HOWARD COUNTY RETIREMENT PLAN

FINANCIAL STATEMENTS AND REQUIRED SUPPLEMENTARY INFORMATION

YEARS ENDED JUNE 30, 2023 AND 2022

HOWARD COUNTY RETIREMENT PLAN TABLE OF CONTENTS YEARS ENDED JUNE 30, 2023 AND 2022

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INDEPENDENT AUDITORS' REPORT

Retirement Plan Committee Howard County Retirement Plan Howard County, Maryland

Report on the Audit of the Financial Statements

Opinions

We have audited the accompanying financial statements of the Howard County Retirement Plan (the Plan), as of and for the years ended June 30, 2023 and 2022, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Plan as of June 30, 2023 and 2022, and the respective changes in its fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter. Retirement Plan Committee Howard County Retirement Plan

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- · Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant
 accounting estimates made by management, as well as evaluate the overall presentation of the
 financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Retirement Plan Committee Howard County Retirement Plan

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis and the Schedules of Changes in the County's Net Pension Liability and Related Ratios, the Schedule of County Contributions, and the Schedule of Investment Returns and related notes be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 20, 2023, on our consideration of the Plan's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Plan's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Plan's internal control over financial reporting and compliance.

Clifton Larson Allen LLP

CliftonLarsonAllen LLP

Baltimore, Maryland November 20, 2023

Introduction

The Howard County Retirement Plan (the Plan) is a single-employer defined benefit public employee retirement plan administered by Howard County, Maryland, which provides retirement benefits as well as death and disability benefits and cost-of-living adjustments.

Responsibilities for administration and operation of the Plan are vested in a Retirement Committee with seven members (Committee). The Committee has authority to establish and amend the respective benefit and contribution provisions.

Membership Data

	07/01/2022	07/01/2021	07/01/2020
Active	1,884	1,854	1,869
Retired and beneficiaries	1,030	954	897
Disabled	18	16	14
Terminated vested	244	217	213
Total	3,176	3,041	2,993

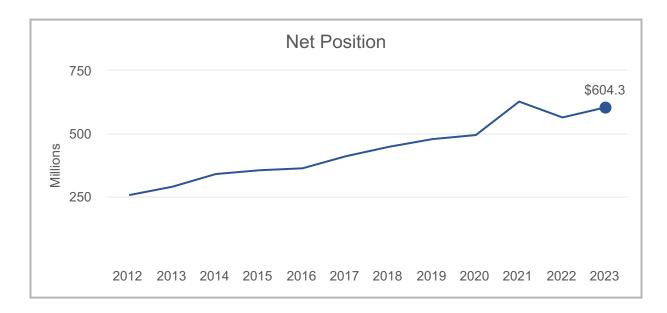
Financial Highlights

The financial statements of the Plan were prepared using the accrual basis of accounting. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan. Employee and employer contributions are recognized as revenues in the period in which employee services are performed and expenses are recorded when the corresponding liabilities are incurred, regardless of when payment is made. Investments are reported at fair value.

As of June 30, 2023, the net position was \$604.3 million as compared to \$564.1 million at June 30, 2022. The increase in net position of \$40.2 million can be attributed to global equities trending higher as better than expected economic data and moderating inflation has bolstered expectations around a potential economic soft landing. Real assets and private equity generated negative returns for the fiscal year while all other asset classes were positive. The Trust has outperformed the median public plans (All public plans greater than one billion dollars) for the fiscal year ending June 30, 2023.

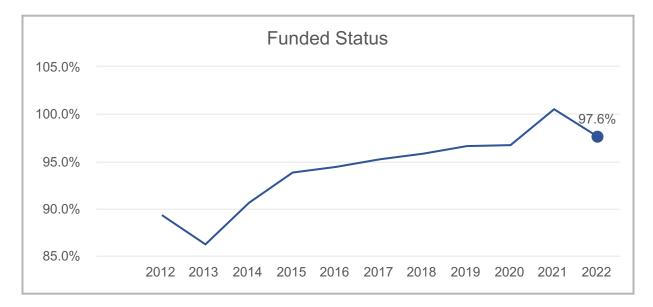
		Fis	scal Year*	r	
	2023		2022		2021
Contributions	\$21.34	\$	21.24	\$	20.75
Benefit Payments	\$28.50	\$	23.69	\$	21.24
Contribution rates	10.8%		11.8 %	6	11.8 %
# of benefit recipients	1,077		1,030		950

*amounts in millions



Funded Status

The Plan's funding objective is to meet long-term benefit obligations through contributions and investment income. The funding ratio, which is the actuarial value of assets divided by the actuarial accrued liability is an estimate of how well the Plan is meeting that objective. A higher ratio indicates the Plan is better funded. The funded ratio of the Plan was 97.6% and 100.5% as of July 1, 2022 and July 1, 2021, respectively.



Overview of the Basic Financial Statements

In this financial report, the basic financial statements consist of the Statement of Fiduciary Net Position and the Statement of Changes in Fiduciary Net Position with accompanying notes as of and for the year ended June 30, 2023 with comparative information as of and for the year ended June 30, 2022 and June 30, 2021. The financial position is comprised of assets, which primarily consist of investments less liabilities, including accounts payable and investment commitments payable.

The Statement of Changes in Fiduciary Net Position presents the additions to and deductions from the Plan's net position during the year. The Plan receives contributions from participants and the County as well as income or losses from investments and related activities. The primary deductions are the payments of benefits, which are the Plan's primary objectives. Deductions also include refunds to members who leave the Plan as well as administrative expenses.

Notes to the Basic Financial Statements

The Notes to Financial Statements contain disclosures and discussions which support the data presented in the financial statements. The notes present information about the administration of the Plan, significant accounting policies, and investments. The notes are an integral part of the financial statements and should be considered in conjunction with any review of the financial statements.

Required Supplementary Information (RSI)

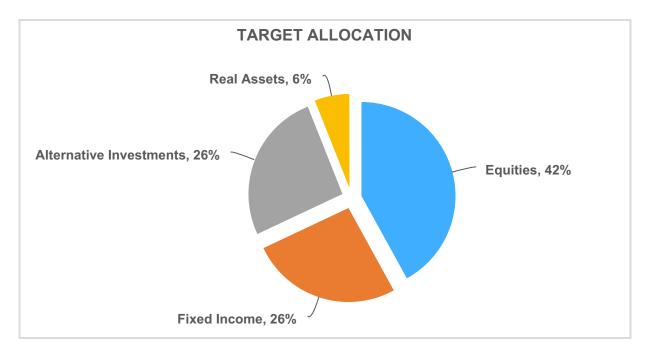
The RSI section provides actuarially determined information about the Plan and displays changes for the Plan's Net Pension Liability (NPL) and related ratios, contributions related to payrolls by the Plan, and money-weighted investment returns.

