TEXAS COUNTY & DISTRICT RETIREMENT SYSTEM

ANNUAL **COMPREHENSIVE FINANCIAL** REPORT

For the years ended December 31, 2021 & 2020

MCKINNEY FALLS STATE PARK, TRAVIS COUNTY

A STABLE FOUNDATION FOR CONTINUED GROWTH

From the day we were established by the Texas Legislature in 1967, the Texas County & District Retirement System has provided hardworking Texans with reliable retirement, disability and survivor benefits.

The stability of our system wasn't just earned through time, it roots back to our foundation. Our unique features distinguish us and make TCDRS one of the best-funded retirement systems in the nation.

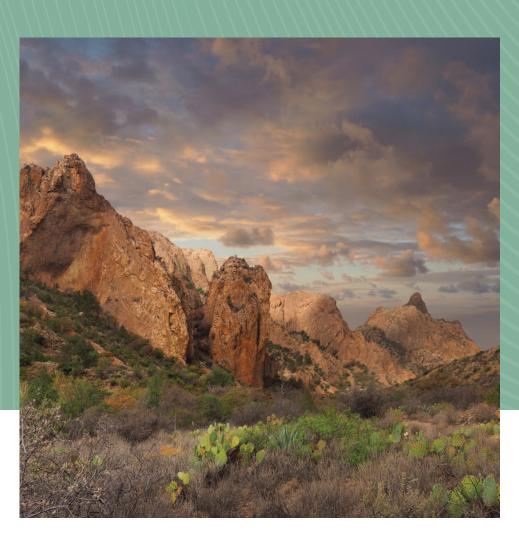
TCDRS employers contribute 100% of their required rates, but can adjust their benefit levels annually to balance their workforce needs and budgets. This responsible funding structure ensures members' benefits are funded in advance, while helping employers attract and retain talented employees.

Our investments fund 74 cents of every benefit dollar. Our investment strategy and broadly diversified portfolio are designed to achieve our long-term return goals with an acceptable level of risk.

As of Dec. 31, 2021, we had nearly \$45 billion in net plan assets and a funded ratio of 89%. In addition, we strengthened our reserves fund to over 12% of assets.

TCDRS has delivered dependable retirement benefits for more than 50 years. Our members are nurses, mechanics, road crew workers, sheriffs, attorneys, office workers, jailers and judges, but they all have one thing in common: their jobs are essential to their communities, providing valuable services, such as healthcare, education, utilities and public safety.

At TCDRS, we are inspired by hard-working Texans to keep TCDRS strong and financially sound through care, integrity and innovation.



ANNUAL COMPREHENSIVE FINANCIAL REPORT

For the years ended December 31, 2021 & 2020

TEXAS COUNTY & DISTRICT RETIREMENT SYSTEM

901 MoPac Expy. South, Barton Oaks Plaza IV, Ste. 500, Austin, Texas 78746

Prepared by the Actuarial Services, Communications, Finance and Investments Divisions

BIG BEND NATIONAL PARK, BREWSTER COUNTY

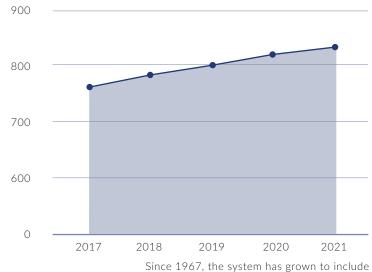
TCDRS AT A GLANCE

SERVING OUR MEMBERSHIP



We serve a membership of more than 345,000, including over 78,000 retirees and beneficiaries.

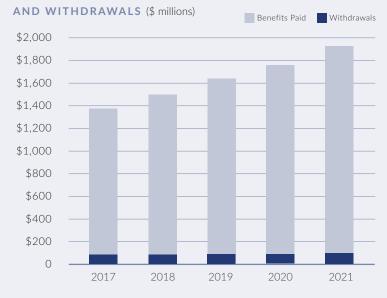
PARTICIPATING EMPLOYERS



more than 830 counties and districts.

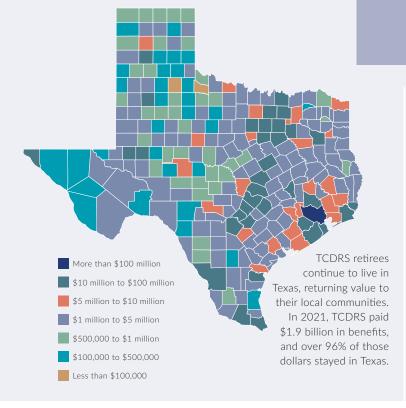
RETIREE PROFILE AVERAGE AGE AT RETIREMENT **61** AVERAGE YEARS OF SERVICE **18** AVERAGE ANNUAL BENEFIT **\$26,028**

BENEFITS PAID



BENEFITING TEXAS

TCDRS Payments to Retirees by Texas County

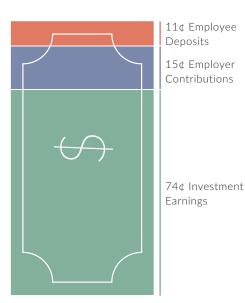


INVESTING FOR THE LONG TERM

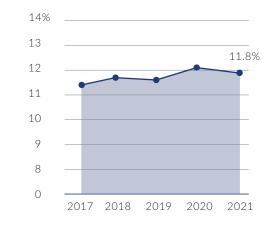


RESPONSIBLE PLAN FUNDING

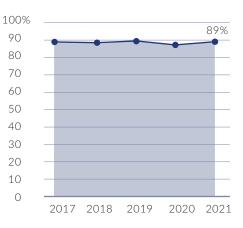
BENEFIT FUNDING



AVERAGE REQUIRED EMPLOYER CONTRIBUTIONS RATES



FUNDED RATIO



Investment earnings fund approximately 74¢ of every dollar of benefits. Employers must pay 100% of their required contributions every year. Each plan is funded independently by a county or district and its employees. Our conservative funding methods ensure any debt is paid down to zero within 20 years. This means money is there when needed, and debt is not pushed to future generations. *All figures as of Dec. 31, 2021, except where noted*.

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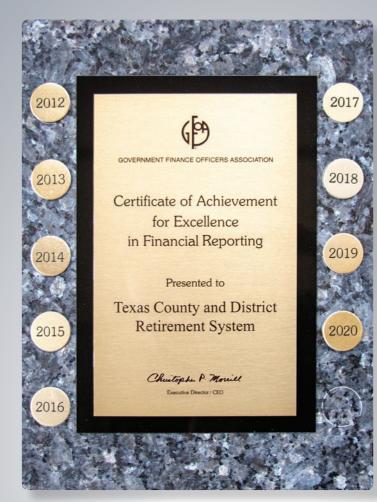
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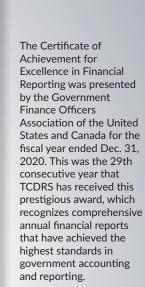
CADDO LAKE STATE PARK, HARRISON COUNTY

1. INTRODUCTORY

RELIABLE LIFETIME BENEFITS

At TCDRS, we are dedicated to serving the people who serve their own counties and districts — the employees, retirees and employers who define the unique character of the Lone Star State. Our commitment to these hardworking Texans is a lifetime benefit they can count on.







Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2021

Presented to

Texas County & District Retirement System

In recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA) National Conference on Public Employee Retirement Systems (NCPERS) National Council on Teacher Retirement (NCTR)



TCDRS was awarded the Public Pension Coordinating Council's Public Pension Standards award for the 19th consecutive year. This award is in recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.



Barton Oaks Plaza IV Suite 500 901 S. MoPac Expy. Austin, TX 78746 Tel. 800-823-7782 512-328-8889 Fax 512-328-8887 TCDRS.org

LETTER OF TRANSMITTAL

June 3, 2022

We are pleased to present the Annual Comprehensive Financial Report of the Texas County & District Retirement System (TCDRS) for the year ended Dec. 31, 2021.

2021 was a bright year for TCDRS. Our portfolio grew at record levels exceeding our benchmarks, and we delivered enhancements to our technology and services that set the stage for our continuing digital transformation.

TCDRS ended the year in a strong financial position. At 89% funded and with a reserves fund of more than \$5 billion, over 12% of assets, TCDRS is in a sound position to handle future volatility.

Since 1967, TCDRS has grown into a nearly \$45 billion trust. Today, we partner with more than 830 counties and governmental districts to provide reliable retirement, disability and survivor benefits. The number of participating employers continues to grow and, for the 10-year period ended Dec. 31, 2021, has increased by 33%. Our employers value their TCDRS benefit plans in helping them recruit and retain quality staff.

Over the past decade, our membership has risen by 48% as well. We now serve over 345,000 Texans. These public servants make our Texas local communities better and safer places to live as they plan for one of the most important decisions of their life: retirement.

At TCDRS, we are committed to providing our members a secure benefit. Our unique features help make us one of the best-funded retirement systems in the nation. Savings-based benefits that are responsibly funded in advance, as well as flexibility and local control, contribute to the system's success.

The TCDRS Board of Trustees provides leadership for the system. Our nine-person board is appointed

by the governor and confirmed by the Texas Senate. The board appoints an executive director, who is responsible for all day-to-day operations, and a chief investment officer, who manages investment operations.

WE DO RETIREMENT RIGHT

Our savings-based plan helps employers provide reliable benefits at a predictable cost. Members save for their own retirement over the length of their careers. At retirement, benefits are based on a member's final savings balance and employer matching.

In 2021, we paid \$1.9 billion in benefits to retirees and former members. Over 96% of these benefits went to Texas addresses. That income serves as an economic engine to our Texas local economies creating jobs and additional economic activity.

On average, our current retirees start their benefit payments at age 61 after working 18 years. The average annual benefit for current retirees is \$26,028, as of Dec. 31, 2021. The number of retirees has increased over the past decade by 79%.

INVESTMENTS

Because members and employers are saving in advance for retirement, they are getting the maximum power of investment earnings over time. Investment earnings fund approximately 74 cents of every benefit dollar our members receive.

TCDRS is a long-term investor with a fully diversified portfolio. The TCDRS Board of Trustees constructs the investment portfolio to maximize return within an acceptable level of risk. In 2021, the TCDRS portfolio returned 22.0%, net of all fees. Our 30-year return was 8.2% for the period ended Dec. 31, 2021.

LETTER OF TRANSMITTAL

The board has adopted, and periodically reviews, an investment policy that defines and restricts investment authority. The policy also emphasizes the importance of a long-term investment philosophy with minimization of risk.

MAJOR INITIATIVES

In 2021, TCDRS delivered enhancements to our technology and services that set the stage for our continuing digital transformation. By 2023, TCDRS aims to go paperless. This will allow us to better serve our members and employers with secure, fast and convenient management of retirement accounts. These efforts will make our processes more secure and efficient and will provide members with an improved digital experience.

This past year, we:

- Designed and built technology to support the ability for members to make account updates by phone and complete transactions by providing electronic signatures via DocuSign. In addition, we completed the technical design and implementation of Co-Browse, a powerful feature that lets call center representatives see exactly what customers see when providing technical support on the website.
- Made significant progress on information security objectives, including formalizing security policies, continuing implementation of an identity access management program which includes multi-factor authentication, endpoint monitoring, and improved data-in-motion encryption. We began a cloud access gateway (CASB) program to better monitor and manage cloud data. We continue to strengthen our security posture and conduct frequent security awareness training and penetration testing.
- Continued to modernize and customize our member communications to increase engagement. This included launching a series of bite-sized, mobileoptimized, e-newsletters tailored by career stage; creating customer journeys for new members and retirees; and continuing enhancements to our webinar series for members based on career stage.

FUNDING

As of Dec. 31, 2021, TCDRS was 89% funded in aggregate. The actuarial value of assets and liabilities totaled \$38.60 billion and \$43.61 billion, respectively. The fiduciary net position for pension benefits at year end in 2021 and 2020 was \$44.89 billion and \$37.11 billion, respectively. This is an increase of \$7.78 billion (21.0%). The system maintains a reserves position to help keep rates stable and offset future adverse experience. TCDRS is funded at over 100% when reserves are considered.

TCDRS does not receive funding from the State of Texas. Each plan is funded by our employers, members and investment earnings. TCDRS has one of the most conservative funding policies in the nation, ensuring that our employers fund their plans responsibly. By paying 100% of their required contribution rate every year, employers are funding their current employees' future benefits and are on track to pay down any liabilities within 20 years.

More than one-third of TCDRS' participating employers make additional contributions over the required amounts to prefund benefits, pay down liabilities faster or build up reserves within their plan. Each year, employers can adjust benefits and costs prospectively based on their local workforce needs and budgets. This level of flexibility and local control is unique among public pension plans.

The average employer contribution rate decreased following the Dec. 31, 2021 valuation, primarily due to strong investment returns.

Cash flow from deposits and contributions is slightly less than the amounts required to make benefit payments to retirees, withdrawals to former members and administrative expenses. Negative net cash flow is expected as the system matures. Investment returns and changes in employer plans also affect annual cash flow and the change in net position.

To help better understand TCDRS' financial strength, the recent history of net investment income, contributions and deposits, benefit payments and administrative costs is shown in the Statistical Section of this report, which begins on page 81. Information on funding progress for all employers as a group is in the Actuarial Section within Table 6: Funding Progress (see page 71).

MANAGEMENT RESPONSIBILITY FOR FINANCIAL REPORTING

This report fulfills the requirements established by the Texas Government Code for public retirement systems to publish an annual financial report. TCDRS management is responsible for the accuracy of the data, as well as the completeness and fairness of its presentation, within this report. The financial statements have been prepared in accordance with the principles of governmental accounting and reporting as set forth by the Governmental Accounting Standards Board (GASB).

A comprehensive framework of internal controls exists to provide reasonable assurance regarding the safekeeping of assets and fair presentation of the financial statements and supporting schedules. Internal controls also provide reasonable, rather than absolute, assurance that the financial statements are free of any material misstatements. The concept of reasonable assurance recognizes that first, the cost of a control should not exceed the benefits likely to be derived; second, the valuation of the cost and benefits requires estimates and judgments by management.

KPMG LLP, Certified Public Accountants, has issued an unmodified ("clean") opinion on TCDRS' financial statements for the year ended Dec. 31, 2021. The independent auditor's opinion is located at the front of the Financial Section of this report (see page 20).

Immediately following the independent auditor's opinion, Management's Discussion and Analysis (MD&A) provides a narrative introduction, overview and analysis of the basic financial statements. The MD&A complements the Letter of Transmittal and should be read in conjunction with it.

AWARDS AND ACKNOWLEDGMENTS

For the 29th consecutive year, TCDRS proudly accepted a Certificate of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association of the United States and Canada (GFOA) for the fiscal year ended Dec. 31, 2020. This prestigious award recognizes readable, efficiently organized annual comprehensive financial reports that satisfy accepted accounting principles and applicable legal requirements.

For 2021, TCDRS was also awarded the Public Pension Coordinating Council's (PPCC) Public Pension Standards award for the 19th consecutive year. This award recognizes systems that meet professional standards for plan funding and administration.

SUMMARY

At TCDRS, we are proud to work on behalf of our members and employers to ensure that TCDRS remains strong and sound for the future. We thank everyone who has made TCDRS a model for retirement and a benefit that can be counted on by so many Texans.

Sincerely,

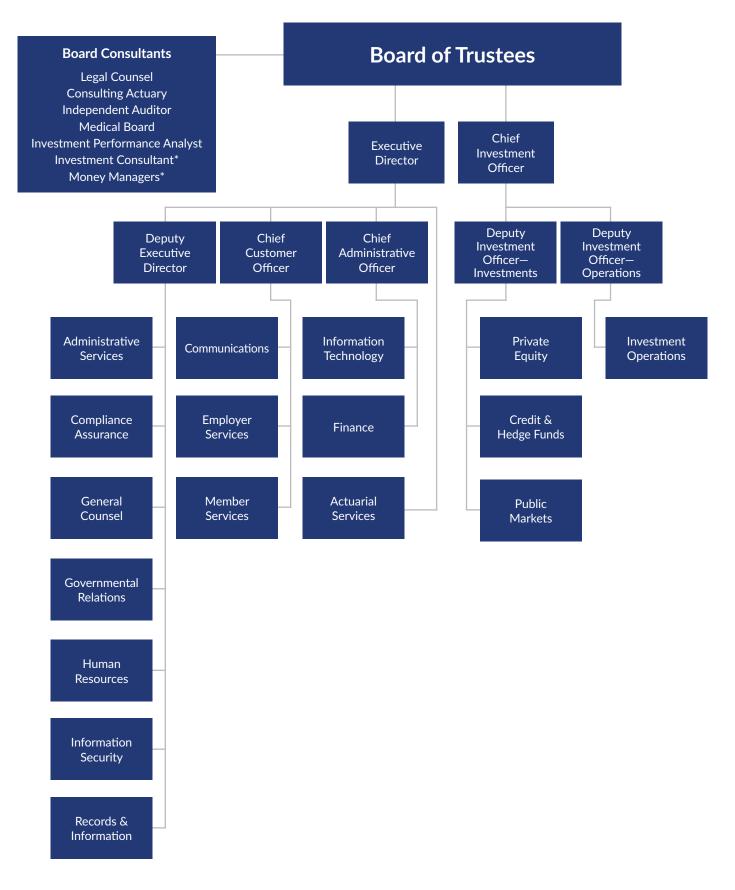
Mary Louise Nicholson Chair

Mary Louise Nicholood amy Bishop

Amy Bishop **Executive Director**

Casey Wolf Chief Investment Officer

ORGANIZATION CHART



* For information regarding investment professionals' fees, see Tables 8–9 in the Investment Section.

BOARD OF TRUSTEES As of Dec. 31, 2021



Standing (I to r): Chris Hill, Susan Fletcher, Tammy Biggar, Chris Davis, Holly Williamson Seated (I to r): Deborah Hunt, Mary Louise Nicholson (not pictured): Kara Sands, Chris Taylor

CHAIR

Mary Louise Nicholson Tarrant County Clerk Term expires Dec. 31, 2023

VICE-CHAIR

Deborah Hunt Williamson CAD Board of Directors Term expires Dec. 31, 2021 Tammy Biggar Fannin County Clerk Term expires Dec. 31, 2025

Chris Davis Cherokee County Judge Term expires Dec. 31, 2021

Susan Fletcher Collin County Commissioner Term expires Dec. 31, 2023

Chris Hill Collin County Judge Term expires Dec. 31, 2021 Kara Sands Nueces County Clerk Term expires Dec. 31, 2023

Chris Taylor District Judge, 48th Judicial District—Tarrant County Term expires Dec. 31, 2025

Holly Williamson Harris County Justice of the Peace Term expires Dec. 31, 2025

EXECUTIVE STAFF AND PROFESSIONAL ADVISORS

INVESTMENT STAFF



Casey Wolf Chief Investment Officer



Sandra Bragg Deputy Investment Officer — Operations



Jon Shoen Deputy Investment Officer – Investments

ADMINISTRATIVE STAFF



Amy Bishop Executive Director



Tom Harrison Deputy Executive Director



Ann McGeehan General Counsel

PROFESSIONAL ADVISORS

Investment Counsel

Vinson & Elkins LLP Bradshaw & Bickerton PLLC DLA Piper LLP

Consulting Actuary

Milliman, Inc.

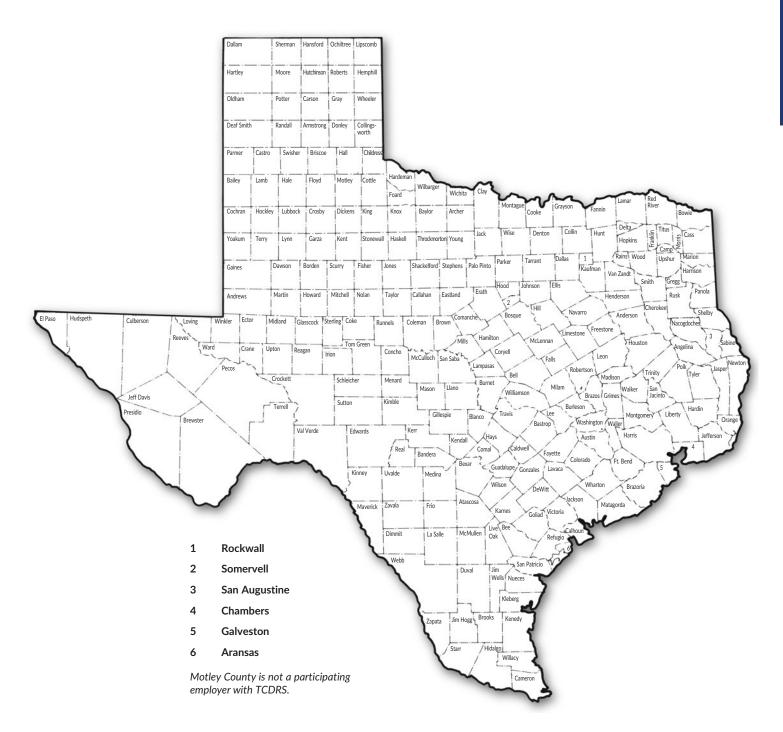
Investment Performance Analyst Bank of New York Mellon

Investment Consultant Cliffwater LLC

Independent Auditor KPMG LLP Fiduciary & Benefit Plan Administration Counsel Jackson Walker LLP

Medical Board

Ace Alsup, M.D., Chairman Shelby H. Carter, M.D. Frank E. Robinson, M.D.



Α

Acton Municipal Utility District Agua Special Utility District Alamo Area Council of Governments Alliance Regional Water Authority Anderson County Anderson County Central Appraisal District Andrews County Andrews County Appraisal District Angelina and Nacogdoches Counties WC & ID #1 Angelina County Angelina County Appraisal District Angleton Drainage District Aquilla Water Supply District - Hill County Aransas County Aransas County Appraisal District Aransas County Navigation District Archer County Archer County Appraisal District Ark-Tex Council of Governments Armstrong County Armstrong County Appraisal District Atascosa Central Appraisal District Atascosa County Athens Municipal Water Authority Austin County Austin County Appraisal District Austin County Emergency Communications District Austin County Emergency Services District #2

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Bacliff Municipal Utility District Bailey County Ballinger Memorial Hospital District Bandera County Bastrop Central Appraisal District Bastrop County Bastrop County Emergency Services District #1 Bastrop County Emergency Services District #2 Bastrop County Water Control and Improvement District 2 **Bastrop Travis Counties Emergency Services** District #1 **Baylor County Baylor County Appraisal District** Bavview Irrigation District #11 Bayview Municipal Utility District Bee County Bee County Appraisal District **Bell County** Bell County Appraisal District Bell County Water Control and Improvement District #1 Bell County Water Control and Improvement District 3 Benbrook Water Authority **Bexar Appraisal District** Bexar County Bexar County Emergency Service District No.2 Bexar County Emergency Service District 5 Bexar County Emergency Services District #6 Bexar County Emergency Services District 7 Bexar County Emergency Services District No. 8 Bexar County Emergency Services District #10 Bexar County Emergency Services District

No. 11

Bexar County Emergency Services District #12 Bexar County Water Control and Improvement District #10 Bexar Metro 9-1-1 Network District Bexar-Medina-Atascosa WCID #1 Bistone Municipal Water Supply District -Limestone County Blanco County Blanco County Emergency Services District No. 2 Bluebonnet Groundwater Conservation District Borden County Borden County Appraisal District **Bosque County** Bosque County Central Appraisal District Bowie County Brazoria County Brazoria County Appraisal District Brazoria County Conservation and Reclamation District #3 Brazoria County Drainage District #4 Brazoria County Drainage District #5 Brazoria County Emergency Services District No. 3 Brazos Central Appraisal District Brazos County Brazos County Emergency Communications District Brazos Regional Public Utility Agency Brazos River Authority Brazos Transit District Brazos Valley Council of Governments Brazos Valley Groundwater Conservation District Brewster County Brewster County Appraisal District Bright Star-Salem Special Utility District Briscoe County Brookeland Fresh Water Supply District Brookesmith Special Utility District Brooks County Brookshire - Katy Drainage District **Brookshire Municipal Water District** Brown County Brownsville Irrigation District Brush Country Groundwater Conservation District Brushy Creek Municipal Utility District -Williamson County Burleson County **Burleson County Appraisal District** Burnet Central Appraisal District **Burnet County** С

Caldwell County Caldwell County Appraisal District **Calhoun County** Calhoun County Appraisal District Calhoun County E911 Emergency Communications District Callahan County Callahan County Appraisal District Cameron County **Cameron County Appraisal District** Cameron County Drainage District #1 Cameron County Drainage District #3 Cameron County Drainage District #5 Cameron County Emergency Communication District Cameron County Irrigation District #2 Cameron County Irrigation District #6 Cameron County Regional Mobility Authority Camp Central Appraisal District Camp County Caney Creek Municipal Utility District Canyon Lake Community Library District Canyon Regional Water Authority Carson County Cass County Cass County Appraisal District Castro County Central Appraisal District of Bandera County Central Appraisal District of Johnson County Central Appraisal District of Taylor County Central Texas Groundwater Conservation District Central Texas Regional Mobility Authority Central Water Control and Improvement District - Angelina County Chambers County Chambers County Appraisal District **Chambers County Public Hospital District Chambers-Liberty Counties Navigation District** Cherokee County Childress County Childress County Appraisal District Childress County Hospital District Childress Housing Authority Clay County **Clay County Appraisal District** Coastal Bend Groundwater Conservation District Coastal Plains Groundwater Conservation District Cochran County Cochran County Appraisal District Coke Central Appraisal District Coke County Coke County Soil and Water Conservation District #219 Coleman County Collin County Collin County Central Appraisal District Collingsworth County Collingsworth County Appraisal District Colorado County **Comal Appraisal District** Comal County Comal County Emergency Services District #3 **Comanche Central Appraisal District** Comanche County **Combined Consumers Special Utility District** Concho Central Appraisal District Concho County Concho County Hospital District Concho Valley Council of Governments Cooke County Cooke County Appraisal District Corvell County Cottle County Cow Creek Groundwater Conservation District Crane County Crane County Appraisal District Crane County Hospital District Crockett County

Crockett County Appraisal District Crockett County Water Control and Improvement District #1 Crosby County Crosby County Appraisal District Crosby Municipal Utility District Cross Roads Special Utility District Crystal Clear Special Utility District Culberson County Cypress Springs Special Utility District

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Dallam County

Dallam County Appraisal District **Dallas Central Appraisal District** Dallas County Dallas County Park Cities Municipal Utility District Dawson County Dawson County Central Appraisal District Deaf Smith County Deaf Smith County Hospital District Deep East Texas Council of Governments Delta County Delta County Appraisal District Delta County Municipal Utility District Delta Lake Irrigation District Denco Area 9-1-1 District - Denton County **Denton Central Appraisal District** Denton County Denton County Fresh Water Supply District #10 Denton County Transportation Authority DeWitt County **DeWitt County Appraisal District Dickens County** Dickens County Appraisal District **Dimmit County Donley County Duval Countv** Duval County Appraisal District **Duval County Groundwater Conservation** District

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East Central Special Utility District East Fork Special Utility District East Harris County Emergency Services Joint **Powers Board** East Medina County Special Utility District East Texas Council of Governments East Texas Municipal Utility District of Smith County Eastland County Eastland County Appraisal District Ector County Ector County Appraisal District Ector County Hospital District Edwards Aquifer Authority - Bexar County Edwards Central Appraisal District Edwards County El Paso Central Appraisal District El Paso County El Paso County 9-1-1 District El Paso County Emergency Services District #1 El Paso County Emergency Services District #2 El Paso County Hospital District El Paso County Water Improvement District No. 1

