# HOWARD COUNTY POLICE AND FIRE EMPLOYEES' RETIREMENT PLAN

# FINANCIAL STATEMENTS AND REQUIRED SUPPLEMENTARY INFORMATION

**YEARS ENDED JUNE 30, 2021 AND 2020** 

# HOWARD COUNTY POLICE AND FIRE EMPLOYEES' RETIREMENT PLAN TABLE OF CONTENTS YEARS ENDED JUNE 30, 2021 AND 2020

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#### INDEPENDENT AUDITORS' REPORT

Retirement Plan Committee Howard County Police and Fire Employee's Retirement Plan Howard County, Maryland

#### **Report on the Financial Statements**

We have audited the accompanying financial statements of Howard County Police and Fire Employee's Retirement Plan (the Plan) as of and for the year ended June 30, 2021 and 2020, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements as listed in the table of contents.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

#### Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements 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 entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.



# **Opinions**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Plan as of June 30, 2021 and 2020, and the changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### Other Matters

## Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management Discussion and Analysis (MD&A) on pages 3 through 9, Schedule of Changes in the County's Net Pension Liability and Related Ratio's, the Schedule of County Contributions, and the Schedule of Investment Returns on pages 26 through 28 be presented to supplement the basic financial statements. Such information, 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 auditing standards generally accepted in the United States of America, 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 10, 2021, 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.

CliftonLarsonAllen LLP

Clifton Larson Allen LLP

Baltimore, Maryland November 10, 2021

#### Introduction

The Howard County Police and Fire Employees' 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 Police and Fire 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**

	07/01/20	07/01/19	07/01/18
Active	947	929	900
Retired and beneficiaries	430	389	370
Disabled	35	36	34
Terminated vested	26	22	18
Total	1438	1376	1322

# **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, 2021, the net position was \$825.8 million, as compared to \$648.9 million at June 30, 2020. The increase in net position of \$176.9 million was attributable to the combination of manager selection and risk assets performing well as the markets have been responding to the COVID-19 vaccine rollout and support from monetary and fiscal interventions.

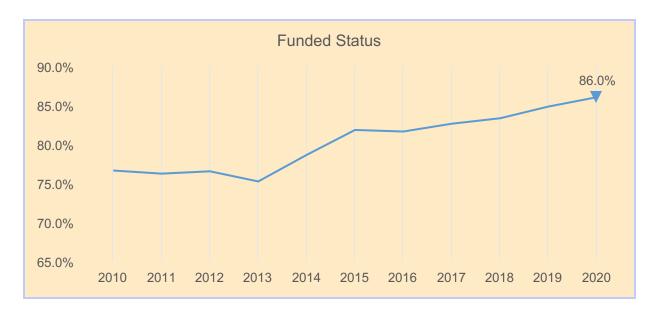
	Fiscal Year*					
		2021		2020		2019
Contributions	\$	40.30	\$	39.29	\$	35.84
Benefit payments	\$	34.63	\$	34.32	\$	27.57
Contribution rates		35.40 %		35.40 %		33.10 %
# of benefit recipients		485		456		424

<sup>\*</sup>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 86.0% and 84.8% as of July 1, 2020 and July 1, 2019, 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, 2021 with comparative information as of and for the year ended June 30, 2020 and June 30, 2019. 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 payment 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)**

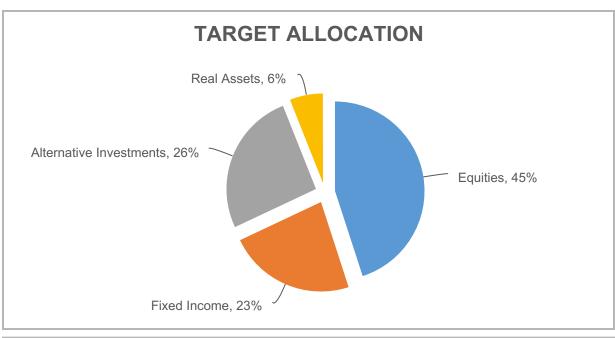
The RSI section provides actuarially determined information about the Plan and displays changes for the Plan's Net Pension Liability (NPL) and related ratios, contributions related to payrolls by the Plan, and money-weighted investment returns.

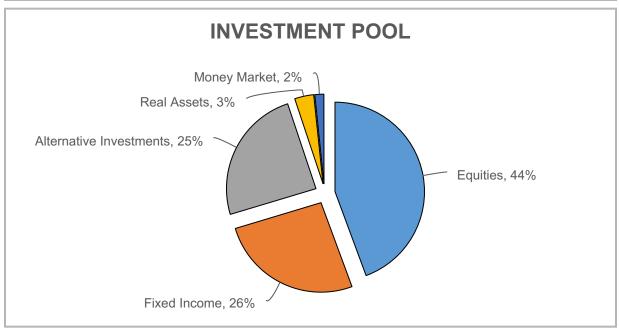
The following Condensed Statements of Fiduciary Net Position and Changes in Fiduciary Net Position present financial information for the Plan and compares fiscal years 2021, 2020, and 2019.