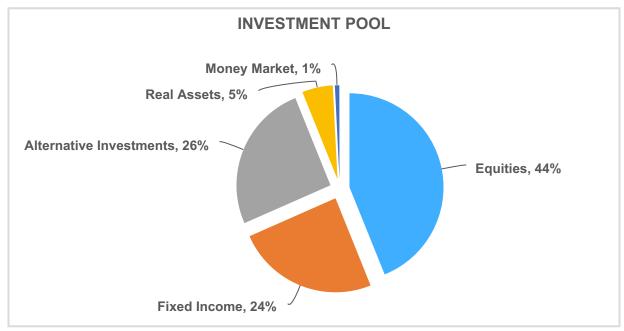
The following Condensed Statements of Fiduciary Net Position and Changes in Fiduciary Net Position present financial information for the Plan and compares fiscal years 2023, 2022, and 2021.

				2023 Percentage	2022 Percentage
Assets	2023	2022	2021	Change	Change
Receivables	\$ 3,917,568		\$ 5,985,893	12 %	(41)%
Investments	600,985,352	563,215,528	626,910,134	7 %	(10)%
Prepaid Insurance	24,025	23,874	21,594	1 %	11 %
Total Assets	604,926,945	566,749,433	632,917,621	7 %	(10)%
Liabilities					
Investment Purchased	308,363	2,376,992	5,583,158	(87)%	(57)%
Accounts Payable	340,605	234,835	265,515	45 %	(12)%
Total Liabilities	648,968	2,611,827	5,848,673	(75)%	(55)%
Net Position Held in Trust					
for Pension Benefits	\$604,277,977	\$564,137,606	\$627,068,948	7 %	(10)%
Additions					
Employer Contributions	\$ 16,093,684	\$ 16,347,464	\$ 15,888,630	(2)%	3 %
Employee Contributions	5,244,021	4,897,184	4,857,068	7 %	1 %
Net Investment Income (Loss)	47,813,631	(60,063,755)	133,778,266	(180)%	(145)%
Total Additions	69,151,336	(38,819,107)	154,523,964	(278)%	(125)%
Deductions					
Benefit Payments and Refunds	28,502,013	23,694,999	21,237,784	20 %	12 %
Administrative Expense	508,952	417,236	424,561	22 %	(2)%
Total Deductions	29,010,965	24,112,235	21,662,345	20 %	11 %
Net Change	40,140,371	(62,931,342)	132,861,619	(164)%	(147)%
Net Position Held in Trust for Pension Benefits:					
Beginning of Year	564,137,606	627,068,948	494,207,329	(10)%	27 %
End of Year	\$604,277,977	\$564,137,606	\$627,068,948	7 %	(10)%

Investments

Investments consist of U.S. equities (large cap and non-large cap), international equities (international developed markets and international emerging markets), fixed income, real assets, money market and alternatives (private equities and hedge funds). The Plan is a participant in a combined pension investment pool and it does not own an undivided interest in specific assets of the Pool. The investments presented by category are the Plan's proportionate share of the investments by category of the Pool that are reported at fair value.



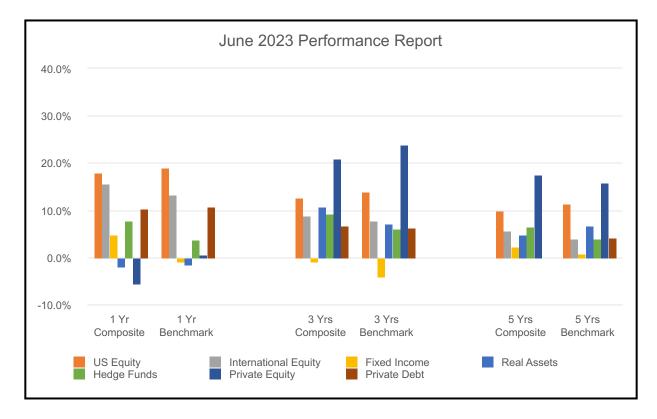


Note: Due to rounding, % may not add up to 100%.

LONG TERM EXPECTED RATE OF RETURN				
Equities	4.87%			
Fixed Income	3.06%			
Alternative Investments	6.75%			
Real Assets	4.35%			

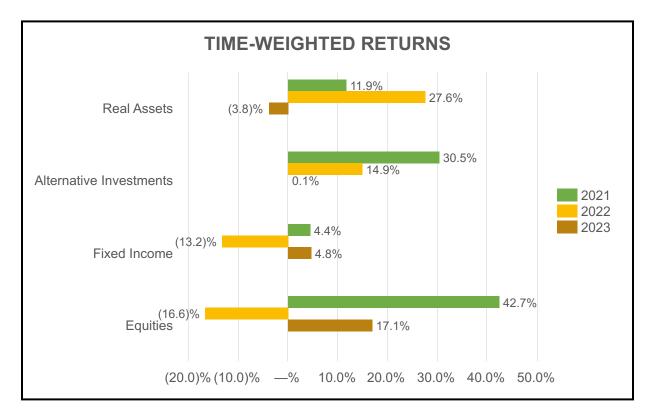
Investment Performance Summary

The retiree's benefit is paid from investment earnings and contributions. Displayed below is a comparison of the portfolio's returns (composite) to its policy benchmark in one year, three years and five years:



Note: The performance listed may not reflect final returns as of the date listed as private markets report investment returns on a quarter basis lag.

The investment Pool's time-weighted returns (gross of fees) are displayed by investment type in the following table.



Additional Information

The Plan's financial statements are presented in accordance with accounting principles generally accepted in the United States of America and are available at Howard County's web page www.howardcountymd.gov/finance/finance-audits.

HOWARD COUNTY RETIREMENT PLAN STATEMENTS OF FIDUCIARY NET POSITION JUNE 30, 2023 and 2022

	2023	2022
ASSETS	 	
Receivables:		
Employer Contributions	\$ 875,021	\$ 1,271,426
Member Contributions	239,399	415,099
Interest and Dividends	314,662	567,941
Due from Sale of Investments	2,478,225	1,239,514
Other	 10,261	 16,051
Total Receivables	3,917,568	3,510,031
Investments:		
Money Market	5,376,497	10,299,243
Equities	263,540,262	240,399,081
Fixed Income	147,039,274	140,305,288
Alternative Investments	153,196,294	147,213,189
Real Assets	31,833,025	24,998,727
Total Investments	600,985,352	 563,215,528
Prepaid Insurance	 24,025	 23,874
Total Assets	 604,926,945	 566,749,433
LIABILITIES		
Investment Purchased	308,363	2,376,992
Accounts Payable	340,605	233,071
Other	 _	 1,764
Total Liabilities	648,968	 2,611,827
Fiduciary Net Position Held in Trust for Pension Benefits	\$ 604,277,977	\$ 564,137,606

