]	16.56%	15.56%
• Member	9.00%	9.00%
Assets		
• Market value	$26,292,418	$27,238,916
• Actuarial value	28,171,964	27,443,804
• Return on market value	-1.6%	5.7%
• Return on actuarial value	4.5%	4.1%
• Ratio of actuarial to market value of assets	107.1%	100.8%
• External cash flow %	-1.9%	-2.5%
Actuarial Information		
• Normal cost %	10.63%	10.64%
• Actuarial accrued liability (AAL)	$52,061,245	$50,438,807
• Unfunded actuarial accrued liability (UAAL)	23,889,281	22,995,003
• Funded ratio	54.1%	54.4%
• Funding period (years)[2]	20	23
Reconciliation of UAAL		
• Beginning of Year UAAL	$22,995,003	$22,073,826
- Interest on UAAL	1,667,138	1,600,352
- Amortization payment	(1,680,754)	(1,437,792)
- Assumption/method changes	0	0
- Asset experience	738,295	847,002
- Salary experience	177,935	(45,360)
- Other liability experience	(8,336)	(43,025)
- Legislative Changes	0	0
• End of Year UAAL	$23,889,281	$22,995,003

[1] The employer contribution rates in effect for FY 2020, FY 2021, and FY 2022, are 15.56%, 15.56%, and 16.56% of pay, respectively. These scheduled contribution rates was enacted by the Retirement System Funding and Administration Act of 2017, as amended by Act 135 of 2020. These contribution rates include the cost of incidental death benefits.

[2] The 23 year funding period shown for 2019 is based on the contribution rate schedule as modified by Act 135 of 2020. The funding period for 2020 is determined on an actuarial value of asset basis and is based on the contribution rate scheduled to become effective for FY 2022 (i.e. beginning July 1, 2021 and ending June 30, 2022).

Police Officers Retirement System (PORS)

Executive Summary

(Dollar amounts expressed in thousands)

	Valuation Date:	
	July 1, 2020	July 1, 2019
Membership		
• Number of		
- Active members	27,795	27,397
- Retirees and beneficiaries	19,625	19,094
- Inactive members	18,811	17,944
- Total	66,231	64,435
• Projected payroll of active members	$1,440,645	$1,378,255
• Projected payroll for all active members, including working retirees	$1,556,669	$1,494,540
Required Contribution Rates		
• Employer contribution rate [1]	19.24%	18.24%
• Member	9.75%	9.75%
Assets		
• Market value	$4,730,175	$4,815,809
• Actuarial value	5,069,748	4,852,573
• Return on market value	-1.6%	5.8%
• Return on actuarial value	4.6%	4.7%
• Ratio - actuarial value to market value	107.2%	100.8%
• External cash flow %	-0.1%	-0.3%
Actuarial Information		
• Normal cost %	14.47%	14.54%
• Actuarial accrued liability (AAL)	$8,111,938	$7,737,415
• Unfunded actuarial accrued liability (UAAL)	3,042,190	2,884,842
• Funded ratio	62.5%	62.7%
• Funding period (years) [2]	18	20
Reconciliation of UAAL		
• Beginning of Year UAAL	$2,884,842	$2,723,891
- Interest on UAAL	209,151	197,482
- Amortization payment	(229,602)	(198,126)
- Assumption/method changes	0	0
- Asset experience	130,430	122,108
- Salary experience	38,748	14,408
- Other liability experience	8,621	25,079
- Legislative Changes	0	0
• End of Year UAAL	$3,042,190	$2,884,842

[1] The employer contribution rates in effect for FY 2020, FY 2021, and FY 2022 are 18.24%, 18.24%, and 19.24% of pay, respectively. These scheduled contribution rates was enacted by the Retirement System Funding and Administration Act of 2017, as amended by Act 135 of 2020. These contribution rates include the cost of accidental and incidental death benefits.

[2] The 20 year funding period shown for 2019 is based on the contribution rate schedule as modified by Act 135 of 2020. The funding period for 2020 is determined on an actuarial value of asset basis and is based on the contribution rate scheduled to become effective for FY 2022 (i.e. beginning July 1, 2021 and ending June 30, 2022).