Assets         2021         2020         2019         Change         Change           Receivables         \$ 8,566,776         \$ 3,366,415         \$ 2,990,656         154%         13%           Investments         824,938,334         647,124,282         619,810,895         27%         4%           Prepaid Insurance         27,341         24,071         24,071         14%         -%           Total Assets         833,532,451         650,514,768         622,825,622         28%         4%           Liabilities           Investment Purchased         7,360,135         1,184,365         3,081,835         521%         (62)%           Accounts Payable         338,603         453,370         385,354         (25)%         18%           Accounts Poyable         338,603         453,370         385,354         (25)%         18%           Accounts Payable         338,603         453,370         385,354         (25)%         18%           Proposition Held in Trust         for Pension Benefits         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Employee Contributions         \$ 31,923,458         \$ 3,1105,248         \$ 27,719,839         3%         12% <t< th=""><th></th><th></th><th></th><th></th><th></th><th>2021 Percentage</th><th>2020 Percentage</th></t<>						2021 Percentage	2020 Percentage
Investments   824,938,334   647,124,282   619,810,895   27%   4%	Assets		2021	2020	2019	Change	Change
Prepaid Insurance         27,341         24,071         24,071         14%         —%           Total Assets         833,532,451         650,514,768         622,825,622         28%         4%           Liabilities           Investment Purchased         7,360,135         1,184,365         3,081,835         521%         (62)%           Accounts Payable         338,603         453,370         385,354         (25)%         18%           Total Liabilities         7,698,738         1,637,735         3,467,189         370%         (53)%           Net Position Held in Trust for Pension Benefits         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Additions           Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Investment Income         171,694,798         24,964,140         39,639,186         58%         (37)%           Total Additions         34,634,301	Receivables	\$	8,566,776	\$ 3,366,415	\$ 2,990,656	154%	13%
Liabilities         Liabilities         Example (Example 1)         650,514,768         622,825,622         28%         4%           Liabilities         Investment Purchased         7,360,135         1,184,365         3,081,835         521%         (62)%           Accounts Payable         338,603         453,370         385,354         (25)%         18%           Total Liabilities         7,698,738         1,637,735         3,467,189         370%         (53)%           Net Position Held in Trust for Pension Benefits         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Additions         Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employee Contributions         8,373,851         8,183,867         8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative E	Investments		824,938,334	647,124,282	619,810,895	27%	4%
Liabilities           Investment Purchased         7,360,135         1,184,365         3,081,835         521%         (62)%           Accounts Payable         338,603         453,370         385,354         (25)%         18%           Total Liabilities         7,698,738         1,637,735         3,467,189         370%         (53)%           Net Position Held in Trust for Pension Benefits         \$825,833,713         648,877,033         619,358,433         27%         5%           Additions           Employer Contributions         \$31,923,458         \$31,105,248         \$27,719,839         3%         12%           Employee Contributions         8,373,851         8,183,867         8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           <	Prepaid Insurance		27,341	24,071	24,071	14%	<b>-</b> %
Investment Purchased	Total Assets		833,532,451	650,514,768	622,825,622	28%	4%
Accounts Payable         338,603         453,370         385,354         (25)%         18%           Total Liabilities         7,698,738         1,637,735         3,467,189         370%         (53)%           Net Position Held in Trust for Pension Benefits         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Additions         Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employer Contributions         8,373,851         8,183,867         8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions         8         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)% <td>Liabilities</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Liabilities						
Total Liabilities 7,698,738 1,637,735 3,467,189 370% (53)% Net Position Held in Trust for Pension Benefits \$825,833,713 \$648,877,033 \$619,358,433 27% 5%    Additions  Employer Contributions \$31,923,458 \$31,105,248 \$27,719,839 3% 12% Employee Contributions 8,373,851 8,183,867 8,124,859 2% 1% Investment Income 171,694,798 24,964,140 39,639,186 588% (37)% Total Additions 211,992,107 64,253,255 75,483,884 230% (15)%    Deductions  Benefit Payments and Refunds 34,634,301 34,321,194 27,571,300 1% 24% Administrative Expense 401,126 413,461 456,187 (3)% (9)% Total Deductions 35,035,427 34,734,655 28,027,487 1% 24%    Net Change 176,956,680 29,518,600 47,456,397 499% (38)%    Net Position Held in Trust for Pension Benefits: Beginning of Year 648,877,033 619,358,433 571,902,036 5% 8%	Investment Purchased		7,360,135	1,184,365	3,081,835	521%	(62)%
Net Position Held in Trust for Pension Benefits         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Additions         Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employee Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employee Contributions         \$ 8,373,851         \$ 8,183,867         \$ 8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits: <t< td=""><td>Accounts Payable</td><td></td><td>338,603</td><td>453,370</td><td>385,354</td><td>(25)%</td><td></td></t<>	Accounts Payable		338,603	453,370	385,354	(25)%	
Additions         \$ 825,833,713         \$ 648,877,033         \$ 619,358,433         27%         5%           Additions         Employer Contributions         \$ 31,923,458         \$ 31,105,248         \$ 27,719,839         3%         12%           Employee Contributions         8,373,851         8,183,867         8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         Beginning of Year         648,877,033         619,358,433         571,902,036         5%         8%	Total Liabilities		7,698,738	1,637,735	3,467,189	370%	(53)%
Additions         Employer Contributions       \$ 31,923,458 \$ 31,105,248 \$ 27,719,839 \$ 3% 12%         Employee Contributions       8,373,851 \$ 8,183,867 \$ 8,124,859 \$ 2% 1%         Investment Income       171,694,798 24,964,140 39,639,186 588% (37)%         Total Additions       211,992,107 64,253,255 75,483,884 230% (15)%         Deductions         Benefit Payments and Refunds       34,634,301 34,321,194 27,571,300 1% 24%         Administrative Expense       401,126 413,461 456,187 (3)% (9)%         Total Deductions       35,035,427 34,734,655 28,027,487 1% 24%         Net Change       176,956,680 29,518,600 47,456,397 499% (38)%         Net Position Held in Trust for Pension Benefits:       Beginning of Year       648,877,033 619,358,433 571,902,036 5% 8%	Net Position Held in Trust						
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Employee Contributions         8,373,851         8,183,867         8,124,859         2%         1%           Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         Beginning of Year         648,877,033         619,358,433         571,902,036         5%         8%	Additions						
Investment Income         171,694,798         24,964,140         39,639,186         588%         (37)%           Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         648,877,033         619,358,433         571,902,036         5%         8%	Employer Contributions	\$	31,923,458	\$ 31,105,248	\$ 27,719,839	3%	12%
Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         Beginning of Year         648,877,033         619,358,433         571,902,036         5%         8%	Employee Contributions			8,183,867	8,124,859	2%	1%
Total Additions         211,992,107         64,253,255         75,483,884         230%         (15)%           Deductions           Benefit Payments and Refunds         34,634,301         34,321,194         27,571,300         1%         24%           Administrative Expense         401,126         413,461         456,187         (3)%         (9)%           Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         Beginning of Year         648,877,033         619,358,433         571,902,036         5%         8%	Investment Income		171,694,798	24,964,140	39,639,186	588%	(37)%
Benefit Payments and Refunds       34,634,301       34,321,194       27,571,300       1%       24%         Administrative Expense       401,126       413,461       456,187       (3)%       (9)%         Total Deductions       35,035,427       34,734,655       28,027,487       1%       24%         Net Change       176,956,680       29,518,600       47,456,397       499%       (38)%         Net Position Held in Trust for Pension Benefits:       Beginning of Year       648,877,033       619,358,433       571,902,036       5%       8%	Total Additions	-	211,992,107	64,253,255	75,483,884	230%	
Administrative Expense       401,126       413,461       456,187       (3)%       (9)%         Total Deductions       35,035,427       34,734,655       28,027,487       1%       24%         Net Change       176,956,680       29,518,600       47,456,397       499%       (38)%         Net Position Held in Trust for Pension Benefits:       88       88         Beginning of Year       648,877,033       619,358,433       571,902,036       5%       8%	Deductions						
Total Deductions         35,035,427         34,734,655         28,027,487         1%         24%           Net Change         176,956,680         29,518,600         47,456,397         499%         (38)%           Net Position Held in Trust for Pension Benefits:         886         886         648,877,033         619,358,433         571,902,036         5%         8%	Benefit Payments and Refunds		34,634,301	34,321,194	27,571,300	1%	24%
Net Change       176,956,680       29,518,600       47,456,397       499%       (38)%         Net Position Held in Trust for Pension Benefits:       886       648,877,033       619,358,433       571,902,036       5%       8%	Administrative Expense		401,126	413,461	456,187	(3)%	(9)%
Net Position Held in Trust         for Pension Benefits:         Beginning of Year       648,877,033       619,358,433       571,902,036       5%       8%	Total Deductions		35,035,427	34,734,655	28,027,487	1%	24%
for Pension Benefits:  Beginning of Year 648,877,033 619,358,433 571,902,036 5% 8%	Net Change		176,956,680	29,518,600	47,456,397	499%	(38)%
Beginning of Year 648,877,033 619,358,433 571,902,036 5% 8%	Net Position Held in Trust						
<u> </u>	for Pension Benefits:						
End of Year \$ 825,833,713 \$ 648,877,033 \$ 619,358,433 27% 5%	Beginning of Year		648,877,033	619,358,433	571,902,036	5%	8%
	End of Year	\$	825,833,713	\$ 648,877,033	\$ 619,358,433	27%	5%