El Paso Mental Health and Mental Retardation Electra Housing Authority Ellis Appraisal District Ellis County Emerald Bay Municipal Utility District Emergency Communication District of Ector County Erath County Erath County Appraisal District

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Falls County Falls County Appraisal District Fannin Central Appraisal District Fannin County Fayette County Fern Bluff Municipal Utility District **Fisher County** Fisher County Appraisal District Fisher County Hospital District Floyd County Foard County Foard County Appraisal District Fort Bend Central Appraisal District Fort Bend County Fort Bend County Emergency Services District 2 Fort Bend County Emergency Services District #4 Fort Bend County Emergency Services District #7 Fort Bend County Water Control and Improvement District #2 Fort Clark Municipal Utility District Fort Griffin Special Utility District Four Way Special Utility District Franklin County Freer Water Control & Improvement District Freestone County Freestone County Appraisal District Frio County Frio County Appraisal District

Gaines County Gaines County Appraisal District Galveston Central Appraisal District Galveston County Galveston County Consolidated Drainage District Galveston County Drainage District #1 Galveston County Drainage District #2 Galveston County Emergency Communication Dist. Galveston County Fresh Water Supply District #6 Galveston County Health District Galveston County Water Control and Improvement District #1 Galveston County Water Control & Improvement District No. 8 Garza Central Appraisal District Garza County Garza County Health Care District Gillespie Central Appraisal District Gillespie County Gillespie County Soil and Water Conservation District Glasscock County

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Glasscock County Appraisal District Goliad County **Gonzales Central Appraisal District** Gonzales County **Gonzales County Emergency Services** District #1 Graham Regional Medical Center Gray County Gray County Appraisal District Grayson Central Appraisal District Grayson County Greater Harris County 9-1-1 Emergency Network Greenbelt Municipal & Industrial Water Authority - Donley County Gregg County Grimes County Grimes County Appraisal District **Guadalupe Appraisal District** Guadalupe County Guadalupe County Groundwater Conservation District Guadalupe-Blanco River Authority Gulf Coast Protection District Gulf Coast Water Authority - Galveston County

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Hale County Hall County Hall County Appraisal District Hamilton County Hamilton County Appraisal District Hansford County Hansford County Hospital District Hardeman County Hardin County Hardin County Appraisal District Hardin County Emergency Services District # 2 Harlingen Irrigation District Cameron County #1 Harris County Harris County Appraisal District Harris County Emergency Services District #24 Harris County Emergency Services District #29 Harris County Emergency Services District #48 Harris County Emergency Services District #50 Harris County Emergency Services District #7 Harris County Emergency Services District 10 Harris County Emergency Services District 12 Harris County Emergency Services District 17 Harris County Emergency Services District 9 Harris County Emergency Services District No. 11 Harris County Emergency Services District No. 13 Harris County Emergency Services District No. 46 Harris County Fresh Water Supply District 61 Harris County Housing Authority Harris County Sports & Convention Corporation Harris County Water Control and Improvement District #1 Harris County Water Control and Improvement District #36 Harris County Water Control and Improvement District #50 Harris Fort Bend Emergency Services District #100

2021 Annual Comprehensive Financial Report

Harrison County Hartlev County Hartley County Appraisal District Haskell County Haskell Memorial Hospital District Havs County Hays County Emergency Services District #4 Hays County Emergency Services District #5 Hays County Emergency Services District #6 Hays County Emergency Services District #8 Heart of Texas Council of Governments Hemphill County Hemphill County Appraisal District Hemphill County Hospital District Hemphill County Underground Water Conservation District Henderson County Henderson County 9-1-1 Communications District Henderson County Appraisal District Hickory Creek Special Utility District Hidalgo and Cameron Counties Irrigation District #9 Hidalgo County Hidalgo County Appraisal District Hidalgo County Drainage District #1 Hidalgo County Irrigation District #1 Hidalgo County Irrigation District #2 Hidalgo County Irrigation District #6 Hidalgo Municipal Utility District #1 High Plains Underground Water Conservation District #1 High Point Special Utility District Hill County Hocklev County Hockley County Appraisal District Hood Central Appraisal District Hood County Hopkins County Hopkins County Appraisal District Housing Authority of Starr County Housing Authority of the City of Edinburg Texas Housing Authority of the City of Kirbyville Housing Authority of the City of Knox City Housing Authority of the City of Mercedes Texas Housing Authority of the City of Mission Housing Authority of the City of Munday Housing Authority of Travis County Houston County Houston County Appraisal District Howard County Howard County Appraisal District Hudspeth County Hunt County Hunt County Appraisal District Hurst Creek Municipal Utility District Hutchinson County

Hutchinson County Appraisal District

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Iraan General Hospital District

Irion County Irion County Appraisal District

Jack County

Jack County Appraisal District Jackson County Jackson County Appraisal District Jackson County County-Wide Drainage District Jackson County Emergency Services District No. 3 Jasper County Jasper County Appraisal District Jasper County Water Control and Improvement District #1 Jeff Davis County Jefferson Central Appraisal District Jefferson County Jefferson County Drainage District #3 Jefferson County Drainage District #6 Jefferson County Drainage District #7 Jefferson County Water Control and Improvement District #10 Jim Hogg County Jim Hogg County Appraisal District Jim Hogg County Emergency Services District #1 Jim Hogg County Water Control and Improvement District #2 Jim Wells County Johnson County Johnson County Emergency Services District #1 Jonah Water Special Utility District Jones County Jones County Appraisal District К

Karnes County

Karnes County Appraisal District Karnes County Hospital District Kaufman County Kaufman County Appraisal District Kendall Appraisal District Kendall County Kendall County Water Control and Improvement District #1 Kenedy County Kenedy County Central Appraisal District Kenedy County Fire & Emergency Services District No. 1 Kent County Kent County Tax Appraisal District Kerr County Kerr County Soil and Water Conservation District Kerr Emergency 9-1-1 Network Kimble Central Appraisal District Kimble County King County King County Appraisal District Kinney County Kinney County Appraisal District Kleberg County Knox County

La Salle County

La Salle County Appraisal District Laguna Madre Water District - Cameron County Lake Cities Municipal Utility Authority Lake Fork Special Utility District Lake Kiowa Special Utility District Lakeway Municipal Utility District - Travis County Lamar County Lamar County Appraisal District Lamb County Lampasas Central Appraisal District Lampasas County Lavaca - Navidad River Authority - Jackson County Lavaca County Lee Central Appraisal District Lee County Leon County Leon County Central Appraisal District Liberty County Liberty County Central Appraisal District Limestone County Limestone County Appraisal District Lipscomb County Live Oak County Live Oak County Appraisal District Llano Central Appraisal District Llano County Loving County Loving County Appraisal District Lower Trinity Groundwater Conservation District Lower Valley Water District Lubbock Central Appraisal District Lubbock County Lubbock County Water Control and Improvement District #1 Lubbock Emergency Communication District Lubbock Reese Redevelopment Authority Lumberton Municipal Utility District Lvnn County Lynn County Appraisal District Lynn County Hospital District

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Macedonia - Eylau Municipal Utility District -Bowie County Mackenzie Municipal Water Authority - Briscoe County Madison County Madison County Appraisal District Marion County Marion County Appraisal District Marion-Cass Soil and Water Conservation District Marshall-Harrison County Health District Martin County Martin County Appraisal District Mason County Mason County Soil & Water Conservation District #223 Matagorda County Matagorda County Appraisal District Matagorda County Drainage District Matagorda County Hospital District Matagorda County Navigation District #1 Maverick County Maverick County Hospital District Maverick County Water Control and Improvement District #1 McCamey County Hospital District McCulloch County McCulloch County Appraisal District

McLennan County McLennan County 9-1-1 Emergency Assistance District McLennan County Appraisal District McLennan County Water Control and Improvement District #2 McMullen Central Appraisal District McMullen County Medical Arts Hospital - Dawson County Medina County Medina County 911 District Medina County Appraisal District Medina County Emergency Services District #1 Memorial Medical Center - Calhoun County Menard County Menard County Hospital District Menard County Underground Water District Mesa Underground Water Conservation District Middle Rio Grande Development Council Midland Central Appraisal District Midland County Midland Emergency Communication District Milam Appraisal District Milam County Mills Central Appraisal District Mills County Mitchell County Mitchell County Appraisal District Monahans Housing Authority Montague County Montague County Tax Appraisal District Montgomery Central Appraisal District Montgomery County Montgomery County Emergency Communication District Montgomery County Emergency Service District No 3 Montgomery County Emergency Services District #4 Montgomery County Emergency Services District 7 Montgomery County Emergency Services District #8 Montgomery County Emergency Services District 9 Montgomery County Emergency Services District No. 10 Montgomery County ESD 1 Montgomery County Hospital District Montgomery County Housing Authority Moore County Moore County Appraisal District Moore County Hospital District Morris County Morris County Appraisal District Mustang Special Utility District N Nacogdoches Central Appraisal District

Nacogdoches Central Appraisal District Nacogdoches County Navarro Central Appraisal District Navarro County Newton Central Appraisal District Newton County Nolan County Nortex Regional Planning Commission North Blanco County Emergency Services District No. 1

North Central Texas Municipal Water Authority North East Texas Regional Mobility Authority North Hunt Special Utility District North Plains Groundwater Conservation District North Texas Emergency Communication Center North Texas Tollway Authority Northeast Gaines County Emergency Services District #1 Northeast Texas Municipal Water District Northeast Texas Public Health District Northern Trinity Groundwater Conservation District Nueces County Nueces County Appraisal District Nueces County Drainage District #2 Nueces County Emergency Services District #2 Nueces County Water Control and Improvement District #3 Nueces County Water Control and Improvement District #4

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Ochiltree County Ochiltree County Appraisal District Oldham County Oldham County Appraisal District Orange County Appraisal District Orange County Appraisal District Orange County Drainage District Orange County Emergency Services District # 1 Orange County Emergency Services District #2 Orange County Navigation and Port District Orange County Water Control and Improvement District #1

Palo Duro Water District Palo Pinto Appraisal District Palo Pinto County Panola County Parker County Parker County Appraisal District Parker County Emergency Services District No. 1 Parker County Hospital District Parker County Special Utility District Parmer County Parmer County Appraisal District Pecan Valley Groundwater Conservation District Pecos County Pecos County Appraisal District Pecos County Water Control & Improvement District #1 Permian Basin Regional Planning Commission Permian Regional Medical Center Pineywoods Groundwater Conservation District Polk Central Appraisal District Polk County Polk County Fresh Water Supply District #2 Port of Bay City Authority Port of Beaumont Navigation District Port of Corpus Christi Authority Port of Port Arthur Navigation District Post Oak Savannah Groundwater Conservation District

Potter - Randall County Emergency Communication District Potter County Prairielands Groundwater Conservation District Presidio Appraisal District Presidio County

Rains County Rains County Appraisal District Randall County Randall County Appraisal District Rankin County Hospital District - Upton County Rayburn Country Municipal Utility District Reagan County **Reagan Hospital District** Real County Real County Appraisal District Red Bluff Water Power Control District -**Reeves County** Red River Appraisal District Red River Authority Red River County Red River County Soil and Water Conservation District Reeves County **Reeves County Appraisal District Reeves County Emergency Service** District No. 1 **Reeves County Emergency Service** District No. 2 **Reeves County Hospital District Refugio County** Refugio County Drainage District #1 Regional Public Defender Office Local Government Corporation **Rio Grande Council of Governments Riverside Special Utility District Roberts County** Robertson County Robertson County Appraisal District **Robertson County Emergency Services District** Rockwall Central Appraisal District Rockwall County **Runnels County** Rusk County Rusk County Appraisal District Rusk County Groundwater Conservation District

Sabine County

Sabine County Appraisal District Sabine Pass Port Authority Sabine-Neches Navigation District of Jefferson County Texas San Augustine County San Jacinto County San Jacinto County Central Appraisal District San Jacinto County Emergency Services District San Marcos Housing Authority San Patricio County San Patricio County Appraisal District San Patricio County Drainage District San Patricio County Navigation District #1 San Patricio Municipal Water District

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San Saba County Santo Special Utility District Schleicher County Scurry County Scurry County Appraisal District Scurry County Hospital District Seis Lagos Utility District Shackelford County Shackelford County Appraisal District Shelby County Shelby County Appraisal District Sherman County Sherman County Appraisal District Smith County Smith County 9-1-1 Communications District Smith County Appraisal District Smith County Emergency Services District #2 Somervell County Somervell County Central Appraisal District Somervell County Water District South Plains Association of Governments South Rains Special Utility District South Texas Development Council Southeast Texas Groundwater Conservation District Southwest Fannin Special Utility District STAR Transit Starr County Starr County Appraisal District Stephens County Stephens County Tax Appraisal District Sterling County Sterling County Appraisal District Stonewall County Stonewall County Appraisal District Stonewall Memorial Hospital District Stratford Hospital District - Sherman County Sutton County Sutton County Hospital District Swisher County Swisher County Appraisal District

Talty Special Utility District

Tarrant Appraisal District Tarrant Co. 9-1-1 Emergency Assistance District Tarrant County Tax Appraisal District of Cottle County Taylor County **Terrell County** Terrell County Water Control & Improvement District #1 Terry County Terry Memorial Hospital District Texas Association of Counties Texas County & District Retirement System Texas Eastern 9-1-1 Network The City of Quanah Housing Authority The Housing Authority of the City of Abilene The Housing Authority of the City of Huntington The Housing Authority of the City of Pharr Texas The Housing Authority of the County of Hidalgo Texas Throckmorton Central Appraisal District Throckmorton County

Titus County Titus County Appraisal District Titus County Fresh Water Supply District Tom Green County Travis Central Appraisal District Travis County Travis County Emergency Services District #1 Travis County Emergency Services District #2 Travis County Emergency Services District #5 Travis County Emergency Services District 12 Travis County Emergency Services District No. 11 Tri-County Special Utility District Trinity Bay Conservation District Trinity County Trinity County Appraisal District Trinity Glen Rose Groundwater Conservation District Trophy Club Municipal Utility District No. 1 Two Way Special Utility District Tyler County Tyler County Appraisal District

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United Irrigation District - Hidalgo County Upper Brushy Creek Water Control and Improvement District Upper Leon River Municipal Water District Upper Sabine Valley Solid Waste Management District Upper Trinity Groundwater Conservation District Uppshur County Upton County Upton County Upton County Appraisal District Uvalde County Appraisal District

Val Verde County

Valley Municipal Utility District #2 - Cameron County Valwood Improvement Authority - Dallas County Van Zandt County Van Zandt County Appraisal District Velasco Drainage District - Brazoria County Victoria County Victoria County Drainage District #3 Victoria County Groundwater Conservation District

Walker County

Walker County Appraisal District Walker County Appraisal District Walker County Emergency Service District #2 Walker County Special Utility District Waller County Waller County Appraisal District Waller-Harris County Emergency Services District 200 Ward County Ward County Ward County Central Appraisal District Ward Memorial Hospital Washington County Webb County Webb County Webb County Appraisal District West Central Texas Council of Governments West Central Texas Municipal Water District West Jefferson County Municipal Water District West Nueces-Las Moras Soil and Water Conservation District #236 West Travis County Public Utility Agency Wharton County Wharton County Central Appraisal District Wharton County Water Control and Improvement District #1 Wharton County Water Control and Improvement District No. 2 Wheeler County Wheeler County Appraisal District White River Municipal Water District - Dickens County Wichita Appraisal District Wichita County Wichita County Water Improvement District #2 Wichita-Wilbarger 9-1-1 District Wickson Creek Special Utility District - Brazos County Wilbarger County Wilbarger County Appraisal District Wilbarger County Hospital District Willacy County Willacy County Appraisal District Willacy County Housing Authority Williamson Central Appraisal District Williamson County Williamson County Emergency Services District #3 Williamson County Emergency Services District #5 Williamson County Emergency Services District #7 Williamson County Emergency Services District No. 4 Wilson County Wilson County Appraisal District Wilson County Emergency Services District #1 Wilson County Emergency Services District #3 Winkler County Winkler County Appraisal District Winkler County Hospital District Wintergarden Groundwater Conservation District Wise County Wise County Appraisal District Wood County Wood County Appraisal District Woodbine Special Utility District Wylie Northeast Special Utility District

Yoakum County

Yoakum County Appraisal District Young Central Appraisal District Young County

Zapata County

Zapata County Zapata County Appraisal District Zapata Soil and Water Conservation District Zavala County Zavala County Appraisal District

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PEDERNALES FALLS STATE PARK, BLANCO COUNTY

2. FINANCIAL

EMPLOYER PLAN FLEXIBILITY

TCDRS administers unique plans for more than 830 Texas counties and districts. Each year, employers have the flexibility and local control to make plan changes that balance their unique needs and budgets. This allows our employers to compete with the private sector by providing reliable retirement benefits at affordable rates.



KPMG LLP Suite 1900 111 Congress Avenue Austin, TX 78701-4091

Independent Auditors' Report

The Board of Trustees Texas County & District Retirement System

Opinion

We have audited the financial statements of the Texas County & District Retirement System (TCDRS), as of and for the years ended December 31, 2021 and 2020, and the related notes to the financial statements, which collectively comprise TCDRS' basic financial statements for the years then ended as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, fiduciary net position of Texas County & District Retirement System as of December 31, 2021 and 2020, and the changes in its fiduciary net position for the years then ended, in accordance with U.S. generally accepted accounting principles.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). 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 TCDRS and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with U.S. generally accepted accounting principles, 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 TCDRS' 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.

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 opinion. 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 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, 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
 TCDRS' internal control. Accordingly, no such opinion is expressed.

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- 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 TCDRS' 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.

Required Supplementary Information

U.S. generally accepted accounting principles require that the Management's Discussion and Analysis and the Schedule of Money-Weighted Rates of Return 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 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 audits of the basic financial statements. We do not express an opinion or provide any assurance.

Supplementary Information

Our audit for the year ended December 31, 2021 was conducted for the purpose of forming an opinion on the financial statements that collectively comprise TCDRS' basic financial statements for the year ended December 31, 2021. The Other Supplementary Information - Changes in Fiduciary Net Position by Fund and Interfund Transfers, Changes in Endowment Fund, Changes in Income Fund, Administrative Revenues and Expenses, Investment Expenses, and Professional and Consulting Services for the year ended December 31, 2021 are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements for the year ended December 31, 2021 and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Other Supplementary Information - Changes in Fiduciary Net Position by Fund and Interfund Transfers, Changes in Endowment Fund, Changes in Income Fund, Administrative Revenues and Expenses, Investment Expenses, and Professional and Consulting Services are fairly stated, in all material respects, in relation to the basic financial statements as a whole for the year ended December 31, 2021.

Other Information

Management is responsible for the other information included in the annual comprehensive financial report. The other information comprises the Introductory Section, the Investment Section, the Actuarial Section, and the Statistical Section but does not include the basic financial statements and our auditors' report thereon. Our opinion on the basic financial statements does not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audits of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

KPMG LLP

Austin, Texas June 3, 2022

INTRODUCTION

This section provides an overview and analysis of the system's financial position and performance, focusing on the current year's results, changes in those results (including three-year trends), and other currently known information. Readers are encouraged to consider this information in conjunction with information provided in other areas of the Financial Section, as well as information presented in the Letter of Transmittal in the Introductory Section.

OVERVIEW OF THE FINANCIAL STATEMENTS

The basic financial statements consist of the Statements of Fiduciary Net Position, Statements of Changes in Fiduciary Net Position and the Notes to the Financial Statements. Required Supplementary Information and Other Supplementary Information are also presented.

- The Statements of Fiduciary Net Position report the assets less liabilities and the resulting net position restricted for pension or insurance benefits at the end of 2021, compared to 2020.
- The Statements of Changes in Fiduciary Net Position report the transactions that occurred during 2021 and 2020 for which additions less deductions equal the net increase or decrease in fiduciary net position.
- Notes to the Financial Statements include additional information not readily evident in the statements themselves. The notes are considered essential to a full understanding of the information provided in the financial statements.
- Required Supplementary Information provides the money-weighted rate of return information.
- Other Supplementary Information provides detailed information, including activity by fund, administrative and investment expenses, and professional and consultant fees and services. These schedules support summary data presented in the basic financial statements.

TCDRS operates two trusts, both of which are accounted for as fiduciary funds. The Pension Trust Fund accounts for and provides retirement, disability and survivor benefits to the employees of participating employers. The Group Term Life Fund (GTLF or Group Term Life) provides a program of group term life insurance for the employees and, if covered, retirees of electing employers. No assets of the Pension Trust Fund may be used to pay any insurance benefit due from the GTLF, nor may assets of the GTLF be used to pay any benefit due from the Pension Trust Fund. Discussion and analysis is provided separately for each of the two trusts.

The Statements of Fiduciary Net Position and Statements of Changes in Fiduciary Net Position show financial information for both the Pension Trust Fund and the GTLF.

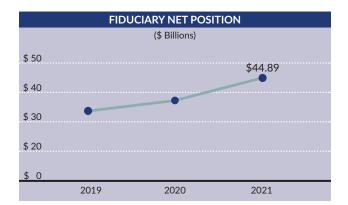
FINANCIAL ANALYSIS: PENSION TRUST FUND

The Pension Trust Fund is comprised of six individual funds, each with a specific operational purpose. Note A in the Notes to the Financial Statements has additional information about each of these funds.

Summary information about fiduciary net position and the changes in fiduciary net position showing comparative detail for 2021, 2020 and 2019 is presented on page 23.

Net position (the amount that assets exceed liabilities) restricted for pensions at year end 2021 totaled \$44.89 billion. The 2020 amount was \$37.11 billion and for 2019 was \$33.83 billion. In 2021, the fiduciary net position increased by \$7.78 billion, in 2020 it increased by \$3.28 billion, and in 2019 it increased by \$4.57 billion.

The increase in 2021 fiduciary net position was primarily due to a net investment gain of \$8.12 billion, a 22.0% overall return, net of all fees. Net investment results for 2021 consist of the appreciation in fair value of investments of \$8.03 billion, plus \$146 million in interest and dividends, net income from securities-lending activity of \$1.6 million, less \$57 million of investment activity expenses. Net investment gain in 2020 was \$3.50 billion and in 2019 was a gain of \$4.81 billion.



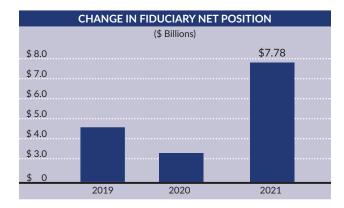
		Pension Trust (\$ Millions					
		Dec. 31,		2021	- 2020	2020	- 2019
	2021	2020	2019	\$ Change	% Change	\$ Change	% Change
Assets							
Investments, at Fair Value	\$ 44,784	\$ 37,004	\$ 33,733	\$ 7,780	21.0%	\$ 3,271	9.7%
Invested Securities-Lending Collateral	447	303	438	144	47.5	(135)	(30.8)
Receivables, Cash and Cash Equivalents, Other	179	166	159	13	7.8	7	4.4
Capital Assets, Net	15	16	17	(1)	(6.3)	(1)	(5.9)
Total Assets	45,425	37,489	34,347	7,936	21.2	3,142	9.2
Liabilities							
Securities-Lending Collateral	447	303	438	144	47.5	(135)	(30.8)
Other Liabilities	86	78	75	8	10.3	3	4.0
Total Liabilities	533	381	513	152	39.9	(132)	(25.7)
Net Position Restricted for Benefits	\$ 44,892	\$ 37,108	\$ 33,834	\$ 7,784	21.0%	\$ 3,274	9.7%

Due to rounding, totals and detail may not equal. Percentages shown are based on rounded amounts and may differ slightly from actual.

SUMMARY INFORMATION ABOUT CHANGES IN FIDUCIARY NET POSITION

		Pension Trust F (\$ Millions)			
		Dec. 31,		2021 - 2020	2020 - 2019
Additions	2021	2020	2019	\$ Change % Change	\$ Change % Change
Additions					
Employee Deposits	\$ 550	\$ 536	\$ 498	\$ 14 2.6%	\$ 38 7.6%
Employer Contributions	1,073	1,034	939	39 3.8	95 10.1
Net Investment Results	8,117	3,497	4,807	4,620 132.1	(1,310) (27.3)
Other Income	2	2	2	0 0.0	0 0.0
Total Additions	9,742	5,069	6,246	4,673 92.2	(1,177) (18.8)
Deductions					
Benefits Paid	1,827	1,678	1,551	149 8.9	127 8.2
Withdrawals	103	85	92	18 21.2	(7) (7.6)
Administrative Expenses	24	27	26	(3) (11.1)	1 3.8
Other Expenses	5	5	5	0 0.0	0 0.0
Total Deductions	1,959	1,795	1,674	164 9.1	121 7.2
Net Increase (Decrease) in Fiduciary Net Position	7,784	3,274	4,572	4,509 137.7	(1,298) (28.4)
Net Position Restricted for Benefits	\$ 44,892	\$ 37,108	\$ 33,834	\$ 7,784 21.0%	\$ 3,274 9.7%

Due to rounding, totals and detail may not equal. Percentages shown are based on rounded amounts and may differ slightly from actual.



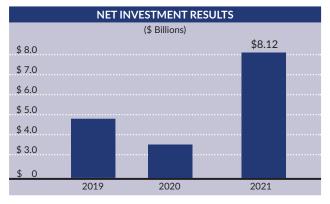
2021 was a strong year for investment markets with most major asset classes increasing in value. Both monetary and fiscal stimulus continued to stimulate the global economy throughout the year. The strong economic backdrop boosted the returns of most investments over the course of 2021. The results from investing activities for all asset classes, net of all fees, are presented on page 57.

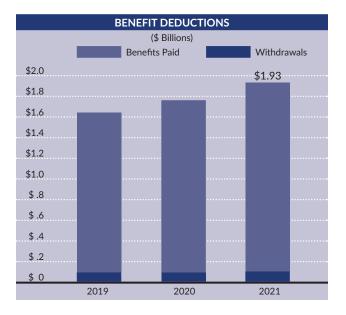
Additions to fiduciary net position in 2021 included \$550 million in employee deposits and \$1.07 billion in employer contributions. Employee deposits increased \$14 million and employer contributions rose \$39 million over 2020 amounts. In 2020, employee deposits increased by \$38 million and employer contributions rose by \$95 million. Together, employee deposits and employer contributions increased during 2021 by 3.4% and in 2020 by 9.3% over the previous year's amounts.

Deductions for benefits paid and withdrawals for 2021 were \$1.93 billion, a 9.5% increase over the previous year. These deductions for 2020 were \$1.76 billion, a 7.3% increase over 2019, and in 2019, these deductions were \$1.64 billion, a 9.9% increase over 2018. Higher deductions in 2021 and 2020 were due to several factors, including increases in the number of retiree and beneficiary accounts in 2021 (a 4.8% increase) and in 2020 (a 5.3% increase) along with higher average benefits. Withdrawals increased by \$18 million in 2021 and decreased by \$7 million in 2020.

OTHER CURRENTLY KNOWN INFORMATION: PENSION TRUST FUND

TCDRS' investment return for 2021 was 22.0% net of fees, outperforming its benchmark return of 17.2% by 4.8%.