HOWARD COUNTY RETIREMENT PLAN STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION YEARS ENDED JUNE 30, 2023 AND 2022

	 2023	 2022
ADDITIONS:		
CONTRIBUTIONS		
Employer	\$ 16,093,684	\$ 16,347,464
Member	5,244,021	4,897,184
Total Contributions	 21,337,705	 21,244,648
INVESTMENT INCOME		
Net Change in Fair Value of Investments	36,949,200	(77,400,195)
Interest	2,140,503	1,659,615
Dividends	9,859,858	16,961,488
Other, Net	159,457	75,575
Total Investment Income (Loss)	 49,109,018	(58,703,517)
Less: Investment Expense	1,295,387	1,360,238
Net Investment Income (Loss)	 47,813,631	 (60,063,755)
Total Additions	 69,151,336	 (38,819,107)
DEDUCTIONS:		
BENEFITS		
Annuities	26,594,919	22,853,250
Death	1,148,318	335,209
Refunds of Contributions	758,776	506,540
Total Benefits	 28,502,013	 23,694,999
Administrative Expenses	 508,952	 417,236
Total Deductions	 29,010,965	 24,112,235
NET CHANGE	40,140,371	(62,931,342)
FIDUCIARY NET POSITION HELD IN TRUST FOR PENSION BENEFITS:		
Beginning of Year	 564,137,606	 627,068,948
End of Year	\$ 604,277,977	\$ 564,137,606

NOTE 1 PLAN DESCRIPTION

Plan Administration

The Howard County Retirement Plan (the Plan) is a single-employer defined benefit public employee retirement system established and administered by Howard County, Maryland (the County), to provide defined pension benefits for those County employees who do not participate in other County and State plans. The Plan was established on July 1, 1995, at which time approximately 73% of the County's employees transferred from the State Retirement and Pension Systems of Maryland to the Plan. The Plan is considered part of the County's financial reporting entity and is included in the County's financial statements as a pension trust fund. The accompanying financial statements present only the operations of the Plan and are not intended to present the financial position and results of operations of the County.

<u>Plan Membership</u>

At July 1, 2022 and 2021, the Plan's membership consisted of the following:

	2022	2021
Active	1,884	1,854
Retired and Beneficiaries	1,030	954
Disabled	18	16
Terminated Vested	244	217
Total	3,176	3,041

The Plan was established, is operated, and may be amended under the provisions of the Howard County Code, Sections 1.400 and 1.401 to 1.478. Essentially all of the County's full-time benefited and part-time benefited employees (excluding career firefighters and sworn police officers) are eligible to participate in the Plan, with exceptions provided for in Howard County Code Section 1.406. The Retirement Plan Committee established by Howard County Code Section 1.455 has full power and authority to administer and operate the Plan in accordance with its terms and in particular the authority contained in subsection 1.454(a). The Pension Oversight Commission established by Howard County Code, Section 1.482 provides ongoing assessment and evaluation of the Plan's operations.

Benefits Provided

Under the Retirement Plan, participants become vested after five years of eligibility service and are entitled to a benefit beginning at age 62. If an employee leaves employment or dies before five years of eligibility service, accumulated employee contributions plus interest are refunded to the employee or designated beneficiary. A participant who becomes totally and permanently disabled may retire prior to normal retirement and receive a benefit. Both disability and death benefits vary if incurred in the line of duty.

NOTE 1 PLAN DESCRIPTION (CONTINUED)

Benefits Provided (Continued)

Participating general employees with 30 years of eligibility service, regardless of age, or who attain the age of 62 and older, with 2 to 5 years of eligibility service (for a total of 67 years), are entitled to a normal retirement benefit. For creditable service earned prior to June 30, 2012, the benefit is 1.55% of the participant's average compensation times the participant's creditable service; for creditable service after July 1, 2012, the multiplier is 1.66%. The Plan permits early retirement for participants who attain the age of 55 with at least 15 years of Eligibility Service or have 25 years of eligibility service, regardless of age. For early retirement, the benefit is reduced by 0.5% for each month that the benefit begins prior to normal retirement date.

For participating AFSCME Local 3085 the benefit is 1.66% of the participant's average compensation times all years of creditable service.

Participating Corrections employees are entitled to receive a normal retirement benefit of 2.5% of average compensation multiplied by years of creditable service (up to 20 years) plus 1.0% of average compensation multiplied by creditable service greater than 20 years but less than 30 years (excluding sick leave, which is always credited at 1.0% of average compensation). Normal retirement is the attainment of age of 62 and older, with 2 to 5 years of eligibility service (for a total of 67 years), or the completion of 20 years of eligibility service, regardless of age.

Benefits in pay status are adjusted annually for a postretirement cost of living adjustment (COLA). The Plan uses the Consumer Price Index (CPI-U) for the Baltimore-Columbia-Towson area as published by the Bureau of Labor Statistics to calculate the change in retiree allowances each July. The maximum annual COLA is 3%.

Contributions

The Plan is authorized to establish or amend the obligation to make contributions under the provisions of Sections 1.423 and 1.465 of the Howard County Code. The Plan's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are sufficient to accumulate assets to pay benefits when due. Participant contributions are 8.5% of base pay for participating Corrections employees with less than 20 years of creditable service, 0% of base pay for participating Correction employees with greater than 20 years of creditable service and effective January 1, 2014, 3% of base pay for other participants. The County funds the remainder of the cost of employees' participation in the Plan which was 10.8% of covered payroll in fiscal year 2023 and 11.8 % in fiscal year 2022. The County contribution to the Plan is determined through an actuarial valuation performed by Bolton Partners, Inc. for each fiscal year. In fiscal years 2023 and 2022, the County contribution to the Plan were in excess of the actuarially determined contribution. This increase in contribution was adopted in order to maintain stability from year to year. Expenses incurred in the administration and operation of the Plan are funded by the Plan.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND PLAN ASSET MATTERS

Method Used to Value Investments

The Plan's investments are maintained in a combined investment pool. The Plan does not own an undivided interest in specific assets of the Pool. The investments presented by category are the Plan's proportionate share of the investments by category of the Pool and are reported at fair value. Short-term investments such as money market investments are reported at amortized cost, which approximates fair value. Securities traded on national or international exchanges are valued at the last reported sales price at current exchange rates. Securities that do not have an established market are reported at estimated fair value derived from third-party pricing services. Purchases and sales of investments are recorded on a trade date basis. The fair values of real estate investments are based on net asset values (NAV) provided by the investment managers. The fair value of non-pooled investments is determined annually and is based on current market prices. The fair value of investments in open-end mutual funds is determined based on the fund's current share price.