#### **Investments**

Investments consist of US 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.

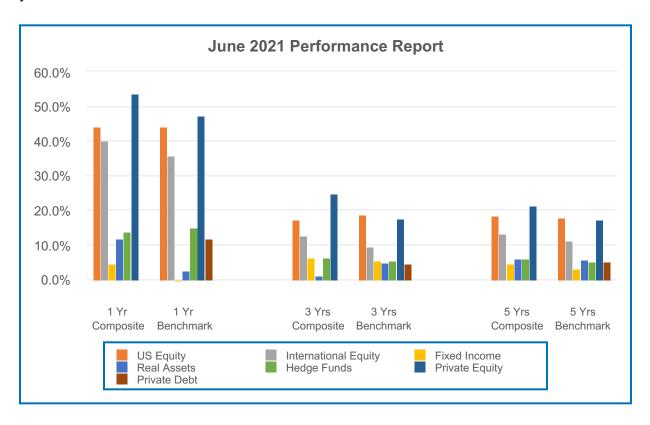




LONG TERM EXPECTED RATE OF RETURN			
Equities	4.60 %		
Fixed Income	2.20 %		
Alternative Investments	6.00 %		
Real Assets	5.10 %		

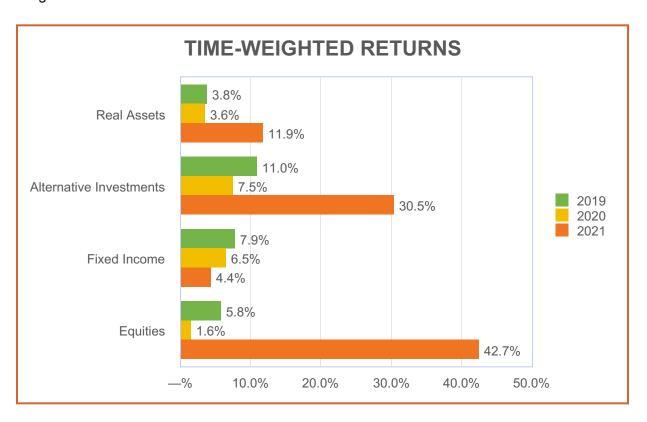
# **Investment Performance Summary**

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 at www.howardcountymd.gov/Departments/Finance/Financial-Information/Audit-Information.

# HOWARD COUNTY POLICE AND FIRE EMPLOYEES' RETIREMENT PLAN STATEMENTS OF IN FIDUCIARY NET POSITION YEARS ENDED JUNE 30, 2021 AND 2020

	2021	2020
ASSETS	 	_
Receivables:		
Employer Contributions	\$ 2,133,167	\$ 1,962,266
Member Contributions	556,883	516,661
Interest and Dividends	513,893	607,988
Due from Sale of Investments	5,350,251	266,964
Other	 12,582	12,536
Total Receivables	8,566,776	3,366,415
Investments:		
Money Market	13,627,183	15,721,518
Equities	366,041,127	251,320,810
Fixed Income	214,423,607	195,682,778
Alternative Investments	202,300,101	159,882,515
Real Assets	28,546,316	24,516,661
Total Investments	824,938,334	647,124,282
Prepaid Insurance	 27,341	 24,071
Total Assets	 833,532,451	 650,514,768
LIABILITIES		
Investment Purchases	7,360,135	1,184,365
Accounts Payable	338,603	453,370
Total Liabilities	7,698,738	1,637,735
Fiduciary Net Position Held in Trust for Pension Benefits	\$ 825,833,713	\$ 648,877,033

# HOWARD COUNTY POLICE AND FIRE EMPLOYEES' RETIREMENT PLAN STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION YEARS ENDED JUNE 30, 2021 AND 2020

	2021	2020
ADDITIONS:		
CONTRIBUTIONS		
Employer	\$ 31,923,458	\$ 31,105,248
Member	8,373,851	8,183,867
Total Contributions	40,297,309	39,289,115
INVESTMENT INCOME		
Net Appreciation in Fair Value of Investments	147,433,789	10,608,211
Interest	2,127,877	2,767,142
Dividends	23,842,241	13,190,515
Other, Net	26,011	65,121
Total Investment Income	173,429,918	26,630,989
Less: Investment Expense	1,735,120	1,666,849
Net Investment Income	171,694,798	24,964,140
Total Additions	211,992,107	64,253,255
DEDUCTIONS:		
BENEFITS		
Annuities	34,161,643	33,784,301
Death	_	347,620
Refunds of Contributions	472,658	189,273
Total Benefits	34,634,301	34,321,194
ADMINISTRATIVE EXPENSES	401,126	413,461
Total Deductions	35,035,427	34,734,655
NET CHANGE	176,956,680	29,518,600
FIDUCIARY NET POSITION HELD IN TRUST FOR PENSION BENEFITS:		
Beginning of Year	648,877,033	619,358,433
End of Year	\$ 825,833,713	\$ 648,877,033

#### NOTE 1 PLAN DESCRIPTION

## **Plan Administration**

The Howard County Police and Fire Employees' Retirement Plan (the Plan) is a single-employer defined benefit public employee retirement system established and administered by Howard County (the County), Maryland, to provide defined pension benefits for career firefighters and sworn police officers. 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.

#### Plan Membership

At July 1, 2020 and 2019, the Plan's membership consisted of the following:

	2020	2019
Active	947	929
Retired and Beneficiaries	430	389
Disabled	35	36
Terminated Vested	26	22
Total	1,438	1,376

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

#### **Benefits Provided**

All of the County's full-time career police and fire officers hired on or after July 1, 1990 must enroll in the Police and Fire Plan. The Plan provides retirement benefits as well as death and disability benefits and cost-of-living adjustments.