FINANCIAL ANALYSIS: GROUP TERM LIFE FUND (GTLF)

The GTLF provides an optional program of group term life insurance for the employees and, if covered, retirees of electing employers. An actuarial valuation is performed annually to determine employers' premium rates and to maintain adequate funding over the long term. Based on actuarial analysis, the amount of fiduciary net position is expected to be sufficient to cover any adverse experience that may occur.

Summary information about fiduciary net position and the changes in fiduciary net position showing comparative detail for 2021, 2020 and 2019 is presented on page 25.

The net position restricted for insurance benefits at year end 2021 was \$43.6 million, an increase of \$1.0 million (2.3%) over the 2020 amount. The increase is due to an interest allocation of \$2.9 million, along with a \$1.9 million decrease in operating income (lower employer premiums than insurance benefits).

SUMMARY INFORMATION ABOUT FIDUCIARY NET POSITION

		Group Term	Life Fund		
		Dec. 31,		2021 - 2020	2020 - 2019
	2021	2020	2019	\$ Change % Change	\$ Change % Change
Total Assets	\$ 44,625,324	\$ 43,810,954	\$ 42,316,669	\$ 814,370 1.9%	\$ 1,494,285 3.5%
Total Liabilities	1,033,943	1,191,274	922,073	(157,331) (13.2)	269,201 29.2
Net Position Restricted for Benefits	\$ 43,591,381	\$ 42,619,680	\$ 41,394,596	\$ 971,701 2.3%	\$ 1,225,084 3.0%

SUMMA	RY INFORMAT	ION ABOUT CH	IANGES IN FIDUC	CIARY NET POSI	ΓΙΟΝ		
		Group Term	n Life Fund				
		Dec. 31,		2021 - 2	2020	2020 - 2	2019
	2021	2020	2019	\$ Change 9	6 Change	\$ Change %	6 Change
Additions							
Employer Premiums	\$ 4,778,158	\$ 4,647,511	\$ 4,357,410	\$ 130,647	2.8%	\$ 290,101	6.7%
Income Allocation from Pension Trust Fund	2,892,692	2,856,996	2,715,200	35,696	1.2	141,796	5.2
Total Additions	7,670,850	7,504,507	7,072,610	166,343	2.2	431,897	6.1
Deductions							
Insurance Benefits	6,699,149	6,279,423	4,453,463	419,726	6.7	1,825,960	41.0
Total Deductions	6,699,149	6,279,423	4,453,463	419,726	6.7	1,825,960	41.0
Net Increase in Fiduciary Net Position	971,701	1,225,084	2,619,147	(253,383)	(20.7)	(1,394,063)	(53.2)
Net Position Restricted for Benefits	\$ 43,591,381	\$ 42,619,680	\$ 41,394,596	\$ 971,701	2.3%	\$ 1,225,084	3.0%

For the year ended 2021, employer premiums increased \$0.1 million (2.8%), while insurance benefits rose \$0.4 million (6.7%) related to more active members and retirees having claims (up 19.1% and 13.2%, respectively), offset by a decease in average claim amounts by active members of 12.5%.

At year end 2020, the net position restricted for insurance benefits was \$42.6 million, which was an increase of \$1.2 million (3.0%) over the 2019 amount.

For the year ended 2020, employer premiums increased \$0.3 million while insurance benefits rose \$1.8 million.

REQUESTS FOR INFORMATION

This annual report is designed to provide a general overview of TCDRS' finances. Questions concerning any of the information provided in this report or requests for additional information should be addressed to TCDRS, Finance Division, Barton Oaks Plaza IV, Ste. 500, 901 S. MoPac Expy., Austin, TX 78746 or you can send an email to openrecords@ TCDRS.org.

BASIC FINANCIAL STATEMENTS

_		Dec. 31, 2021			Dec. 31, 2020	
	Pension Trust Fund	Group Term Life Fund	Total	Pension Trust Fund	Group Term Life Fund	Total
ASSETS						
Cash and Cash Equivalents	\$ 28,650,849	\$ -	\$ 28,650,849	\$ 23,296,600	\$ -	\$ 23,296,600
Receivables:						
Contributions	131,741,218	-	131,741,218	127,847,436	-	127,847,436
Investment Interest and Dividends	12,733,436	-	12,733,436	12,198,321	-	12,198,321
Securities-Lending Interest	133,076	-	133,076	137,985	_	137,985
Foreign Currency & Exchange Contra	acts 6,544	-	6,544	4,908	_	4,908
Employer Premiums	_	272,786	272,786	_	271,988	271,988
Other	285,628	-	285,628	233,895	-	233,895
Total Receivables	144,899,902	272,786	145,172,688	140,422,545	271,988	140,694,533
Prepaid Expenses and Other Assets	5,137,265	-	5,137,265	2,258,713	_	2,258,713
Investments, at Fair Value:						
U.S. Equities	6,369,760,673	-	6,369,760,673	5,238,105,367	-	5,238,105,367
International Equities	4,704,428,239	-	4,704,428,239	5,056,361,309	-	5,056,361,309
Global Equities	1,553,628,407	-	1,553,628,407	1,272,403,121	-	1,272,403,121
Hedge Funds	2,908,697,362	-	2,908,697,362	3,473,720,461	-	3,473,720,461
Credit	11,145,569,641	-	11,145,569,641	8,841,421,428	_	8,841,421,428
Private Equity	11,415,342,893	-	11,415,342,893	7,849,596,739	-	7,849,596,739
REITs	1,447,140,636	-	1,447,140,636	1,038,345,623	-	1,038,345,623
Master Limited Partnerships	1,143,833,192	-	1,143,833,192	1,001,465,179	-	1,001,465,179
Private Real Estate Partnerships	1,958,964,452	-	1,958,964,452	1,185,948,583	-	1,185,948,583
Investment-Grade Bonds	1,045,376,299	-	1,045,376,299	1,059,415,046	-	1,059,415,046
Cash and Cash Equivalents	1,091,369,443	_	1,091,369,443	987,458,437	_	987,458,437
Total Investments	44,784,111,237	-	44,784,111,237	37,004,241,293	-	37,004,241,293
Invested Securities-Lending Collateral	447,175,132	_	447,175,132	302,541,902	_	302,541,902
Funds Held by Pension Trust Fund	-	44,352,538	44,352,538	_	43,538,966	43,538,966
Capital Assets, net	15,127,841	-	15,127,841	15,760,884	-	15,760,884
Total Assets	45,425,102,226	44,625,324	45,469,727,550	37,488,521,937	43,810,954	37,532,332,891
LIABILITIES						
Accounts and Investments Payable	41,299,025	-	41,299,025	34,243,127	-	34,243,127
Insurance Benefits Payable	_	1,033,943	1,033,943	-	1,191,274	1,191,274
Funds Held for Group Term Life Fund	44,352,538	-	44,352,538	43,538,966	-	43,538,966
Securities-Lending Collateral	447,175,132	-	447,175,132	302,541,902	-	302,541,902
Total Liabilities	532,826,695	1,033,943	533,860,638	380,323,995	1,191,274	381,515,269
Net Position Restricted for Benefits	\$44,892,275,531	\$43,591,381	\$ 44,935,866,912	\$ 37,108,197,942	\$ 42,619,680	\$37,150,817,622
See accompanying Notes to the Financial Sta	tements.					

STATEMENTS OF FIDUCIARY NET POSITION

See accompanying Notes to the Financial Statements.

STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION

-	Year	Ended Dec. 31,	2021	Year Ended Dec. 31, 2020			
	Pension Trust Fund	Group Term Life Fund	Total	Pension Trust Fund	Group Term Life Fund	Total	
ADDITIONS							
Contributions and Deposits							
Employee Deposits	\$ 550,152,286	\$ –	\$ 550,152,286	\$ 536,458,089	\$ -	\$ 536,458,089	
Employer Contributions	1,073,415,093	_	1,073,415,093	1,034,443,116	_	1,034,443,116	
Employer Premiums	_	4,778,158	4,778,158	_	4,647,511	4,647,511	
Total	1,623,567,379	4,778,158	1,628,345,537	1,570,901,205	4,647,511	1,575,548,716	
Investment Income							
From Investment Activities							
Net Appreciation in Fair Value of Investments	8,026,537,482	_	8,026,537,482	3,383,134,445	_	3,383,134,445	
Interest and Dividends	146,100,686	-	146,100,686	154,577,382	_	154,577,382	
– Total Investment Activity Income	8,172,638,168	-	8,172,638,168	3,537,711,827	_	3,537,711,827	
Less Investment Activity Expenses	56,823,837	-	56,823,837	43,515,258	_	43,515,258	
– Net Income from Investment Activities	8,115,814,331	_	8,115,814,331	3,494,196,569	_	3,494,196,569	
From Securities-Lending Activities							
Securities-Lending Income	1,865,264	-	1,865,264	4,525,792	_	4,525,792	
Less Securities-Lending Expenses:							
Borrower Rebates and Agent Fees	314,822	_	314,822	2,124,932	_	2,124,932	
Net Income from Securities-Lending Activities	1,550,442	_	1,550,442	2,400,860	_	2,400,860	
Total Net Investment Income	8,117,364,773	-	8,117,364,773	3,496,597,429	_	3,496,597,429	
Building Operations and Miscellaneous Income	1,765,526	_	1,765,526	1,818,132	_	1,818,132	
Income Allocation from Pension Trust Fund	_	2,892,692	2,892,692	_	2,856,996	2,856,996	
Total Additions	9,742,697,678	7,670,850	9,750,368,528	5,069,316,766	7,504,507	5,076,821,273	
DEDUCTIONS							
Benefits Paid	1,827,090,449	_	1,827,090,449	1,678,037,042	_	1,678,037,042	
Withdrawals	102,520,668	-	102,520,668	84,763,643	_	84,763,643	
Terminating Employers SAF Refunds	63,568	-	63,568	838	_	838	
Interest Allocation to Group Term Life Fund	2,892,692	_	2,892,692	2,856,996	_	2,856,996	
Insurance Benefits	-	6,699,149	6,699,149	_	6,279,423	6,279,423	
Administrative Operations Expenses	24,016,031	-	24,016,031	26,779,313	-	26,779,313	
Building Operations Expenses	2,036,680	-	2,036,680	2,191,521	_	2,191,521	
Total Deductions	1,958,620,088	6,699,149	1,965,319,237	1,794,629,353	6,279,423	1,800,908,776	
Net Increase in Net Position	7,784,077,589	971,701	7,785,049,290	3,274,687,413	1,225,084	3,275,912,497	
Net Position Restricted for Benefits:							
Beginning of Period, Jan. 1	37,108,197,942	42,619,680	37,150,817,622	33,833,510,529	41,394,596	33,874,905,125	
End of Period, Dec. 31	\$44,892,275,531	\$43,591,381	\$ 44,935,866,912	\$37,108,197,942	\$ 42,619,680	\$37,150,817,622	

See accompanying Notes to the Financial Statements.

A: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Reporting Entity

The Texas County & District Retirement System (TCDRS or system) was created in 1967 by the Texas Legislature. The system partners with Texas counties and districts to provide their employees with retirement, disability and survivor benefits. TCDRS is governed by the Texas Legislature and overseen by an independent board of trustees, which is responsible for the administration of the system. TCDRS does not receive state funding. Each plan is funded independently by the county or district, its employees and by investment earnings.

The TCDRS Board of Trustees provides leadership for the system, which serves more than 345,000 TCDRS members and retirees. Our independent, nine-member board is comprised of system members and retirees appointed by the governor and confirmed by the Texas Senate. TCDRS trustees serve staggered six-year terms and have oversight of all system operations, including the annual budget, policy determination, legislative proposals and investment policy. The board appoints an executive director to manage the dayto-day operations of TCDRS and chief investment officer to manage TCDRS investments.

The financial statements of TCDRS have been prepared to conform to generally accepted accounting principles as prescribed by the Governmental Accounting Standards Board (GASB). The accompanying financial statements report the operations of TCDRS, which consists of two fiduciary funds: the Pension Trust Fund and the Group Term Life Fund (GTLF). The Pension Trust Fund is used to provide retirement, survivor, disability and withdrawal benefits and to pay the operating expenses of the system. The GTLF is used to operate a voluntary program of group term life insurance benefits.

Basis of Accounting

The system's funds are maintained on the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when incurred, regardless of when payment is made. Employee deposits and employer contributions are recognized in the period the employer reports compensation for its employees pursuant to statutory requirements. Benefit payments are recognized when due and payable in accordance with the plans' terms. The preparation of financial statements in accordance with accounting principles generally accepted in the United States requires management to make estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

The system invests in a diversified portfolio of assets. Investments, in general, are exposed to various risks, such as interest rate, credit and market volatility. It is possible that changes in the values of investments will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

Basis of Presentation

TCDRS maintains separate funds and accounts in accordance with the TCDRS Act. This is done to help ensure observance of limitations and restrictions on the use of resources available to TCDRS.

In the Pension Trust Fund, the assets of all employer plans are pooled for investment purposes. However, each employer's plan is accounted for separately, so that each employer's assets are used only for the funding of its individual plan.

The costs of administering TCDRS are paid from investment earnings and general reserves of the pooled assets of all plans.

The TCDRS Act requires that all assets of the retirement system be credited to one of the following funds and accounts, according to the purpose for which they are held:

Employees Saving Fund

The Employees Saving Fund (ESF) contains an account for each member. Each account is increased as a member makes deposits and earns interest. Accounts are reduced due to withdrawals and retirement transfers.

Subdivision Accumulation Fund

The Subdivision Accumulation Fund (SAF) receives employer contributions and contains an account for each participating employer to fund retirement benefits. An account is increased as an employer makes contributions

and by transfers from members' ESF accounts at retirement. An account is decreased as employers pay benefits. Annually, the board decides on the income allocation to each employer's account based on investment earnings and the employer's plan assets. Employer accounts increase if there is a positive allocation of earnings; accounts decrease if there is a negative allocation.

Closed Subdivision Annuity Reserve Fund

The Closed Subdivision Annuity Reserve Fund (CSARF) is used to pay benefits to retirees of terminated plans. When a member retires from an employer that is terminated, amounts are transferred from the member's account to the CSARF to fund the member's retirement annuity.

Endowment Fund

The Endowment Fund contains accounts that hold the general reserves of the system, inactive accounts from the ESF and reserves to transfer to the Expense Fund for subsequent year operating expenses. Refer to the schedule of Changes in Endowment Fund on page 48.

General reserves are maintained in the Endowment Fund and have been used to keep rates stable and to help offset future adverse experience. The Endowment Fund may increase or decrease based on income allocation decisions by the board of trustees.

Income Fund

All investment income is credited to the Income Fund. It accounts for investment earnings and expenses, and annual allocations to other funds. The fund is reduced by investment expenses and by the statutory allocation of interest to the ESF, CSARF and GTLF. In addition, the board makes an allocation to the SAF.

If any excess exists after all allocations are made, the remainder is transferred to the Endowment Fund. Refer to the Changes in Income Fund schedule on page 49 for additional information.

Expense Fund

TCDRS pays administrative operating expenses from this fund. As mentioned in the Endowment Fund and the Income Fund, operating expenses are financed from general reserves at the beginning of the year, and the Income Fund finances the investment expenses. The Group Term Life Fund reports the net position available to pay insurance benefits for covered participants. Premiums paid by employers and an annual income allocation are added to the fund, while insurance benefits are paid from the fund.

Investments

Investments consist of a diversified portfolio, including equities, hedge funds, credit investments, private equity, real assets and investment-grade bonds along with cash and cash equivalents. The portfolio is further diversified within each of the asset classes.

Investment purchases and sales are recorded as of their trade dates. Separately managed fixed income, equity and debt securities are reported at fair value, and are primarily valued using ICE Data Services. U.S. and international commingled funds, hedge fund investments, real estate funds or similar private limited partnership investment vehicles that do not actively trade through established exchange mechanisms are valued by a general or managing partner. Security transactions and any resulting gains or losses are accounted for by the specific identification method on a trade-date basis.

For the years ended Dec. 31, 2021 and 2020, the annual money-weighted rate of return on investments, net of investment expenses, was 22.02% and 10.42%, respectively. The money-weighted rate of return expresses investment performance, net of investment expenses, adjusted for the changing amounts actually invested. In the Required Supplementary Information is a table of the annual moneyweighted rates of return for the 10-year period ended Dec. 31, 2021.

Capital Assets

Capital assets, which consist of land, building and improvements, software, and equipment and furniture are reported at historical cost and are depreciated on a straight-line basis over the estimated useful lives. TCDRS has elected to capitalize items that individually exceed \$5,000 and have a useful life of greater than one year. The estimated useful lives for building and improvements range from 5 to 40 years, for furniture, fixtures and equipment 3 to 10 years, and for leasehold improvements 3 to 40 years.

B: PLAN DESCRIPTION

Pension Trust Fund

TCDRS is a statewide, agent multiple-employer, public-employee retirement system. The system serves over 830 participating counties and districts throughout Texas. Each employer maintains its own customized plan of benefits. Plan provisions are adopted by the governing body of each employer, within the options available in the TCDRS Act. Employers have the flexibility and local control to adjust benefits annually and pay for those benefits based on their needs and budgets.

Each employer has a defined benefit plan that functions similarly to a cash balance plan. The assets of the plans are pooled for investment purposes, but each employer's plan assets may be used only for the payment of benefits to the members of that employer's plan. In accordance with Texas law, it is intended that the pension plan be construed and administered in a manner that the retirement system will be considered qualified under Section 401(a) of the Internal Revenue Code. All employees (except temporary staff) of a participating employer must be enrolled in the plan. Membership in TCDRS as of Dec. 31, 2021 and 2020 is summarized in Table 1 on page 31.

Benefits

A percentage of each employee's paycheck is deposited into his or her TCDRS account.

That percentage (from 4% to 7%) is set by the employer.

The employee's savings grow, by law, at a rate of 7%, compounded annually. The employer selects a matching rate — at least "dollar for dollar," up to \$2.50 per \$1.00 in the employee's account. At retirement, the employee's account balance is combined with employer matching and converted into a lifetime monthly benefit.

Employees receive a month of service time for each month that they make a deposit into their account. The amount of service an employee needs to earn a future benefit is called the vesting requirement. When an employee is vested, he or she has the right to a monthly benefit, which includes employer matching, at age 60 or older. Employers may choose 5-, 8- or 10-year vesting. In addition, employees may retire before age 60 if they meet one of the following requirements, set by the employer:

- **"Rule of" eligibility:** Under these rules, a vested employee can retire if their age plus years of service time add up to at least 75 or 80.
- **20-year or 30-year retirement at any age:** This lets employees retire when they have at least 20 or 30 years of service time.

Retirees elect to receive their lifetime benefit by choosing one of seven actuarially equivalent payment options, which are detailed on page 75.

Employers may elect to provide other optional benefits. Prior service gives employees monetary credit for time worked for an organization before it joined the system. Buybacks allow current employees to re-establish a closed TCDRS account from previous service with an employer. Partial lump-sum payments at retirement allow employees to withdraw part or all of their TCDRS account balance as a lump sum at retirement with a reduced monthly benefit.

In addition, an employer may choose to adopt a cost-of-living adjustment (COLA) for its retirees. This adjusts retiree benefits to restore purchasing power lost due to the effects of inflation.

Contributions

A combination of three elements funds each employer's plan: employee deposits, employer contributions and investment income.

- The deposit rate for employees is 4%, 5%, 6% or 7% of compensation, as adopted by the employer's governing body.
- Participating employers are required, by law, to contribute at a minimum the actuarially required rates, which are determined annually.
- Investment income funds a large part of the benefits employees earn.

Employers have the option of paying more than the required contribution rate each year. Extra contributions can help employers "pre-fund" benefit increases, such as a cost-of-living adjustment to retirees, and they can be used to help offset or mitigate future increases in the required rate due to negative plan experience. There are two approaches for making extra contributions: (a) paying an elected contribution rate that is higher than the required rate and (b) making an additional elective contribution as a lump sum.

TABLE 1: MEMI	BERSHIP	
Dec. 31	,	
Pension Trust Fund:	2021	2020
Retirees and Beneficiaries		
Currently Receiving Benefits	78,206	74,615
Inactive Plan Members Entitled to But Not Yet Receiving Benefits:		
Vested Accounts	28,552	26,885
Nonvested Accounts	94,200	85,901
Total	122,752	112,786
Active Plan Members:		
Vested Accounts	67,479	66,675
Nonvested Accounts	76,628	76,047
Total	144,107	142,722
Number of Plans:		
Counties	253	253
Districts	577	564
Inactive Plan	1	1
Total	831	818
Group Term Life Fund:		
Retirees	9,378	9,080
Terminated Employees:		
Vested	8,301	7,877
Current Employees:		
Vested	16,985	16,766
Nonvested	19,577	19,314
Total	36,562	36,080
Number of Plans:		
Counties	127	127
Districts	238	230
Total	365	357

Administrative costs of TCDRS are financed through the system's general reserves, which are part of the Endowment Fund.

Group Term Life Fund (GTLF)

TCDRS also administers the Group Term Life program, a group term life insurance. The fund for this benefit is a separate trust administered by the board. The fund receives monthly premiums from participating employers and pays benefits when due. The obligations of the program are payable only from this fund, and are not an obligation of, or a claim against, the TCDRS Pension Trust Fund. The fund's assets are pooled with those of the Pension Trust Fund under provisions of the TCDRS Act and annually receive an allocation of income based on the fund value. The Group Term Life program is voluntary and employers can annually begin, change or cease participation. This program provides group term life insurance coverage to currently employed members, and if elected by employers, to retirees. Participation in the Group Term Life program as of Dec. 31, 2021 and 2020 is summarized in Table 1.

Benefits

Current employees of participating employers are insured for an amount equivalent to the employee's current annual compensation. Employers may also optionally choose to cover retirees. Retirees are insured for \$5,000. Life insurance proceeds are payable as a lump sum. The coverage provided to retirees is an Other Post Employment Benefit (OPEB).

Contributions

Each participating employer contributes to the Group Term Life program at a contractually required rate. An annual actuarial valuation is performed and the contractual rate is equal to the cost of providing one-year term life insurance. The premium rate is expressed as a percentage of the covered payroll of members employed by the participating employer. There is a one-year delay between the actuarial valuation that serves as the basis for the employer contribution rate and the calendar year when the rate goes into effect. Contributions are not intended to pre-fund retiree term life insurance during employees' careers.

C: TCDRS AS EMPLOYER

Pension Trust Fund

TCDRS, as an employer, participates in the Texas County & District Retirement System. A brief description of benefit terms:

- 1. All full- and part-time employees in a nontemporary position participate in the plan, regardless of the number of hours they work in a year. Employees in a temporary position are not eligible for membership.
- 2. The plan provides retirement, disability and survivor benefits.
- TCDRS is a savings-based plan. For TCDRS, as an employer, 7% of each employee's pay is deposited into his or her TCDRS account. By

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law, employee accounts earn 7% interest on the beginning of year balances annually. At retirement, the account is matched at an employer-set percentage (current match is 200%) and is then converted to an annuity.

- 4. There are no automatic COLAs. Each year, TCDRS, as an employer, may elect an ad hoc COLA for its retirees.
- 5. Benefit terms are established under the TCDRS Act. They may be amended effective Jan. 1 each year within parameters set forth in the Act.

TCDRS, as an employer, has a contribution rate that is calculated annually on an actuarial basis, although the employer may elect to contribute at a higher rate. The contribution rate is based on the TCDRS funding policy adopted by the TCDRS Board of Trustees and must conform with the TCDRS Act. Contributions to the pension plan from TCDRS, as an employer, for 2021, were based on the elected rate of 10.5%, plus a one-time lumpsum amount of \$930,000.

Group Term Life Fund

TCDRS participates in the Group Term Life program. For a general explanation of the Group Term Life program, turn to page 31. TCDRS provides coverage to current eligible employees and to retired employees.

TCDRS, as an employer, contributes to the Group Term Life program at a contractually required rate.

TCDRS' contributions, as an employer, to the Group Term Life program for the years ended Dec. 31, 2021 and 2020 were \$32,806 and \$30,110, respectively, which equaled the required contributions each year.

TCDRS Bridge Program Health Reimbursement Arrangement

TCDRS adopted the TCDRS Bridge Program Health Reimbursement Arrangement (Bridge Program) for its employees. The program is open to all former TCDRS employees who meet all three conditions: (a) employed with TCDRS on or after Jan. 1, 2007; (b) accumulated at least 10 years of full-time employment with TCDRS; and (c) an active TCDRS employee on or after attaining age 58½.

The Bridge Program is a self-insured medical expense reimbursement plan that provides a maximum credit of \$550 per month for 60 consecutive months. Coverage begins on the first day of the month immediately after the eligible former employee reaches age 60 or has separated from employment with TCDRS, whichever occurs later.

As of Dec. 31, 2020, the measurement date, the Bridge Program OPEB (Other Post Employment Benefit) liability was \$1,151,711. The plan is unfunded and the discount rate at Dec. 31, 2020, was 2.12% with 136 active members. TCDRS' contributions as an employer pays the benefits under the Bridge Program by reimbursing eligible expenses. For the years ended Dec. 31, 2021 and 2020, benefits paid were \$68,366 and \$79,747, respectively.

Deferred Compensation

The employees of TCDRS may participate in a deferred compensation plan created in accordance with Internal Revenue Code Section 457. This plan, available to all employees of TCDRS, permits the deferral of a portion of their salary until future years. The deferred compensation is not available to the employees until termination, retirement, death or certain unforeseeable emergencies. All compensation deferred under the plan is held by a custodian for the exclusive benefit of participants and beneficiaries.

D: CASH AND CASH EQUIVALENTS

Cash and cash equivalents consist of funds on deposit with a financial institution in interestbearing demand deposit accounts. They are invested on an overnight basis (sweep) in a U.S. dollar-denominated investment under a repurchase agreement. The funds are collateralized at 102% using U.S. Treasury, government or agency securities. Cash held in (1) demand deposit accounts, (2) the overnight sweep, and (3) the JPMorgan U.S. Government Money Market Fund (an open-end institutional money market fund) is available to pay benefits, operational expenses and funds awaiting transfer to investment management.

Custodial credit risk is the risk that in the event of a bank failure, the system's deposits may not be returned to it. A discussion of custodial credit risk pertaining to cash and cash equivalents can be found in Note G, beginning on page 35.

E: INVESTMENTS

Investment decisions of the board are subject to Section 67, Article XVI of the Texas Constitution, and to the applicable statutory provisions of the Texas Trust Code that provide for a "prudent person" standard of care. Investment authorization is restricted by the investment policy adopted by the board that emphasizes the importance of a long-term investment philosophy with minimization of risk while targeting an attractive risk-adjusted return. The board has determined that a diversified portfolio will offer the best opportunity to produce the desired risk-adjusted return. Accordingly, the TCDRS investment portfolio includes investments in the following asset classes:

Equity Holdings

The system's U.S. equities and a portion of its developed international and emerging market equities are passively managed in commingled index funds designed to replicate the performance of broad market indices. The remaining developed international, emerging market and global equities are actively managed in commingled funds or limited partnerships.

Hedge Funds

The vehicles for hedge fund investments are typically commingled vehicles, such as limited partnerships, limited liability companies or offshore corporations. At Dec. 31, 2021, the system's hedge fund portfolio consisted of 19 partnerships with a fair value totaling \$2.9 billion.

Credit Investments

The board has divided the credit asset class into three portions.

• The strategic credit portfolio is driven primarily by credit risk and includes a combination of traded non-investment-grade bonds and private credit opportunities. These assets provide potential for high returns and exhibit low correlation to the broader credit markets. As the market environment changes, various credit strategies move in and out of favor. TCDRS alters investment concentration among strategies to optimize the opportunity set for any given market environment.