The Plan invests in assets measured at NAV and include private equity, private credit, hedge funds, real assets and real estate funds, which are collectively considered alternative investments. Alternative investments include interests in limited partnerships and limited liability companies invested in venture capital, private equities, and other investments. These investments are recorded based on net asset value amounts established by the respective fund managers as a practical approximation of fair value. Because alternative investments are not readily marketable, the estimated value is subject to uncertainty and, therefore, may differ materially from the amount reported.

Basis of Accounting

The Plan's financial statements are prepared using the accrual basis of accounting. Employer and employee contributions are recognized as revenue in the period in which employee services are performed and expenses and refunds are recorded when the corresponding liabilities are incurred, regardless of when payment is made. Benefits are due and payable in accordance with the benefit terms.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates that affect the reported amounts in the financial statements and accompanying notes. Actual results could differ from those estimates.

Income Taxes

The Internal Revenue Service issued a determination letter on September 30, 2016, which stated that the Plan and its underlying trust qualify under the applicable provisions of the Internal Revenue Code and therefore are exempt from Federal income taxes.

NOTE 3 INVESTMENTS

Investment Policy

The Plan's policy in regard to the allocation of invested assets is established and administered by the Retirement Plan Committee. Specific investment goals stated in the policy are reviewed at least annually and, when appropriate, new goals and standards are adopted by the Retirement Plan Committee. The policy is expected to provide diversification of assets in an effort to maximize investment return to the Plan consistent with prudent market and economic risk. All of the Plan's assets are to remain invested at all times in the asset classes as designated by the policy.

The following strategic asset allocation policy was adopted by the Plan on March 2002 and last amended on April 2023.

	larget	
Asset Class	Allocation	
Equities	42.0 %	
Fixed Income	26.0	
Alternative Investments	26.0	
Real Assets	6.0	
Total	100.0 %	

Concentrations - Fiscal Year 2023

The Plan held investments in the following organizations that represent 5% or more of the pension plan's fiduciary net position: Baillie Gifford (5%), BlackRock (8%), Blackstone (5%), Dodge and Cox (5%), LSV (7%), Magnitude (5%), Mondrian (5%), U.S. Treasury Non Refundable Index (5%), and Westfield (8%).

Concentrations - Fiscal year 2022

The Plan held investments in the following organizations that represent 5% or more of the pension plan's fiduciary net position: Baillie Gifford (5%), BlackRock (8%), Blackstone (5%), Dodge and Cox (6%), LSV (7%), Magnitude (5%), Mondrian (5%), PIMCO (6%), and Westfield (7%).

Risks and Uncertainties

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, foreign currency and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of fiduciary net position.

NOTE 3 INVESTMENTS (CONTINUED)

Risks and Uncertainties (Continued)

Interest Rate Risk

The Plan's investment policy does not place any limits on the professional investment managers with respect to the duration of investments for the Plan. The Plan's fixed income investments by maturity and type at June 30, 2023 were as follows:

Investment Type	Fair Value/ NAV	Weighted Average Maturity (in Years)
Corporate Bonds	\$ 11,874,912	13.45
U.S. Government - Sponsored Enterprises	10,650,028	25.65
Government Issued/Treasuries	3,011,392	25.70
Other Asset-Backed Securities	1,437,299	26.71
Collateralized Mortgage Obligations	1,475,537	38.81
Municipal Securities	526,828	14.28
Commingled Funds and Preferred Stock		
Identified as Fixed Income for Reporting Purposes*	118,063,278	Not Applicable
Total	\$ 147,039,274	

Portfolio Weighted Average Maturity of Available Categories

21.17

The Plan's fixed income investments by maturity and type at June 30, 2022 were as follows:

		Weighted Average
	Fair Value/	Maturity
Investment Type	NAV	(in Years)
Corporate Bonds	\$ 12,754,918	14.24
U.S. Government - Sponsored Enterprises	9,322,081	25.29
Government Issued/Treasuries	33,107,887	12.79
Other Asset-Backed Securities	1,822,826	20.23
Collateralized Mortgage Obligations	2,768,301	43.84
Municipal Securities	555,635	15.33
Interest Rate Swap	(157,403)	4.79
Commingled Funds and Preferred Stock		
Identified as Fixed Income for Reporting Purposes	 80,131,043	Not Applicable
Total	\$ 140,305,288	

Portfolio Weighted Average Maturity of Available Categories

NOTE 3 INVESTMENTS (CONTINUED)

Risks and Uncertainties (Continued)

Credit Risk

The demand deposit accounts (DDA's) held by State Street Bank are unrated, as are the mutual funds used by the plan. At fiscal year-end, the Plan's fixed income investments had the following risk characteristics in fiscal years 2023 and 2022:

	Fiscal Year 2023	
Standard & Poor's Rating or Comparable	Fair Value	
AA to A-	\$	2,902,373
BBB to BB-		10,429,483
Not Rated		133,707,418
Total	\$	147,039,274
Standard & Poor's Rating or Comparable	Fiscal Year 2022 Fair Value	
AA to A-	\$	3.693.378
	φ	-,,
BBB to BB-		11,440,001
Not Rated		125,171,909
Total	\$	140,305,288

Concentration of Credit Risk

The Plan's investment policy does not establish any limitation on the percentage that the Plan may have with any one issuer, other than to state that the Plan's assets are to be diversified in accordance with Modern Portfolio Theory. At June 30, 2023 and June 30, 2022, the Plan's investments did not exceed 5% with any one issuer other than as identified on page 16.

Custodial Credit Risk

State Street Bank invests in interest bearing DDA's in the name of the Plan for all accounts and pays interest equal to the effective Federal Funds rate, which is included in money markets on the Statements of Fiduciary Net Position. At fiscal year-end, the amount in this fund at amortized cost which approximates fair value was \$5,376,497, which was partially used for settlement of open purchases of \$308,363. All other investments of the fund are held by State Street Bank as trustee in the Plan's names.

NOTE 3 INVESTMENTS (CONTINUED)

Risks and Uncertainties (Continued)

Credit Risk - Currency Forward Contracts, Futures and Options

One of the Plan's investment objectives is to diversify assets in accordance with the Modern Portfolio Theory (MPT) in order to reduce overall risk. Consistent with this objective, the Plan invested in some funds that hold currency forward-contracts and invest in warrants,options and futures. This strategy is undertaken to protect the dollar value of underlying international investments. The Plan's share of market value/gains or losses from currency forward-contracts, warrants, options, futures and cash were (\$25,351), \$11,876, (\$84), \$168,970 and \$160,682, respectively for the fiscal year.

Derivatives - Interest Rate Swaps

In accordance with the investment policy, during fiscal year 2023, the private debt fund invested in interest rate swaps which are forward contracts between two parties to exchange or swap one stream of interest payments for another, over a set period of time. Interest rate swaps can exchange fixed or floating rates in order to reduce or increase exposure to fluctuations in interest rates. In fiscal year 2023, the private credit fund reported \$35,459 in interest rate swap and interest rate cap at market.