Participants become vested after 5 years of eligibility service and are entitled to a benefit beginning at age 62. Terminated vested employees with less than 20 years of service will receive a benefit equal to 2.5% of average compensation times the number of years of creditable service, payable at age 62. If an employee leaves employment or dies before 5 years of eligibility service, accumulated employee contributions plus interest are refunded to the employee or the 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)**

Employees who attain the age of 62 with at least 5 years of eligibility service and employees who have completed 20 years of eligibility service, if at least 10 years were served as a covered employee, are entitled to a normal retirement benefit. The amount will vary, based on the number of years of creditable service, from 50% (with 20 years of service) to 80% (with 30 years of service) of average compensation for police; and from 50% (with 20 years of service) to 70% (with 30 years of service) of average compensation for firefighters.

Benefits in pay status are adjusted annually for a post retirement 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 2%.

### **Contributions**

The Plan is authorized to establish or amend the obligations to make contributions under the provisions of the Howard County Code, Sections 1.423A and 1.465A. 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 adequate assets to pay benefits when due. Participant contributions are 11.6% of base pay for participating Police Department Employees and 7.7% of base pay for participating Fire and Rescue Department Employees. The County funds the remainder of the cost of employees' participation in the Plan, which was 35.4% of covered payroll in fiscal years 2021 and 2020. The County contribution to the Plan is determined through an actuarial valuation performed by Bolton Partners, Inc. for each fiscal year. In fiscal year 2021, the County contribution to the Plan was 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 a 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.

# NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND PLAN ASSET MATTERS (CONTINUED)

#### Method Used to Value Investments (Continued)

The Plan invests in assets measured at NAV and include private equity, equity hedge, real assets and international equity 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 28, 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.

# NOTE 3 INVESTMENTS (CONTINUED)

# **Investment Policy (Continued)**

The following strategic asset allocation policy was adopted by the Plan on March 21, 2002, last amended on April 29, 2021 and remained in effect as of June 30, 2021:

	Target
Asset Class	Allocation
Equities	45.0 %
Fixed Income	23.0
Alternative Investments	26.0
Real Assets	6.0
Total	100.0 %

#### **Concentrations**

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 (9%), LSV (7%), Magnitude (5%), Mondrian (5%), PIMCO (9%), and Westfield (9%).

#### **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, 2021 were as follows:

		Weighted Average
	Fair Value/	Maturity
Investment Type	NAV	(in Years)
Corporate Bonds	\$ 26,799,984	14.15
U.S. Government - Sponsored Enterprises	19,404,251	26.00
Government Issued/Treasuries	14,101,236	6.64
Other Asset-Backed Securities	3,082,150	21.12
Collateralized Mortgage Obligations	4,784,028	44.26
Municipal Securities	1,180,071	14.72
Commingled Funds and Preferred Stock		
Identified as Fixed Income for Reporting Purposes	145,071,887	Not Available
Total	\$ 214,423,607	
Portfolio Weighted Average Maturity of Available		25.61

The Plan's fixed income investments by maturity and type at June 30, 2020 were as follows:

Investment Type	Fair Value/ NAV	Weighted Average Maturity (in Years)
Corporate Bonds	\$ 33,165,261	15.33
U.S. Government - Sponsored Enterprises	17,668,915	23.30
Government Issued/Treasuries	4,314,041	1.76
Other Asset-Backed Securities	3,504,894	22.00
Collateralized Mortgage Obligations	5,683,033	44.55
Municipal Securities	1,607,828	15.91
Commingled Funds and Preferred Stock		
Identified as Fixed Income for Reporting Purposes	129,738,806	Not Available
Total	\$ 195,682,778	
Portfolio Weighted Average Maturity of Available		19.47

# 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 Plans. At fiscal year-end, the Plan's fixed income investments had the following risk characteristics in Fiscal Years 2021 and 2020:

	Fiscal Year 2021	
Standard & Poor's Rating or Comparable	Fair Value	
AAA to A-	\$	6,737,962
BBB to BB-		24,168,497
Not Rated		183,517,148
Total	\$	214,423,607
		_
	Fis	scal Year 2020
Standard & Poor's Rating or Comparable		Fair Value
AAA to A-	\$	11,501,472
BBB to BB-		26,601,509
Not Rated		157,579,797
Total	\$	195,682,778

#### 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, 2021 and June 30, 2020, the Plan's investments did not exceed 5% with any one issuer other than as identified on page 15.

#### 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 \$13,627,183 which was partially used for settlement of open purchases of \$7,360,135. All other investments of the fund are held by State Street Bank as trustee in the Plan's name.

#### Credit Risk - Currency Forward Contract

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 has invested in some funds that hold three-month currency forward contracts. This strategy is undertaken to protect the dollar value of underlying international investments. At fiscal year-end, there were no hedges in place.

# NOTE 3 INVESTMENTS (CONTINUED)

## **Risks and Uncertainties (Continued)**

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 36.5% at any given time. These pool of assets may also include hedged assets, therefore, reducing the overall currency risk. The Plan was exposed to foreign currency risk through the Pools investment in Euro denominated alternative investments. The Pool total of these investments was \$21,246,284 and \$16,295,302 at June 30,3020 and June 30, 2020, respectively. The Plan's proportionate share was \$12,081.586 and \$9,232,613 at June 30, 2021 and June 30, 2020, respectively.

#### Rate of Return

For the fiscal years ended June 30, 2021 and June 30, 2020, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, were 25.9% and 4.10%, 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.

# NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

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:

Investments by Fair Value Level  Debt Securities:	June 30, 2021	Markets for Identical Assets (Level 1)	Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Collateralized Mortgage Obligations				
(Fannie Mae and Freddie Mac and GNMA)	\$ 4,784,028	¢ _	\$ 4,784,028	¢ _
Corporate Bonds	26,799,985	_	26,799,985	_
Commingled Funds (Fixed Income)	102,496,736	28,059,986	74,436,750	_
FHLMC and FNMA Bonds	19,404,251		19,404,251	_
U.S. Treasury Securities	14,101,236	_	14,101,236	_
Municipal Bonds	1,180,071	_	1,180,071	_
Other Asset Backed Securities	3,082,150	_	3,082,150	_
Preferred Stock	664,751	664,751	_	_
Total Debt Securities	172,513,208	28,724,737	143,788,471	
Equity Securities:				
Common Stocks	215,286,871	215,286,871	_	_
Small Company Portfolio	11,260,112	11,260,112	_	_
Emerging Market Equity Portfolio	67,550,886	67,550,886	_	_
Real Estate Investment Trusts (REITS)	1,537,648	1,537,648		
Total Equity Securities	295,635,517	295,635,517		
Total Investment by Fair Value Level	468,148,725	\$ 324,360,254	\$ 143,788,471	\$ -
Investments Measured at the Net Asset Value (NAV):				
Private Equity Funds	120,903,277			
Private Credit Funds	2,353,250			
Hedge Funds	79,043,574			
Real Assets Funds	28,546,316			
International Equity Funds	44,162,624			
Commingled Fund within International Equities	26,242,986			
Commingled Fund within International Fixed Income	27,150,015			
Commingled Fund within Domestic Fixed Income	14,760,384			
Total Investments Measured at the NAV	343,162,426			
Total Investments Measured				
at Fair Value*	\$ 811,311,151	:		

<sup>\*</sup>Net of money market funds totaling \$13,627,183 which includes securities that have maturities of less than one year and may be measured at amortized cost.

# NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

Courties				Fair Value Measurement Using					
Active Markets for Identical Assets   Inputs (Level 2)   Unobservable Inputs (Level 3)					Quoted				
Investments by Fair Value Level   Debt Securities   Debt Securit					Prices in				
Indentical Assets   Clevel 1)					Active				
Inputs   Inputs   Inputs   (Level 1)   (Level 2)   (Level 3)					Markets for		Other	Sigr	ificant
June 30, 2020   (Level 1)   (Level 2)   (Level 3)					Identical		Observable	Unol	servabl
Debt Securities:   Collateralized Mortgage Obligations (Fannie Mae and Freddie Mac and GNMA)   \$ 5,683,033   \$ - \$ 5,683,033   \$ - \$ Corporate Bonds   33,165,261   - 34,14,041   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141   - 34,14,14,141					Assets		Inputs	Ir	puts
Collateralized Mortgage Obligations   Clannie Mae and Freddie Mac and GNMA    S 5,683,033   S -   S 5,683,033   S -		Jur	ne 30, 2020		(Level 1)		(Level 2)	(Le	vel 3)
Collateralized Mortgage Obligations       (Fannie Mae and Freddie Mac and GNMA)       \$ 5,683,033       \$ -       \$ 5,683,033       \$ -         Corporate Bonds       33,165,261       —       33,165,261       —         Commingled Funds (Fixed Income)       90,486,477       22,185,417       68,301,060       —         FHLMC and FNMA Bonds       17,668,915       —       17,668,915       —         U.S. Treasury Securities       4,314,041       —       4,314,041       —         Municipal Bonds       1,607,828       —       1,607,828       —         Other Asset Backed Securities       3,504,893       —       3,504,893       —         Other Asset Backed Securities       157,059,552       22,814,521       134,245,031       —         Preferred Stock       629,104       629,104       —       —         Total Debt Securities       157,059,552       22,814,521       134,245,031       —         Equity Securities         Common Stocks       143,282,013       143,282,013       —       —         Small Company Portfolio       6,764,629       6,764,629       —       —         Real Estate Investment Trusts (REITS)       898,359       898,359       — <td< th=""><th>Investments by Fair Value Level</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Investments by Fair Value Level								
(Fannie Mae and Freddie Mac and GNMA)         \$ 5,683,033         \$ -         \$ 5,683,033         \$ -           Corporate Bonds         33,165,261         —         33,165,261         —           Commingled Funds (Fixed Income)         90,486,477         22,185,417         68,301,060         —           FHLMC and FNMA Bonds         17,668,915         —         17,668,915         —           U.S. Treasury Securities         4,314,041         —         4,314,041         —           Municipal Bonds         1,607,828         —         1,607,828         —           Other Asset Backed Securities         3,504,893         —         3,504,893         —           Orea Asset Backed Securities         629,104         629,104         —         —           Total Debt Securities         157,059,552         22,814,521         134,245,031         —           Equity Securities           Common Stocks         143,282,013         143,282,013         —         —           Small Company Portfolio         6,764,629         6,764,629         —         —           Equity Securities         197,391,050         197,391,050         —         —           Total Equity Securities         354,450	Debt Securities:								
Corporate Bonds   33,165,261	Collateralized Mortgage Obligations								
Commingled Funds (Fixed Income)         90,486,477         22,185,417         68,301,060         —           FHLMC and FNMA Bonds         17,668,915         —         17,668,915         —           U.S. Treasury Securities         4,314,041         —         4,314,041         —           Municipal Bonds         1,607,828         —         1,607,828         —           Other Asset Backed Securities         3,504,893         —         3,504,893         —           Other Asset Backed Securities         629,104         629,104         —         —           Total Debt Securities         157,059,552         22,814,521         134,245,031         —           Equity Securities:         —         —         —         —           Common Stocks         143,282,013         143,282,013         —         —           Small Company Portfolio         6,764,629         6,764,629         —         —           Emerging Market Equity Portfolio         46,446,049         46,446,049         —         —           Real Estate Investment Trusts (REITS)         898,359         898,359         —         —           Total Equity Securities         197,391,050         197,391,050         —         —           Total Investment by	(Fannie Mae and Freddie Mac and GNMA)	\$	5,683,033	\$	_	\$	5,683,033	\$	_
Total   Investment by Fair Value Level   354,450,602   220,205,571   134,245,031	Corporate Bonds		33,165,261		_		33,165,261		_
U.S. Treasury Securities	Commingled Funds (Fixed Income)		90,486,477		22,185,417		68,301,060		_
Municipal Bonds         1,607,828         —         1,607,828         —           Other Asset Backed Securities         3,504,893         —         3,504,893         —           Preferred Stock         629,104         629,104         —         —           Total Debt Securities         157,059,552         22,814,521         134,245,031         —           Equity Securities:         —         —         —         —           Common Stocks         143,282,013         143,282,013         —         —           Small Company Portfolio         6,764,629         6,764,629         —         —           Emerging Market Equity Portfolio         46,446,049         46,446,049         —         —           Real Estate Investment Trusts (REITS)         898,359         898,359         —         —           Total Equity Securities         197,391,050         197,391,050         —         —           Total Investment by Fair Value Level         354,450,602         220,205,571         134,245,031         —           Investments Measured at the Net Asset Value (NAV):         Private Equity Funds         89,493,459         Private Credit Funds         710,588         Private Credit Funds         24,516,661         Private Credit Funds         24,516,661	FHLMC and FNMA Bonds		17,668,915		_		17,668,915		_
Other Asset Backed Securities         3,504,893         —         3,504,893         —           Preferred Stock         629,104         629,104         —         —           Total Debt Securities         157,059,552         22,814,521         134,245,031         —           Equity Securities:         —	U.S. Treasury Securities		4,314,041		_		4,314,041		_
Preferred Stock         629,104         629,104         —         —           Total Debt Securities         157,059,552         22,814,521         134,245,031         —           Equity Securities:         —	Municipal Bonds		1,607,828		_		1,607,828		_
