

SRPS

By the Numbers

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March 2024

Demographics

As of 6/30/2023			State Employees	Teachers	Municipal
Active Members	198,647		59,504	112,773	26,370
Vested		100,835	29,032	60,297	11,506
Non-vested		97,812	30,472	52,476	14,864
Inactive Deferred Vested	47,087		17,293	23,702	6,092
Retirees & Beneficiaries	174,609		69,774	84,177	20,658
Total	420,343		146,571	220,652	53,120

Retirees & Beneficiaries checks per month/year (as of 6/30/2023): \$400M (avg.)/\$4.8B/yr.

Total System Payroll (State & Muni) as of 6/30/2023: \$14.4 billion

- State: \$12.9 billion
- Muni: \$1.5 billion

Ratio of Assets to Payroll (as of 6/30/2023): 4.5/1.0

Ratio of Active/Annuitant (as of 6/30/2023): 1.1 /1.0

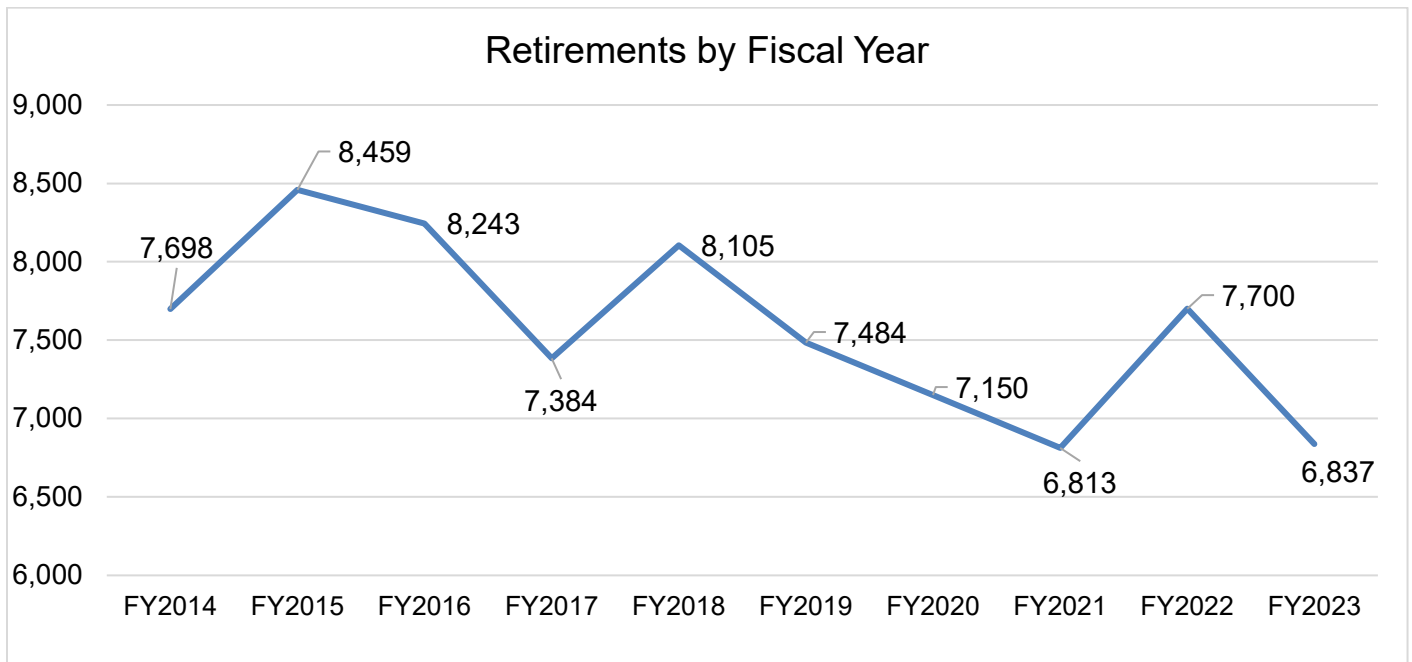
Ratio of Active/Non-Actives (includes retirees, beneficiaries & inactive deferred vested): 0.9/1.0

Average State Employee Salary (a/o June 30, 2023): Retirement Sys.: \$98,491; Pension Sys.: \$73,219

Average MDOT Employee Salary (a/o January 24, 2024): \$77,625

Average State Teacher Salary (a/o June 30, 2023): Retirement Sys.: \$124,361; Pension Sys.: \$75,156

Retirees and Beneficiaries as of 6/30/2023 (Combined State and Municipal)							
System	Count	Total Benefit	Avg. Benefit	Avg. Age	Avg. Age at Retire	Avg. FAS	Avg. Cred. Svc
Employees' Pension	66,789	\$1,235,226,132	\$18,492	72.1	62.3	n/a	n/a
Employees' Retirement	17,994	\$534,481,851	\$29,700	73.6	56.5	n/a	n/a
Judges	468	\$45,729,800	\$97,716	78.1	65.6	n/a	n/a
LEOPS	2,512	\$99,483,793	\$39,600	63.1	53.2	n/a	n/a
State Police	2,606	\$157,847,047	\$60,576	66.1	47.8	n/a	n/a
Teachers' Pension	63,217	\$1,710,064,115	\$48,612	74.6	63.7	n/a	n/a
Teachers' Retirement	20,831	\$1,017,058,726	\$42,638	82.6	62.3	n/a	n/a
CORS	63	\$1,944,590	\$30,864	62.1	56.9	n/a	n/a
Totals	174,480	\$4,801,836,054	\$27,504	73.3	61.1	n/a	n/a

Demographics

Economic Impact

Local economic impact of Maryland pensions

More than **\$3.59 billion** in annual pension payments stay in Maryland. (as of June 30, 2023)



M = millions

County/City	Number of Retirees	Total Pension Dollars	County/City	Number of Retirees	Total Pension Dollars
Allegany	3,524	\$89.0M	Harford	7,364	\$213.8M
Anne Arundel	13,498	\$389.7M	Howard	6,797	\$222.9M
Baltimore City	11,558	\$298.0M	Kent	771	\$21.0M
Baltimore County	22,032	\$663.8M	Montgomery	9,562	\$334.2M
Calvert	2,447	\$73.5M	Prince George's	10,909	\$286.0M
Caroline	1,129	\$29.2M	Queen Anne's	2,034	\$60.3M
Carroll	5,413	\$157.1M	Saint Mary's	2,221	\$58.4M
Cecil	1,972	\$50.9M	Somerset	1,254	\$30.0M
Charles	2,355	\$65.8M	Talbot	1,472	\$40.5M
Dorchester	1,491	\$37.4M	Washington	4,716	\$123.4M
Frederick	5,295	\$159.6M	Wicomico	3,558	\$96.6M
Garrett	1,305	\$33.5M	Worcester	2,253	\$60.1M