Foreign Currency Risk

The Plan's exposure to foreign currency risk derives from its investments in foreign currency or instruments denominated in foreign currency. Investments in such securities are limited to a maximum net currency exposure of 34.50% at any given time. These pool of assets may also include hedged assets, therefore, reducing the overall currency risk. The Plan was also exposed to foreign currency risk through the Pools investment in Euro denominated alternative investments. The Pool total of these investments was \$16,341,761 and \$15,970,464 at June 30,2023 and June 30, 2022, respectively. The Plan's proportionate share was \$6,943,708 and \$6,839,477 at June 30, 2023 and June 30, 2022, respectively.

Rate of Return

For the fiscal years ended June 30, 2023 and June 30, 2022, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, were 8.2% and (8.5%), respectively The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amount actually invested.

Investments Purchased and Due from Sales of Investments

Investment transactions are recorded on a trade plus three days or less timetable resulting in an amount due to and due from State Street Bank (the "Plan's Trustee") at year-end.

NOTE 4 FAIR VALUE MEASUREMENT

The Plan investments are reported at fair value. The Plan categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles, as follows:

- Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.
- Level 2 Inputs to the valuation methodology include: quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in inactive markets; inputs other than quoted prices that are observable for the asset or liability; inputs that are derived principally from or corroborated by observable market data by correlation of other means. If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.
- *Level 3* Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The assets or liabilities fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. The table below reflects the Plan's proportionate share of the Pool's investments by type and fair value hierarchy established by accounting principles generally accepted in the United States of America as of June 30:

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

			Fair Value Measurement Using						
	Jı	ıne 30, 2023		Quoted Prices in Active Markets for Identical Assets (Level 1)	O	Significant Ither Observable Inputs (Level 2)	ι	Significant Jnobservable Inputs (Level 3)	
Investments by Fair Value Level									
Debt Securities:									
Collateralized Mortgage Obligations							•		
(Fannie Mae and Freddie Mac and GNMA)	\$	1,475,538	\$	_	\$	1,475,538	\$	—	
Corporate Bonds		11,874,912		_		11,874,912		—	
Commingled Funds (Fixed Income)		45,728,104		23,154,988		22,573,116		—	
FHLMC and FNMA Bonds		10,650,027		_		10,650,027		—	
U.S. Treasury Securities		3,011,392		_		3,011,392		—	
Municipal Bonds		526,828		_		526,828		—	
Other Asset Backed Securities		1,437,299		-		1,437,299		—	
Preferred Stock		422,039		422,039					
Total Debt Securities		75,126,139		23,577,027		51,549,112		—	
Equity Securities:									
Common Stocks		162,473,616		162,473,616		_		—	
Emerging Market Equity Portfolio		48,203,746		48,203,746		-		—	
Real Estate Investment Trusts (REITS)		871,424		871,424		_			
Total Equity Securities		211,548,786	_	211,548,786	_	_		_	
Total Investment by Fair Value Level		286,674,925	\$	235,125,813	\$	51,549,112	\$		
Investments Measured at the Net Asset Value (NAV):									
Private Equity Funds		83,518,350							
Private Credit Funds		12,150,003							
Hedge Funds		57,527,940							
Real Assets Funds		31,833,024							
International Equity Funds		32,957,586							
Commingled Fund within intl. equities		19,033,891							
Commingled Fund within International Fixed Income		14,174,517							
Commingled Fund within Domestic Fixed Income		57,738,619							
Total Investments Measured at the NAV		308,933,930							
Total investments Measured									
at Fair Value*	\$	595,608,855							

* Net of money market funds totaling \$5,376,497 which includes securities that have remaining maturities of less than 1 year and may be measured at amortized cost.

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

			 Fair	Value	Measurement	Using	
	Jı	une 30, 2022	Quoted Prices in Active Markets for Identical Assets (Level 1)	Oth	Significant ler Observable Inputs (Level 2)	U	Significant Inobservable Inputs (Level 3)
Investments by Fair Value Level							
Debt Securities:							
Collateralized Mortgage Obligations							
(Fannie Mae, Freddie Mac and GNMA)	\$	2,768,301	\$ _	\$	2,768,301	\$	_
Corporate Bonds		12,754,918	_		12,754,918		_
Commingled Funds (Fixed Income)		43,279,938	22,179,316		21,100,622		_
FHLMC and FNMA Bonds		9,322,081	—		9,322,081		_
U.S. Treasury Securities		33,107,887	—		33,107,887		—
Short term fixed income securities		4,207,427			4,207,427		
Municipal Bonds		555,635	—		555,635		—
Other Asset Backed Securities		1,822,826	—		1,822,826		—
Preferred Stock		480,899	 480,899		_		
Total Debt Securities		108,299,912	22,660,215		85,639,697		_
Equity Securities:							
Common Stocks		150,888,303	150,888,303		—		—
Emerging Market Equity Portfolio		42,966,779	42,966,779		—		—
Real Estate Investment Trusts (REITS)		899,905	 899,905		—		—
Total Equity Securities		194,754,987	 194,754,987		—		
Total Investment by Fair Value Level		303,054,899	\$ 217,415,202	\$	85,639,697	\$	
Investments Measured at the Net Asset Value (NAV):							
Private Equity Funds		88,288,691					
Private Credit Funds		4,858,166					
Hedge Funds		54,066,333					
Real Assets Funds		24,998,727					
International Equity Funds		29,426,592					
Commingled Fund within intl. equities		16,217,503					
Commingled Fund within International Fixed Income		21,424,313					
Commingled Fund within Domestic Fixed Income		10,538,896					
Total Investments Measured at the NAV		249,819,221					
Total investments Measured							
at Fair Value*	_	552,874,120					

* Net of money market funds totaling \$10,299,243 which includes securities that have remaining maturities of less than 1 year and may be measured at amortized cost.

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

Investments Measured at Fair Value

		Fair Value Measurement Using							
		Quoted							
		Prices in							
		Active	Significant						
		Markets for	Other	Significant					
		Identical	Observable	Unobservable					
		Assets	Inputs	Inputs					
	June 30, 2022	(Level 1)	(Level 2)	(Level 3)					
Investments Derivative Instruments									
Interest Rate Swap - Long	4,358,643		4,358,643						
Interest Rate Swap - Short	(4,516,046)		(4,516,046)						
Futures - Cash Collateral	199,568		199,568						
Total Investments Derivative Instruments	\$ 42,165	-	\$ 42,165						

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

Debt and equity securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. Debt securities classified in Level 2 of the fair value hierarchy refers to securities not traded on an active market but for which observable market inputs are readily available. Fixed income securities are priced on a daily basis, market to market, using a variety of third-party pricing sources, market data and methodologies.