Total Debt Securities	Other Asset Backed Securities		3,504,893		_		3,504,893		_
Equity Securities:  Common Stocks 143,282,013 143,282,013 — —  Small Company Portfolio 6,764,629 6,764,629 — —  Emerging Market Equity Portfolio 46,446,049 46,446,049 — —  Real Estate Investment Trusts (REITS) 898,359 898,359 — —  Total Equity Securities 197,391,050 197,391,050 — —  Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 —  Investments Measured at the Net Asset Value (NAV):  Private Equity Funds 89,493,459  Private Credit Funds 710,588  Hedge Funds 69,678,468  Real Assets Funds 24,516,661  International Equity Funds 29,596,299  Commingled Fund within International Equities 24,333,460  Commingled Fund within International Fixed Income 24,800,678  Commingled Fund within Domestic Fixed Income 13,822,549  Total Investments Measured	Preferred Stock		629,104		629,104		_		_
Common Stocks 143,282,013 143,282,013 — — Small Company Portfolio 6,764,629 6,764,629 — — — Emerging Market Equity Portfolio 46,446,049 46,446,049 — — — Real Estate Investment Trusts (REITS) 898,359 898,359 — — — Total Equity Securities 197,391,050 197,391,050 — — — Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 — Investments Measured at the Net Asset Value (NAV): Private Equity Funds 89,493,459 Private Credit Funds 710,588 Hedge Funds 69,678,468 Real Assets Funds 124,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income Commingled Fund within Domestic Fixed Income Total Investments Measured at the NAV 276,952,162	Total Debt Securities		157,059,552		22,814,521		134,245,031		
Small Company Portfolio 6,764,629 6,764,629 — — — Emerging Market Equity Portfolio 46,446,049 46,446,049 — — — Real Estate Investment Trusts (REITS) 898,359 898,359 — — — Total Equity Securities 197,391,050 197,391,050 — — — Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 — Investments Measured at the Net Asset Value (NAV):  Private Equity Funds 89,493,459 Private Credit Funds 69,678,468 Real Assets Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured	Equity Securities:								
Emerging Market Equity Portfolio 46,446,049 46,446,049 — — — Real Estate Investment Trusts (REITS) 898,359 898,359 — — — Total Equity Securities 197,391,050 197,391,050 — — — Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 — Investments Measured at the Net Asset Value (NAV):  Private Equity Funds 89,493,459 Private Credit Funds 710,588 Hedge Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured	Common Stocks		143,282,013		143,282,013		_		_
Real Estate Investment Trusts (REITS)  Total Equity Securities  197,391,050  197,391,050   Total Investment by Fair Value Level  354,450,602  220,205,571  134,245,031  - Investments Measured at the Net Asset Value (NAV):  Private Equity Funds  Private Credit Funds  Hedge Funds  Real Assets Funds  International Equity Funds  Commingled Fund within International Equities  Commingled Fund within International Fixed Income  Commingled Fund within Domestic Fixed Income  Total Investments Measured  Total Investments Measured	Small Company Portfolio		6,764,629		6,764,629		_		_
Total Equity Securities 197,391,050 197,391,050 — — —  Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 —  Investments Measured at the Net Asset Value (NAV):  Private Equity Funds 89,493,459  Private Credit Funds 710,588  Hedge Funds 69,678,468  Real Assets Funds 24,516,661  International Equity Funds 29,596,299  Commingled Fund within International Equities 24,333,460  Commingled Fund within International Fixed Income 24,800,678  Commingled Fund within Domestic Fixed Income 13,822,549  Total Investments Measured	Emerging Market Equity Portfolio		46,446,049		46,446,049		_		_
Total Investment by Fair Value Level 354,450,602 220,205,571 134,245,031 —  Investments Measured at the Net Asset Value (NAV):  Private Equity Funds 89,493,459  Private Credit Funds 710,588  Hedge Funds 69,678,468  Real Assets Funds 24,516,661  International Equity Funds 29,596,299  Commingled Fund within International Equities 24,333,460  Commingled Fund within International Fixed Income 24,800,678  Commingled Fund within Domestic Fixed Income 13,822,549  Total Investments Measured	Real Estate Investment Trusts (REITS)		898,359		898,359		_		_
Investments Measured at the Net Asset Value (NAV):  Private Equity Funds Private Credit Funds Private Credit Funds	Total Equity Securities		197,391,050		197,391,050				
Private Equity Funds 89,493,459 Private Credit Funds 710,588 Hedge Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income 24,800,678 Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured at the NAV 276,952,162	Total Investment by Fair Value Level		354,450,602	_	220,205,571	_	134,245,031		
Private Equity Funds 89,493,459 Private Credit Funds 710,588 Hedge Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income 24,800,678 Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured at the NAV 276,952,162	Investments Measured at the Net Asset Value (NAV):								
Private Credit Funds 710,588 Hedge Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income 24,800,678 Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured at the NAV 276,952,162			89,493,459						
Hedge Funds 69,678,468 Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income 24,800,678 Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured at the NAV 276,952,162	• •								
Real Assets Funds 24,516,661 International Equity Funds 29,596,299 Commingled Fund within International Equities 24,333,460 Commingled Fund within International Fixed Income 24,800,678 Commingled Fund within Domestic Fixed Income 13,822,549 Total Investments Measured at the NAV 276,952,162  Total investments Measured	Hedge Funds		-						
International Equity Funds  Commingled Fund within International Equities  Commingled Fund within International Fixed Income  Commingled Fund within Domestic Fixed Income  Total Investments Measured at the NAV  29,596,299  24,333,460  24,800,678  13,822,549  Total investments Measured at the NAV  276,952,162	9								
Commingled Fund within International Fixed Income 24,800,678  Commingled Fund within Domestic Fixed Income 13,822,549  Total Investments Measured at the NAV 276,952,162  Total investments Measured	International Equity Funds		29,596,299						
Commingled Fund within International Fixed Income 24,800,678  Commingled Fund within Domestic Fixed Income 13,822,549  Total Investments Measured at the NAV 276,952,162  Total investments Measured	Commingled Fund within International Equities		24,333,460						
Commingled Fund within Domestic Fixed Income Total Investments Measured at the NAV  Total investments Measured  Total investments Measured	-								
Total investments Measured	Commingled Fund within Domestic Fixed Income		13,822,549						
	Total Investments Measured at the NAV		276,952,162						
at Fair Value* <u>\$ 631,402,764</u>	Total investments Measured								
	at Fair Value*	\$	631,402,764						

<sup>\*</sup> Net of money market funds totaling \$15,721,518, 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)