Economic Impact

Where do Retirees and Beneficiaries reside? (a/o June 30, 2023)

Maryland	74.3%	Delaware	2.4%
Florida	4.7%	North Carolina	2.2%
Pennsylvania	3.7%	South Carolina	1.5%
Virginia	2.6%	West Virginia	1.4%

*No other states have more than 1% of our payees

Governmental Units Participating in the Systems as of June 30, 2023

Allegany Community College	Catoctin & Frederick County	Garrett County/Western
Allegany County Board of Education	Soil Conservation District	Maryland Health Planning Council
Allegany County Government	Cecil County Board of Education	Garrett County Community Action Committee
Allegany County Housing Authority	Cecil County Government	Garrett County Roads Board
Allegany County Library	Cecil County Library	Greenbelt, City of
Allegany County Transit Authority	Centreville, Town of	Greensboro, Town of
Annapolis, City of	Chesapeake Bay Commission	Hagerstown, City of
Anne Arundel Community College	Chestertown, Town of	Hagerstown Community College
Anne Arundel County Board of Education	Cheverly, Town of	Hampstead, Town of
Anne Arundel County Community Action Agency, Inc.	College of Southern Maryland	Harford County Board of Education
Baltimore Metropolitan Council	College Park, City of	Harford County Community College
Berlin, Town of	Crisfield, City of	Harford County Government
Berwyn Heights, Town of	Crisfield Housing Authority	Harford County Library
Bladensburg, Town of	Cumberland, City of	Harford County Liquor Board
Bowie, City of	Cumberland, City of - Police Department	Howard Community College
Brunswick, City of	Denton, Town of	Howard County Board of Education
Calvert County Board of Education	District Heights, City of	Howard County Community Action Committee
Cambridge, City of	Dorchester County Board of Education	Hurlock, Town of
Cambridge Housing Authority	Dorchester County Government	Hyattsville, City of
Caroline County Board of Education	Dorchester County Roads Board	Kent County Board of Education
Caroline County Sheriff Deputies	Dorchester County Sanitary Commission	Kent County Government
Carroll County Board of Education	Eastern Shore Regional Library	Kent Soil and Water Conservation District
Carroll County Public Library	Edmonston, Town of	Landover Hills, Town of
Carroll Soil Conservation District	Elkton, Town of	LaPlata, Town of
	Emmitsburg, Town of	Manchester, Town of
	Federalsburg, Town of	Maryland Health & Higher Educational Facilities Authority
	Frederick County Board of Education	
	Frostburg, City of	
	Fruitland, City of	
	Garrett County Board of Education	

Governmental Units Participating in the Systems as of June 30, 2022 (continued)

Middletown, Town of	Queen Anne's County	Takoma Park, City of
Montgomery College	Government	Talbot County Board of
Morningside, Town of	Queenstown, Town of	Education
Mount Airy, Town of	Ridgely, Town of	Talbot County Government
Mount Rainier, City of	Rockhall, Town of	Taneytown, Town of
New Carrollton, City of	Salisbury, City of	Thurmont, City of
North Beach, Town of	Shore Up!	Tri-County Council for Lower
Northeast Maryland Waste	Snow Hill, Town of Somerset	Eastern Shore
Disposal Authority	County Board of Education	Tri-County Council for Western
Oakland, Town of	Somerset County Government	Maryland
Oxford, Town of	Somerset County Economic	University Park, Town of
Pocomoke, City of	Development Commission	Upper Marlboro, Town of
Preston, Town of	Somerset County Sanitary	Walkersville, Town of
Prince Georges Community	District, Inc.	Washington County Board of
College	Southern MD Tri-County	Education
Prince Georges County Board of	Community Action	Washington County Liquor
Education	Committee	Board
Prince Georges County Crossing	St. Mary's County Board of	Washington County Library
Guards	Education	Westminster, City of
Prince Georges County	St. Mary's County Government	Worcester County Board of
Government	St. Mary's County Housing	Education
Prince Georges County	Authority	Worcester County Government
Memorial Library	St. Mary's County Metropolitan	Worcester County Liquor
Princess Anne, Town of	Commission	Control Board
Queen Anne's County Board of	St. Michaels, Town of	Wor-Wic Community College
Education	Sykesville, Town of	

*Withdrawn Governmental Units

Hancock, Town of
Western Maryland Health Planning Agency

**List reflects withdrawn governmental units with a withdrawal liability balance*

PGU's

Active PGU's as of 6/30/23	131
Withdrawn PGU's as of 6/30/23	21
Combined Count	152

Investments

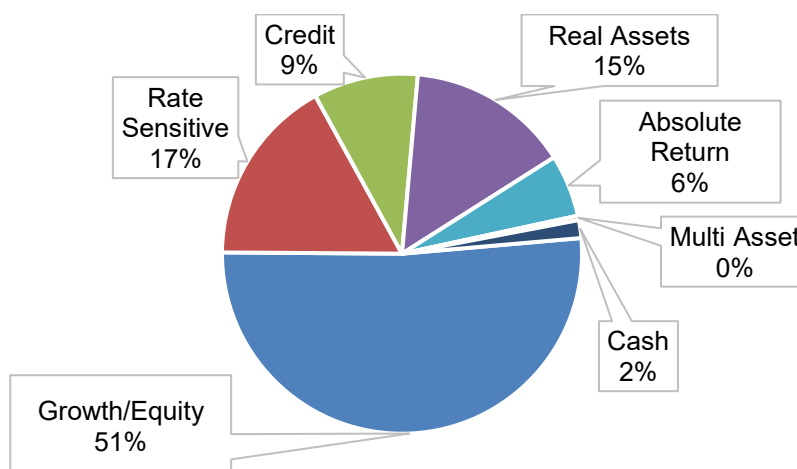
Investments: \$66,659.1 million assets under management (as of February 29, 2024)
\$65,204.0 million assets under management (as of June 30, 2023)

Indexed Assets - \$16,919.1 million (a/o February 29, 2024) – 25.4% of total assets

Terra Maria - \$2,430.5 million (a/o February 29, 2024) – 3.6% of total assets

Total Private Assets - \$30,416.9 million (a/o February 29, 2024) – 45.8% of total assets

	Target	Current (a/o February 29, 2024)
Growth/Equity:	50% (+/-7)	51.5% (includes 21.6% Private Equity)
Rate Sensitive	21% (+/-5)	16.9%
Credit	8% (+/-4)	9.4%
Real Assets	15% (+/-4)	14.5% (includes 9.7% Real Estate)
Absolute Return	6% (+/-4)	5.6%
Multi Asset	0%	0.4%
Cash	0%	1.6%



Assets at 6/30/2023: \$65.2 billion

New hi-water mark: \$70.6 billion (12/31/2021)

Old hi-water mark: \$40.9 billion (10/31/2007)

Low-water mark: \$24.7 billion (2/28/2009)

GROWTH/EQUITY includes U.S. Equity, International Developed Markets Equity, International Emerging Markets Equity, and Private Equity.