- Distressed debt partnerships invest in securities of companies whose debt has declined in value because they are experiencing financial stress. Typical holdings are senior and subordinated debt instruments.
- Direct lending partnerships consist of privately originated debt made to small and medium-sized companies or to real estate investors in order to take advantage of dislocations in the capital markets.

Table 2 lists the committed and unfunded capital to private strategic credit, distressed debt and direct lending investments at Dec. 31, 2021. During the first quarter of 2022, TCDRS made additional commitments of \$650 million to direct lending partnerships. There were no additional commitments to strategic credit or distressed debt fund during this period.

Private Equity

TCDRS' private equity investments consist of partnerships that (a) take public companies private in order to improve their operations and then resell them in the future; (b) invest in start-up companies with new ideas or technologies; and (c) invest in both traditional and renewable energy discovery and production. As of Dec. 31, 2021, TCDRS had committed \$14.8 billion of capital to 305 private equity partnerships.

Table 2 lists the committed and unfunded capital to private equity investments at Dec. 31, 2021. During the first quarter of 2022, an additional \$774 million has been committed to private equity partnerships.

ΤΛΡΙΕ	2: SCHEDULE OF UNFUNDED O	OMMITMENITS	
IADLE	Dec. 31, 2021		
Investment Category	Total Commitment	Unfunded Commitment	Fair Value
Strategic Credit	4,662,411,719	402,215,135	4,732,925,277
Distressed Debt	3,021,217,857	1,176,520,311	1,351,268,813
Direct Lending	7,435,181,561	2,928,969,231	4,915,879,114
Private Equity	14,770,382,122	5,563,175,351	11,415,342,893
Private Real Estate	4,238,672,242	2,087,145,144	1,958,964,452
Total Commitments	\$ 34,127,865,501	\$ 12,158,025,172	\$ 24,374,380,548

Real Assets

- Real estate investment trusts (REITs) are companies that own and operate income-producing real estate, such as commercial office buildings, apartments, malls, warehouses and storage facilities. Under provisions of the U.S. tax law, if REITs pay out most of their income in dividends, they are not required to pay income taxes. Consequently, substantial amounts of income can be received from investing in REITs.
- Private real estate partnerships acquire and operate commercial properties including office buildings, apartments, hotels, malls and residential real estate. Private real estate investments are illiquid and typically have expected holding periods of 10 to 12 years. As reported in Table 2, at Dec. 31, 2021, TCDRS had committed \$4.2 billion to 59 private real estate partnerships. During the first quarter of 2022, an additional \$352 million has been committed to private real estate partnerships.
- Master Limited Partnerships (MLPs) are publicly traded partnership interests authorized by Congress to encourage investment in domestic energy infrastructure. At the entity level, these interests are tax free provided that 90% of their income comes from natural resources such as oil, natural gas, coal, timber and other depletable resources.

Investment-Grade Bonds

The investment-grade bond portfolio consists of debt instruments issued by the United States Treasury and governmental agencies, asset-backed securities, and corporate bonds that are rated investment grade by the major ratings agencies. Additionally, this portfolio may contain minimal investments in short-term instruments, non-rated securities, private placement securities, convertible bonds and preferred stock.

The portfolio should exhibit an overall dollarweighted average quality rating of AA with no investment rated lower than BBB- or equivalent as rated by Standard & Poor's (S&P), Moody's Investor Service or Fitch Investor's Service at the time of purchase or, if not rated, be deemed by the manager to be of similar quality.

Cash and Cash Equivalents

The TCDRS Board of Trustees may select one or more commercial banks, depository trust companies or other entities to serve as custodian or custodians of the system's cash, cash equivalents and shortterm investments, and may authorize the custodian to invest the cash in such short-term investments as the board determines. TCDRS has authorized its custodian to invest cash, on an overnight basis, in the custodian's Collective Trust Government Short-Term Investment Fund (STIF). The investment objective of the STIF is to provide safety of principal, daily liquidity and competitive returns. The STIF owns high-quality debt instruments (which include U.S. government or U.S. government agencies, repurchase agreements, floating-rate notes, etc.). At Dec. 31, 2021, the dollar-weighted average maturity of the STIF was 56 days with an average current yield of 0.00%.

The investment officer manages cash in the STIF together with new contributions until they are allocated to a portfolio.

F: SECURITIES LENDING

State statutes and the board's policies permit TCDRS to use its investments to enter into securities-lending transactions — loans of securities to broker-dealers and other entities in exchange for collateral with a simultaneous agreement to return the collateral for the same securities in the future. The system's custodian, The Bank of New York Mellon Corp. (BNY Mellon), is engaged as the lending agent to lend securities from the system's REITs, MLPs, High-Yield and Investment-Grade Bond portfolios for collateral of a minimum of 102% of the fair value of securities loaned.

Collateral, either cash or U.S. government securities, is initially pledged for the securities on loan and additional collateral is required from the borrower by the close of the next business day if its value falls to less than 100% of the fair value of the securities on loan. TCDRS does not have the ability to pledge or sell securities received as collateral unless the

TABLE 3: INVESTED SECURITIES-LENDING CASH-COLLATERAL		
Dec. 31,		
Investment Type	2021	2020
Cash and Other Liquid Assets	35,807	23,222
Money Funds	15,354,000	5,377,000
Asset-Backed Securities	3,477,000	28,945,000
Agencies	227,567,330	188,162,277
Commercial Paper	38,380,600	13,569,083
Repurchase Agreements	101,539,072	50,115,320
Certificates of Deposit	57,724,968	16,350,000
Interest Bearing	3,096,355	0
Total Invested Securities-Lending Collateral	\$ 447,175,132	\$ 302,541,902

TABLE 4: CREDIT RISK BY QUALITY									
			Dec.	31,					
Investment-Grade Bonds High-Yield Bonds ¹									
Based on Moody's ratings	202	21	2020)	202	21	2020)	
Rating	Fair Value (\$ Millions)	% of Total							
Aaa	630.0	60	553.0	52	-	-	-	0	
Aa	36.1	3	53.4	5	-	-	-	0	
А	106.0	10	124.2	12	0.3	< 1	0.3	< 1	
Ваа	187.6	18	199.7	19	2.3	2	4.8	4	
Ва	34.2	3	45.3	4	33.6	23	34.2	25	
В	0.8	1	0.1	< 1	82.6	57	77.1	56	
Less than B	-	-	-	0	15.0	10	18.1	13	
Not Rated - Bonds	50.7	5	83.7	8	12.0	8	2.8	2	
Total	\$ 1,045.4	100%	\$ 1,059.4	100%	\$ 145.8	100%	\$ 137.3	100%	

¹ Included in the fair value of Credit investments reported in Statements of Fiduciary Net Position on page 26.

borrower defaults. At Dec. 31, 2021 and 2020, BNY Mellon held \$49,071,197 and \$43,851,037 of non-cash collateral, respectively.

Cash collateral is invested in short-term fixedincome instruments in accordance with the system's securities-lending guidelines. Table 3 lists the categories of cash-collateral investments at Dec. 31, 2021 and 2020.

At the end of years 2021 and 2020, TCDRS had no credit risk exposure to borrowers because the amounts the system owed to borrowers (cash plus non-cash collateral) exceeded the amounts the borrowers owed to TCDRS. The contract with the lending agent requires the agent to indemnify TCDRS if borrowers fail to return the securities (and if the collateral is inadequate to replace the securities on loan) or fail to pay TCDRS for income distributions while the securities are on loan. At Dec. 31, 2021 and 2020, the fair value of securities on loan for cash and non-cash collateral was \$484,985,924 and \$338,695,899, respectively.

Additionally, TCDRS invests in two commingled domestic and international equity portfolios that participate in securities-lending programs managed by State Street Global Advisors. TCDRS receives a proportionate share of the securities-lending income generated from these activities.

G: DEPOSIT AND INVESTMENT RISK

Identification of credit risk, custodial credit risk, concentration of credit risk, interest rate risk and foreign currency risk is promulgated by GASB Statement No. 40. Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. At Dec. 31, 2021 and 2020, according to Standard and Poor's (S&P) evaluations, the investment-grade bond portfolio exhibited an overall quality rating of AA- and A+, respectively. The Bloomberg U.S. Aggregate Bond Index is the benchmark for performance measurement of the investment-grade bond portfolio. At Dec. 31, 2021 and 2020, the Bloomberg U.S. Aggregate Bond Index had an average S&P quality rating of A-1+ and AA-.

At both Dec. 31, 2021 and 2020, according to S&P evaluations, the high-yield portion of the credit portfolio exhibited an overall quality rating of B+. The FTSE High-Yield Cash-Pay Capped Index is the benchmark for performance measurement of the credit portfolio. At both Dec. 31, 2021 and 2020, according to S&P evaluations, the benchmark exhibited an average quality rating of B+.

The investment policy does not explicitly outline an acceptable level of credit risk for the investmentgrade bond or credit portfolios, but the board's adoption of their respective benchmark indices is an implicit adoption of the market risk inherent in these portfolios.

Table 4 lists the credit risk associated with the investment-grade bond portfolio and the high-yield bond portion of the credit investments portfolio.

At Dec. 31, 2021, according to Moody's Investors Service evaluations, the BNY Mellon STIF contained

		Dec. 31,				
	2021	2021				
Asset Class	Fair Value	Effective Duration in Years	Fair Value	Effective Duration in Years		
Investment-Grade Bonds	\$ 1,045,376,299	6.2	\$ 1,059,415,046	5.9		
High-Yield Bonds ¹	145,496,437	3.9	137,258,024	3.7		

short-term securities with quality ratings of P-1 (Prime-1), which exhibit a superior ability for repayment of senior short-term debt obligations, and long-term investments (maturity date greater than one year) with an average quality rating of Aaa. Based upon the fair value of the fund at Dec. 31, 2021, 81% of the instruments were rated P-1, 19% of the instruments were rated Aaa and less than 1% was held in cash.

At Dec. 31, 2020, according to Moody's Investors Service evaluations, the BNY Mellon STIF exhibited average short-term quality ratings of P-1 and an average long-term quality rating of Aaa with 78% of the instruments rated P-1, 22% of the instruments rated Aaa and less than 1% was held in cash.

Custodial credit risk is the risk that, in the event of the failure of a depository financial institution, TCDRS will not be able to recover deposits or will not be able to recover collateral securities that are in the possession of an outside party. TCDRS requires that demand deposit accounts be fully collateralized. Funds received by its master custodian are invested on an overnight basis or, if the funds are received late during a business day, are maintained in a U.S. dollar-denominated interest-bearing deposit account insured by the FDIC.

TCDRS investments, evidenced by securities in physical or book entry form and not on loan, are registered and held in safekeeping for TCDRS by its custodian bank.

Concentration of credit risk is the risk of loss attributed to the magnitude of investment in a single issuer. Investment guidelines established with the individual investment managers generally address concentration risk limits. At Dec. 31, 2021 and 2020, TCDRS did not have investments in any one issuer which were greater than 5% of net investments.

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of

an investment. The values of portfolios of longer duration are more affected by interest rate changes than are those of shorter duration. Increases in bond market yields result in fair value losses; decreases result in fair value gains. Multiplying the change in market yield by the duration of the portfolio can approximate the size of the gain or loss in fair value. For example, if one owned a portfolio of investment-grade bonds that had a duration of 6.5 years and if the yields within the bond market were to immediately fall 1%, the fair value gain of the portfolio would approximate 6.5%. This change in fair value indicates the level of interest rate risk inherent in the portfolio.

Table 5 discloses the level of interest rate risk inherent in the TCDRS fixed-income portfolios by reporting the effective duration of those portfolios.

The effective duration of the Bloomberg U.S. Aggregate Bond Index at Dec. 31, 2021 and 2020 was 6.7 and 6.3 years, respectively.

The high-yield bond portion of the credit portfolio is measured against the FTSE High-Yield Cash-Pay Capped Index. The effective duration of the FTSE High-Yield Cash-Pay Capped Index at Dec. 31, 2021 and 2020 was 4.3 and 3.3 years, respectively.

TCDRS does not have a formal policy governing interest rate risk, but the board's adoption of the respective benchmark indices used to measure the investment-grade bond and credit portfolios against is an implicit adoption of the market risk inherent in these portfolios.

The maturities of the investments made with cash collateral may not match the maturities of securities on loan. Any material interest rate risk on investments from cash collateral received from securities lending is mitigated by maintaining an investment yield higher than the rebate rate owed to borrowers. Further, to reduce risk, investment guidelines require floating-rate instruments to reset no less frequently than 90 days or limit maturity of fixed-rate instruments to no more than 18 months.

	TABLE 6: FOREIGN CURRENCY RISK									
Dec. 31,										
	REITs / MLPs Cred			nvestments		e Equity & Real Estate		Total		
	2021	2020	2021	2020	2021	2020	2021	2020		
AUSTRALIAN DOLLAR	1,387	1,472	-	-	-	_	1,387	1,472		
BRITISH POUND STERLING	_	-	1,096,846	1,024,399	110,753,377	76,723,150	111,850,223	77,747,549		
CANADIAN DOLLAR	470,819	1,044,696	-	-	-	_	470,819	1,044,696		
EURO CURRENCY UNIT	12,663	13,400	153,682,889	134,146,742	1,175,688,060	747,281,650	1,329,383,612	881,441,791		
NORWEGIAN KRONE	6,879	7,085	-	-	-	_	6,879	7,085		
SWISS FRANC	_	19,500	_	_	_	_	_	19,500		
 Total subject to currency risk	\$ 491.748	\$ 1.086.153	\$ 154.779.735	\$ 135.171.141	\$ 1.286.441.436	\$ 824.004.800	\$ 1,441,712,920	\$ 960.262.093		
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Due to rounding, totals and detail may not equal.

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or deposit. The asset allocation plan adopted in the investment policy includes a 13.5% allocation to international and global equities, a 4% allocation to distressed debt, a 2% allocation to REITs, a 2% allocation to MLPs, a 16% allocation to direct lending, a 6% allocation to private real estate partnerships and a 25% allocation to private equity, all of which allow non-U.S. dollar-denominated investments. TCDRS does not have a formal policy governing foreign currency risk. Accordingly, the foreign currency risks inherent in the benchmark indices assigned to these asset classes have been implicitly adopted as an acceptable level of foreign currency risk.

Table 6 lists the foreign currency risk associated within the REITs, MLPs, credit investments, private equity and private real estate partnerships portfolios.

Additionally, at Dec. 31, 2021 and 2020, the international equity portfolio contained nine commingled funds from the Developed International, Emerging Market and Global asset classes. These asset classes are subject to foreign currency risk with an aggregate fair value of \$6,266,649,490 and \$6,328,764,430, respectively.

Derivative instruments are financial contracts whose values depend on the values of one or more underlying assets, reference rates or financial indexes. The investment policy does not explicitly outline the use of derivatives, but investment guidelines allow the investment-grade bond managers the use of exchange-traded treasury futures to replicate cash investments or to manage yield curve or other risk positions within their portfolio. In 2015, the board approved the implementation of a currency overlay program to the passive developed international equity and emerging market allocations managed by State Street Global Advisors using foreign currency forward contracts which are over-the-counter (OTC) instruments used to hedge volatility in currency exchange rates on assets held within these portfolios. TCDRS' derivative instruments are considered investments and not hedges for accounting purposes. In 2016, the overlay program was suspended but may be re-engaged at a future date.

Table 7, on page 38, lists TCDRS' exposure to derivative instruments at Dec. 31, 2021.

H: FAIR VALUE MEASUREMENT AND APPLICATION

TCDRS categorizes fair value measurements of investment assets and liabilities within the fair value hierarchy established by generally accepted accounting principles as promulgated by GASB Statement No. 72. These investments are valued through industry standard practices for the respective type of security at a price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The hierarchy classifications are based on the transparency of inputs to the valuation techniques used and should not be perceived as the particular investment's risk. These classifications are summarized into three broad levels, arranged from highest to lowest:

Level 1 – Unadjusted inputs using quoted prices in active markets or exchanges for identical investments.

	TABLE 7: FUTURES CONTRACTS								
			Dec.	31, 2021					
Futures Contract	Expiration Date	Contracts	Value Per Point	Price Per Contract	Exposure	Base Notional Cost	Unrealized Gain/(Loss)		
US 10Yr Ultra Future	Mar 2022	-170.00	1,000	146.4375	\$(24,894,375)	\$(24,565,570)	\$(328,805)		
US 10Yr Ultra Future	Mar 2022	-167.00	1,000	146.4375	(24,455,063)	(24,036,203)	(418,860)		
US Long Bond Future	Mar 2022	-158.00	1,000	160.4375	(25,349,125)	(25,190,666)	(158,459)		
US Long Bond Future	Mar 2022	-56.00	1,000	160.4375	(8,984,500)	(8,973,125)	(11,375)		
US 10Yr Note Future	Mar 2022	136.00	1,000	130.4688	17,743,750	17,694,406	49,344		
US 10Yr Note Future	Mar 2022	403.00	1,000	130.4688	52,578,906	52,202,177	376,729		
US 5Yr Note Future	Mar 2022	-32.00	1,000	120.9766	(3,871,250)	(3,874,820)	3,570		
US 5Yr Note Future	Mar 2022	-7.00	1,000	120.9766	(846,836)	(845,281)	(1,555)		
US 2Yr Treas Nts Fut	Mar 2022	77.00	2,000	109.0859	16,799,234	16,813,230	(13,995)		
US Ultra Bond Future	Mar 2022	41.00	1,000	197.1250	8,082,125	8,000,445	81,680		
US Ultra Bond Future	Mar 2022	66.00	1,000	197.1250	13,010,250	12,814,155	196,095		
Total				_	\$ 19,813,117	\$ 20,038,749	\$ (225,632)		
Due to rounding, totals and detail	may not equal.								

Level 2 — Other significant observable inputs including quoted prices of securities that are comparable in coupon, rating, maturity and industry. Inputs other than quoted prices that are observable take into account operational, market, financial and non-financial factors (interest rates, yield curves, credit risk, and default rates) or other market corroborated inputs that are observable at commonly quoted intervals for the full term of the investment.

Level 3 – Significant inputs that are not observable and cannot be corroborated by observable market data (assumptions, cash flows or earnings multiples).

In instances where inputs used to measure fair value fall into different levels in the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The assessment of the significance of particular inputs to their fair value measurements requires judgment and considers factors specific to each asset.

In 2021 and 2020, there were no changes in valuation techniques that had a significant impact on the result.

Short-Term Securities

Holdings in short-term securities at Dec. 31, 2021 and 2020 consist of a Government Short-Term Investment Fund (STIF) which invests principally or entirely in securities or other obligations issued by or guaranteed by the U.S. government or its agencies and repurchase agreements collateralized by securities or other obligations issued by or guaranteed by the U.S. government. TCDRS classifies the STIF at level 2 based on the availability of a daily value, traded in an inactive market.

Equity, Debt and Other Securities

Equity and debt securities classified in level 1 are valued using prices quoted in active markets. Investments classified in level 2 are derived using either a bid evaluation or a matrix pricing technique. Bid evaluations may include market quotations, yields, maturities, call features and ratings. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. Index-linked securities are valued by using multiples of the external market price and the index ratio. Level 3 debt securities at Dec. 31, 2021 and 2020 are impaired assets and are valued using unobservable inputs in inactive markets, such as proprietary information or single source pricing.

Commingled funds are valued daily or monthly through an exchange or provided by the investment manager. Funds where pricing is obtained daily are considered to be in an active market and are listed in level 1, and monthly priced funds are listed in level 2.

Investments Measured at the Net Asset Value (NAV)

For assets that are measured at the NAV per share (or its equivalent), the non-lagged year-end

valuation provided by the fund manager is used. All partnerships provide audited financial statements with unmodified opinions, along with unaudited quarterly reports. In addition, TCDRS confirms additional information regarding the underlying holdings and TCDRS' ownership percentage of the total limited partnership.

Commingled Funds

The commingled funds with fair values reported at NAV per share (or its equivalent), such as member units or an ownership interest in partners' capital to which a proportionate share of net assets is attributed, are reported in Tables 8 and 9 disclosures on pages 40–43, along with their redemption restrictions.

Hedge Funds & Strategic Credit Funds

Most hedge funds and strategic credit funds are organized as limited partnerships under the laws of Delaware and use partnership accounting methodologies. These partnerships may invest their assets directly or through a master fund and may also use a wider range of investment techniques such as leverage, short selling and derivatives to achieve their objectives. The fair value of these investments has been determined using the NAV per share or its equivalent. Due to the inherent uncertainty of valuations of investments that are determined to be illiquid and/or do not have readily ascertainable fair values, the estimates of fair value may differ from the values ultimately realized by the partnership, and those differences can be material. The amount of notice the investor is required to give to the general partner in order to redeem ranges from 30 to 180 days. For hedge funds, investors are generally able to sell their interest in the partnerships at regular intervals ranging from monthly to every two years. Strategic credit funds can be organized using a traditional hedge fund structure, which provides investors regular intervals to sell their interest in the partnership ranging from quarterly to every two years, or organized using a shorter-duration, private-equity structure which allows for a two-year investment period, one-year harvest period, and an optional one- to two-year extension. Certain funds may allow for the creation of "special investments," which are investments the investment manager believes lack a readily ascertainable fair value, are illiquid, or should be held until the resolution of a special event or circumstance.

TCDRS targets 50% of its hedge fund allocation to equity long/short funds in which the equity securities maintain some level of market exposure (either net long or net short); however, the level of exposure may vary through time. TCDRS targets 5% of its hedge fund allocation to a market neutral strategy designed to maintain no net exposure to the overall direction of the equity market. Event-driven funds, which are targeted at 20% of TCDRS' hedge fund allocation, focus on identifying and analyzing securities that can benefit from the occurrence of an extraordinary corporate transaction or event such as mergers, acquisitions, buyouts, stock splits and bankruptcies. Credit/ distressed debt funds can come in the form of bonds, mutual funds or the distressed firm itself. This strategy has a low correlation with factors that affect the stock markets. TCDRS reduced its hedge fund target allocation of this strategy to zero. The global macro strategy structures its holdings, such as long and short positions, in order to take advantage of shifts in macroeconomic trends; TCDRS targets 10% of hedge funds to this strategy. The remaining 15% uses a multi-strategy approach, which represents a mix of the other hedge fund strategies.

Private Equity

Private equity is risk capital provided outside of the public markets. Investments are illiquid and traded only on acquisition or exit. The term private equity is very broad and includes many types of investments. TCDRS targets 50% of its private equity allocation to buyout funds which include investments in acquisitions, growth equity, recovery investments, and special situations (a class which represents a diversified strategy across many sub-classes). Buyouts use leverage (debt), aggressive restructuring and the purchase of large controlling stakes in the portfolio companies. Venture capital includes funds that invest in companies in a range of stages of development from start-up/seed-stage, early stage, and later/ expansion stage. TCDRS targets 25% of its private equity allocation to venture capital funds. TCDRS targets 5% of its private equity allocation to real assets. Funds that invest in real assets have a return linked to inflation, such as energy or other commodity-based investments. The remaining allocation to private equity targets non-U.S. investments. These may be buyout, venture capital or real assets.

Fair value for these funds is determined by reference to observable valuation measures for comparable companies or transactions, adjusted for differences between the investment and the referenced comparable, and in some instances by reference to option pricing models or other similar

TABLE 8: INVESTMENTS AND DERIVATIVE INSTRUMENTS MEASURED AT FAIR VALUE

			Fair Value Measurem	ents Using	
Investment Description	Investment Portfolio	Fair Value 12/31/2021	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3
Short-Term Securities					
Collective US Gov. STIF	Investment-Grade Bonds	\$ 52,208,263	\$ –	\$ 52,208,263	\$ -
	Master Limited Partnerships	2,796,126	, 	2,796,126	-
	Credit	1,013,570	_	1,013,570	-
	REITs	20,893,869	_	20,893,869	_
	Cash and Cash Equivalents	1,061,408,040	_	1,061,408,040	_
Commercial Paper	Investment-Grade Bonds	260,000	_	260,000	_
Total Short-Term Securities		1,138,579,869	_	1,138,579,869	_
Equity Securities					
Corporate Stock - Preferred	Investment-Grade Bonds	10,502,792	_	10,502,792	-
	Credit	1,128,614	2,028	1,126,586	-
Corporate Stock - Common	Master Limited Partnerships	1,141,037,066	1,141,037,066	_	-
	Credit	89,743,994	89,603,570	77,374	63,050
	REITs	1,044,240,744	1,044,240,744	_	-
Domestic Equity/Commingled	US Equities	6,369,760,673	6,369,760,673	_	_
Internat'l Equity/Commingled Funds		7,198,959	7,198,959	_	_
	REITs	382,006,023	382,006,023	_	_
	International Equities	4,368,711,340	3,828,900,108	539,811,232	_
Total Equity Securities		13,414,330,205	12,862,749,171	551,517,984	63,050
Debt Securities					
Corp. Debt Instruments	Investment-Grade Bonds	466,751,065	_	466,751,065	_
corp. Dest instruments	Credit	134,761,092	45,545	132,435,287	2,280,260
Government Non-US	Investment-Grade Bonds	3,757,988		3,757,988	2,200,200
Municipals	Investment-Grade Bonds	13,615,764	_	13,615,764	_
US Government Securities	Investment-Grade Bonds	530,850,256	_	530,850,256	_
Bond Futures/Swaps	Investment-Grade Bonds	(225,631)	(225,631)		_
Total Debt Securities	Investment-Grade Donus	1,149,510,534	(180,086)	1,147,410,360	2,280,260
Other Investments					
Invested Securities-Lending Collatera	al	447,175,132	_	447,175,132	-
		447,175,132	_	447,175,132	_
Leveled Assets at Fair Value		\$ 16,149,595,739	\$ 12,862,569,085	\$ 3,284,683,344	\$ 2,343,310
lus continue and a bid of our of the black Accest					
Investments Measured at the Net Asset		225 74 / 000			
Internat'l Equity/Commingled Funds	Emerging Global	335,716,898			
Driveta Dael Estata Dauta auchina	Giobai	1,553,628,407			
Private Real Estate Partnerships		1,958,964,452			
Private Equity Partnerships		11,415,342,893			
Hedge Funds		2,908,697,362			
Strategic Credit		4,732,925,277			
Distressed Debt		1,351,268,813			
Direct Lending		4,827,848,279			
Total Investments Measured at the NAV	B	29,084,392,381			
Investment-related Cash, Receivables and Total Investments and Securities-Lending (,	(2,701,751)			
Total Investments and Securities-Lending	Collateral Reinvested	\$ 45,231,286,369			

TABLE 8: LIQUIDITY INFORMATION FOR INVESTMENTS MEASURED AT THE NET ASSET VALUE (NAV)