Retirement System for Judges and Solicitors (JSRS)

Executive Summary

(Dollar amounts expressed in thousands)

Valuation Date:	July 1, 2020	July 1, 2019
Membership		
• Number of		
- Active members[1]	160	160
- Retirees and beneficiaries	205	197
- Inactive members	4	6
- Total	369	363
• Projected payroll of active members	$30,346	$30,346
Contribution Rates		
• Employer contribution rate	62.94% [2]	62.94%
• Non-Payroll based State appropriations	$2,900	$2,900
• Member	10.00%	10.00%
Assets		
• Market value	$165,250	$165,843
• Actuarial value	176,649	167,119
• Return on market value	-1.4%	5.8%
• Return on actuarial value	4.6%	4.4%
• Ratio of actuarial to market value of assets	106.9%	100.8%
• External cash flow %	1.1%	-2.0%
Actuarial Information		
• Normal cost %	28.85%	29.51%
• Actuarial accrued liability (AAL)	$415,069	$399,746
• Unfunded actuarial accrued liability (UAAL)	238,420	232,627
• Funded ratio	42.6%	41.8%
• Calculated funding period (years)	21	20
Reconciliation of UAAL		
• Beginning of Year UAAL	$232,627	$130,457
- Interest on UAAL	16,866	9,458
- Amortization payment	(19,766)	(9,032)
- Assumption/method changes	0	0
- Asset experience	4,418	4,584
- Benefit adjustment	(7,540)	64,361
- Salary experience	(553)	25,686
- Other liability experience	12,368	7,113
- Legislative Changes	0	0
• End of Year UAAL	$238,420	$232,627

[1] Active member counts include 18 and 21 retired-in-place members as of July 1, 2020 and July 1, 2019, respectively and also includes unfilled positions.

[2] The 62.94% contribution rate includes the cost of incidental death benefits.

Retirement System for Members of the General Assembly of the State of South Carolina (GARS)

Executive Summary

(Dollar amounts expressed in thousands)

Valuation Date:	July 1, 2020	July 1, 2019
Membership		
• Number of		
- Active positions	69	69
- Special contributors	18	19
- Retirees and beneficiaries	338	345
- Inactive members	35	36
- Total	460	469
• Projected payroll	$1,570	$1,570
Contribution Requirement		
• Member contribution rate	11.00%	11.00%
• Employer contribution requirement [1]	$6,279	$5,956
Assets		
• Market value	$34,454	$34,712
• Actuarial value	36,869	35,140
• Return on market value	-1.3%	5.7%
• Return on actuarial value	4.4%	2.3%
• Ratio - actuarial value to market value	107.0%	101.2%
• External cash flow %	0.6%	-1.6%
Actuarial Information		
• Normal cost %	23.26%	22.91%
• Actuarial accrued liability (AAL)	$71,426	$72,055
• Unfunded actuarial accrued liability (UAAL)	34,557	36,915
• Funded ratio	51.6%	48.8%
• Funding period from the valuation date	7 Years	8 Years
Reconciliation of UAAL		
• Beginning of Year UAAL	$36,915	$38,102
- Interest on UAAL	2,235	2,762
- Amortization payment	(6,092)	(5,725)
- Assumption change	0	0
- Asset experience	1,010	1,703
- Liability experience	489	73
- Legislative changes	0	0
• End of Year UAAL	$34,557	$36,915

[1] The contribution requirement determined by the July 1, 2020 valuation is effective for the fiscal year beginning July 1, 2021. The contribution requirement determined by the July 1, 2019 valuation was adopted by the Board to be effective for the fiscal year beginning July 1, 2020.

South Carolina National Guard
Supplemental Retirement Plan
(SCNG)

Executive Summary

(Dollar amounts expressed in thousands)

Valuation Date:	July 1, 2020	July 1, 2019
Membership		
• Number of		
- Active Members	12,099	12,100
- Retirees	4,981	4,923
- Inactive Members	1,739	1,823
- Total	18,819	18,846
Annual Required Contribution		
• Member	$0	$0
• Employer contribution[1]	$4,405	$5,188
Assets		
• Market value	$31,092	$30,683
• Actuarial value	33,299	31,122
• Return on market value	-1.1%	5.6%
• Return on actuarial value	4.5%	3.8%
• Ratio - actuarial value to market value	107.1%	101.4%
• External cash flow %	2.5%	2.6%
Actuarial Information		
• Normal cost	$821	$820
• Actuarial accrued liability (AAL)	66,597	66,523
• Unfunded actuarial accrued liability (UAAL)	33,298	35,401
• Funded ratio	50.0%	46.8%
• Amortization period[2]	16	17
Reconciliation of UAAL		
• Beginning of Year UAAL	$35,401	$36,946
- Interest on UAAL	2,567	2,679
- Amortization payment	(4,633)	(4,652)
- Assumption/method changes	0	0
- Asset experience	868	1,011
- Other liability experience	(905)	(583)
- Legislative changes	0	0
• End of Year UAAL	33,298	$35,401

[1] The contribution amount determined by the actuarial valuation is effective for the following fiscal year. The calculated contribution amount for FY 2020 was $5,188 thousand, however the state appropriations were $5,290 thousand.

[2] As of July 1, 2020, there is one year remaining in the amortization of the unfunded liability attributable to the 2006 legislation change and 16 years remaining in the amortization of the unfunded liability due to other plan experience.