RATE SENSITIVE includes Long-Term Government Bonds, Securitized & Corporate Bonds, Inflation-Linked Bonds, and Cash.

CREDIT includes High Yield Bonds & Bank Loans and Emerging Markets Debt.

REAL ASSETS include Real Estate, Commodities, Natural Resources, and Infrastructure

ABSOLUTE RETURN includes those investments whose performance is expected to deliver absolute returns in any market conditions. The System's program may include strategies such as hedge fund of funds, multi-strategy, global tactical asset allocation, event driven, relative value, macro, insurance, and equity hedged.

MULTI ASSET includes a combination of different strategies that do not fall within the description of only one asset class and are expected to have performance characteristics similar to the plan.

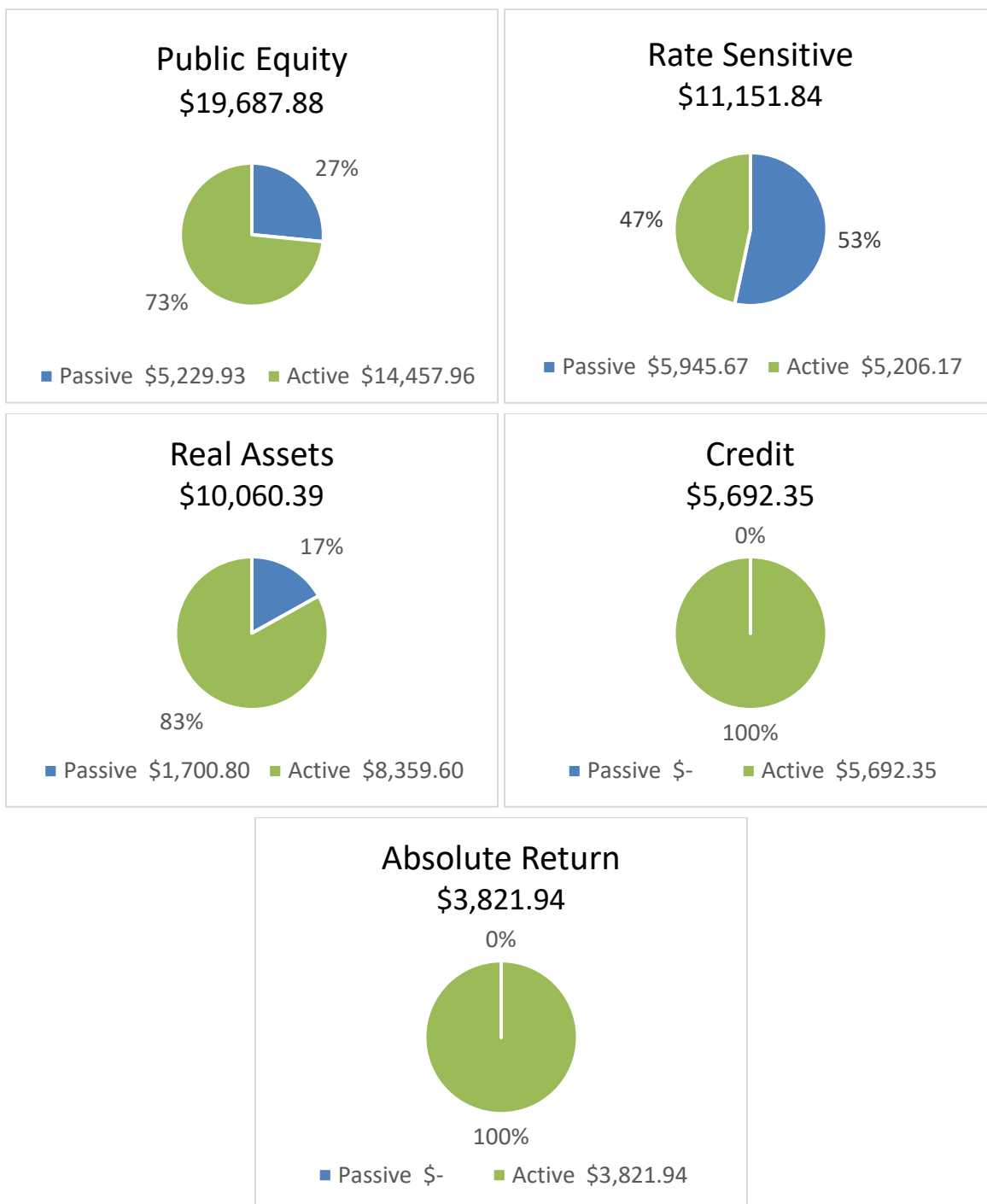
Investments**Terra Maria Program as of June 30, 2023**

Public Markets						
Ownership	Number of Mandates	% Total Mandates	# of Managers	% Total Managers	AUM (\$ millions)	% AUMs
African American	3	10.0%	3	10.7%	\$ 278.10	11.5%
African American/Veteran	1	3.3%	1	3.6%	\$ 50.94	2.1%
African American/Women	1	3.3%	1	3.6%	\$ 126.81	5.3%
Asian American	3	10.0%	2	7.1%	\$ 269.02	11.1%
Hispanic American	4	13.3%	4	14.3%	\$ 305.34	12.6%
Hispanic American/Women	1	3.3%	1	3.6%	\$ 62.91	2.6%
Majority Emerging	8	26.7%	8	28.6%	\$ 528.45	21.9%
Native American	1	3.3%	1	3.6%	\$ 48.14	2.0%
Women	8	26.7%	7	25.0%	\$ 744.26	30.8%
Total	30	100.0%	28	100.0%	2,413.97	100.0%