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:

			Redemption	
			Frequency (if	Redempti
	Fair	Unfunded	Currently	Notice
	Value	Commitment	Eligible)	Period
Private Equity Funds	\$120,903,277	\$32,436,560	Illiquid	N/A
Private Credit Funds	2,353,250	12,083,700	Illiquid	N/A
Hedge Fund 1	39,226,552		Quarterly	65 days
Hedge Fund 2	39,817,022		Semi	95 days
Real Assets Funds	28,546,316	13,345,669	Illiquid	N/A
International Equity Funds	44,162,624		Monthly	15 days
Commingled Fund within International Equities	26,242,986		Weekly	3 days
Commingled Fund within International Fixed Income	27,150,015		Bi-monthly	5 days
Commingled Fund within Domestic Fixed Income	14,760,384		Daily	1 day
Total	\$343,162,426			

- 1. Private Equity Funds: Private equity investment strategies include buyout, venture capital, growth capital, and special situations. Investments in the asset class are achieved primarily through commingled funds and may also include direct and co-investment opportunities. The objective of the asset class is to provide high long-term returns. 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 schedules 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.
- 2. Comingled Fund within Private Credit: This strategy will focus on identifying market dislocations and credit-intensive assets, specifically in loan portfolios, corporate securities, structured credit, hard assets and special opportunities. The objective of the fund is to return a 1.5-1.7X multiple and a net IRR of 15% over the life of the fund, which can range between 6 and 8 years. The fund employs a flexible and opportunistic mandate allowing for investments in an assortment of securities which allows it to remain an active investor in a variety of transactions irrespective of market conditions and geographies. 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.

# NOTE 4. FAIR VALUE MEASUREMENT (CONTINUED)

- 3. Equity 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.
- 4. Real Asset Funds: This represents funds that invest in institutional real estate (office, multi-family, industrial, and retail) and natural resources strategies. The fair values of the investments in these strategies are determined using the NAV per share (or its equivalent) of the Plan's ownership interest in partnership's capital. The real estate strategies deployed include a U.S. focused property strategy (core to core plus) and a global FOF strategy. The global FOF manager invests in 20-30 underlying managers/funds. The natural resources investments are through FOF strategies. The natural resource managers invest in 10-25 underlying relationships as they build a diversified portfolio with exposure to oil, natural gas, agriculture, timber, and other natural resources. 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.
- 5. International Equity Funds: This represents investments primarily in value oriented equity securities of international developed markets (non-U.S. issuers; e.g., MSCI EAFE) with the objective of achieving a long-term return above a passive benchmark (EAFE). This manager focuses on a dividend discount model value based philosophy for publicly traded equity. All securities are recorded at fair value. 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 Fund 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.
- 6. Commingled Fund within International Equities: This represents investments made in predominantly listed large and mega capitalization securities in emerging markets. The objective of this fund is to achieve a long-term return above a passive benchmark (e.g. MSCI EM Index). The manager employs a flexible research intensive investment approach to own high quality businesses over the long term. NAVs are normally calculated as of 4:00pm Eastern Time for each business day the relevant exchange is open. Securities for which market quotations are readily available and reliable are to be valued using the applicable market quotations.

# NOTE 4 FAIR VALUE MEASUREMENT (CONTINUED)

- 7. Commingled Fund within International Fixed Income: This represents investments primarily in a globally diversified portfolio of high quality sovereign bonds and currencies in emerging markets (non-U.S. issuers; e.g. MSCI EM). 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 15<sup>th</sup> (or next business day if the 15<sup>th</sup> is a nonbusiness day). The ownership interest is only in the units of the Fund, not the underlying holding or securities of the Fund.
- 8. Commingled Fund within Domestic Fixed Income: The Strategy is managed using an "indexing" investment approach by which the manager attempts to approximate, before expenses, the performance of the Index (e.g. Bloomberg Barclays U.S. Treasury Inflation Protected Securities Index) over the long term. The manager expects that it will typically seek to replicate Index returns for the Portfolio through investments in the "cash" markets actual holdings of debt securities and other instruments rather than through "notional" or "synthetic" positions achieved through the use of derivatives, such as futures contracts or swap transactions (except in the unusual case where the manager believes that use of derivatives is necessary to achieve an exposure that is not readily available through the cash markets). NAVs are normally calculated as of 4:00pm Eastern Time for each business day the relevant exchange is open. Securities for which market quotations are readily available and reliable are to be valued using the applicable market quotations.

#### NOTE 5 DEFERRED RETIREMENT OPTION PROGRAM

The Plan offers a program called Deferred Retirement Option Plan (DROP). 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 the required employee contributions and 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, 2021 and 2020 was \$16,267,540 and \$17,447,885, respectively.

#### NOTE 6 NET PENSION LIABILITY OF THE COUNTY

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

	2021	2020
Total Pension Liability	\$828,261,117	\$779,728,093
Plan Fiduciary Net Position	(825,833,713)	(648,877,033)
County's Net Pension Liability	\$ 2,427,404	\$ 130,851,060
Plan Fiduciary Net Position as a		
Percentage of the Total Pension Liability	99.71 %	83.22 %

# **Actuarial Assumptions**

The total pension liability in the July 1, 2020 actuarial valuation rolled forward to June 30, 2021 was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 2.60%

Salary Increases Varies by service, 4.25% to 7.75%,

including inflation

Investment Rate of Return 7.35%, net of pension plan investment expense,

including inflation

Mortality RP-2014 Combined Healthy Tables with

generational projection from 2006 base year using

scale MP-2017

The actuarial assumptions used in this valuation, for GASB 67 purposes, were generally based on the 2018 Experience Study covering the period from July 1, 2013 through June 30, 2017. Economic assumptions and the demographic assumptions were updated to reflect the 2013-2017 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, 2021 (see Note 3), are summarized in the following table:

	Long-Term
	Expected Real
Asset Class	Rate of Return
Equities	4.60%
Fixed Income	2.20%
Alternative Investments	6.00%
Real Assets	5.10%

#### **Discount Rate**

The discount rate used to measure the total pension liability was 7.35%. 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. The discount rate changed from 7.40% to 7.35% for the year ended June 30, 2021.