The valuation method for investments measured at the net asset value ("NAV") per share (or its equivalent) is presented on the following table:

	Fair Value	C	Unfunded ommitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Private Equity	\$ 83,518,350	\$	32,529,660	Illiquid	N/A
Private Credit	12,150,003		10,078,546	Illiquid	N/A
Hedge Fund 1	30,177,009		_	Quarterly	65 days
Hedge Fund 2	27,350,931		_	Semi Annually	95 days
Real Asset Funds	31,833,024		8,261,713	Illiquid	N/A
International Equity Funds	32,957,586		—	Monthly	15 days
Commingled Fund within International Equities	19,033,891		_	Weekly	3 days
Commingled Fund within International Fixed					
Income	14,174,517		_	Bi-monthly	5 days
Commingled Fund within Domestic Fixed Income	 57,738,619		—	Daily	1 day
Total	\$ 308,933,930				

Private Equity Funds

Private equity investment strategies include buyout, venture capital, growth capital, and special situations. The Private Equity portfolio seeks to deliver long-term, risk-adjusted returns superior to those of comparable public markets. Investments in the asset class are achieved primarily through commingled, closed-end funds and may also include fund of funds, direct and co-investment opportunities. Exposures are diversified by manager, region, strategy, and vintage year. Private equity investments are illiquid, and distributions are received over the life of the investments, which can range between 10 and 15 years. These investments do not have set redemption schedule; therefore options for exit are limited to sale on the secondary market. Capital commitments are made to these types of investments and funds are invested through a call down structure. The fair value of the partnership interest is based on NAV provided by the General Partner. The partnership's financial statements are audited annually as of December 31 and the NAV is adjusted quarterly by additional contributions to and losses resulting from changes in fair value, as determined by the General Partner.

Private Debt Funds

Private credit investment strategies will focus on identifying market dislocations and credit-intensive assets, specifically in loan portfolios, corporate securities, structured credit, hard assets and special opportunities. The Private Credit portfolio invests in commingled funds. The objective of the fund is to provide income from the premium yields along with a return over Liquid Credit over the life of the fund, which can range between 6 and 8 or more years. The fund employs a flexible and opportunistic mandate allowing for investments in a variety of strategies irrespective of market conditions and geographies. These investments do not have set redemption schedules therefore options for exit are limited to sale on the secondary market. Capital commitments are

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

made to these types of investments and funds are invested through a call down structure. The fair value of the partnership interest is based on NAV provided by the General Partner. The partnership's financial statements are audited annually as of December 31 and the NAV is adjusted quarterly by additional contributions to and distributions from the partnership, the net earnings and losses, and unrealized gains and losses resulting from changes in fair value, as determined by the General Partner.

Emerging Market Debt Strategy

This represents investments primarily in a globally diversified portfolio of high quality sovereign bonds and currencies in emerging markets (non U.S. issuers). The objective of this fund is to generate income, preserve capital, and enhance principal above a passive benchmark (JP Morgan GBI-EM Global Diversified Index). NAV for the Fund is only calculated twice a month on the last business day and the 15th (or next business day if the 15th is a non-business day). The ownership interest is only in the units of the Fund, not the underlying holding or securities of the Fund.

Hedge Funds

This represents investments in two Hedge FOF managers. Each FOF manager invests in underlying hedge funds to provide a broadly diversified portfolio. One invests with 10-20 underlying managers/funds to execute its global market strategy. The other invests in 20-40 underlying managers/funds in a relative value mandate. The hedge fund strategy is designed to diversify by manager/fund to reduce single manager/fund risk while offering portfolio diversification and provide a return profile that is uncorrelated to the rest of the assets in the portfolio. The fair values of the investments are determined using the NAV per share (or its equivalent) of the investments. These funds have liquidity restrictions of 3 to 6 months.

Real Assets Strategies

This represents funds that invest in Private Real Estate and Private Real Assets. The objective of the portfolio seeks to provide portfolio diversification, current income, and protection against unanticipated inflation. Real Estate investments are often classified by core or non-core (value-added or opportunistic). The Real Estate strategies deployed include a U.S. focused property strategy (core/core plus) and a global Fund of Funds (FOF) strategy. The global FOF manager invests across Directs, Primaries, and Within Private Real assets, the natural resources investments are Secondaries. deployed through a FOF strategy and may invest in 10-25 underlying relationships as they build a diversified portfolio with exposure to oil, natural gas, agriculture, timber, and other natural resources. The infrastructure managers will invest in direct portfolio companies in communications, transportations, and energy transition sectors. Capital commitments are made to these types of investments and funds are invested through a call down structure. These funds have liquidity restrictions for the life of the investment, 7-10 years. Options for exit are limited to sale on the secondary market. The fair value of the partnership interest is based on NAV provided by the General Partner. The partnership's financial statements are audited annually as of December 31 and the NAV is adjusted quarterly by additional contributions to and distributions from the partnership, the net earnings and losses, and unrealized gains and losses resulting from changes in fair value, as determined by the General Partner.

International Emerging Equities

This represents investments within international markets to further diversify the developed market segments by investing in developing markets that have lower correlations with developed economies. The managers implemented are complimentary as one focuses on growth-oriented companies and the other has a value focus. Foreign

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

securities are valued on the basis of quotations from the primary market in which they are traded and translated at each valuation date from the local currency into U.S. dollars using current exchange rates. The Funds may enter into forward foreign currency exchange contracts primarily to hedge against foreign currency exchange rate risks on its non-U.S. dollar-denominated investment securities. The objective of the international emerging equity portfolio is to achieve a long-term return above a passive benchmark (MSCI EM Index).

International Developed Equity Strategies

This represents investments primarily in equity securities of international developed markets (non-U.S. issuers) with the objective of achieving a long-term return above a passive benchmark (MSCI EAFE). The managers implemented are complimentary as one focuses on growth oriented companies and the other has a value focus. Foreign securities are valued on the basis of quotations from the primary market in which they are traded and translated at each valuation date from the local currency into U.S. dollars using current exchange rates. The Funds may enter into forward foreign currency exchange contracts primarily to hedge against foreign currency exchange rate risks on its non-U.S. dollar-denominated investment securities.

Core Fixed Income Strategies

This represents investments within U.S. Investment Grade Fixed Income. The primary role of this portfolio is intended to provide income and downside protection to the portfolio in periods of financial market stress. Core fixed income is made up of U.S. Treasuries and liquid credit. The primary role of the U.S. Treasuries portfolio is to provide capital preservation, liquidity, and to increase the diversification of the Plan as a whole. Treasuries and TIPS are passively managed. The primary role of the Liquid Credit strategy is to generate added yield compared to Treasuries over a full market cycle and provide diversification for the Plan. This manager will be well diversified, and may include, but is not limited to, investment grade and non-investment grade corporate debt, emerging market debt, and asset-backed securities. The objective of the Core Fixed Income portfolio is to achieve a long-term return above a passive benchmark (Bloomberg U.S. Aggregate Bond Index).