Private Equity						
Ownership	Number of Funds	% of Total Funds	Commitments	% of Total Committed	Drawn Amount	Drawn as % of Committed
African American	15	29.4%	\$ 1,130.00	25.6%	\$ 1,204.64	106.6%
Asian American/Women	4	7.8%	\$ 850.00	19.3%	\$ 728.61	85.7%
Hispanic American	7	13.7%	\$ 565.00	12.8%	\$ 574.40	101.7%
Hispanic/Middle Eastern	5	9.8%	\$ 270.00	6.1%	\$ 302.84	112.2%
Majority	5	9.8%	\$ 195.00	4.4%	\$ 196.60	100.8%
Women	15	29.4%	\$ 1,405.00	31.8%	\$ 977.34	69.6%
Total	51	100.00%	\$ 4,415.00	100.00%	\$ 3,984.43	90.25%

Investments

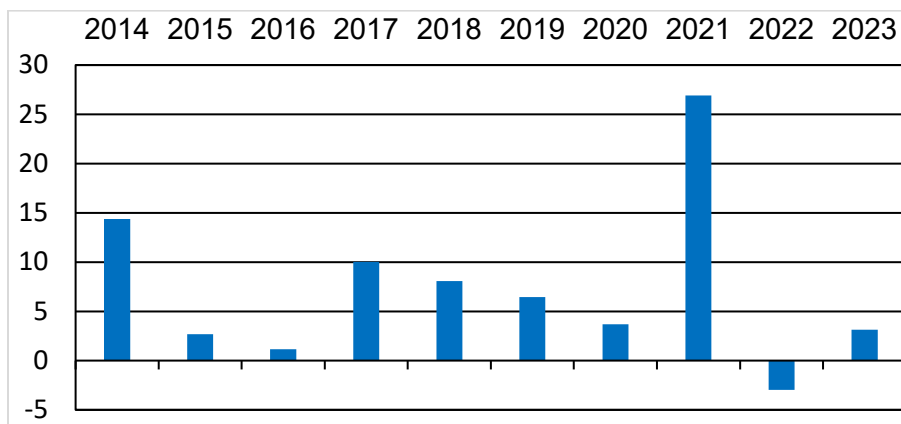
Passive vs. Active by Asset Class As of June 30, 2023 (In millions)



Investments

Fiscal Year Earnings

FY	Return	Policy Benchmark
2023	3.14%	2.20%
2022	-2.97%	-3.48%
2021	26.69%	24.43%
2020	3.57%	3.14%
2019	6.46%	7.11%
2018	8.06%	7.59%
2017	10.02%	9.90%
2016	1.16%	1.69%
2015	2.68%	0.88%
2014	14.37%	14.16%



	As of June 30, 2023	As of Feb. 29, 2024
Fiscal Year-to-Date	3.14%	3.91
Avg. return over past 1 year	3.14%	7.21
Avg. return over past 3 years	8.23%	4.00
Avg. return over past 5 years	6.93%	7.30
Avg. return over past 10 years	7.04%	6.41
Avg. return since 7/1/1986	7.91%	7.88

Management Fees (FY 2023): \$434 million (66.5 bps)

SRA rankings

Wilshire Trust Universe Comparison Service (TUCS®)

(Total Gross Returns of Public Funds > \$25 Billion)

Q1	96 th percentile (cumulative periods ending June 30, 2023)
1 yr.	96 th percentile
2 yrs.	68 th percentile
3 yrs.	71 st percentile
4 yrs.	56 th percentile
5 yrs.	59 th percentile.
7 yrs.	75 th percentile
10 yrs.	78 th percentile

InvMetrics

(Public DB > \$1 Billion Net Peer Group)

Q2	96 th percentile (cumulative periods ending June 30, 2023)
1yr.	98 th percentile
3yrs.	54 th percentile
5 yrs.	26 th percentile
10 yrs.	48 th percentile

Financial

Contribution Rates by fiscal year budget:

	FY2025	FY2024	FY 2023	FY2022	FY2021	FY 2020
Teachers	16.25	14.86	14.65	14.67	14.96	15.59
Employees	21.54	21.13	20.68	20.50	20.71	19.56
State Police	85.51	78.68	76.45	75.30	78.09	79.58
Judges	47.22	43.00	40.02	41.92	40.27	44.44
LEOPS	46.00	45.89	44.73	42.28	42.96	41.37
Composite	19.15	17.88	17.55	17.50	17.75	17.82

Summary of Valuation Results by System as of June 30, 2023 (State ONLY)

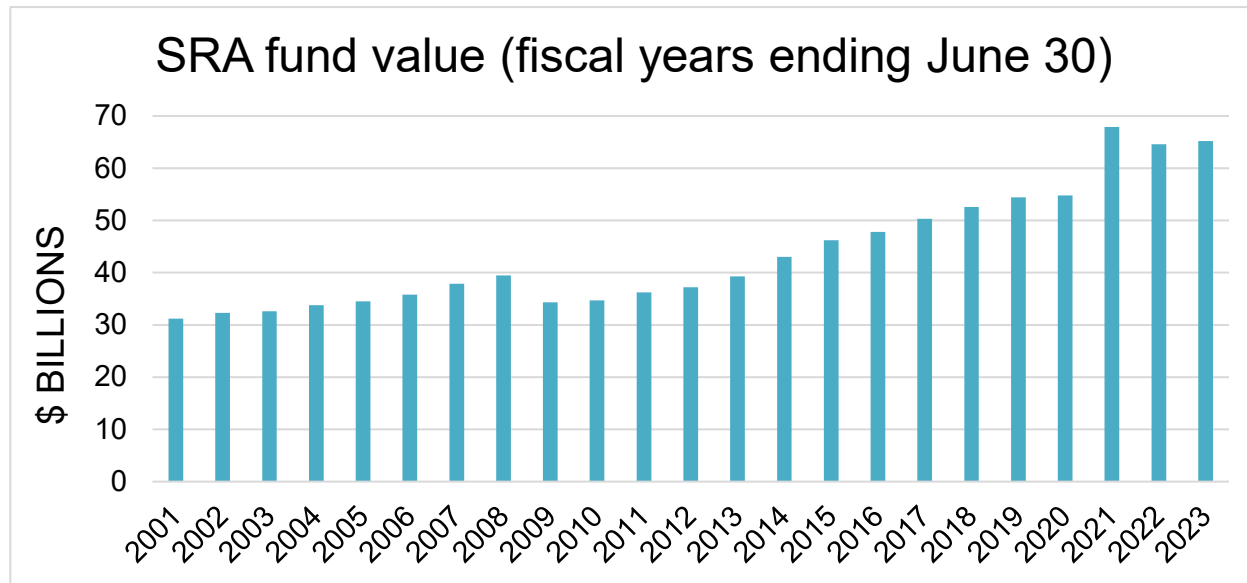
State Sponsored Plans	Teachers	Employees (State)	State Police	Judges	LEOPS (State)	Total State*
Employer Normal Cost Contribution	4.96%	4.30%	26.98%	32.33%	18.29%	5.27%
UAAL Contribution	11.29%	17.24%	58.53%	14.89%	27.71%	13.88%
Total Employer Contribution	16.25%	21.54%	85.51%	47.22%	46.00%	19.15%
Reinvested Savings Rate	0.58%	0.52%	0.72%	0.00%	0.76%	0.59%
Total Contribution w/ Reinvestment Savings	16.83%	22.06%	86.23%	47.22%	46.76%	19.74%

* Contribution rates shown in the "Total" column are for informational purposes only and are not used for funding purposes.