# Sensitivity of the Net Pension Liability to Changes in the Discount Rate

#### As of June 30, 2021

The following presents the net pension liability of the County, calculated using the discount rate of 7.35%, 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 (6.35%) or 1 percentage point higher (8.35%) than the current rate:

	1%	Current	1%
	Decrease	Discount Rate	Increase
	(6.35)%	(7.35%)	(8.35)%
County's Net Pension Liability	\$ 120,397,232	\$ 2,427,404	\$ (94,030,316)

#### As of June 30, 2020

The following presents the net pension liability of the County, calculated using the discount rate of 7.40%, 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 (6.40%) or 1 percentage point higher (8.40%) than the current rate:

	1%	Current	1%
	Decrease	Discount Rate	Increase
	(6.40)%	(7.40)%	(8.40)%
County's Net Pension Liability	\$ 241,746,998	\$ 130,851,060	\$ 40,151,168

# HOWARD COUNTY POLICE AND FIRE EMPLOYEES' RETIREMENT PLAN REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF CHANGES IN THE COUNTY'S NET PENSION LIABILITY AND RELATED RATIO (DOLLAR AMOUNTS IN THOUSANDS) LAST 10 FISCAL YEARS (SEE INDEPENDENT AUDITORS' REPORT)

	2021	2020	2019	2018	2017	2016	2015	2014
TOTAL PENSION LIABILITY								
Service Cost	\$ 24,446	\$ 23,123	\$ 22,278	\$ 21,109	\$ 19,163	\$ 18,974	\$ 17,708	\$ 17,535
Interest	56,037	53,578	50,713	46,900	43,426	39,998	36,208	33,630
Changes of Benefit Terms	_	_	_	_	_	(1,705)	_	_
Differences Between Expected and Actual								
Experience	(2,382)	(8,607)	(2,667)	13,530	6,319	7,599	(1,596)	_
Changes of Assumptions	5,066	4,770	3,936	_	_	_	16,621	14,989
Benefit Payments, Including Refunds of								
Member Contributions	(34,634)	(34,320)	(27,572)	(24,755)	(20,422)	(17,890)	(18,941)	(15,679)
Net Change in Total Pension Liability	48,533	38,544	46,688	56,784	48,486	46,976	50,000	50,475
Total Pension Liability - Beginning	779,728	741,184	694,496	637,712	589,226	542,250	492,250	441,775
Total Pension Liability - Ending (a)	\$ 828,261	\$ 779,728	\$ 741,184	\$ 694,496	\$ 637,712	\$ 589,226	\$ 542,250	\$ 492,250
PLAN FIDUCIARY NET POSITION								
Contributions - Employer	\$ 31,923	\$ 31,105	\$ 27,720	\$ 26,337	\$ 24,729	\$ 21,636	\$ 22,530	\$ 20,822
Contributions - Member	8,374	8,184	8,125	7,859	7,387	7,041	7,006	6,526
Net Investment Income	171,695	24,964	39,639	46,560	55,956	6,459	11,531	54,733
Benefit Payments, Including Refunds	_							
of Member Contributions	(34,634)	(34,321)	(27,571)	(24,755)	(20,421)	(17,889)	(18,941)	(15,679)
Administrative Expense	(401)	(413)	(457)	(355)	(344)	(327)	(368)	(271)
Net Change in Plan Fiduciary Net Position	176,957	29,519	47,456	55,646	67,307	16,920	21,758	66,131
Plan Fiduciary Net Position - Beginning	648,877	619,358	571,902	516,256	448,949	432,029	410,271	344,140
Plan Fiduciary Net Position - Ending (b)	\$ 825,834	\$ 648,877	\$ 619,358	\$ 571,902	\$ 516,256	\$ 448,949	\$ 432,029	\$ 410,271
County's Net Pension Liability - Ending (a)-(b)	\$ 2,427	\$ 130,851	\$ 121,826	\$ 122,594	\$ 121,456	\$ 140,277	\$ 110,221	\$ 81,979
country street rension Elebinity Ending (a) (b)	<del>y 2,127</del>	7 130,031	<del></del>	7 122,551	<del>7 121, 130</del>	<del>7 110,277</del>	<del></del>	<del>y 01,575</del>
Plan Fiduciary Net Position as a Percentage								
of the Total Pension Liability	99.71 %	83.22 %	83.56 %	82.35 %	80.95 %	76.19 %	79.67 %	83.35 %
Covered Payroll	\$ 90,179	\$ 87,868	\$ 83,746	\$ 81,037	\$ 80,814	\$ 72,121	\$ 70,406	\$ 67,169
County's Net Pension Liability as a								
Percentage of Covered Payroll	2.69 %	148.92 %	145.47 %	151.28 %	150.29 %	194.50 %	156.55 %	122.05 %
Expected Average Remaining Service Years of								
all Participants	9	9	9	9	9	10	10	9

<sup>\*</sup> Information for FY2013 and Earlier is not Available.

#### Notes to Schedule:

Benefit changes. None.

Changes of Assumptions. The valuation interest rate assumption changed From 7.40% to 7.35%

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

	2021	2020	2019	2018	2017	2016	2015	2014*
Actuarially Determined Contribution Contributions in Relation to the Actuarially	\$30,841	\$31,105	\$27,720	\$26,337	\$24,729	\$21,636	\$22,530	\$20,822
Determined Contribution	31,923	31,105	27,720	26,337	24,729	21,636	22,530	20,822
Contribution Deficiency (Excess)	\$ (1,082)	\$ <b>—</b>	\$ —					
Covered Payroll	\$90,179	\$87,868	\$83,746	\$81,037	\$80,814	\$72,121	\$70,406	\$67,169
Contributions as a Percentage of Covered Payroll	35.40 %	35.40 %	33.10 %	32.50 %	30.60 %	30.00 %	32.00 %	31.00 %

ADC rate for FY 21 was 34.2%...

#### **Notes to Schedule**

#### Valuation Date and Actuarial Assumptions:

The actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1). The assumptions shown below are those used in the 7/1/2019 actuarial valuation to calculate the FY 2021 ADC and the assumptions used to determine all contributions in the past would not have been the same.

Actuarial Cost Method Projected Unit Credit (Entry Age Used for GASB 67 purposes)

Amortization Method Level percent of pay increasing 2.75% per year

Remaining Amortization Period Remaining amortization periods range from 3 to 15 years.

Asset Valuation Method 5-year smoothed market

Inflation 2.65%

Salary Increases Varies by service. 4.25% to 7.75%, including inflation

Investment Rate of Return 7.40%, before expenses, including

Retirement Age Rates vary by participant age and service and (for GASB

purposes only) set at 100% at DROP entry (or expected entry). Normal Cost (for GASB purposes) ceases for Police and Fire members when they enter DROP since GASB 67

does not allow Normal Cost while in DROP.

Mortality RP-2014 Combined Healthy tables with generational

projection from 2006 base year using scale MP-2017

Cost of Living Increases 2.00%

<sup>\*</sup> Information for FY2013 and Earlier is not Available.

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

	Annual Money-Weighted
	Rate of Return, Net of
Fiscal Year Ending	Investment Expenses
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 %
6/30/2013	11.33 %
6/30/2012	(1.21)%