		Fair Value 12/31/2021	Unfunded Commitments	Redemption Redemptic Frequency Notice Peri
Internat'l Equity/Commingled Funds	Emerging	\$ 335,716,898		Monthly, Quarterly 15-60 day
	Global	1,553,628,407		Monthly 45 days
Private Real Estate Partnerships		1,958,964,452	2,087,145,144	Not eligible
Private Equity Partnerships	Buyout	6,383,898,878	3,768,345,866	Not eligible
	Venture Capital	4,448,883,902	1,371,185,057	Not eligible
	Real Assets	582,560,113	423,644,427	Not eligible
Hedge Funds	Equity Long/Short	1,334,172,740		Monthly, Quarterly, Rolling 1-yr 30-91 day
	Event Driven	553,106,623		Monthly, Quarterly 60-65 day
	Credit/Distressed	259,926,582		Quarterly 60-90 days
	Global Macro	319,760,015		Quarterly 45 days
	Multi-Strategies	431,021,060		Monthly, Quarterly, Semi-annual 45-180 day
	Terminating Funds/In Liquidatior	n 10,710,341		
Strategic Credit		4,084,354,157	177,619,955	Monthly, Quarterly, Annually 60-90 day
Strategic Credit - not eligible for redempt	ion	648,571,120	224,595,180	Not eligible
Distressed Debt		1,351,268,813	1,176,520,311	Not eligible
Direct Lending		4,827,848,279	2,928,969,231	Not eligible
Total Investments Measured at the NA		\$ 29,084,392,381	\$ 12,158,025,172	-

TABLE 9: INVESTMENTS AND DERIVATIVE INSTRUMENTS MEASURED AT FAIR VALUE

			Fair Value Measurem	ents Using	
Investment Description	Investment Portfolio	Fair Value 12/31/2020	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3
Short-Term Securities					
Collective US Gov. STIF	Investment-Grade Bonds	\$ 80,299,275	\$ -	\$ 80,299,275	\$ -
	Master Limited Partnerships	6,176,304		6,176,304	
	Credit	1,170,661	_	1,170,661	_
	REITs	8,144,004	_	8,144,004	_
	Cash and Cash Equivalents	832,942,449	_	832,942,449	_
Total Short-Term Securities		928,732,693	_	928,732,693	-
Equity Securities					
Corporate Stock - Preferred	Investment-Grade Bonds	10,661,597	_	10,661,597	_
·	Credit	1,188,123	_	1,188,123	_
Corporate Stock - Common	Master Limited Partnerships	996,265,167	996,265,167		_
	Credit	75,048,994	74,948,584	_	100,410
	REITs	738,501,310	738,501,310	_	
Domestic Equity/Commingled	US Equities	5,238,105,367	5,238,105,367	_	_
Internat'l Equity/Commingled Funds	•	5,476,867	5.476.867	_	_
internat requity/ commingicu runus	REITs	291,700,309	291,700,309	_	_
	International Equities	4,818,771,025	4,263,913,603	554,857,422	_
Total Equity Securities		12,175,718,759	11,608,911,207	566,707,142	100,410
Debt Securities					
Corp. Debt Instruments	Investment-Grade Bonds	516,165,228	_	516,165,228	_
colp. Debt instruments	Credit	127,197,061	_	125,107,091	2,089,970
Government Non-US	Investment-Grade Bonds	4,876,587	_	4,876,587	2,007,770
Municipals	Investment-Grade Bonds	16,049,183	_	16,049,183	_
US Government Securities	Investment-Grade Bonds	484,515,268	_	484,515,268	_
Bond Futures/Swaps	Investment-Grade Bonds	31,022	31,022		_
Total Debt Securities	Investment-Grade Donus	1,148,834,349	31,022	1,146,713,357	2,089,970
					, ,
Other Investments Invested Securities-Lending Collatera		202 541 002		202 541 002	
Invested Securities-Lending Collatera	al	302,541,902		302,541,902	
Leveled Assets at Fair Value		302,541,902 \$ 14,555,827,702	\$ 11,608,942,229	\$ 2,944,695,094	\$ 2,190,380
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Investments Measured at the Net Asset	: Value (NAV)				
Internat'l Equity/Commingled Funds	Emerging	237,590,284			
	Global	1,272,403,121			
Private Real Estate Partnerships		1,185,948,582			
Private Equity Partnerships		7,846,903,669			
Hedge Funds		3,473,720,461			
Strategic Credit		4,296,933,922			
Distressed Debt		971,188,855			
Direct Lending		3,363,165,101			
Total Investments Measured at the NAV		22,647,853,995			
	Developen Net la alvade d'Aleava	102 101 409			
Investment-related Cash, Receivables and	Payables Not Included Above	103,101,498			

TABLE 9: LIQUIDITY INFORMATION FOR INVESTMENTS MEASURED AT THE NET ASSET VALUE (NAV)

		Fair Value 12/31/2020	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Internat'l Equity/Commingled Funds	Emerging	\$ 237,590,284		Monthly, Quarterly	15-60 days
	Global	1,272,403,121		Monthly	45 days
Private Real Estate Partnerships		1,185,948,582	\$ 1,887,235,516	Not eligible	
Private Equity Partnerships	Buyout	4,545,864,346	3,337,217,460	Not eligible	
	Venture Capital	2,910,816,747	1,402,916,929	Not eligible	
	Real Assets	390,222,576	373,514,909	Not eligible	
Hedge Funds	Equity Long/Short	1,518,990,053		Monthly, Quarterly, Rolling 1-	yr 30-91 days
	Event Driven	441,710,378		Monthly, Quarterly	60-65 days
	Credit/Distressed	395,848,448		Quarterly	60-90 days
	Global Macro	343,513,377		Quarterly	45 days
	Multi-Strategies	480,664,750		Monthly, Quarterly, Semi-annua	al 45-180 days
	Terminating Funds/In Liquidatior	n 292,993,455			
Strategic Credit		3,971,749,279	170,000,000	Monthly, Quarterly, Annually	/ 60-90 days
Strategic Credit - not eligible for redempt	ion	325,184,643	215,218,885	Not eligible	
Distressed Debt		971,188,855	790,610,470	Not eligible	
Direct Lending		3,363,165,101	2,443,075,813	Not eligible	
Total Investments Measured at the NA		\$ 22,647,853,995	\$ 10,609,789,982	-	

methods. Inputs may include, but are not limited to, significant developments such as meaningful third-party transactions, material progress or slippage in the development of the investee company's business, a change in the cash or debt on a company's balance sheet, dividend accretion on certain types of securities, valuation of comparable publicly traded companies, significant changes in the overall market environment and discounts for lack of marketability.

Private equity investments are illiquid and typically have expected holding periods of 10 to 12 years. These investments are not eligible for redemption. Distributions from each fund are received as the underlying investments in the funds are liquidated.

Distressed Debt

Distressed debt includes investments in the debt instruments of companies which may be publicly traded or privately held that are financially distressed and are either in bankruptcy or likely candidates for bankruptcy. Typical holdings are senior and subordinated debt instruments and bank loans. Gains can be realized by holding the debt until there are some payments by the company at maturity or through distributions of cash, restructured debt or equity resulting from the bankruptcy process. Distressed debt investments are not eligible for redemption. Distributions are received as the underlying investments in the funds are liquidated. Investments are typically made in years one through five with capital typically returned in years three through ten.

Direct Lending

Direct lending partnerships invest primarily in privately originated debt and preferred equity instruments to small and mid-sized companies and privately originated senior and mezzanine debt for real estate. Direct lending investments may also include other types of yield-oriented non-correlated funds including, but not limited to, royalty streams and aviation leases. Direct lending investments are not eligible for redemption. Distributions are received as the underlying investments in the funds are liquidated, which may take up to three to five years.

Private Real Estate

Private real estate may behave as highly debtlike securities or as highly equity-like securities, depending on the characteristics of the property. Core properties tend to be held for a long time to take full advantage of the lease and rental cash flows that they provide. Value-added and opportunistic real estate achieve a substantial portion of their return from appreciation in value. Value-added real estate can involve repositioning, renovation, and redevelopment of existing properties while opportunistic real estate includes all of these activities as well as the purchase of raw land and ground-up development. These investments are not eligible for redemption. Distributions from each fund will be received as the underlying investments in the funds are liquidated. As a private, non-exchange-traded asset, private real estate funds are illiquid. The life of a private real estate fund is typically 10 to 12 years.

I. SUBSEQUENT EVENTS

In late February of 2022, Russia invaded Ukraine. The global response included significant economic sanctions from the United States, United Kingdom, European Union and various other jurisdictions. These sanctions, and Russia's response, included the suspension of foreign trading in securities listed on Russian exchanges. To account for the uncertain effect of these sanctions on the valuation of Russian securities, Texas County & District Retirement System chose to write down all known Russian assets in the portfolio effective December 31, 2021, reducing the portfolio's valuation by approximately \$73 million.

REQUIRED SUPPLEMENTARY INFORMATION AND NOTES

The mone	-weighted rate net of inves					0	0		mance,	
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Annual money-weighted ate of return, net of										
nvestment expenses	22.02%	10.42%	16.58%	-1.85%	14.72%	7.48%	-0.66%	6.84%	16.39%	12.63%

Table 10 presents the money-weighted rate of return which provides information regarding TCDRS' investment performance, net of investment expenses, adjusted for the changing amounts actually invested. The money weighted return and time-weighted performance return may differ due to timing and magnitude of cash flows.

CHANGES IN FIDUCIARY NET POSITION BY FUND AND INTERFUND TRANSFERS

Pension Trust Fund

Twelve Month Period Ending December 31, 2021

	Employees Saving Fund	Subdivision Accumulation Fund
ADDITIONS		
Employee Deposits and Employer Contributions	\$ 550,152,286	\$ 1,073,415,093
Investment Income		
Net Depreciation in Fair Value of Investments	_	-
Interest and Dividends	_	-
Total Investment Activity Income	_	_
Less Investment Activity Expenses	-	-
Net Income from Investment Activities	 _	_
Net Income from Securities-Lending Activities	_	-
Total Net Investment Income	 _	_
Building Operations and Miscellaneous Income	_	-
Total Additions	 550,152,286	1,073,415,093
DEDUCTIONS		
Benefits Paid	_	1,825,661,981
Withdrawals	102,520,668	-
Terminating Employer SAF Refunds	_	63,568
Interest Allocation to Group Term Life Fund	_	_
Administrative Operations Expenses	_	_
Building Operations Expenses	_	_
Total Deductions	 102,520,668	1,825,725,549
TRANSFERS OF FUNDS		
Retirement Transfers	(656,834,387)	655,310,918
Income Allocation	526,905,409	3,073,797,087
Terminating Employer Transfers	2,712,306	(2,958,764)
Expense Fund Transfer	_	_
Escheated Accounts, Net	(95,435)	_
Allocation of General Reserves	_	_
Net Transfers	 (127,312,107)	3,726,149,241
Net Increase (Decrease) in Fiduciary Net Position	 320,319,511	2,973,838,785
NET POSITION RESTRICTED FOR PENSION BENEFITS		
Beginning of Period	7,990,121,290	28,019,690,740
End of Period	\$ 8,310,440,801	\$ 30,993,529,525

CHANGES IN FIDUCIARY NET POSITION BY FUND AND INTERFUND TRANSFERS, continued

Pension Trust Fund

Twelve Month Period Ending December 31, 2021

Annu	Subdivision ity Reserve Fund	Endowment Fund		Income Fund		Expense Fund		Total	
\$	-	\$	-	\$	-	\$ -	\$	1,623,567,379	
	_		_	8,026,53	37,482	_		8,026,537,482	
	-		-	146,10	00,686	_		146,100,686	
	-		_	8,172,63	38,168	-		8,172,638,168	
	-		-	56,82	23,837	_		56,823,837	
	-		_	8,115,83	14,331	-		8,115,814,331	
	_		_	1,55	50,442	-		1,550,442	
	-		_	8,117,30	64,773	_		8,117,364,773	
	_		_		_	1,765,526		1,765,526	
	_		_	8,117,30	54,773	1,765,526		9,742,697,678	

1,415,437	13,031	_	_	1,827,090,449
_	_	_	_	102,520,668
_	_	_	-	63,568
_	_	2,892,692	_	2,892,692
_	-	-	24,016,031	24,016,031
_	_	_	2,036,680	2,036,680
1,415,437	13,031	2,892,692	26,052,711	1,958,620,088

2,706,170	4,487,928,777	(8,114,472,081)	25,000,000	_
-	4,512,833,342	(4,512,833,342)	_	_
-	95,435	-	_	_
_	(25,000,000)	-	25,000,000	_
246,458	-	-	_	_
936,243	-	(3,601,638,739)	_	_
1,523,469	-	-	-	-

12,885,004	1,073,038,187	-	12,462,721	37,108,197,942
\$ 14,175,737	\$ 5,560,953,933	\$ -	\$ 13,175,536	\$ 44,892,275,531

CHANGES IN ENDOWMENT FUND

Pension Trust Fund Twelve Month Period Ending December 31, 2021

	General Reserves Account	Perpetual Endowment Account	Reserve for Expense Fund	Total
ADDITIONS				
Transfer from Income Fund	\$4,512,833,342	\$ —	\$ —	\$4,512,833,342
Escheated Accounts	-	281,880	-	281,880
 Total Additions	4,512,833,342	281,880	-	4,513,115,222
DEDUCTIONS				
Transfer to Expense Fund	_	_	25,000,000	25,000,000
Reinstatements of Escheated Accounts	_	186,445	-	186,445
Uncollectible Benefits	13,031	-	_	13,031
Total Deductions	13,031	186,445	25,000,000	25,199,476
TRANSFERS				
Next Year Expense Fund Transfer	(25,000,000)	-	25,000,000	_
Total Transfers	(25,000,000)	_	25,000,000	_
Net Change in Fund	4,487,820,311	95,435	_	4,487,915,746
Beginning of Year	1,042,619,334	5,418,853	25,000,000	1,073,038,187
Balance — December 31, 2021	\$ 5,530,439,645	\$ 5,514,288	\$ 25,000,000	\$ 5,560,953,933

CHANGES IN INCOME FUND

Pension Trust Fund Twelve Month Period Ending December 31, 2021

INVESTMENT RESULTS	
Net Appreciation in Fair Value of Investments	\$ 8,026,537,482
Interest and Dividends	146,100,686
Net Income from Securities-Lending Activities	1,550,442
Investment Activity Expenses	(56,823,837)
Net Investment Results	8,117,364,773
LESS: STATUTORY ALLOCATIONS	
Allocation of Current Year Interest:	
Employees Saving Fund	526,905,409
Closed Subdivision Annuity Reserve Fund	936,243
Group Term Life Fund	2,892,692
Total Statutory Allocations	530,734,344
LESS: BOARD OF TRUSTEES' ALLOCATIONS	
Subdivision Accumulation Fund	3,073,797,087
Transfer to General Reserves Account	4,512,833,342
Total Board of Trustees' Allocations	7,586,630,429
Net Change in Fund	-
Balance–January 1, 2021	-
Balance–December 31, 2021	\$ -

ADMINISTRATIVE REVENUES AND EXPENSES

Year Ended Dec. 31, 2021

	Administrative Operations	Building Operations	Combined Operations	
Administrative Revenues:				
Rental Income	\$ -	\$ 1,765,526	\$ 1,765,526	
Other Income		-	_	
Total Administrative Revenues	_	1,765,526	1,765,526	
Administrative Expenses:				
Payroll and Temporary Employees	10,076,035	_	10,076,035	
Payroll Taxes	707,123	_	707,123	
Pension Contributions	1,097,827	_	1,097,827	
Employee Insurance & Benefits	1,498,143	_	1,498,143	
Professional Fees/Outsourced Services	2,747,556	_	2,747,556	
Software Licensing	1,805,571	_	1,805,571	
Equipment Service	190,532	_	190,532	
Building Operations	_	1,448,266	1,448,266	
Office Supplies/Postage	110,570	_	110,570	
Telecommunications/Internet Services	294,776	_	294,776	
Printing and Communications	383,851	_	383,851	
Records Management and Reference Materials	36,700	_	36,700	
Memberships	18,109	_	18,109	
Education and Training	85,103	_	85,103	
Field Services for Members and Employers	81,915	_	81,915	
Organization and Meetings	115,472	_	115,472	
General Insurance	240,978	_	240,978	
Strategic Projects	230,805	-	230,805	
Depreciation and Amortization	4,294,965	588,414	4,883,379	
Total Administrative Expenses	\$ 24,016,031	\$ 2,036,680	\$ 26,052,711	

INVESTMENT EXPENSES

Year Ended Dec. 31, 2021

INVESTMENT-ACTIVITY EXPENSES

Department Operating Expenses

Department Operating Expenses			
Salaries	\$	3,916,584	
Payroll Taxes		238,334	
Pension Contributions		448,408	
Employee Insurance and Benefits		374,485	
Professional Fees/Outsourced Services		1,498,487	
Investment Data Systems		201,798	
Equipment Service and Repairs		5,113	
Office Supplies/Postage		27,351	
Telecommunications		12,353	
Reference Materials and Memberships		19,788	
Education and Travel		52,730	
Depreciation		2,198	
Total Department Operating Expenses		6,797,629	
Nondepartment Managers' Fees:			
Equities/Hedge Funds		21,451,680	
REITs		5,430,955	
Master Limited Partnerships		6,836,000	
Private Real Estate Partnerships		7,806,888	
Investment-Grade Bonds		1,930,243	
Credit		2,890,247	
Private Equity		363,672	
Total Nondepartment Managers' Fees		46,709,685	
Total Department Operating		50 507 01 4	
Expenses and Managers' Fees		53,507,314	
Custodial Fees — Mellon Trust		566,523	
Investment Consultant Fees – Cliffwater LLC		2,750,000	
Total Investment-Activity Expenses	\$	56,823,837	
	Ψ	50,020,007	
SECURITIES-LENDING EXPENSES			
Borrower Rebates and Agent Fees	\$	314,822	
See accompanying independent auditor's report.			

PROFESSIONAL AND CONSULTING SERVICES

Year Ended Dec. 31, 2021

Professional/Consultant	Nature of Service	Administrative Operations	Investment Department ¹
Evonsys, LLC	Technology consulting	\$ 3,225,048	_
Vinson & Elkins, LLP	Legal	_	1,262,063
Milliman, Inc.	Actuarial Services	597,670	_
Prophet Brand Strategy	Technology consulting	382,750	_
DLA Piper US, LLP	Legal	_	267,222
KPMG, LLP	Audit services	232,150	_
Binary Defense Systems	Technology consulting	155,000	_
Gartner, Inc.	Technology consulting	131,732	_
Oshyn, Inc.	Technology consulting	129,830	_
TrustedSec, LLC	Technology consulting	128,975	_
Jackson Walker, LLP	Legal	116,010	8,339
Thought Leaders Group	Technology consulting	91,544	_
JP Morgan Chase	Banking services	89,194	_
McElvaney Public Affairs, LLC	Consultant	81,500	_
Whitehat Virtual Technologies	Technology consulting	80,343	_
Bradshaw & Bickerton, PLLC	Legal	_	69,810
Texhahn Media, Inc.	Communications consulting	61,124	_
LexisNexis Risk Solutions	Technology consulting	53,800	_
Phidiax, LLC	Technology consulting	51,398	_
CEM Benchmarking, Inc.	Pension industry benchmarking	50,000	_
Access Science Corporation	Technology consulting	49,488	_
		\$ 5,707,555	\$ 1,607,433

¹ Pursuant to GFOA guidelines, investment advisor expenses are shown only on the investment expenses schedule on the preceding page. The members of the TCDRS Board of Trustees serve without compensation and are reimbursed for actual out-of-pocket travel expenses incurred.

HORACE CALDWELL PIER, PORT ARANSAS, NUECES COUNTY

3. INVESTMENT

POWERFUL INVESTMENTS

Because members and employers are saving in advance for retirement, they are getting the maximum power of investment earnings over time. Investment earnings fund 74 cents of every benefit dollar our members receive.

CLIFFWATER

May 2022

Board of Trustees Texas County and District Retirement System 901 MoPac Expressway South Barton Oaks Plaza IV, Ste. 500 Austin, Texas 78746

To the members of the Board:

It is our pleasure to be the investment consultant for the Texas County and District Retirement System (hereinafter referred to as "TCDRS") and to report on your investment performance and activities for the year ending 2021. Retained in 2005, Cliffwater LLC provides investment policy development and review, asset allocation analysis, asset class structure analysis, investment manager searches and investment performance monitoring and evaluation to the Board and its staff. In calculating investment performance, TCDRS uses the industry standard time-weighted rate of return methodology (net of fees) based upon market values.

2021 was a year marked by the easing of the global pandemic. As a result of strong policy action, both fiscal and monetary, combined with the roll-out of vaccines, the US GDP real growth rate was 5.7% in 2021, which was the highest since 1984. As a result, the US Total Stock Market Index returned +25.7% and developed international stocks (MSCI World Ex US net Index) +12.6%. The Federal Reserve remained accommodative with the Fed Funds rate at 0% and there was continued quantitative easing. However, supply chain issues resulted in a surge of inflation with the CPI-U at 7.1% for 2021. As a result, the 10 Year US Treasury yield started the year at 0.91% and ended the year at 1.51%, with the rise in yields corresponding to the rise in inflation expectations. Risk bearing asset classes improved throughout the year. As a result, high yield bonds ended the year with a 5.2% return (FTSE High Yield Cash-Pay Capped Index), REITs returned 41.3% (FTSE NAREIT All Equity REIT Index) and higher energy prices resulted in MLPs returning 40.2% (Alerian MLP Index). Against this background, private real estate and private credit funds had a strong recovery while private equity continued to perform well, particularly for venture capital backed companies that benefited from a robust exit environment.

TCDRS' diversified investment portfolio increased in total assets from \$37.0 billion to \$44.8 billion. The one-year total fund return was 22.0%, after fees, which was above the Board's Total Fund Policy Benchmark return of 17.2%. Over 10 years, the fund's 10.2% return exceeds the Board's Total Fund Policy Benchmark return of 8.9%. At the asset class level, TCDRS' passively managed US equities portfolio returned 25.8% for the year. TCDRS' balance of active and passive developed international managers resulted in an 11.4% return, below the benchmark return while the active global equity portfolio returned 12.1% vs. 21.8% for the benchmark as the style rotation from growth to value impacted a portion of the portfolio. Emerging market equities had a -3.3% return compared to the benchmark of -2.5%. The active REIT portfolio's return of 39.1% exceeded the benchmark's 38.0% return while the MLP portfolio returned 41.4% compared to the benchmark's 40.2% return. The active core fixed income portfolio returned -1.4% relative to -1.5% for the benchmark and the hedge fund portfolio returned 8.0% compared to its benchmark return of 6.2%. The strategic credit asset class return of 16.0% exceeded the benchmark's 5.2% return as this portfolio recovered from its 2020 drawdown. The private equity program returned 45.0%, significantly outperforming its benchmark return of 35.6%. Distressed debt returned 21.6%, direct lending returned 13.2% and the real estate program returned 26.5% for the year. Having a lower bond exposure during a period of rising interest rates and the outperformance of several asset classes, most notably private equity, direct lending and strategic credit, led to the fund exceeding the benchmark.

In terms of asset allocation, the TCDRS Board increased both the private equity and direct lending exposures each by 5%. Public equity exposure decreased by 6% with a 3% decrease in strategic credit, a 2% decrease in hedge funds and a 1% decrease in REITs. A 2% allocation to cash was added. The fund added several strategic credit managers to increase diversification and the fund committed to new private equity, private real estate, distressed debt and direct lending partnerships in accordance with its annual commitment budgets.

Respectfully submitted,

Latel R. Bankich

Kathleen K. Barchick, Sr. Managing Director

A: THE TCDRS ACT AND INVESTMENT POLICY

Investment decisions of the TCDRS Board of Trustees (board) are subject to the Texas Constitution, the TCDRS Act and the applicable statutory provisions of the Texas Trust Code that provide for a "prudent person" standard of care.

Additionally, the board has adopted, and reviews at least annually, an investment policy that defines investment authority and emphasizes the importance of a long-term investment philosophy with minimization of risk.

B: INVESTMENT PHILOSOPHY AND STRATEGY

The board has established a long-term target investment return of 7.5% and has diversified the TCDRS portfolio to include:

- Equities
 - U.S., international developed, emerging markets, and global equities

TABLE 1: CAPITAL MARKET ASSUMPTIONS

Hedge funds

Credit investments

- Strategic credit, distressed debt and direct lending
- Private equity
- Real assets
 - Real estate investment trusts (REITs), commodities, private real estate partnerships, Treasury Inflation-Protected Securities (TIPS) and Master Limited Partnerships (MLPs)
- Investment-grade bonds
- Cash and cash equivalents

(For more information on these types of securities, please see the Glossary on page 89.)

The board uses a long-term, strategic approach to asset allocation based upon capital market assumptions that are reviewed and adopted annually. The assumptions in effect as of March 2021 are shown in Table 1 and include the long-term expected return and risk (standard deviation) for each asset class.

C: ASSET ALLOCATION

The board has established asset allocation targets for each asset class within the TCDRS portfolio. Table 2 shows the target allocations in effect during 2021 for each asset class.

As of Jan. 1, 2	021				
Asset Category (Portfolio)	Expected Return	Standard Deviation	TABLE 2: ASSET ALLOCA	TION TARGE	
Equities				Percentages	
U.S. Equities	6.25%	17.00%	Asset Category	Jan. 1, 2021	Dec. 3
International Equities – Developed	6.25	18.00	Equities		
International Equities — Emerging	6.75	26.00	U.S. Equities	14.5%	11
Global Equities	6.55	17.70	International Equities – Develope	ed 7.0	5
Hedge Funds	3.85	4.40	International Equities — Emerging	g 7.0	e
Credit Investments			Global Equities	2.5	2
Strategic Credit	4.11	5.86	Hedge Funds	8.0	6
Distressed Debt	7.70	11.00	Credit Investments		
Direct Lending	8.70	8.00	Strategic Credit	12.0	9
Private Equity	9.25	20.00	Distressed Debt	4.0	4
Real Assets			Direct Lending	11.0	16
REIT Equities	5.45	22.00	Private Equity	20.0	25
Commodities	0.50	18.00	Real Assets		
Private Real Estate Partnerships	6.90	30.00	REIT Equities	3.0	2
TIPS	0.90	7.00	Private Real Estate Partnerships	6.0	6
Master Limited Partnerships (MLPs) 7.10	24.00	Master Limited Partnerships	2.0	2
Investment-Grade Bonds	1.15	4.00	Investment-Grade Bonds	3.0	3
Cash and Cash Equivalents ¹	1.30	2.00	Cash	0.0	2

¹ Money awaiting allocation to an asset category and deposited with the system's custodian.

The target allocation for TIPS and Commodities at 12/31/21 was 0.0%

TABLE 3: BENCHMARK PORTFOLIOS FOR PERFORMANCE MEASUREMENT

Asset Category	Benchmark Portfolio
Equities	U.S. Equity Index Dow Jones U.S. Total Stock Market Index
	Developed International Equity Index
	MSCI World ex U.S. Index (net)
	Emerging Market International Equity Index
	MSCI EM (Emerging Markets) Index (net)
	Global Equity Index MSCI World Index (net)
Hedge Funds	Hedge Fund Research, Inc. (HFRI) Fund of Funds Composite Index
Credit Investments	Strategic Credit Index
	FTSE High-Yield Cash-Pay Capped Index
	Distressed Debt Index
	Cambridge Associates Distressed Securities Index ¹
	Direct Lending Index S&P/LSTA Leveraged Loan Index
Private Equity	Cambridge Associates Global Private Equity & Venture Capital Index²
Real Assets	REIT Index
	67% FTSE NAREIT All Equity REIT Index
	33% S&P Global REIT (net) Index
	Commodities Index
	Bloomberg Commodities Index
	TIPS Index
	Bloomberg U.S. 10-Year Breakeven Inflation Index
	Private Real Estate Partnerships
	Cambridge Associates Real Estate Index ³
	MLP Index
	Alerian MLP Index
Investment-Grade Fixed-Income	Bloomberg U.S. Aggregate Bond Index
Cash	U.S. 3-Month Treasury Bill

² Includes vintage years 2006-present of Quarter Pooled Horizon IRRs.