Additions to fund (FY 2023): Expressed in Thousands

Employer Contributions	\$2,438,917
Employee Contributions	963,702
Investment Income	<u>1,980,277</u>
Total	\$5,382,896

Financial



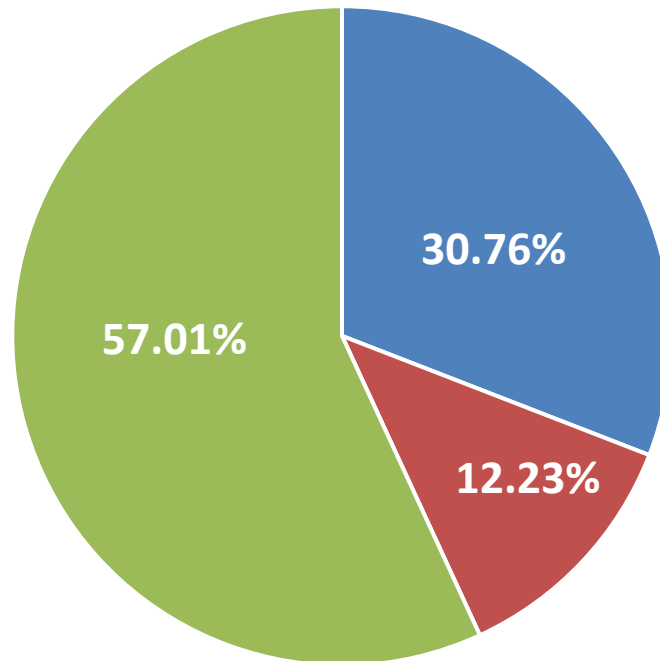
TEN-YEAR HISTORY OF CHANGES IN NET ASSETS

For the Years Ended June 30
(Expressed in thousands)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
ADDITIONS										
Employer contributions	\$1,733,653 (Includes TCS Local Employer's Portion of \$173,201)	\$1,858,612 (Includes TCS Local Employer's Portion of \$221,578)	\$1,870,655 (Includes TCS Local Employer's Portion of \$254,755)	\$2,036,596	\$1,995,017	\$2,054,091	\$2,144,270	\$2,203,524	\$2,282,303	\$2,438,917
Member contributions	727,726	755,444	764,414	782,686	791,583	807,291	850,298	865,738	894,267	963,702
Net investment income	5,706,267	1,197,671	497,531	4,473,443	3,899,393	3,288,209	1,866,639	14,315,762	-1,942,133	1,980,277
Total additions	8,167,646	3,811,727	3,132,600	7,292,725	6,685,993	6,149,591	4,861,207	17,385,024	1,234,437	5,382,896
DEDUCTIONS										
Benefits payments	3,121,823	3,284,550	3,469,493	3,577,123	3,744,132	3,926,220	4,108,492	4,253,047	4,394,350	4,653,163
Refunds	42,922	48,245	58,362	63,441	68,600	67,400	68,752	64,774	91,535	101,737
Administrative expenses	26,130	29,080	28,659	30,904	33,211	39,784	41,346	48,740	42,061	46,014
Total deductions	3,190,875	3,361,875	3,556,514	3,671,468	3,845,943	4,033,404	4,218,590	4,366,561	4,527,946	4,800,914
CHANGES IN NET	\$4,976,771	\$449,852	-\$423,914	\$3,621,257	\$2,840,050	\$2,116,187	\$642,617	\$13,018,463	-\$3,293,509	581,982

Financial

Twenty-Year Average in Contributions
(As of June 30, 2023)



- Employer Contributions
- Member Contributions
- Investment Income

Actuarial

Actuarial Assumptions: (for valuation as of June 30, 2023)

Rate of return:	6.80% (compounded annually) / U.S. avg.: 6.93% (a/o 12/31/22)
Inflation	2.25%
Real Return	4.55%
Salary increases:	2.75% (compounded annually)
Mortality:	Fully generational –Pub-2010/MP2018 projection scale

	<u>Actuarial Funded Status</u>	<u>Liabilities</u>	<u>Assets</u>	<u>Δ</u>
FY 2022	77.19%	\$85,248,063,628	\$65,798,923,071	\$19,449,140,557
	<u>Market Funded Status</u>	<u>Liabilities</u>	<u>Assets</u>	<u>Δ</u>
FY 2022	75.4%	\$85,248,063,628	\$64,310,990,914	\$20,937,072,714

National public plan median: 74.9% (FY 2021)

GASB 68/67

<u>FY 2023</u>	
<u>FY 2022</u>	76.3%
<u>FY 2021</u>	81.8%
<u>FY 2020</u>	70.7%
<u>FY 2019</u>	72.3%
<u>FY 2018</u>	71.2%

Past years actuarial funded status

FY	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
State Only	67.7%	68.6%	69.5%	70.9%	71.6%	72.2%	72.9%	76.2%	76.6%	74.7%
State/Muni	68.7%	69.7%	70.5%	71.8%	72.5%	73.0%	73.6%	76.9%	77.2%	75.3%

Contribution Rates by fiscal year budget:

	FY 2025	FY 2024	FY 2023	FY2022	FY2021
Teachers	16.83	15.15	14.65	14.67	14.96
Employees	22.06	21.41	20.68	20.50	20.71
State Police	86.23	79.04	76.45	75.30	78.09
Judges	47.22	43.00	40.02	41.92	40.27
LEOPS	46.76	46.28	44.73	42.28	42.96
Composite	19.74	18.18	17.55	17.50	17.75

Administration

SRA Employees (as of July 1, 2023):

PINs	230	(Filled and Vacant)
Contractual	27 *	(includes summer interns)
Total	257	

Frozen PINs (as of July 1, 2023):

PINs	0
Contractual	0

SRA Staff:

- 1.69% = 2 Political Appointment (at will positions) – Rachel Cohen, Katherine Morris
- 2 Executive Service (at will positions) – Martin Noven, Kimberly O’Keeffe
- 0 Independent Appointment (at will position)
- 22.78% = 54 Management Service (at will positions)
- 13.92% = 33 Special Appointments (at will positions) – includes attorneys
- 2.95% = 7 Professional Services (merit positions) – all attorneys
- 61.60% = 146 Skilled Service (merit positions)
- 44.44% = 12 Contractual(s) (filled only) (12 filled / 27 total contractual pins)

NOTES:

- DBM Freeze waiver on pins until further notice.