Absolute Return Strategy

This represents an investment that has an unconstrained nature allowing for broad implementation across global fixed income markets and includes allocations to global interest rates, global credit sectors, securitized assets, emerging market debt, foreign currencies, and derivative markets. In addition, this strategy is a best-ideas and has emphasis on income and downside protection, with little interest rate exposures. The objective of the strategy is to provide a diverse composite of global exposures and targets a return above the 90 Day U.S. Treasury Bill.

High Yield Bond Strategy

This represents a High Yield bond managers that will invest in below investment grade debt instruments issued by domestic corporations. Because of the perceived greater risk of default, these bonds pay a higher yield than investment grade corporate debt. In order to add alpha or reduce volatility, this strategy will invest a small piece of the portfolio in bank loans, which are floating rate securities that typically carry a below investment grade rating. Other non-benchmark sectors may include convertible bonds, preferred equity, and investment grade corporate. The objective of the strategy is to achieve a long-term return above a passive benchmark (ICE BofA High Yield Master II Constrained).

NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED

U.S. Equity Strategies

This represents Investment strategies that provide broad diversified exposure to the U.S. equity market, in both large and small cap market segments, as well as diversified exposure to different style segments (growth and value). U.S. equity strategies are implemented with passive and active managers. The objective of the US equity portfolio is to achieve a long-term return above a passive benchmark (Russell 3000 Index).

NOTE 5 DEFERRED RETIREMENT OPTION PROGRAM

The Plan offers a program called Deferred Retirement Option Plan (DROP) to Corrections employees. This is a voluntary benefit program which offers qualified active Participants, who would be entitled to retire and receive benefits, the option to continue working. An individual DROP record is created and is credited with the monthly retirement benefits that would have been paid during the DROP period had the participant actually retired. The record is also credited with interest. The DROP record is paid to the employee, in addition to the benefit payment entitled under the defined benefit plan based on the earlier years of service, when the employee eventually retires. Participating members may elect distribution as one lump sum payment, a rollover or in monthly payments. The balance held by the Plan as of June 30, 2023 and 2022 was \$467,384 and \$174,089, respectively.

NOTE 6 NET PENSION (ASSET) LIABILITY OF THE COUNTY

The components of the net pension (asset) liability of the County at June 30 were as follows:

	 2023	 2022
Total Pension Liability	\$ 676,364,352	\$ 614,805,127
Plan Fiduciary Net Position	 (604,277,977)	 (564,137,606)
County's Net Pension (Asset) Liability	\$ 72,086,375	\$ 50,667,521
Plan Fiduciary Net Position as a Percentage of the Total Pension (Asset) Liability	 89.34 %	91.76 %

Actuarial Assumptions

The total pension liability in the July 1, 2022 actuarial valuation rolled forward to June 30, 2023 was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.50%
Salary Increases	Varies by service, 3.75% to 6.25%, including inflation for corrections employees and 3.75% to 6.30% including inflation for all other employees.
Investment Rate of Return	7.25%, net of pension plan investment expense, including inflation
Mortality	Corrections and deputy sheriff employees: Pub-2010 Safety Employees/Retirees/Disabled/ Contingent Survivors Amount-Weighted Mortality with generational projection from the 2010 base year using scale MP-2021. All other employees: Pub 2010 General Employees/Retirees/Disabled/ Contingent Survivors Amount -Weighted Mortality with generational projection from the 2010 base year using scale MP-2021.

The actuarial assumptions used in this valuation, for GASB 67 purposes, were generally based on the 2022 Experience Study covering the period from July 1, 2017 through June 30, 2021. Economic assumptions and the demographic assumptions were updated to reflect the 2017-2021 experience study.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and estimate of arithmetic real rates of return for each major asset class are reviewed no less frequently than every four years.

NOTE 6 NET PENSION LIABILITY OF THE COUNTY (CONTINUED)

Best estimates of geometric real rates of return for each major asset class, included in the Plan's target allocation as of June 30, 2023 (see Note 3), are summarized in the following table:

	Long-Term
	Expected Real
Asset Class	Rate of Return
Equities	4.87%
Fixed Income	3.06%
Alternative Investments	6.75%
Real Assets	4.35%

Discount Rate

The discount rate used to measure the total pension liability was 7.25% for the fiscal years ended June 30, 2023 and 2022. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that the County contributions will be made at rates equal to the difference between total actuarially determined contribution rates and the employee rate. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

NOTE 6 NET PENSION LIABILITY OF THE COUNTY (CONTINUED)

Sensitivity of the Net Pension Liability (Asset) to Changes in the Discount Rate

As of June 30, 2023:

The following presents the net pension liability (asset) of the County, calculated using the discount rate of 7.25%, as well as what the County's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.25%) or 1 percentage point higher (8.25%) than the current rate:

	1%		Current	1%
	Decrease	D	iscount Rate	Increase
	 (6.25%)		(7.25%)	(8.25%)
County's Net Pension Liability/(Asset)	\$ 160,808,393	\$	72,086,375	\$ (1,955,725)

As of June 30, 2022:

The following presents the net pension liability (asset) of the County, calculated using the discount rate of 7.25%, as well as what the County's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.25%) or 1 percentage point higher (8.25%) than the current rate:

ase Discount Rate	Increase
	moreace
%) (7.25%)	(8.25%)
02 981 \$ 50 667 521	\$ (16,763,387)
	%) (7.25%) 02,981 \$ 50,667,521

HOWARD COUNTY RETIREMENT PLAN REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF CHANGES IN THE COUNTY'S NET PENSION LIABILITY AND RELATED RATIOS LAST 10 FISCAL YEARS (SEE INDEPENDENT AUDITORS' REPORT)