³ Includes vintage years 2007-present of Quarter Pooled Horizon IRRs.

D: ASSET CLASSES, INVESTMENT STYLES AND INVESTMENT MANAGERS

TCDRS uses both active and passive styles of investment management. The passive style seeks to match the performance of an established market index by holding the same securities as the index. An active style seeks to exceed the performance of a benchmark by allowing the manager to actively trade securities that may be different from the index.

Asset classes managed passively are U.S. equities and a portion of the developed international and emerging market equities. The remainder of the assets are actively managed.

The investment manager responsible for an externally managed portfolio holds any cash that portfolio generates in interest-bearing instruments or accounts until it is reinvested. The TCDRS Investment Officer manages cash as well as new contributions in a short-term investment fund until allocated to a portfolio.

E: INVESTMENT RESULTS

TCDRS retains a professional performance measurement analyst that regularly reports investment performance to the board for each investment manager, for the aggregate of all managers in each asset class and for the total portfolio.

Performance Reporting

Performance of each investment manager is measured against the performance of similar assets contained within a benchmark portfolio, as represented by a specific index. Comparisons indicate the value added by each manager, if any, in excess of the performance that was experienced by the specific benchmark index. When multiple investment managers are retained within a particular asset class, a benchmark portfolio is selected for measurement of the performance of the entire asset class. Table 3 identifies the benchmark portfolio associated with each asset class contained within the TCDRS investment portfolio.

A policy benchmark portfolio consisting of individual asset class benchmarks, weighted by asset class target allocation, is constructed for measurement of the performance of the entire portfolio.

Performance Results

The TCDRS portfolio in 2021 returned +22.0% net of fees, significantly outperforming its benchmark return of +17.2% by +4.8%. 2021 was a very strong year for most investment markets with most major asset classes increasing in value mainly driven by significant amounts of global fiscal and monetary stimulus flowing through the global economy. TCDRS' U.S. equities (+25.8%), developed international equities (+11.4%), global equities (+12.1%), REITs (+39.1%),

and MLPs (+41.4%) were all up significantly. Private equity (+45.0%), and private real estate (+26.5%) were strong performers for the portfolio during the year. The three credit portfolios performed well: strategic credit (+16.0%), distressed debt (+21.6%), and direct lending (+13.2%). The hedge fund portfolio was positive at +8.0%. The only investments which were negative in 2021 were investment-grade bonds (-1.4%) and emerging market equities (-3.3%). Cash was flat (0.0%).

TABLE 4: RESULTS FROM INVESTING ACTIVITIES, NET OF ALL FEES ¹						
Periods Ended Dec. 31, 2021						
	2021	2021 Annualized Returns				
TCDRS Portfolio/Benchmark Portfolio	Return	3-Year	5-Year	10-Year	20-Year	30-Year
Total Fund Policy Benchmark Portfolio	22.0 17.2	16.3 15.2	12.1 11.1	10.2 8.9	8.2 7.3	8.2 7.1
Equities						
U.S. Equities U.S. Equity Index Benchmark Portfolio	25.8 25.7	25.5 25.7	17.8 17.9	16.3 16.2	9.9 9.9	-
International Equities - Developed Developed Intl Equity Index Benchmark Portfolio	11.4 12.6	14.3 14.1	9.8 9.6	8.6 7.8	6.8 6.4	
International Equities - Emerging Emerging Intl Equity Index Benchmark Portfolio	-3.3 -2.5	12.9 10.9	10.2 9.9	5.7 5.5	_	
Global Equity Global Equity Benchmark Portfolio	12.1 21.8	25.5 21.7	17.9 15.0	_	_	
Hedge Funds Hedge Fund Benchmark Portfolio	8.0 6.2	9.7 8.5	6.6 5.7	6.2 4.6	_	
Credit Investments						
Strategic Credit Strategic Credit Benchmark Portfolio	16.0 5.2	8.1 8.2	8.2 5.8	9.0 6.3	8.1 7.8	
Distressed Debt Distressed Debt Index Benchmark Portfolio	21.6 29.5	11.5 14.4	11.7 11.5	10.9 8.6	_	
Direct Lending Direct Lending Index Benchmark Portfolio	13.2 5.2	10.3 5.6	9.9 4.3	_	_	
Private Equity Private Equity Benchmark Portfolio	45.0 35.6	29.4 26.1	24.2 21.5	18.7 17.2	_	
Real Assets						
REITs REIT Index Benchmark Portfolio	39.1 38.0	20.6 17.7	12.7 10.8	11.9 11.1	11.0 10.3	
Private Real Estate Partnerships Private Real Estate Benchmark Portfolio	26.5 25.5	10.9 11.5	11.1 11.3	13.3 11.1	_	
MLPs MLP Index Benchmark Portfolio	41.4 40.2	6.1 2.1	-0.6 -2.7			
Investment-Grade Bonds Investment-Grade Bond Index Benchmark Portfolio	-1.4 -1.5	5.7 4.8	4.2 3.6	3.8 2.9	5.0 4.5	6.2 5.4
Cash U.S. 3-month T-Bill	0.0 0.0	1.0 0.8	1.2 1.1	0.9 0.6	_	

¹Calculations of performance were prepared using time-weighted rates of return calculations and are reported net of all fees.

Source: BNY Mellon Performance and Risk Analytics Fund Analysis, Fourth Quarter 2021

TABLE 5: LIST OF LARGEST EQUITY HOLDINGS¹

Company	Portfolio	Fair Value
Apple Inc	U.S. Equities	\$352.3
Microsoft Corp	U.S. Equities	321.5
Cheniere Energy Inc	MLP	199.8
Amazon.Com Inc	U.S. Equities	185.1
MPLX LP	MLP	160.4
American Tower Corp	REIT	131.1
Energy Transfer LP	MLP	120.8
Enterprise Products Partners	MLP	119.7
Alphabet Inc	U.S. Equities	111.0
Tesla Inc	U.S. Equities	109.2

¹ TCDRS invests in equity securities through separately managed and commingled equity vehicles. At Dec. 31, 2021, the largest equities contained in the U.S. Equities portfolio represent TCDRS' investment in a State Street U.S. Total Stock Market Index Fund which TCDRS owns a 98% undivided interest in. The remaining securities are individual shares held in the MLP portfolio.

F: LISTS OF LARGEST HOLDINGS¹

Equity Holdings

The system's exposure to equity markets is achieved through participation in commingled investment pools, such as State Street Global Advisors (SSgA) U.S. equity and international equity index funds, and direct investment in separately managed REIT and MLP portfolios. At Dec. 31, 2021, TCDRS' largest equity holdings were in the U.S. equity, REIT and MLP portfolios. Table 5 displays our exposure to the 10 largest equity holdings.

Fixed-Income Holdings

Table 6 presents the top 10 fixed-income securities owned by TCDRS. The securities are contained within the investment-grade bond portfolio. At Dec. 31, 2021, the aggregate fair value of the investmentgrade bond portfolio was \$1,045 million.

¹ A complete listing of all securities TCDRS owned at Dec. 31, 2021, is available upon written request.

G: RESULTS OF SECURITIES-LENDING ACTIVITIES

TCDRS retains The Bank of New York Mellon Corp. as securities-lending agent to engage in lending securities from its portfolios. Securities-lending transactions consist of loans of securities to broker-dealers and other entities in exchange for collateral with a simultaneous agreement to return the collateral for the same securities in the future. The gross income and expenses attributable to

TABLE 6: LIST OF LARGEST FIXED-INCOME HOLDINGS

Dec. 31, 2021 (\$ Millions)

Description	Maturity	Interest Rate	Fair Value
U S Treasury Note	12/31/2028	1.375%	\$50.69
Commit To Pur FNMA Sf Mtg	02/01/2052	2.500%	25.09
U S Treasury Bond	08/15/2041	1.750%	21.74
U S Treasury Note	12/31/2023	0.750%	18.39
U S Treasury Note	11/15/2030	0.875%	17.89
U S Treasury Note	04/30/2026	0.750%	15.21
U S Treasury Note	10/31/2027	0.500%	13.85
U S Treasury Bond	05/15/2041	2.250%	10.92
FHLMC Pool #RA-3202	07/01/2050	2.500%	10.33
Slc Student Loan Trust 20 2 A4	12/15/2039	VAR RT	10.16

TABLE 7: SECURITIES-LENDING ACTIVITY

Year Ended Dec. 31, 2021 **Elements of Securities-Lending Activity** Amount \$ 926.855 **Gross Earnings** Less Rebates from Lenders and Lending Agent's Share of Income 314,822 Net Securities-Lending Income 612,033 (Separately Managed Accounts) Securities-Lending Income 938.409 (Commingled Funds) Net Securities-Lending Income \$ 1,550,442

securities-lending activity and net lending income of \$0.6 million are shown in Table 7.

Additionally, SSgA passively manages the U.S. and international equity portfolios of TCDRS in commingled funds. The securities in these funds participate in the securities-lending program of SSgA with TCDRS receiving a proportionate share of the securities-lending income generated from this activity. Also shown in Table 7 is income of \$0.9 million representing TCDRS' share of the 2021 equity portfolios' securities-lending income.

H: FEES AND COMMISSIONS

Table 8, on page 59, presents the 2021 investment managers' fees TCDRS incurred, excluding securities-lending fees.

Note that all returns presented throughout this annual report are reported net of the amounts reported in Table 8.

		Year Ended Dec. 3	1, 2021		
	Fees Paid from the	Pension Trust Fund ¹	Fees Netted	Against Returns	
Asset Class	Management Fees	Performance Fees	Management Fees	Performance Fees	Fair Value at Dec. 31, 2021
Equities	\$ 9,248,174	\$ 12,203,506	\$ -	\$ —	\$ 12,627,817,319
MLPs	6,836,000	_	_	-	1,143,833,192
REITs	5,430,955	_	-	-	1,447,140,636
Investment-Grade Bonds	1,930,243	_	_	-	1,045,376,299
Cash & Equivalents	_	_	_	-	1,091,369,443
Iternative Investments	Management Fees	Performance Fees	Management Fees	General Partner Carried Interest	Fair Value at Dec. 31, 2021
Private Equity	363,672	_	146,013,878	952,714,244	11,415,342,893
Private Real Estate Partnerships	7,806,888	_	24,698,528	72,310,636	1,958,964,452
Hedge Funds	_	_	34,015,685	45,909,627	2,908,697,362
Strategic Credit	2,711,279	_	45,845,418	97,722,481	4,878,421,715
Distressed Debt	178,968	_	15,273,885	43,034,957	1,351,268,813
Direct Lending	_	_	47,613,380	87,812,017	4,915,879,114
otal	\$ 34,506,179	\$ 12,203,506	\$ 313,460,774	\$ 1,299,503,961	\$ 44,784,111,237

TABLE 8: INVESTMENT MANAGERS' FEES

¹ See Nondepartment Managers' Fees on page 51.

Alternative Investment Fees

The investment management fees included in Investment Activity Expenses presented in the Statement of Changes in Fiduciary Net Position represent only those paid directly from the Pension Trust Fund and do not include fees incurred and charged by general partners in partnerships investing in private equity, distressed debt, direct lending, strategic credit, private real estate and hedge funds, as these types of fees are netted directly against returns for those investments in accordance with FASB ASC 820. In the interest of greater transparency, fees and profit shares associated with these types of investments are disclosed in Table 8, based on information requested and received from fund general partners in conjunction with the annual audit.

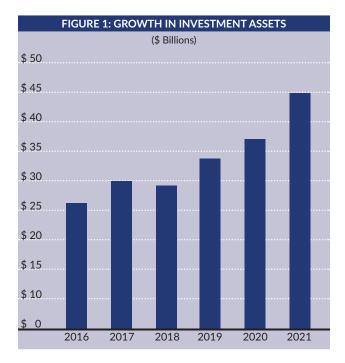
The investment expenses related to TCDRS' investments in partnerships investing in private equity, distressed debt, direct lending, strategic credit, private real estate and hedge funds fall into the categories of management fees and profit sharing (also called "carried interest").

Management fees typically range from 1.5% to 2% of the value of invested assets (hedge funds and strategic credit) or committed capital (private equity, private real estate, distressed debt and direct

lending) and are intended to compensate the general partner for its costs in operating the partnership.

Profit sharing or carried interest incentivizes and aligns the general partner's interest with TCDRS' interest. The carried interest represents the general partner's share of the partnership's profits, typically 20%, with 80% going to the limited partners such as TCDRS. Carried interest earned by hedge funds and strategic credit funds is generally accrued monthly and paid annually since the underlying investments are relatively liquid and more easily valued. Due to the long-term nature of private equity, private real estate, distressed debt and direct lending partnerships (typically 8 to 12 years) and the illiquidity associated with the underlying investments, carried interest is accrued over the life of the partnership but is usually not finalized until the fund is fully liquidated. Generally, an agreed rate of return, or preferred return, must first be surpassed before carried interest is earned by the general partner. To incentivize general partners to maintain performance over the life of a partnership, periods of negative performance may result in previously accrued carried interest being reduced or "clawed back". During such periods, negative carried interest expense would be reported.

The fees reported in Table 8 are those that directly impact TCDRS' various partnership investments.



General partners may receive additional economic benefits from their management of the partnerships in accordance with the partnerships' governing documents.

Table 9 presents the commissions paid to brokers by the system's equity managers. The managers executed trades of 95.7 million shares through 39 brokers. The \$1.5 million in commissions earned by these brokers represents a cost of \$.02 per share traded.

I: ASSET GROWTH OF THE SYSTEM

As shown in Figure 1, the total value of TCDRS' investment assets, including accrued interest and dividends, has increased by \$18.6 billion over the past five years (from \$26.2 billion at Dec. 31, 2016 to \$44.8 billion at Dec. 31, 2021). The increase of investment assets in 2021 was attributable to a 22.0% investment return along with net cash outflows as the system has reached a stage in its maturity where cash flow from employee deposits and employer contributions is slightly less than the amounts required to meet annual benefits, withdrawals and administrative expenses.

TABLE 9: BROKER COMMISSIONS PAID BY EQUITY MANAGERS

Year Ended Dec. 31, 2021

Shares		Commissions		
Brokerage Firm (*	Traded Thousands)	(Thousands)	Per Share	
B. Riley and Co. LLC, New York	16,665	500	0.03	
Merrill Lynch PF&S, New York	4,107	202	0.05	
RBC Capital Markets LLC, New York	26,011	162	0.01	
J.P. Morgan Securities LLC, New York	5,856	145	0.02	
Goldman Sachs & Co., NY	2,365	81	0.03	
Wells Fargo Securities, LLC, New York	11,198	59	0.01	
National Finl. Svcs. Corp., New York	4,382	55	0.01	
Jefferies & Co. Inc., New York	5,861	43	0.01	
Merrill Lynch Pierce Fenner Smith Inc. NY	2,380	37	0.02	
Morgan Stanley & Co. Inc., NY	1,500	36	0.02	
Credit Suisse, New York (CSUS)	1,100	35	0.03	
UBS Securities LLC, Stamford	1,207	30	0.02	
Liquidnet Inc., New York	1,380	28	0.02	
Citigroup Global Markets, Inc., New York	, 942	23	0.02	
BMO Capital Markets Corp., New York	1,108	22	0.02	
Summary of Remaining Firms	9,599	81	0.01	
Totals	95,662	\$ 1,538	\$ 0.02	

J: INVESTMENT SUMMARY

The total value of the portfolio and each asset class at Dec. 31, 2021, is shown in Table 10 on page 61 and is composed of the fair value of the underlying investments plus the amount of accrued interest and dividends, if any. The values shown in each asset class under the column labeled "Fair Value" are the investment amounts presented in the Statements of Fiduciary Net Position shown on page 26 in the Financial Section of this annual report.

TABLE 10: INVESTMENTS BY ASSET SUBCLASS				
Dec. 31, 2021				
Type of Investment	Fair Value	Interest, Dividends and Other Receivables	Total Value	% of Total Value
Equities				
US Equities	\$ 6,369,760,673	\$ 612,094	\$ 6,370,372,767	14.2%
International Equities	4,704,428,239	0	4,704,428,239	10.5%
Global Equities	1,553,628,407	0	1,553,628,407	3.5%
Hedge Funds	2,908,697,362	0	2,908,697,362	6.5%
Credit Investments				
Strategic Credit	4,878,421,715	2,002,472	4,880,424,187	10.9%
Distressed Debt	1,351,268,813	0	1,351,268,813	3.0%
Direct Lending	4,915,879,114	2,050,718	4,917,929,832	11.0%
Private Equity	11,415,342,893	(2)	11,415,342,891	25.5%
Real Assets				
REITs	1,447,140,636	2,454,829	1,449,595,465	3.2%
Private Real Estate Partnerships	1,958,964,452	0	1,958,964,452	4.4%
MLPs	1,143,833,192	999,832	1,144,833,024	2.6%
Investment-Grade Bonds	1,045,376,299	4,618,943	1,049,995,242	2.3%
Cash and Cash Equivalents	1,091,369,443	0	1,091,369,443	2.4%
Total Investments Shown on Statements of Fiduciary Net Position	\$ 44,784,111,237	\$ 12,738,886	\$ 44,796,850,123	100.0%

READER'S NOTES

GUADALUPE MOUNTAINS NATIONAL PARK, CULBERSON COUNTY

4. ACTUARIAL

ROCK-SOLID FUNDING

Our unique savings-based benefit structure helps employers provide reliable benefits at predictable costs. Benefits are responsibly funded, with each employer paying 100% of their required contribution each year. This means money is there when needed and debt is not pushed to future generations.



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milliman.com

May 27, 2022

Board of Trustees Texas County & District Retirement System Austin, Texas

Dear Trustees:

In accordance with the Texas County & District Retirement System (TCDRS) Act, the annual actuarial valuation of the assets and liabilities of TCDRS has been completed as of December 31, 2021. This valuation was performed using actuarial assumptions that were adopted by the Board. The economic assumptions were adopted at the March 2021 Board meeting, and the demographic assumptions were adopted at the December 2021 Board meeting.

We believe the assumptions individually and collectively represent reasonable expectations of experience over the long-term future and that all methods and assumptions used for funding and financial reporting are in compliance with the relevant Actuarial Standards of Practice. Nevertheless, the emerging costs of the TCDRS employers will vary from those presented to the extent that actual experience differs from that projected by the actuarial assumptions.

To test how well the financing objective for each plan is being achieved, annual actuarial valuations are made. These valuations recognize differences in the past year between the actuarial assumptions and the actual experience, and any benefit changes for each plan.

The financing objective for each TCDRS plan is to provide retirement, death, and disability benefits for a county's or a district's employees financed by an employer contribution rate. This rate is determined annually and is designed to remain approximately level from year to year as a percent of the employer's covered payroll. The employer contribution rate consists of the normal cost contribution rate plus the unfunded actuarial accrued liability (UAAL) contribution rate. The UAAL as of December 31, 2020 and any subsequent gains and losses are amortized over closed 20-year periods (open 30-year period if the employer is in an overfunded position). In some cases, the initial closed period for the December 31, 2020 UAAL is amortized over a period shorter than 20 years. Benefit increases are amortized over closed 15-year periods. The methods for calculating the required contribution rates are specified in the funding policy which has been adopted by the Board.

A separate actuarial valuation for each participating county and district was performed based on the plan benefits in effect on January 1, 2022. The aggregate results of the actuarial valuation of system-wide assets and liabilities are presented in the Actuarial Section in the Summary Actuarial Valuation Results schedule. The assumptions and methods used in this valuation are summarized in the actuarial section. The member, annuitant and asset data used in the valuation were all prepared and furnished by TCDRS. We relied on that data after examining it for general reasonableness and year-to-year consistency. Please refer to the December 31, 2021 System-wide Actuarial Valuation Report for further disclosures.

Milliman provided the information that TCDRS used in preparing the following tables and figures:

- Financial Section Table 1: Membership
- Financial Section Notes to the Financial Statements: TCDRS Bridge Program Health Reimbursement Arrangement

L Milliman

Board of Trustees May 27, 2022 Page 2

- Actuarial Section Table 1: Select Termination Rates
- Actuarial Section Table 2: Rates of Withdrawal Upon Termination
- Actuarial Section Table 3: Disability Rates
- Actuarial Section Table 4: Service Retirement Rates
- Actuarial Section Table 5: Annual Rate of Salary Increase
- Actuarial Section Summary Actuarial Data (Funding Status and Funding Progress)
- Actuarial Section Table 6: Funding Progress
- Actuarial Section Table 7: Employer Contributions
- Actuarial Section Table 8: Retiree and Beneficiary Data Accounts
- Actuarial Section Table 9: Retiree and Beneficiary Data Amounts
- Actuarial Section Table 10: Solvency Test
- Actuarial Section Table 11: Contribution Rate Information for Participating Employers
- Actuarial Section Table 12: Participating Employers and Depositing Members
- Actuarial Section Table 13: Analysis of Financial Experience
- Actuarial Section Table 14: Summary Actuarial Valuation Results
- Statistical Section Table 3: Average Benefits
- Statistical Section Table 4: Average Benefit Profile by Employer Type
- Statistical Section Table 5: Annuitants by Type of Benefit
- Statistical Section Figure 4: Number of Annuitants Grouped by Age

Sincerely,

MAD

Matt Larrabee, FSA, EA, MAAA Consulting Actuary

Vin alli

Nick J. Collier, ASA, EA, MAAA Consulting Actuary

A: ACTUARIAL ASSUMPTIONS

Except as indicated below, the actuarial assumptions for funding valuation purposes described below were developed from an actuarial experience investigation of TCDRS over the years 2017-2020. They were recommended by Milliman, Inc., adopted by the TCDRS Board of Trustees in 2021 and first used in the Dec. 31, 2021 actuarial valuation. For new plans joining TCDRS, employerspecific assumptions for termination rates and payroll increases are assigned based on the size of the employer and other relevant factors.

There were two assumptions that changed for the Dec. 31, 2020 actuarial valuation: the investment return assumption and the price inflation assumption. The change in the price inflation assumption also impacted the salary increases assumption and the payroll growth assumption. They were recommended by Milliman, Inc., adopted by the TCDRS Board of Trustees in Mar. 2021 and first used in the Dec. 31, 2020 actuarial valuation.

TABLE 1: SELECT TERMINATION RATES				
	Years of	N	lale and Fema	le
Entry Age	Service	Low	Mid	High
20 to 29	0	0.264	0.330	0.396
	3	0.144	0.180	0.216
	6	0.088	0.110	0.132
	9	0.064	0.080	0.096
	12	0.048	0.060	0.072
	15	0.035	0.044	0.053
	18	0.026	0.033	0.040
	21	0.020	0.025	0.030
	24	0.015	0.019	0.023
	27	0.010	0.013	0.016
30 to 39	0	0.216	0.270	0.324
	3	0.120	0.150	0.180
	6	0.080	0.100	0.120
	9	0.056	0.070	0.084
	12	0.044	0.055	0.066
	15	0.035	0.044	0.053
	18	0.026	0.033	0.040
	21	0.020	0.025	0.030
	24	0.015	0.019	0.023
	27	0.010	0.013	0.016
40 to 49	0	0.192	0.240	0.288
	3	0.096	0.120	0.144
	6	0.064	0.080	0.096
	9	0.044	0.055	0.066
	12	0.036	0.045	0.054
	15	0.027	0.034	0.041
	18	0.018	0.022	0.026
	21	0.000	0.000	0.000
	24	0.000	0.000	0.000
	27	0.000	0.000	0.000

More detail can be found in the explanation of the individual assumptions that follows.

Termination Rates

The termination rates are used to estimate future terminations of employment for reasons other than death, disability or retirement. The rates vary by length of service, entry-age group (age at hire) and termination group assignments, and do not apply after an employee is eligible for retirement. Sample rates for three of the seven termination groups are shown in Table 1.

Each employer was assigned to a termination group based primarily upon the termination characteristics of the members of that employer's plan during the years 2017-2020 relative to the termination characteristics of TCDRS membership system-wide during the same period. Consideration was also given to previous experience studies when assigning an employer's termination group to account for the possibility that 2017-2020 experience was out of the ordinary.

For plans that have adopted the partial lump-sum payment option, adjustments are made to the termination rates. Rates are reduced at ages near retirement as it is anticipated that if the partial lump sum is available, members are less likely to terminate employment so they can withdraw their accounts.

Withdrawal Rates

Members who terminate employment with the county or district may either elect to leave their accounts with TCDRS or withdraw their accounts. The likelihood that an active member who terminates employment will elect to withdraw varies by length of service and vesting requirement. Sample withdrawal rates are shown in Table 2.

TABLE 2: RATES OF WITHDRAWAL UPON TERMINATION			
Years of	Ve	sting Requireme	ent
Service	5 Years	8 Years	10 Years
0	100.0%	100.0%	100.0%
4	100.0%	100.0%	100.0%
6	38.0%	100.0%	100.0%
8	34.0%	34.0%	100.0%
10	32.0%	32.0%	32.0%
15	26.0%	26.0%	26.0%
20	21.0%	21.0%	21.0%
25	17.5%	17.5%	17.5%
30 and over	0	0	0

RETIREMENT PLAN: SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

	ABLE 3: DISABILITY	KATES
Age	Male and Female Occupational ¹	Male and Female All Causes ²
35	.00001	.000252
40	.00001	.000420
45	.00001	.000740
50	.00001	.001170
55	.00001	.001620
60 and above	.00001	.000000

¹Applicable for non-vested members

²Applicable for vested members who are not eligible for service retirement

Members who have already terminated employment and are neither vested nor active with another TCDRS employer are assumed to withdraw their accounts. Otherwise, they are assumed to defer their benefit until retirement eligible.

Disability Rates

There are two types of disability rates, occupational disability rates (predicts disabilities that occur during the performance of job duties) and all-causes disability rates (predicts all disabilities regardless of whether they occur during the performance of job duties). Before a member is vested, only the occupational disability rates are applicable. For members who are vested, but not eligible for service retirement, the rate of disablement is the all-causes rate. Rates are assumed to be zero after the member is eligible for service retirement. Sample disability rates are shown in Table 3.

Service Retirement Rates

Retirement rates predict when active retirement eligible members will commence receiving benefit payments and are based on a member's age and length of service. Retirement eligible members age 75 or older are assumed to commence receiving benefits immediately. Sample rates are shown in Table 4.

Non-depositing members are assumed to retire at the later of first retirement eligibility or age 60.

Mortality Rates

Depositing members:

135% of the PubG-2010 Employee amount-weighted mortality table for males, and 120% of the PubG-2010 Employee amount-weighted mortality table for females, both projected from 2021 using 100% of the MP-2021 Ultimate Projection Scale.