- Numbers under SRA Staff breakdown are skewed due to:

- 1) Some positions that are designated as Skilled Service are also designated as Special Appointment.
- 2) Positions that are designated as Professional Service are all legal staff and are also designated as Special Appointment and 1 as Political Special Appointment.

Administration**SRA staffing by Division (as of July 1, 2023):**

DIVISION / UNIT	Pinned Positions (Filled)	Pinned Positions (Vacant)	Contractual Positions (Filled)	Contractual Positions (Vacant)
Administration	2	1	0	0
Benefits Processing	33	2	2	1
BOO (Formerly PMO)	5	0	0	1
Data Control	27	2	2	2
Executive (Includes division heads)	10	0	0	0
External Affairs	2	0	0	0
Finance	19	3	3	5
Internal Audit	3	0	0	0
Investment	40	6	1	2
IT	19	5	1	2
Legal OAG *	9	0	0	0
Member Services & Counseling	28	8	2	1
Special Projects	6	0	1	1
TOTALS	203	27	12	15

Note: * Legal – Office of Attorney General maintains pins and vacancy number.

Administration

FY18 Budget: \$34,816,039

FY19 Budget: \$32,445,930

FY20 Budget: \$30,903,434

FY21 Budget: \$28,688,892

FY22 Budget: \$27,051,771

FY23 Budget: \$28,665,300

FY24 Budget: \$32,126,755 (68% special funds; 32% reimbursable funds)

Investment Division's "non-budgeted" amount for FY24: \$22,011,261.

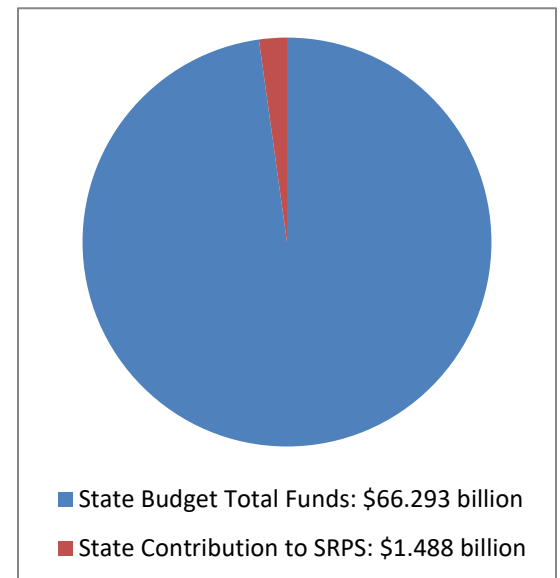
Projected employer contributions as a percent of the general fund budget

<u>Fiscal Year</u>	<u>State Employees</u>	<u>Local Teachers</u>	<u>Total*</u>
2018	3.0	4.6	7.6
2019	2.9	4.6	7.5
2020	2.9	4.7	7.5
2021	2.9	4.8	7.7
2022	2.9	4.9	7.7
2023	2.1	2.8	4.9
2024	2.4	3.1	5.5

* Totals may not add due to rounding.

As a percentage of state budget (FY 2024)

General Funds: \$1.488 billion out of \$7.185 billion	5.47%
GF Contribution for State Employees: \$651.8 million	2.40%
GF Contribution for Local Teachers: \$836.3 million	3.08%
Total Funds: \$1.898 billion out of \$66.293 billion	2.86%
TF Contribution for State Employees: \$1.061 billion	1.60%
TF Contribution for Local Teachers: \$836.2 million	1.26%



Disability Retirees (as of 6/30/2023)

Accidental	3,712	
Ordinary	11,149	
Beneficiaries	2,012	
Total	16,873	9.7% of total payees

Benefits

Key Benefit Changes

- 1947** ERS retirement age set at age 60
- 1960** Survivor benefit established for spouses of deceased retirees
- 1962** Military service credit established for members
- 1966** Vesting set at 20 years
- 1969** Guaranteed 1/60 benefit multiplier
- 1970** Vesting reduced to 15 years
- 1971** Automatic COLA established; average final compensation set at three years
- 1973** Benefit multiplier increased to 1/55 benefit; vesting is reduced to five years; death benefit set at 100% of current salary
- 1975** State Police retirement eligibility set at 25 years
- 1978** Disability retirement may be denied due to a pre-existing condition
- 1980** Employees' and Teachers' Retirement Systems are closed, and the Employees' and Teachers' Pension Systems are opened
- 1998** Major enhancements to the Employees' and Teachers' Pension Systems:
- Benefit multiplier set at 1.4% for service earned on or after July 1, 1998;
 - 1.2% benefit multiplier for service earned on or before June 30, 1998;
 - Compounded 3% COLA is established; and
 - Mandatory 2% employee contribution
- 1999** State Police Retirement System enhancement:
- Retirement eligibility is reduced to 22 years of service;
 - Benefit multiplier is increased to 2.55% for a maximum benefit equal to 71.4% over 28 years of service; and
 - Deferred Retirement Option Program is established
- 2000** Law Enforcement Officers' Pension System enhancement:
- Benefit multiplier increased to 2.0% for a maximum benefit of 60% over 30 years of service;
 - Mandatory 4% employee contribution;
 - Compounded 3% COLA is established; and
 - Deferred Retirement Option Program is established
- 2006** Employees' and Teachers' Pension System enhancements:
- 1.8% benefit multiplier replaces 1.4% benefit multiplier for service earned on or after July 1, 1998; and
 - 2% employee contribution is increased 1% every year beginning July 1, 2006, for three years until July 1, 2008, leveling at 5%
- 2011** Significant pension reform

Benefits

Benefits Options Selected by Retirees									
Option*	Basic	1	2	3	4	5	6	7	Total
Quantity	75,112	20,794	22,314	16,645	17,126	8,107	12,075	62	172,235
Percent	43.61	12.07	12.96	9.66	9.94	4.71	7.01	0.04	100%