		2023		2022		2021		2020		2019		2018		2017		2016		2015		2014
TOTAL PENSION LIABILITY																				
Service Cost	\$	19,785	\$	19,363	\$	19,359	\$	18,342	\$	17,330	\$	16,919	\$	15,861	\$	15,093	\$	14,073	\$	12,727
Interest		43,540		40,899		39,129		37,417		34,964		32,786		30,959		29,046		27,198		24,974
Changes of Benefit Terms		—		(384)		—		—		_		—		—		—		—		3,534
Differences Between Expected and Actual		19,699																		
Experience		—		926		(5,043)		(9,115)		(5,973)		379		(6,369)		(4,093)		(2,741)		_
Changes of Assumptions		7,037		1,718		785		743		9,529		—		—		—		(851)		10,918
Benefit Payments, Including Refunds of																				
Member Contributions		(28,502)		(23,694)		(21,238)		(20,067)		(19,013)		(16,809)		(15,379)		(13,700)		(12,375)		(11,139)
Net Change in Total Pension Liability		61,559		38,828		32,992		27,320		36,837		33,275		25,072		26,346		25,304		41,014
Total Pension Liability - Beginning		614,805		575,977		542,985		515,665		478,828		445,553		420,481		394,135		368,831		327,817
Total Pension Liability - Ending (a)	\$	676,364	\$	614,805	\$	575,977	\$	542,985	\$	515,665	\$	478,828	\$	445,553	\$	420,481	\$	394,135	\$	368,831
PLAN FIDUCIARY NET POSITION	¢	40.004	¢	40.047	¢	45.000	¢	45.004	¢		¢	44.044	¢	44.470	¢	40,400	¢	40.007	¢	40 770
Contributions - Employer	\$	16,094 5,244	\$	16,347	\$	15,889	\$	15,034	\$	14,155	\$	14,841	\$	14,179	\$	13,428	\$	13,967	\$	12,778
Contributions - Member		,		4,897		4,857		4,749		4,378		4,156		3,904		3,757		3,573		2,979
Net Investment Income		47,814		(60,064)		133,778		16,691		31,355		35,808		45,447		4,743		9,983		45,956
Benefit Payments, Including Refunds of		(00 500)		(00.005)		(04.000)		(00.007)		(40.040)		(40,000)		(45.070)		(40,700)		(40.075)		(44,400)
Member Contributions		(28,502)		(23,695)		(21,238)		(20,067)		(19,012)		(16,809)		(15,379)		(13,700)		(12,375)		(11,139)
Administrative Expense		(509)		(417)		(424)		(397)		(439)		(351)		(336)		(341)		(311)		(283)
Net Change in Plan Fiduciary Net Position		40,141		(62,932)		132,862		16,010		30,437		37,645		47,815		7,887		14,837		50,291
Plan Fiduciary Net Position - Beginning	¢	564,137	¢	627,069		494,207		478,197	_	447,760		410,115	<u>_</u>	362,300		354,413		339,576		289,285
Plan Fiduciary Net Position - Ending (b)	þ	604,278	\$	564,137	\$	627,069	\$	494,207	\$	478,197	\$	447,760	\$	410,115	\$	362,300	\$	354,413	\$	339,576
County's Net Pension (Asset)/ Liability - Ending (a)-(b)	\$	72,086	\$	50,668	\$	(51,092)	\$	48,778	\$	37,468	\$	31,068	\$	35,438	\$	58,181	\$	39,722	\$	29,255
Plan Fiduciary Net Position as a Percentage																				
of the Total Pension (Asset)/ Liability		89.34 %		91.76 %		108.87 %		91.02 %		92.73 %		93.51 %		92.05 %		86.16 %		89.92 %		92.07 %
Covered Payroll	\$	149,016	\$	138,538	\$	134,649	\$	129,605	\$	123,090	\$	119,686	\$	114,349	\$	108,292	\$	103,462	\$	97,542
County's Net Pension (Asset)/ Liability as a Percentage of Covered Payroll		48.37 %		36.57 %		(37.94)%		37.64 %		30.44 %		25.96 %		30.99 %		53.73 %		38.39 %		29.99 %
Expected Average Remaining Service Years of all Participants		7		7		7		7		7		7		7		7		7		7

Notes to Schedule:

Changes of assumptions: Pursuant to the most recent Experience Study dated September 15, 2022, the salary increases for correctional officers, base mortality and mortality improvement, retirement rates, termination rates, disability rates for all other employees (non-correctional), and marriage assumptions were changed.

Benefit Changes: None

HOWARD COUNTY RETIREMENT PLAN REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF COUNTY CONTRIBUTIONS (DOLLAR AMOUNTS IN THOUSANDS) LAST 10 FISCAL YEARS (SEE INDEPENDENT AUDITORS' REPORT)

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Actuarially Determined Contribution1 Contributions in Relation to the Actuarially	\$ 14,455	\$ 16,208	\$ 15,889	\$ 15,034	\$ 14,155	\$ 14,003	\$ 13,265	\$ 13,428	\$ 13,967	\$ 12,778
Determined Contribution	16,094	16,347	15,889	15,034	14,155	14,841	14,179	13,428	13,967	12,778
Contribution Deficiency (Excess)	\$ (1,639)	\$ (139)	\$ —	\$	\$	\$ (838)	\$ (914)	\$	\$ —	\$
Covered Payroll	\$ 149,016	\$ 138,538	\$ 134,649	\$ 129,605	\$ 123,090	\$ 119,685	\$ 114,349	\$ 108,292	\$ 103,462	\$ 97,542
Contributions as a Percentage of Covered Payroll	10.80 %	% 11.80 %	5 11.80 %	11.60 %	11.50 %	12.40 %	12.40 %	12.40 %	5 13.50 %	13.10 %

¹ ADC rates for FY 23 was 9.7%, for FY 22 and FY18 were 11.7% & for FY 17 was 11.6%.

Notes to Schedule

Valuation Date and Actuarial Assumptions:

The actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July1).for the fiscal year immediately following the current fiscal year. Actuarial valuations are performed every year. The assumptions shown below are those used in the 7/1/2021 actuarial valuation to calculate the FY 2023 ADC. Assumptions used to determine all contributions in the past may not have been the same.

Actuarial Cost Method	Projected Unit Credit
Amortization Method	Open amortization for surplus using level percent of pay, increasing 2.75% per year
Remaining Amortization Period	Surplus amortization base is 30 year.
Asset Valuation Method	5-year smoothed market
Inflation	2.50%
Salary Increases	Varies by service for Corrections employees and all other employees: Corrections: 4.00% to 6.50%, including inflation and all others: 3.75% to 6.30%, including inflation
Investment Rate of Return	7.25%, net of pension plan investment expense, including inflation
Retirement Age	Rates vary by participant age and service
Mortality	RP-2014 Combined Healthy tables with generational projection
	from 2006 base year using scale MP-2017
Cost of Living Increases	2.50%

HOWARD COUNTY RETIREMENT PLAN REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF INVESTMENT RETURNS LAST 10 FISCAL YEARS (SEE INDEPENDENT AUDITORS' REPORT)

Fiscal Year Ending	Annual Money- Weighted Rate of Return, Net of Investment Expenses
6/30/2023	8.20 %
6/30/2022	(8.50)%
6/30/2021	25.92 %
6/30/2020	4.10 %
6/30/2019	7.50 %
6/30/2018	8.55 %
6/30/2017	12.18 %
6/30/2016	1.38 %
6/30/2015	2.95 %
6/30/2014	15.62 %