Years of Service				
Age	Less than 15 Years	Between 15 and 24 Years		Greater than 29 years
40-49	.05250	.06300	.07700	.08750
50-51	.05625	.06750	.08250	.09375
52-53	.06000	.07200	.08800	.10000
54-56	.06750	.08100	.09900	.11250
57-59	.07500	.09000	.11000	.12500
60-61	.09000	.10800	.13200	.15000
62	.13500	.16200	.19800	.22500
63-64	.11250	.13500	.16500	.18750
65-66	.22500	.22500	.27500	.27500
67	.21600	.21600	.26400	.26400
68-69	.18900	.18900	.23100	.23100
70-74	.20700	.20700	.25300	.25300
75 & Over	1.00000	1.00000	1.00000	1.00000

TABLE 4: SERVICE RETIREMENT RATES

TABLE 5: ANNUAL RATE OF SALARY INCREASE					
Years		Entry-Age	Group		
of Service	< 30	30-39	40-49	> 50	
1	7.6%	7.1%	6.6%	5.8%	
3	6.8	6.1	5.6	4.8	
5	6.2	5.7	5.2	4.6	
10	5.3	4.9	4.5	4.0	
15	4.7	4.4	3.9	3.7	
20	4.2	4.0	3.6	3.4	
25	3.9	3.6	3.4	3.4	

Service retirees, beneficiaries and non-depositing members:

135% of the PubG-2010 Healthy Retiree amountweighted mortality table for males, and 120% of the PubG-2010 Healthy Retiree amount-weighted mortality table for females, both projected from 2010 using 100% of the MP-2014 Ultimate Projection Scale.

Disabled retirees:

160% of the PubG-2010 Disabled Retiree amountweighted mortality table for males, and 125% of the PubG-2010 Disabled Retiree amount-weighted mortality table for females, both projected from 2010 using 100% of the MP-2014 Ultimate Projection Scale.

Investment Return

A 7.50% annual discount rate is used in the valuation based on the expected long-term investment return of 7.50%. This rate of 7.50% is net of investment and administrative expenses.

Salary Increases

The salary increase assumption predicts salary increases for individuals over their projected careers. These rates vary by the employee's length of service and age at hire (entry age). Annual increase percentages consist of a general wage inflation component of 3.00% and a merit, promotion and longevity component that varies from 0.40% to 5.25% based on entry age and service. The 3.00% wage inflation component is based on the underlying price inflation assumption of 2.50% and 0.50% for assumed increases in productivity. The salary scale varies by entry age, with an approximately 4.70% average annual increase over a typical employee's entire career. Because the TCDRS benefit is not based on final average salary, this assumption is generally not as significant as for other defined benefit retirement systems. Refer to Table 5 for sample salary increase rates.

Payroll Increase

The payroll increase assumption projects the rate of growth of the employer's aggregate payroll. The rate varies by employer, with a maximum of 3.00%, or a smaller percentage as considered appropriate based on the employer's number of employees and prior experience. It also assumes no future growth in the number of employees.

Cost-of-Living Adjustment

An annual increase of 0% cost-of-living adjustment for retirees and beneficiaries is assumed. Within certain parameters, employers may elect cost-ofliving adjustments for retirees and beneficiaries on an ad hoc basis.

B: ACTUARIAL METHODS

Actuarial Cost Method

For funding calculations, TCDRS uses an entry-age actuarial cost method assuming the current plan provisions have always been in place. The goal of this cost method is to fund benefits in an orderly manner for each participant over his or her career so that sufficient funds are accumulated by the time benefit payments begin. Under this approach, benefits are funded in advance as a level percentage of pay. This part of the contribution rate is called the normal cost rate and generally remains stable from year to year. A portion of the normal cost rate is paid by the employee (employee deposit rate) and the remainder is paid by the employer (employerpaid normal cost rate).

Amortization Policy

The portion of the contribution rate that funds any remaining unfunded amounts for benefits that are not covered by the normal cost is called the unfunded actuarial accrued liability (UAAL) rate. UAAL amounts occur when benefit enhancements are adopted, when actual investment or demographic experience varies from the actuarial assumptions (actuarial gains and losses), or when there are changes in actuarial assumptions or methods.

In general, UAAL amounts are amortized on a level-percentage-of-covered-payroll basis over a closed period with a layered approach. The closed periods ensure all unfunded liabilities are financed over no more than a 20-year period. Each year, new layers are established to amortize changes in the UAAL due to actuarial gains or losses, as well as any plan benefit changes elected by an employer for that year.

Benefit enhancements are amortized over a 15-year closed period. All other changes in the UAAL except for changes due to scheduled amortization are amortized over 20-year closed periods.

For newly participating districts that have five or fewer employees who are all within five years of retirement eligibility, any initial UAAL and any subsequent adoption of prior service credits are amortized over a five-year closed amortization period. This ensures that benefits are appropriately funded over the current generation of employees.

Extra contributions may be made by employers by choosing to pay an elected rate that is greater than the required funding rate or making ad hoc lumpsum contributions. Any extra contributions made as lump sums are first used to offset the UAAL increase, if any, related to plan changes elected during the current year. Any extra contributions from an elected rate or remaining extra contribution amounts from lump sums are then used to pay down existing loss bases, in the order of oldest to most recent. After all existing loss bases have been paid off, any remaining extra contributions are incorporated into the actuarial gains or losses for the current year.

Notwithstanding the layered approach, the total UAAL payment may not be less than the required payment obtained by amortizing the entire UAAL over a 20-year period.

If a plan is overfunded, the overfunded actuarial accrued liability (OAAL) is calculated annually using a 30-year open amortization period.

Asset Valuation Method

When determining the actuarial value of assets used for determining required plan funding, TCDRS smooths each year's actuarial investment gains and losses in the following manner. First, any remaining unrecognized asset gains or losses from the previous year are updated to the current year to account for the time value of money using the investment return assumption. Then to the extent that there is a loss for the year and there are unrecognized gains from previous years, or to the extent that there is a gain for the year and there are unrecognized losses from previous years, the gain or loss for the year shall be used to offset unrecognized gains or losses from previous years in the order of oldest to most recent. Any remaining gain or loss for the year is recognized over a five-year period. This better reflects the system's long-term investment horizon and keeps employer contribution rates more stable. As actuarial asset investment gains and losses are recognized, they become part of the actuarial gains and losses for the year and are funded according to the amortization policy. This method ensures that an investment gain and loss for a year will be recognized within five years, helping to stabilize employer rates while still resulting in rates that are reasonably reflective of current market conditions. In addition, the board has the ability to set aside reserves from investment earnings that are used to help offset future negative economic cycles. These reserves are held separately and are not counted as part of a participating employer's plan assets until they are passed through to employers when determined necessary by the board. Reserves help maintain rate stability for employers. In addition, reserves ensure that employers do not adopt benefit increases based on a temporarily lower plan cost at a high point in a market cycle and, conversely, are not as pressured to immediately reduce benefit levels during a low point in a market cycle.

C: CHANGES IN ACTUARIAL ASSUMPTIONS AND METHODS

There were no changes in methods, but the following changes in actuarial assumptions were reflected in the Dec. 31, 2021 actuarial valuation to better reflect future anticipated experience:

- Slightly adjusted all mortality rates by using mortality tables specific to public sector employees.
- Adjusted the merit salary increase rates to reflect generally higher observed rates of increase.
- Adjusted service retirement rates to reflect people generally retiring at older ages.

- Lowered disability rates to reflect lower than expected disability experience.
- Adjusted employment termination rates to reflect generally higher than expected terminations, and changed termination group assignments for some employers based upon observed experience and the size of the employer.
- Generally lowered the rates at which a vested member who has terminated employment will withdraw his or her account balance, forfeiting the right to employer matching and a lifetime annuity. Also modified the assumption that all withdrawals will occur immediately after termination to an assumption that withdrawals will occur over 10 years following termination. A similar modification also applies to former employees only eligible for a refund of account balance whose account balance remains on deposit as of the valuation date.
- Adjusted the payroll growth assumption for some employers to reflect anticipated experience.
- Changed the assumed duration of the cash refund feature for the single-life only option from three to four years to reflect changes in benefit levels due to the applicable annuity purchase rates for benefits earned after Dec. 31, 2017.

RETIREMENT PLAN: SUMMARY ACTUARIAL DATA

SUMMARY ACTUARIAL DATA

Funded Status and Funding Progress

Pension Trust Fund

The funded status of the pension plan as of Dec. 31, 2021, the most recent actuarial valuation date is:

	(\$ Millions)
Actuarial Value of Assets (a)	\$ 38,598.2
Actuarial Accrued Liability (AAL) – Entry Age (b)	\$ 43,612.4
Unfunded AAL (UAAL) (b-a)	\$ 5,014.2
Funded Ratio (a/b)	88.5%
Covered Payroll (c)	\$ 8,109.0
UAAL as a Percentage of Covered Payroll [(b-a) / c]	61.8%

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment and mortality. Actuarially determined amounts are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of funding progress presents multi-year trend information about whether the actuarial values of plan assets are increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

Actuarial calculations reflect a long-term perspective. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial values of assets, consistent with the long-term perspective of the calculations. Additional information as of the latest actuarial valuation for the retirement plan follows:

Valuation Date:		Dec. 31, 2021	
Actuarial Cost Method:		Entry age	
Amortization Metho	od:	Level percent	
Unfunded AAL		Closed	
Overfunded AAL		Open	
Remaining Amortiza	tion Period:		
Unfunded AAL	20 years or le	ess (varies by plan)	
Overfunded AAL		30 years	
Asset Valuation Met	thod:		
SAF	5-yea	ar smoothed value	
ESF		Fund value	
CSARF		Fund value	
Actuarial Assumptio	ons:		
Investment Return		7.50%	
Career Average Pro Salary Increases	ojected	4.70% avg. ¹	
Payroll Increase (varies by plan)		3.00% or less	
Inflation		2.50%	
Cost-of-Living Adjustments		0.0%	
1 Includes inflation at the indicated rate			

¹ Includes inflation at the indicated rate

RETIREMENT PLAN: SUMMARY ACTUARIAL DATA

TABLE 6: FUNDING PROGRESS						
Actuarial Valuation Date ¹	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) ² (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll ³ (c)	UAAL as a Percentage of Covered Payroll [(b-a)/c]
12/31/12	\$ 20,250.2	\$ 22,953.0	\$ 2,702.7	88.2%	\$ 5,283.6	51.2%
12/31/2013 ⁴	21,912.7	24,514.8	2,602.1	89.4	5,483.8	47.5
12/31/14	23,751.8	26,252.8	2,501.0	90.5	5,779.0	43.3
12/31/15	25,398.8	28,632.5	3,233.7	88.7	6,122.3	52.8
12/31/16	26,951.9	30,473.9	3,522.0	88.4	6,378.4	55.2
12/31/20174	28,975.7	32,539.9	3,564.3	89.0	6,676.5	53.4
12/31/18	30,553.9	34,541.2	3,987.3	88.5	6,921.0	57.6
12/31/19	32,789.7	36,670.2	3,880.4	89.4	7,342.6	52.8
12/31/20205	36,017.0	41,294.8	5,277.8	87.2	7,908.8	66.7
12/31/20216	38,598.2	43,612.4	5,014.2	88.5	8,109.0	61.8

¹ Each county and district participating in TCDRS is financially responsible for its own plan. Therefore, the aggregate numbers shown above reflect only the aggregate condition of TCDRS and are not indicative of the status of any one plan. The valuations above reflect changes in benefits elected by individual employers.

²The entry-age actuarial cost method is used for all plans. Each valuation above reflects the actuarial cost method, assumptions and benefits in effect as of the valuation date.

³The annual covered payroll is based on the employee deposits received by TCDRS for the year ending with the valuation date.

⁴ Revised economic and demographic assumptions due to an experience review were first used in this valuation.

⁵ Revised economic assumptions due to an experience review were first used in this valuation.

⁶ Revised demographic assumptions due to an experience review were first used in this valuation.

TABLE 7: EMPLOYER CONTRIBUTIONS

	Actuarial D Contributi	Determined ons (ADC)	Actual Cor	ntributions	
Plan Year Ended Dec. 31	Average Rate*	Dollar Amount	Average Rate*	Dollar Amount	Percentage of ADC Contributed
2011	9.89%	\$ 514.6	10.97%	\$ 570.6	109%
2012	10.32	545.2	11.05	583.9	106
2013	10.93	599.4	11.75	644.5	106
2014	11.36	656.7	11.84	684.2	103
2015	11.42	699.0	12.14	743.1	104
2016	11.20	714.2	12.10	771.7	108
2017	11.36	758.4	12.33	823.5	109
2018	11.68	808.1	12.56	869.6	108
2019	11.58	850.4	12.79	939.0	110
2020	12.14	959.8	13.08	1,034.4	108
2021	11.81	958.1	13.24	1,073.4	112

* System average weighted by payroll

RETIREMENT PLAN: SUMMARY ACTUARIAL DATA

Year Ended	New Accounts Added	Accounts Removed	Net Change in Accounts	Total Number of Accounts	Percent Change in Number of Accounts
12/31/11	3,682	883	2,799	43,635	6.9%
12/31/12	4,099	933	3,166	46,801	7.3
12/31/13	3,961	942	3,019	49,820	6.5
12/31/14	4,504	1,155	3,349	53,169	6.7
12/31/15	4,277	1,084	3,193	56,362	6.0
12/31/16	4,783	1,160	3,623	59,985	6.4
12/31/17	4,689	1,046	3,643	63,628	6.1
12/31/18	5,024	1,223	3,801	67,429	6.0
12/31/19	4,588	1,165	3,423	70,852	5.1
12/31/20	5,299	1,536	3,763	74,615	5.3
12/31/21	5,052	1,461	3,591	78,206	4.8

 * Accounts reflect the total number of members being paid by separate employers.

Year Ended	New Annual Benefits Added	Annual Benefits Removed	Net Change in Annual Benefits Amount	Annual Benefits	Percent Change in Annual Benefits	Average Annual Benefit*
12/31/11	\$ 83,906,489	\$ 8,997,023	\$ 74,909,466	\$ 747,161,028	11.14%	\$ 17,124
12/31/12	94,155,638	10,559,930	83,595,708	830,756,736	11.19	17,748
12/31/13	91,413,679	10,968,524	80,445,155	911,201,891	9.68	18,288
12/31/14	114,372,968	13,737,044	100,635,924	1,011,837,815	11.04	19,032
12/31/15	108,470,125	12,908,359	95,561,766	1,107,399,581	9.44	19,644
12/31/16	129,666,055	13,856,779	115,809,276	1,223,208,857	10.46	20,388
12/31/17	125,169,416	15,890,364	109,279,052	1,332,487,909	8.93	20,940
12/31/18	162,174,909	18,552,675	143,622,234	1,476,110,143	10.78	21,888
12/31/19	138,210,299	17,155,446	121,054,853	1,597,164,996	8.20	22,548
12/31/20	168,256,759	24,199,586	144,057,173	1,741,222,169	9.02	23,340
12/31/21	158,940,085	24,886,392	134,053,693	1,875,275,862	7.70	23,976

* The average annual benefits are based on the regular benefits paid in January following the valuation date.

TABLE 10: SOLVENCY TEST

			(\$ Millions)				
	Act	uarial Accrued Liabili					
Valuation	(1) Current Member	(2) Retirees and	(3) Current Members (Employer-	Actuarial Value of	Portion of Actuarial Accrued Liabilities Covered by Net Position		
Date	Deposits		Financed Portion)	Assets	(1)	(2)	(3)
12/31/11	\$ 5,090.7	\$ 7,202.8	\$ 9,116.0	\$ 19,016.4	100%	100%	73.7%
12/31/12	5,364.3	8,014.5	9,574.2	20,250.3	100	100	71.8
12/31/13	5,668.9	8,796.9	10,049.0	21,912.7	100	100	74.1
12/31/14	5,931.8	9,785.8	10,535.2	23,751.8	100	100	76.3
12/31/15	6,264.8	10,552.7	11,815.0	25,398.8	100	100	72.6
12/31/16	6,563.4	11,601.0	12,309.5	26,951.9	100	100	71.4
12/31/17	6,901.3	12,713.5	12,925.1	28,975.7	100	100	72.4
12/31/18	7,153.4	14,099.6	13,288.2	30,553.9	100	100	70.0
12/31/19	7,591.0	15,221.3	13,857.9	32,789.7	100	100	72.0
12/31/20	7,990.1	17,259.6	16,045.1	36,017.0	100	100	67.1
12/31/21	8,310.4	18,388.6	16,913.4	38,598.2	100	100	70.4

RETIREMENT PLAN: SUMMARY ACTUARIAL DATA

TABLE 11: CONTRIBUTION RATE INFORMATION FOR PARTICIPATING EMPLOYERS

Distribution of TCDRS Plans by Year 2023 Employer Actuarially Determined Contribution Rate

Number of Depositing	Year 2023 Employer Actuarially Determined Contribution Rate Based on the Plan of Benefits in Effect 1/1/2022						
Members as of 12/31/2021	Under 5.00%	5.00% - 6.99%	7.00% - 8.99%	9.00% - 10.99%	11.00% - 12.99%	Over 12.99%	Total
1 - 5	33	20	23	27	18	29	150
6 - 15	27	23	30	34	22	36	172
16 - 30	15	8	18	20	18	10	89
31 - 50	16	12	13	15	13	19	88
51 - 85	15	14	18	14	12	8	81
86 - 150	19	10	17	22	12	9	89
151 - 250	5	10	16	14	11	10	66
251 - 500	2	3	10	17	11	6	49
Over 500	1	1	4	6	16	18	46
Total	133	101	149	169	133	145	830

TABLE 12: PARTICIPATING EMPLOYERS AND DEPOSITING MEMBERS

	Number	Depositing Members			Percent Increase		Average
Valuation Date	of Participating Employers	Number	Annual Payroll	Average Annual Pay	in Average Annual Pay	Employer Contributions ¹	Employer Rate Paid
12/31/11	624	121,919	\$ 5,202,460,203	\$ 42,671	0.6%	\$ 570,562,898	10.97%
12/31/12	641	121,963	5,283,625,749	43,322	2.1	583,902,381	11.05
12/31/13	656	124,525	5,483,787,404	44,038	1.7	644,462,694	11.75
12/31/14	677	125,860	5,779,022,617	45,916	4.3	684,212,315	11.84
12/31/15	701	129,717	6,122,322,455	47,380	3.2	743,149,234	12.14
12/31/16	737	131,140	6,378,374,324	48,638	2.7	771,701,126	12.10
12/31/17	760	135,751	6,676,520,194	49,182	1.1	823,501,201	12.33
12/31/18	781	137,528	6,921,029,795	50,325	2.3	869,683,305	12.56
12/31/19	798	142,265	7,342,564,173	51,612	2.6	939,026,347	12.79
12/31/20	817	142,722	7,908,759,528	55,414	7.4	1,034,443,115	13.08
12/31/21	830	144,107	8,109,002,702	56,271	1.5	1,073,415,093	13.24

¹ Employer contributions include optional lump-sum contributions and elected rates.

TABLE 13: ANALYSIS OF FINANCIAL EXPERIENCE

Gains and Losses in Actuarial Accrued Liabilities During 2020–21 Resulting from Differences Between Assumed Experience and Actual Experience (\$ Millions)

	\$ Gain (or Loss) for Year		
Source of Change	2021	2020	
Age and Service Retirements	\$ 6.0	\$ 4.9	
Death In-Service Benefits	10.7	6.5	
Other Termination	70.7	(21.0)	
Pay Increases	14.3	(0.5)	
Contribution Income	34.2	(4.5)	
Investment Income	198.9	5.7	
Death After Retirement	38.0	34.1	
Other	15.4	(12.1)	
Gain (Loss) During Year from Financial Experience	388.2	13.1	
Non-Recurring Items			
Plan Changes	(46.0)	(23.4)	
Assumption and Method Changes	(54.4)	(1,603.2)	
Gain (or Loss) from Non-Recurring Items	(100.4)	(1,626.6)	
Composite Gain (or Loss) for Year	\$ 287.8	\$ (1,613.5)	
Composite Gain (or Loss) as a % of Actuarial Accrued Liabilities	0.7%	(3.9%)	

RETIREMENT PLAN: SUMMARY OF PLAN PROVISIONS

A: ORGANIZATION

TCDRS is a statewide, agent multiple-employer, public-employee retirement system that provides the employees of participating counties and districts with retirement, disability and survivor benefits. Each county and district that participates in TCDRS maintains its own customized plan of benefits which may be changed annually. The governing body of each employer has the option to adopt or change plan provisions based on their needs and budget.

Each employer has a savings-based defined benefit plan where member benefits are based on each member's account balance at retirement and employer matching. All plan assets are pooled for investment purposes, but each employer's plan assets may be used only for the payment of benefits to the members of that employer's plan. This summary describes the plan provisions in general terms. Any questions related to the actual administration, provisions or policies of the retirement plans should be directed to TCDRS.

B: MEMBERSHIP

All full- and part-time non-temporary employees become members in TCDRS, regardless of the number of hours they work in a year. Employees in a temporary position are not eligible for membership.

C: TERMINATION OF MEMBERSHIP

TCDRS membership is terminated by a member's death, retirement, or withdrawal of a member's account.

D: MEMBER DEPOSITS

TCDRS is a savings-based plan. Every paycheck, a portion of each employee's pay — from 4% to 7% as set by the employer — is deposited into his or her TCDRS account. By law, member accounts earn 7% interest annually.

E: SERVICE

Members receive a month of service for each month that they make a deposit into their account. Service may also be granted for periods of employment prior to the employer joining TCDRS, and for military and certain other service.

Within TCDRS, all periods of service with any TCDRS participating employers are combined. Also, service periods with other Texas public retirement plans participating with TCDRS in the Texas Proportionate Retirement Program are combined to satisfy TCDRS retirement eligibility and vesting requirements.

F: ELIGIBILITY REQUIREMENTS

Service Retirement Benefits

The amount of service a member needs to earn a future monthly benefit is called the vesting requirement. When a member is vested, he or she has the right to a monthly benefit at age 60 or older. Employers may choose 5-, 8- or 10-year vesting. In addition, members may retire before age 60 if they meet one of the following requirements, set by the employer:

- "Rule of" eligibility: Under these rules, vested members can retire if their age plus years of service time add up to at least 75 or 80.
- 20-year or 30-year retirement at any age: This lets members retire when they have at least 20 or 30 years of service time.

Disability Retirement Benefits

A member who is vested and who is totally and permanently disabled is eligible for an immediate disability retirement benefit. A member who is not vested is eligible for an immediate disability retirement benefit if the total and permanent disability was a result of an on-the-job injury.

Survivor Benefits

Benefits are payable to the beneficiaries or estate of a deceased member. The eligibility requirement for an employer-provided survivor benefit is four years of TCDRS service. Otherwise the survivor benefit is the deceased member's account balance.

G: DETERMINATION OF RETIREMENT BENEFITS

The service or disability retirement benefit is calculated based on the member's account balance and employer matching as selected by the employer, and may include other employer provided funds. The employer matching can range from a "dollar for dollar," up to \$2.50 per \$1.00 in the member's account. The member's account and employer provided funds are combined and converted to a lifetime annuity. The retiree receives a payment every month for the rest of his or her life. Conversions to a lifetime annuity are based on a 7% discount rate and the following mortality assumptions:

- The portion of the benefit that accrues before 2018, including member deposits made before 2018 and interest and employer matching on those deposits, shall be calculated based on the UP-1984 table with an age setback of five years for retirees and an age setback of 10 years for beneficiaries, with a 30% reserve refund assumption for the single life option.
- The portion of the benefit that accrues after 2017, including member deposits made after 2017 and interest and employer matching on those deposits, shall be calculated on a generational mortality basis using the RP-2000 Combined Mortality Table, with a one-year set-forward for males and no setforward for females, projected to 2014 using Scale AA and for projections after 2014 using 110% of MP-2014 Ultimate Projection Scale, with a 32.79% reserve refund assumption for the single life option. Mortality assumptions for these calculations are blended 50% male and 50% female for retirees, and blended 30% male and 70% female for beneficiaries.

Retirees elect to receive their monthly lifetime benefit by choosing from one of the following seven actuarially equivalent payment options:

- Single Life option Monthly payments cease upon death of the retiree. This option provides the highest monthly benefit.
- Guaranteed Term Benefit options The two guaranteed term benefit options are 10-year guaranteed term and 15-year guaranteed term. These options provide a lifetime monthly benefit to the retiree. In addition, if the retiree passes away within 10 or 15 years of the retirement date, the beneficiary will receive the monthly benefit until the end of the guaranteed term.
- Dual Life options The four dual life options are 100% to beneficiary, 75% to beneficiary, 50% to beneficiary and 100% to beneficiary with popup. Under each of these options, after the death of the retiree, the beneficiary receives a monthly lifetime benefit equal to the selected percentage of the retiree's benefit payment. Under the 100% to beneficiary with pop-up option, if the beneficiary dies before the retiree, the monthly benefit amount will "pop up" to a higher monthly amount, as if the retiree had retired under the single life option.

All options pay a death benefit equal to the excess of the person's account at retirement over the total monthly benefits that have been paid.

Each employer may allow partial lump-sum payments. This allows the retiring member to receive an immediate lump-sum payment, not to exceed his or her account balance, and choose a reduced monthly lifetime benefit from any of the payment options.

H: FUNDING PROVISIONS

Contributions are made monthly by both the employees and the employers based on covered payroll.

Each year the actuary determines the required contribution rate for the following year to adequately fund each employer's benefit plan using the actuarial methods described beginning on page 68. Employers may also elect to fund at a rate higher than the required rate, and may also make additional lumpsum contributions.

I: CHANGES IN PROVISIONS

There were no system-wide changes in plan provisions reflected in the Dec. 31, 2021 actuarial valuation.

Effective each Jan. 1 and within the parameters described previously in the summary of plan provisions, each TCDRS plan may make certain changes to their benefit levels, vesting, retirement eligibility and other plan provisions. The Dec. 31, 2021 actuarial valuation reflects plan provisions in effect for each plan as of Jan. 1, 2022.

RETIREMENT PLAN: SUMMARY ACTUARIAL VALUATION RESULTS

		Dec. 3	1, 2021	Dec. 3	1, 2020
Val	uation Results for Employer Plans				
1	Actuarial present value of future benefits				
	Annuitants	\$ 18,374,896,747		\$ 17,246,883,550	
	Members	34,258,552,109		33,845,519,339	
	Total	52,633,448,856		51,092,402,889	
2	Actuarial present value of future normal cost contributions	9,034,694,588		9,810,259,885	
3	Actuarial accrued liability [1 - 2]		43,598,754,268		41,282,143,004
4	Actuarial value of assets				
	Employees Saving Fund	8,310,440,801		7,990,121,291	
	Subdivision Accumulation Fund	30,273,625,997		28,014,029,499	
	Total		38,584,066,798		36,004,150,790
5	Total unfunded actuarial accrued liability (UAAL)	5,077,993,756		5,319,119,667	
6	Total overfunded actuarial accrued liability (OAAL)	(63,306,286)		(41,127,453)	
7	Unfunded actuarial accrued liability (UAAL), net of overfunded actuarial accrued liability (OAAL) [5 + 6]. Also equals [3 - 4].		5,014,687,470		5,277,992,214
Val	uation Results for Pooled Benefits				
8	Actuarial present value of future benefits from the Closed Subdivision Annuity Reserve Fund for annuities in effect	13,669,014		12,699,719	
9	Actuarial value of assets of the Closed Subdivision Annuity Reserve Fund	14,175,737		12,885,004	
10	Underfunded actuarial accrued liability (UAAL) [8 - 9]	l	(506,723)		(185,285
1	System-wide AAL [3 + 8]		\$ 43,612,423,282		\$ 41,294,842,723
12	System-wide actuarial value of assets [4 + 9]		38,598,242,535		36,017,035,794
13	System-wide UAAL [11 - 12]		\$ 5,014,180,747		\$ 5,277,806,929
14	System-wide Funded Ratio [12/11]		88.5%		87.2%



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May 27, 2022

Board of Trustees Texas County & District Retirement System Austin, Texas

Dear Trustees:

The Group Term Life Fund (GTLF) is an optional cost-sharing multiple-employer defined benefit plan that is administered by the Texas County & District Retirement System. It provides death benefits to active and, if elected, retired employees of participating employers. The financing objective of the GTLF is to operate as a group term insured benefit, charging each employer its premium based on current actuarial assumptions and its own demographic membership (number of active and retired members covered by GTLF). The funding of the GTLF is in accordance with Section 845.406 of the TCDRS statute. Contribution rates are established as a percentage of pay.