Benefit Options

- Basic Allowance:** The standard benefit if no option is selected. Generally, at retiree's death, all payments cease. However, the basic allowance for the State Police, Law Enforcement Offices (LEOPS), Judges and Legislators provides a continuing benefit for spouses or children under 18.
- Option 1:** Guarantees return of the present value of the retirement benefit less the total payments already paid to the member.
- Option 2:** Guarantees the same payment to the designated beneficiaries for their lifetime.
- Option 3:** Guarantees one half the member's payment to the designated beneficiaries for their lifetime.
- Option 4:** Guarantees return of the member's accumulated contributions and interest less the member's accumulated reserves already paid.
- Option 5:** Guarantees the same payment to the designated beneficiaries for their lifetime unless the beneficiaries predecease the respective members. Allowance then increases to the basic.
- Option 6:** Guarantees one half the member's payment to the designated beneficiaries for their lifetime unless the beneficiaries predecease the respective members. Allowance then increases to the basic.
- Option 7:** Special option calculation performed by actuary

Other Post-Employment Benefits (OPEB)

	Net Position as percentage of total OPEB liability	Total Liability	Net OPEB Liability	Net Position (assets)
FY 2022	3.0%	\$12.8B	\$12.4B	\$385.4M

SOURCE: Actuarial Valuation and Review of Other Postemployment Benefits (OPEB) Measured on June 30, 2022, by The Segal Group, Inc. under GASB 74 & 75

	Actuarial Funded Status	Unfunded Actuarial Accrued Liability	Actuarial Value of Assets
FY 2022	3.0%	\$12.8B	\$385.4M
FY 2021	3.0%	\$15.3B	\$453.9M
FY 2020	2.1%	\$16.4B	\$355.1M
FY 2019	2.4%	\$14.3B	\$350.7M
FY 2018	3.0%	\$10.6B	\$329.3M
FY 2017	2.7%	\$11.1B	\$306.7M
FY 2016	2.2%	\$12.5B	\$276.0M
FY 2015	2.9%	\$9.4B	\$275.3M
FY 2014	2.8%	\$8.7B	\$250.1M
FY 2013	2.7%	\$8.3B	\$222.6M

SOURCE: Actuarial Valuation and Review of Other Postemployment Benefits (OPEB) Measured on June 30, 2022, by The Segal Group, Inc. under GASB 74 & 75

**Maryland Post-Retirement Health Benefits Trust
Investment Update
Asset Class by Market Value and Allocation
Period Ending September 30, 2023**

Asset Class	Market Value (\$ millions)	Actual Allocation	Long-Term Policy Target
Total Growth Equity	\$238	53.5%	56.0%
Rate Sensitive	\$106	23.9%	20.0%
Credit	\$39	8.7%	9.0%
Real Assets	\$62	13.9%	15.0%
Total Fund	\$445	100.0%	100.0%

**Total Plan Investment Performance
For Periods Ended June 30, 2023**

Fiscal YTD	-3.83%
1 Year	11.48%
3 Years	1.89%
5 Years	3.44%
Since inception (7/1/2008)	5.28%

Glossary

Benefits* Terms

**Definitions apply to most members.*

Accidental Disability: Total and permanent disability resulting from an on-the-job accident which occurs while carrying out one's job duties.

Actuary: An expert who analyzes risks and computes rates according to probabilities which are based on known experience.

Annuity: Income payable for the lifetime of the retired member in equal monthly payments.

Average Final Compensation (AFC): For members of the Reformed Contributory Pension Benefit, the AFC is the average of their five highest consecutive earning years. The AFC for all other members is the average of their three highest consecutive earning years.

Basic Allowance: Maximum benefit payable to a retiree based on member's total creditable service and average final compensation. Provides no beneficiary coverage.

Beneficiary: Individual(s) named by a member or retiree to receive benefits in the event of the member or retiree's death.

Claimed Credit: Additional retirement credit including service transferred from other pension systems and eligible military service. Member must apply for this credit, unlike earned credit which accrues automatically.

Contingent Beneficiary: Individual(s) named to receive benefits if there are no primary beneficiaries who survive the member/retiree.

Cost-of-Living Adjustment (COLA): Annual adjustments of State pension benefit to retirees based on changes to the Consumer Price Index.

Creditable Service: Service credit used for calculating the amount of a benefit.

Early Service Retirement: A reduced benefit payable as early as age 60 for members of the Reformed Contributory Pension benefit and age 55 for all other members. Member must have at least 15 years of eligibility service to qualify.

Earnable Compensation: Annual salary rate payable for working the normal time in the member's position.

Earned Credit: Retirement credit earned through payroll reporting.

Eligibility Service: Service credit used to determine when a member qualifies to receive a benefit.

Fiscal Year: The annual period beginning July 1 and ending June 30.

Leave of Absence: An employer-approved and SRPS-qualified absence from work without pay, granted for the following specific purposes: personal illness; maternity/paternity; adoption; career-related study; government sponsored or subsidized employment; and service in a professional or employee organization.

Medical Board: A panel of doctors, appointed by the SRPS Board of Trustees, who determine eligibility for disability retirement.

Membership: Membership begins your first day on the payroll. Membership ends four years after separation from employment, at retirement, at death or at withdrawal of employee contributions with interest.

Military Duty: Period of eligible duty with any of the Armed Forces of the United States, National Guard or Reserves as verified by military discharge papers.

Municipality: A city, county or other local government or any other employer specifically named in retirement law.

Normal Service Retirement: Reformed Contributory Pension Benefit – Retirement with an unreduced monthly benefit at a combined age and eligibility service of at least 90 years (or age 65 after 10 years of eligibility service.) All other systems – Retirement with an unreduced monthly benefit at age 62 with at least five years of eligibility service (or at any age after 30 years of eligibility service.)

Ordinary Disability: Permanent disability caused by any physical or mental illness or medical condition other than an on-the-job accident. Member must have at least five years of eligibility credit to apply.

Participating Employer: Public employers offering State Retirement Agency of Maryland benefits to their personnel. Includes State agencies; public schools and libraries; State universities and colleges; community colleges; participating counties, cities and towns; and municipal corporations.

Primary Beneficiary: Individual(s) with first claim to a member's/ retiree's benefits.

Retirement Coordinator: An employee, usually a personnel officer of a participating employer, who is trained to assist members with basic retirement matters such as the completion of SRPS forms.

SRA: State Retirement Agency. The State agency that administers the State Retirement and Pension System.

SRPS: State Retirement and Pension System

Vesting: Entitlement to retirement benefits at a later date. A member of the Reformed Contributory Pension Benefit is vested after 10 years of eligibility service. Members of all other systems are vested after five years of eligibility service.

Vested Allowance: Reformed Contributory Pension Benefit – A benefit payable at age 65 to a member who terminates employment with 10 or more years of eligibility service but who is not eligible for normal, early or disability retirement. May also be paid as early as age 60 if member has at least 15 years of eligibility service. All other systems – A benefit payable at age 62 to a member who terminates employment with five or more years of eligibility service but who is not eligible for normal, early or disability retirement. May also be paid as early as age 55 if member has at least 15 years of eligibility service.

Actuarial Terms

Assumptions (or actuarial assumptions): Tools to estimate the cost of the projected benefits to be paid by the System, including:

- Investment return: the rate of investment yield that the System will earn over the long-term future, currently set at 7.50% per annum in 2017 valuation.
- Mortality rates: the death rates of employees and pensioners; life expectancy is based on these rates, currently a version of the RP-2014 Table with fully generational projection.
- Retirement rates: The rate or probability of retirement at a given age, based on plan experience.
- Turnover rates: the rates at which employees of various ages and service levels are expected to leave employment for reasons other than death, disability, or retirement, based on plan experience.
- Salary scale: annual increases anticipated in individual employee pay that will be used to determine benefit entitlement at retirement; scale varies based on age and service.

Actuarial cost method: A means of allocating the cost of benefits to various time periods for funding or expense purposes.

- Many public Systems (including Maryland) use the traditional Individual Entry Age Normal Cost Method. Under this method, an annual contribution rate is determined that consists of the normal cost rate and the unfunded actuarial liability rate.
- **Normal cost:** The amount of contributions required to fund the benefit allocated to the current year of service, based on the traditional entry age actuarial cost method.
- The "Entry Age" method normal cost is derived as a level percentage of pay from entry age to the last assumed retirement age and applied to pay expected for the coming year. The sum of the individual normal costs is divided by total employee payroll to obtain the normal cost rate. The employer normal cost rate is net of an offset for expected employee contributions.

Actuarial accrued liability for active participants:

The equivalent of the accumulated normal costs allocated to the past: the years before the valuation date.

Actuarial accrued liability for pensioners: The single sum value of lifetime benefits to existing pensioners.

- The sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.

Unfunded actuarial accrued liability: The extent to which the actuarial accrued liability exceeds the assets of the System.

Government Accounting Standards Board (GASB) Statements 67/68: New accounting standards affecting plan (67) and employer (68) financial statements. Will put a measure of the unfunded liability on the face of the employers' basic financial statements.

Amortization of the unfunded actuarial accrued

liability: Payments made over a period of years equal to the System's unfunded actuarial accrued liability.

- For the State systems, the remaining unfunded liability on June 30, 2017, is being amortized over a closed 25 years (21 remaining) as a level percentage of payroll.

Investment return: The rate of earnings of the System from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund.

- For actuarial purposes, the investment return often reflects a smoothing of gains and losses (above or below the assumed rate) to avoid significant swings in the cost rate from one year to the next. For Maryland's systems, each year's investment gain or loss compared to the assumed rate of return is amortized on a straight-line basis over 5 years, with the final actuarial value limited to not more than 120% and not less than 80% of the market value of assets.

Investment Terms

Active Management: Investment strategy that involves buying stocks or bonds with the objective of outperforming a market index such as the S&P 500. The success of this strategy depends on the skills of the manager and the research team. Active management is the opposite of passive management.

Alpha: Measures the ability of a manager to produce returns above the market return, after adjusting for risk.

Alternative Equity: Generally, refers to non-publicly traded equities. As a rule, alternative equities are less liquid, riskier, and have the potential for higher return than publicly traded equities

Annualized Return: The yearly return of a portfolio, including dividends or interest payments, over a given time period, such as a three-year or five-year annualized return.

Asset Allocation: A method of allocating investment dollars among assets such as stocks, bonds, real estate, and cash. Widely accepted to be the most critical determinant of fund performance.

Asset Class: A broad class of investment securities. Examples are US stocks, fixed income securities (bonds), international stocks, commodities, and real estate.

Benchmark: A standard for comparing a portfolio's performance to the market from which the manager selects securities. The S&P 500 and the Barclays Capital Aggregate Bond Index are two commonly used benchmarks.

Beta: A gauge of the price volatility of a stock in relation to the overall market. A beta of less than one is a sign of lower volatility than the market; a beta of more than one is a sign of a volatility greater than the market.

Correlations: Statistical measure that shows if the price changes in two securities behave similarly or differently.

Debt: Within the investment world, commonly refers to bonds or other instruments that rely on repayment of loans for the payment of bond interest and bond principal.

Efficient Frontier: Highest return achievable at a specific level of risk.

Emerging Markets: Investments in emerging countries such as China and Argentina. Emerging countries are most commonly defined as countries listed in the MSCI Emerging Market Index.

Fixed Income: Bonds

Global: Includes both US and international securities.

High Yield Bonds: Bonds rated below investment grade. High yield bonds generally offer greater returns than investment grade bonds because they have a greater risk of default than investment grade bonds. For example, the yield on a small debt-ridden company's bonds should be much higher than the yield on US government bonds.

International: Securities issued outside the United States.

Leverage: The creation of an exposure greater than the initial dollar amount in an investment. Generally done through borrowing money. A simple example would be borrowing dollars so one could buy more shares of a security than the investor would have been able to acquire with the dollars currently on hand.

Liquidity: The ability to be able to quickly convert a security into cash.

Prudent Investor: Professional standard which entails a higher level of duty than just avoiding negligence. To manage assets in the best interest of the client (in this case, the System and its

beneficiaries) considering the risk and returns of asset classes and securities.

Rebalancing: Shifting between asset classes to maintain asset levels within acceptable ranges and near approved targets.

Risk Reward Analysis: Chart that shows the trade-off between risk (measured by standard deviation) and return. The shape of the risk return line illustrates that there are certain points where far more risk is needed to generate small amount of additional return.

Short Position: A position established by borrowing a security and selling it, with the understanding that the security must later be brought back and returned to the lender. The short seller hopes to profit by purchasing the security at a lower price.

Standard Deviation: A statistical measure of the dispersion of values in a data set from their mean. A volatile stock would have a high standard deviation. The more the returns of an investment fluctuate, the greater the standard deviation. Commonly used measure of investment risk.

Structure: Commonly refers to allocation between sub-asset classes and between active and passive management.

Sub Asset Class: A division within an asset class. Examples are growth and value stocks, emerging and developed international stocks.

Tactical Asset Allocation: Short term portfolio adjustments to take advantage of short-term trends. Staff manages a tactical asset allocation program that allows them limited authority to shift between certain specified asset class and sub-asset classes.