Milliman annually determines contribution rates for those employers that elect to participate in the GTLF for the Group Term Life Fund (GTLF). Additionally, Milliman performs GASB 75 financial reporting valuations of employers participating in the GTL who have elected both active and retiree coverage. It is our understanding that GASB 74 reporting is not required for the GTLF as it is not an Other Post-Employment Benefit (OPEB) trust, because it covers both actives and retirees.

The GTLF provides death benefits to both active and retired members. Each participating employer can elect to cover just active members, or active and retired members. The required contribution rates for funding purposes are equal to a premium rate that is individually determined for each participating employer annually and is based on the mortality and service experience of all employees and retirees covered by the fund and the demographics specific to the workforce of the participating employer. The rate is expressed as a percentage of the compensation of members employed by the participating employer. The required contributions are determined using a one-year term cost funding method.

Milliman provided the summarized information about the GTLF that TCDRS has used in preparing the following tables:

- Actuarial Section Table 15: GTLF Retirees Covered
- Actuarial Section Table 16: GTLF Retirees Coverage Amounts
- Actuarial Section Table 17: GTLF Participating Employers and Covered Members

The assumptions and methods used in the funding calculations are also summarized in the actuarial section.

Sincerely,

Matt Larrabee, FSA, EA, MAAA

Matt Larrabee, FSA, EA, MAAA Consulting Actuary

Und Celli

Nick J. Collier, ASA, EA, MAAA Consulting Actuary

GTLF: SUMMARY OF ACTUARIAL ASSUMPTIONS, METHODS AND DATA

A: ACTUARIAL ASSUMPTIONS AND METHODS

The actuarial assumptions for funding valuation purposes described below were developed from an actuarial experience investigation of TCDRS over the years 2017–2020. They were recommended by Milliman, Inc., adopted by the TCDRS Board of Trustees in 2021 and first used in the Dec. 31, 2021 actuarial valuation.

Mortality Rates

Same as for retirement plan.

Actuarial Value of Assets

All assets are valued at fund value. The fund's assets are pooled with those of the Pension Trust Fund under provisions of the TCDRS Act.

Actuarial Cost Method

For funding purposes, the term cost method is used for determining the cost of one-year term life insurance for both active employees and retirees. The one-year term cost is 80% of the rate determined by applying the mortality rate assumptions. This takes into account the size of the GTLF relative to the expected benefit payments and the statutory requirement that the GTLF be credited annually with 7% interest. The only demographic assumptions used for determining funding requirements are active employee mortality rates and retiree mortality rates.

Changes in Actuarial Assumptions and Methods

The were no changes in assumptions, but there was a change in methods reflected in the Dec. 31, 2021 actuarial valuation. Previously, the one-year term cost was 100% of the rate determined by applying the mortality assumptions. Effective with the Dec. 31, 2021 actuarial valuation the one-year term cost is 80% of the rate determined by applying the mortality assumptions.

B: PLAN PROVISIONS

Participation in the Group Term Life Plan

Employers who participate in the TCDRS retirement plan may elect to participate in the Group Term Life plan. Employers may elect to cover members who are active employees only or both members who are active employees and retirees, and may elect to change or discontinue coverage annually.

Benefit Eligibility

The county or district must have elected the applicable Group Term Life coverage for the calendar year in which a member who is an active employee or retiree dies.

Amount of Insurance Benefit

If death occurs while the member is actively employed, the benefit is an amount equal to the employee's most recent regular annualized salary. The insurance benefit payable to retirees is \$5,000.

GTLF: SUMMARY OF ACTUARIAL ASSUMPTIONS, METHODS AND DATA

TADIE 16.	CTLE -	RETIREES	COVEDEE
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Year Ended	New Retirees Added	Retirees Removed	Net Change in Retirees	Total Number of Retirees ¹	Percent Change in Number Covered
12/31/12	623	136	487	6,301	8.4%
12/31/13	618	196	422	6,723	6.7
12/31/14	676	183	493	7,216	7.3
12/31/15	639	203	436	7,652	6.0
12/31/16	797	254	543	8,195	7.1
12/31/17 ²	652	542	110	8,305	1.3
12/31/18	799	232	567	8,872	6.8
12/31/19	756	943	(187)	8,685	(2.1)
12/31/20	740	345	395	9,080	4.5
12/31/21	651	353	298	9,378	3.3

¹ A single individual may have coverage with more than one participating employer.

² An adjustment is included to combine retirees with multiple benefits paid by a single employer.

TABLE 16: GTLF - RETIREES COVERAGE AMOUNTS

Year Ended	New Annual Coverage Added	Annual Coverage Removed	Net Change in Annual Coverage Amount	Annual Coverage Amount ¹	Percent Change in Annual Coverage	Average Annual Coverage Per Retiree
12/31/12	\$ 3,115,000	\$ 680,000	\$ 2,435,000	\$ 31,505,000	8.4%	\$5,000
12/31/13	3,090,000	980,000	2,110,000	33,615,000	6.7	5,000
12/31/14	3,380,000	915,000	2,465,000	36,080,000	7.3	5,000
12/31/15	3,195,000	1,015,000	2,180,000	38,260,000	6.0	5,000
12/31/16	3,985,000	1,270,000	2,715,000	40,975,000	7.1	5,000
12/31/17 ²	3,260,000	2,710,000	550,000	41,525,000	1.3	5,000
12/31/18	3,995,000	1,160,000	2,835,000	44,360,000	6.8	5,000
12/31/19	3,780,000	4,715,000	(935,000)	43,425,000	(2.1)	5,000
12/31/20	3,700,000	1,725,000	1,975,000	45,400,000	4.5	5,000
12/31/21	3,255,000	1,765,000	1,490,000	46,890,000	3.3	5,000

¹ A single individual may have coverage with more than one participating employer.

² An adjustment is included to combine retirees with multiple benefits paid by a single employer.

TABLE 17: GTLF PARTICIPATING EMPLOYERS AND COVERED MEMBERS¹

	Number of	Covered	d Members		Percent Increase		Average
Valuation Date	Participating Employers	Number	Annual Payroll	Average Annual Pay	in Average Annual Pay	Employer Contributions	Employer Rate
12/31/12	276	32,579	\$ 1,293,840,378	\$ 39,714	1.3%	\$ 3,949,356	0.31%
12/31/13	279	33,118	1,343,369,311	40,563	2.1	4,203,456	0.31
12/31/14	289	33,394	1,419,012,335	42,493	4.8	4,510,866	0.32
12/31/15	298	34,548	1,502,084,556	43,478	2.3	4,766,129	0.32
12/31/16	312	34,800	1,561,487,281	44,870	3.2	4,962,423	0.32
12/31/17	318	35,934	1,605,566,274	44,681	(0.4)	4,467,382	0.28
12/31/18	329	36,693	1,693,759,626	46,160	3.3	4,518,735	0.27
12/31/19	336	35,975	1,702,168,008	47,315	2.5	4,357,410	0.26
12/31/20	357	36,080	1,816,641,615	50,350	6.4	4,647,511	0.26
12/31/21	365	36,562	1,872,280,412	51,208	1.7	4,778,158	0.26

¹ Includes only employers that participate in the Group Term Life program.

ACTUARIAL

READER'S NOTES

PALO DURO CANYON STATE PARK, RANDALL COUNTY

5. Statistical

LOOKING AHEAD

TCDRS is an economic engine for our Texas local communities. In 2021, we paid out \$1.9 billion in benefits and 96% of that money went to Texas residents. This money creates economic activity and jobs.

INTRODUCTION

The Statistical Section provides additional detail to assist you in interpreting the information in the Financial Statements, Notes to Financial Statements and Required Supplementary Information. The information is presented in two main categories: Financial Trends Data and Demographic and Operating Information.

The Financial Trends Data illustrates how TCDRS' financial position has changed over time. The changes in net position for the last 10 fiscal years show additions by source, deductions by type and the total change in Pension Trust Fund and Group Term Life Fund (GTLF) net position for each year. The pension benefit expenses by type gives data on benefits paid and withdrawal deductions for the last 10 fiscal years.

The Demographic and Operating Information provides details about TCDRS' operations and membership. The schedule of New Retiree Average Benefits gives the average monthly benefit and number of retired members, organized by five-year increments of credited service, for the last 10 fiscal years. Data is given for both pension benefits and for GTLF benefit payments. This section also includes information on the number of annuitants grouped by age and by type of benefits, along with a description of the retirement payment options. The schedule of largest participating employers compares the number of current members for those employers for the most recent year end and as of nine years ago.

		TABLE	1: CHANGES IN	N NET POSITIO	E 1: CHANGES IN NET POSITION, LAST TEN FISCAL YEARS	SCAL YEARS				
Pension Trust Fund	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Additions										
Employee Deposits	\$ 353,349,948	\$ 367,313,130	\$ 383,186,524	\$ 414,806,917	\$ 432,765,143	\$ 453,435,928	\$ 469,786,710	\$ 498,343,448	\$ 536,458,089	\$ 550,152,286
Employer Contributions	583,902,381	644,462,694	684,212,315	743,149,234	771,701,126	823,501,201	869,683,305	939,026,347	1,034,443,116	1,073,415,093
Total Net Investment Income (Loss)	2,212,163,773	3,239,794,960	1,568,660,707	(172,638,528)	1,816,576,383	3,837,061,315	(558,892,357)	4,807,071,981	3,496,597,429	8,117,364,773
Other Additions	1,465,105	1,524,722	1,588,730	2,475,483	1,858,748	1,957,900	1,871,879	1,976,896	1,818,132	1,765,526
- Total Additions	3,150,881,207	4,253,095,506	2,637,648,276	987,793,106	3,022,901,400	5,115,956,344	782,449,537	6,246,418,672	5,069,316,766	9,742,697,678
Deductions										
Benefits Paid:										
Service Retirements	774,927,826	864,546,467	948,890,194	1,053,112,636	1,149,053,001	1,276,444,848	1,392,219,836	1,534,633,593	1,661,524,380	1,810,701,446
Disability Retirements	15,112,328	15,400,094	15,566,244	15,996,931	16,069,755	16,363,172	16,499,057	16,523,966	16,512,662	16,389,004
- Total Benefits Allowances	790,040,154	879,946,561	964,456,438	1,069,109,567	1,165,122,756	1,292,808,020	1,408,718,893	1,551,157,559	1,678,037,042	1,827,090,450
Withdrawals:										
Separation	80,628,521	89,227,565	81,243,255	80,373,804	74,737,725	84,208,957	84,596,757	90,484,037	83,338,482	100,550,641
Death / Ineligible	1,321,511	1,791,138	959,497	1,685,020	1,845,188	1,446,916	1,056,035	1,300,467	1,425,161	1,970,027
Total Withdrawals	81,950,032	91,018,703	82,202,752	82,058,823	76,582,913	85,655,873	85,652,792	91,784,504	84,763,643	102,520,668
Administrative and Building Operations Expenses	s 18,116,762	19,816,891	20,048,081	20,215,681	21,592,272	21,909,103	25,374,075	27,759,303	28,970,834	26,052,711
Interest Allocation to Group Term Life Fund	1,524,820	1,625,589	1,738,911	1,889,834	2,132,226	2,359,682	2,527,808	2,715,200	2,856,996	2,892,692
Payments to Terminating Employers	Ι	46,835	I	Ι	Ι	2,186	92	37,835	838	63,568
Total Deductions	891,631,768	992,454,579	1,068,446,182	1,173,273,905	1,265,430,167	1,402,734,864	1,522,273,660	1,673,454,401	1,794,629,353	1,958,620,089
- Change in Net Position	\$ 2,259,249,439	\$3,260,640,927	\$1,569,202,094	\$ (185,480,799)	(185,480,799) \$ 1,757,471,233	\$ 3,713,221,480	\$ (739,824,123)	(739,824,123) \$ 4,572,964,271	\$ 3,274,687,413	\$ 7,784,077,589
Group Term Life Fund										
Additions										
Employer Premiums	\$ 3,949,356	\$ 4,203,456	\$ 4,510,866	\$ 4,766,129	\$ 4,962,423	\$ 4,467,382	\$ 4,518,735	\$ 4,357,410	\$ 4,647,511	\$ 4,778,158
Income Allocation from Pension Trust Fund	1,524,820	1,625,589	1,738,911	1,889,834	2,132,226	2,359,682	2,527,808	2,715,200	2,856,996	2,892,692

FINANCIAL TRENDS DATA

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3,251,371

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Change in Net Position

6,279,423 1,225,084

4,453,463 2,619,147

4,345,197 **4,345,197**

> 3,123,197 3,971,452

3,404,592

4,637,239 1,612,538

3,123,197

3,404,592

4,637,239

4,318,663 4,318,663 1,510,382

3,878,859 3,878,859 1,595,317

Insurance Benefits Total Deductions

6,699,149 6,699,149

6,279,423

4,453,463

4,398,477 4,398,477 2,648,066

7,670,850

7,504,507

7,072,610

7,046,543

6,827,064

7,094,649

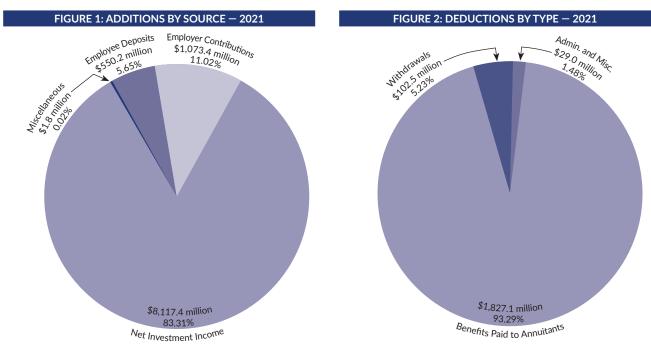
6,655,963

6,249,777

5,829,045

5,474,176

Total Additions Deductions



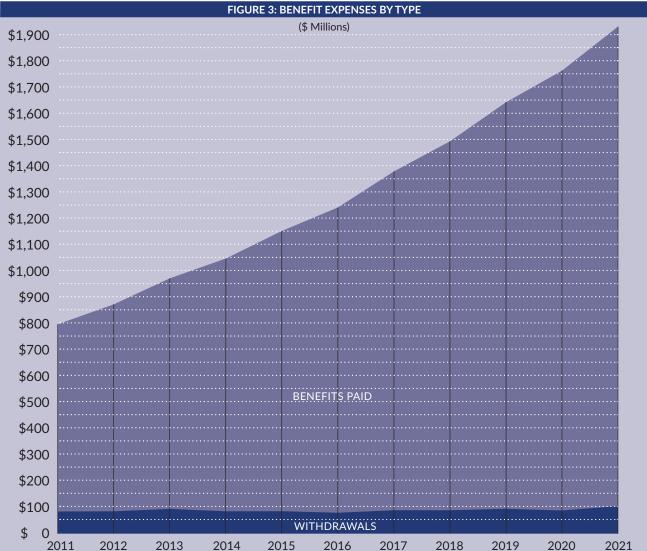


TABLE 2: BENEFIT AT RETIREMENT FOR RECENT RETIREES

This schedule reports the number and average monthly benefit at retirement for recent retirees grouped by years of credited service and year of retirement.

	Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
2012							
Average Monthly Benefit Number of Annuitants	\$ 253 484	\$ 649 687	\$ 1,125 717	\$ 1,626 590	\$ 2,250 700	\$ 3,220 508	\$ 4,841 411
2013							
Average Monthly Benefit Number of Annuitants	\$ 235 449	\$ 668 671	\$ 1,210 684	\$ 1,648 575	\$ 2,247 642	\$ 3,396 462	\$ 4,735 415
2014							
Average Monthly Benefit Number of Annuitants	\$ 253 459	\$ 708 782	\$ 1,228 761	\$ 1,707 677	\$ 2,423 745	\$ 3,691 599	\$ 5,002 512
2015							
Average Monthly Benefit Number of Annuitants	\$ 289 450	\$ 756 733	\$ 1,239 741	\$ 1,841 626	\$ 2,518 674	\$ 3,462 495	\$ 5,390 492
2016							
Average Monthly Benefit Number of Annuitants	\$ 254 483	\$ 765 786	\$ 1,301 891	\$ 1,875 722	\$ 2,590 735	\$ 3,792 608	\$ 5,420 593
2017							
Average Monthly Benefit Number of Annuitants	\$ 321 480	\$ 854 744	\$ 1,322 833	\$ 1,971 658	\$ 2,756 700	\$ 4,043 583	\$ 5,805 503
2018							
Average Monthly Benefit Number of Annuitants	\$ 300 582	\$ 963 743	\$ 1,381 959	\$ 2,174 817	\$ 2,973 710	\$ 4,208 688	\$ 6,507 663
2019							
Average Monthly Benefit Number of Annuitants	\$ 324 504	\$ 908 738	\$ 1,432 871	\$ 2,168 704	\$ 2,913 671	\$ 4,219 609	\$ 6,130 505
2020							
Average Monthly Benefit Number of Annuitants	\$ 338 608	\$ 910 852	\$ 1,453 985	\$ 2,167 823	\$ 2,857 825	\$ 4,255 688	\$ 6,469 701
2021							
Average Monthly Benefit Number of Annuitants	\$ 329 566	\$ 887 881	\$ 1,494 885	\$ 2,211 790	\$ 2,984 837	\$ 4,329 551	\$ 6,430 633

Note: TCDRS is an account-based plan similar to a cash balance plan, and final average salary data is not used to determine benefits, therefore final average salary data is not presented.

TABLE 3: AVERAGE BENEFITS	
This schedule reports the average benefi	t

for retirees and for all retirees and beneficiaries.¹

	Retire	es Only	All Payees	
As of Dec. 31,	Monthly	Annually	Monthly	Annually
2012	\$ 1,581	\$ 18,972	\$ 1,479	\$ 17,748
2013	1,629	19,548	1,524	18,288
2014	1,693	20,316	1,586	19,032
2015	1,752	21,024	1,637	19,644
2016	1,817	21,804	1,699	20,388
2017	1,897	22,764	1,745	20,940
2018	1,981	23,772	1,824	21,888
2019	2,039	24,468	1,879	22,548
2020	2,111	25,332	1,945	23,340
2021	2,169	26,028	1,998	23,976

¹ In cases of retirees with multiple accounts from a single employer, the accounts are	
considered as a single benefit. Benefits from multiple employers to a single retiree are	
calculated as multiple benefits.	

TABLE 4: AVERAGE BENEFIT PROFILE BY EMPLOYER TYPE							
	As of Dec. 31, 2021						
	Retire	es Only	All Pa	ayees			
	Monthly	Annually	Monthly	Annually			
Counties	\$ 2,208	\$ 26,496	\$ 2,029	\$ 24,348			
Districts	1,877	22,524	1,756	21,072			

DEMOGRAPHIC AND OPERATING INFORMATION

TABLE 5: ANNUITANTS BY TYPE OF BENEFIT											
			Annuitants			Retirement Option Selected					
Amount of Monthly Benefit	Retif	ee Bere	hcian' sing	elite 100°	oto Beneficiar	o Beneficiary	to Beneficial 50%	b Beneficiary	to Beneficiary	ear Guarantee	ear Cuarantee Cuarant
\$0-499	10,109	4,643	5,921	2,779	1,838	359	1,279	154	1,602	739	81
500 - 999	12,120	3,361	6,240	2,899	2,198	477	1,472	50	1,264	784	97
1,000 - 1,499	9,806	1,843	4,444	2,046	1,847	459	1,310	52	849	569	73
1,500 - 1,999	7,434	1,022	3,281	1,364	1,276	456	1,035	32	511	446	55
2,000 - 2,499	5,807	681	2,503	1,079	997	299	915	12	349	312	22
2,500 - 2,999	4,331	418	1,838	790	771	226	658	7	262	177	20
3,000 - 3,499	3,421	319	1,419	601	569	216	568	7	188	157	15
3,500 - 3,999	2,626	187	1,131	435	411	139	400	3	148	134	12
4,000 - 4,499	2,097	134	856	385	323	138	319	2	95	109	4
4,500 - 4,999	1,535	71	637	242	233	98	261	2	69	60	4
5,000 - 5,499	1,365	64	525	243	186	99	245	2	58	69	2
5,500 - 5,999	989	39	384	180	145	83	159	0	37	40	0
6,000 - 6,499	845	21	330	144	124	70	142	1	25	30	0
6,500 - 6,999	583	26	233	99	67	54	97	0	27	32	0
7,000 & Over	2,228	81	797	411	270	202	433	2	103	91	0
Subtotals	65,296	12,910	30,539	13,697	11,255	3,375	9,293	326	5,587	3,749	385
Totals	78,	206		78,206							

¹ Includes Alternate Payees of Retirees.

² Retirement payment option is no longer available to new retirees.

RETIREMENT BENEFIT PAYMENT OPTIONS

All options pay the retiree a monthly benefit for life and, when a retiree passes away, guarantee that the total benefit paid will equal, at a minimum, the total accumulated contributions of the retiree.

Single Life

Payments cease upon the death of the retiree.

15-year Guaranteed Term

If the retiree dies within 15 years of retirement, the beneficiary will receive the same monthly payment as the retiree for the balance of the 15-year period, at which time payments cease.

10-year Guaranteed Term

If the retiree dies within 10 years of retirement, the beneficiary will receive the same monthly payment as the retiree for the balance of the 10-year period, at which time payments cease.

50% to Beneficiary

At the death of the retiree, the beneficiary will receive 50% of the retiree's monthly payment throughout the beneficiary's life.

75% to Beneficiary

At the death of the retiree, the beneficiary will receive 75% of the retiree's monthly payment throughout the beneficiary's life.

100% to Beneficiary

At the death of the retiree, the beneficiary will receive 100% of the monthly amount paid to the retiree throughout the beneficiary's life.

100% to Beneficiary with Pop-up

If the beneficiary survives the retiree, monthly payments equal to 100% of the monthly amount paid to the retiree continue to the beneficiary for life. If the retiree outlives the beneficiary, the monthly payment amount will increase (pop up) after the beneficiary's death to the higher amount of the Single Life option.

DEMOGRAPHIC AND OPERATING INFORMATION

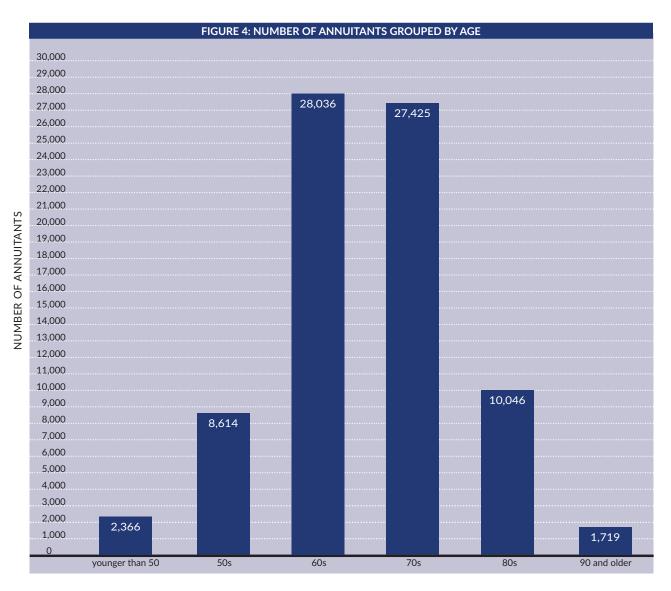


TABLE 6: LARGEST PARTICIPATING EMPLOYERS – CURRENT YEAR AND NINE YEARS AGO

		2021			2012	
Employer	Number of Current Employee Accounts	Rank	% of Total System	Number of Current Employee Accounts	Rank	% of Total System
Harris County	19,921	1	13.8%	14,695	1	12.0%
Dallas County	6,669	2	4.6%	6,789	2	5.6%
Travis County	5,129	3	3.6%	5,063	3	4.2%
Bexar County	5,119	4	3.6%	4,861	4	4.0%
Tarrant County	4,593	5	3.2%	4,370	5	3.6%
Hidalgo County	3,265	6	2.3%	2,973	6	2.4%
El Paso Co. Hospital District	3,150	7	2.2%	2,388	9	2.0%
Fort Bend County	3,082	8	2.1%	2,444	8	2.0%
El Paso County	2,938	9	2.0%	2,880	7	2.4%
Montgomery County	2,572	10	1.8%	2,083	10	1.7%
All others	87,669		60.8%	73,417		60.2%
Totals	144,107		100.0%	121,963		100.0%

2021 Annual Comprehensive Financial Report

DEMOGRAPHIC AND OPERATING INFORMATION

TABLE 7: GROUP TERM LIFE FUND -AVERAGE BENEFITS PAID

This schedule reports the number of GTLF insurance payments and the average benefits paid.

	Active	Retirees
2012		
Average benefit payment	\$35,890	\$5,000
Number of payments	83	180
2013		
Average benefit payment	\$38,659	\$5,000
Number of payments	83	222
2014		
Average benefit payment	\$41,205	\$5,000
Number of payments	89	194
2015		4
Average benefit payment	\$36,819	\$5,000
Number of payments	63	217
2016		\$5000
Average benefit payment	\$38,763 54	\$5,000 206
Number of payments	54	206
2017		¢5.000
Average benefit payment Number of payments	\$41,175 81	\$5,000 202
	01	202
2018 Average benefit payment	\$43,446	\$5,000
Average benefit payment Number of payments	ş43,448 75	\$3,000 228
	, 5	220
2019 Average benefit payment	\$47,719	\$5,000
Number of payments	φ + 7,717 69	233
2020		
Average benefit payment	\$49,441	\$5,000
Number of payments	φ ₊ ν,++1 95	\$3,000 317
2021		/
Average benefit payment	\$44,137	\$5,000
Number of payments	112	351
· · · · · · · · · · · · · · · · · · ·		

ACTUARIAL ACCRUED LIABILITY

The portion, as determined by the actuarial cost method, of the Actuarial Present Value of pension plan benefits and expenses that is not provided for by future Normal Costs.

ACTUARIAL ASSUMPTIONS

In order to estimate the cost of funding benefits, the actuaries use long-term assumptions. Examples include mortality, termination, disablement and retirement; changes in salary; payroll growth; investment returns and other relevant items. Actuarial assumptions are adopted by the board of trustees upon recommendation of the consulting actuaries. The assumptions are reviewed every four years.

ACTUARIAL GAIN (LOSS)

The difference between actual results and what was projected to happen based on Actuarial Assumptions during the period between annual Actuarial Valuations.

ACTUARIAL PRESENT VALUE

The calculated value of a series of projected cash flows expressed in present day dollars as of the valuation date using actuarial assumptions.

ACTUARIAL VALUATION

The process to calculate the employer contribution rate. This process determines the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets and Actuarial Present Values.

ACTUARIAL VALUE OF ASSETS

The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an Actuarial Valuation.

ACTUARIALLY EQUIVALENT PAYMENT OPTIONS

Different benefit payment options that pay different amounts per month, but are of equal value at the time the option is selected.

ALERIAN MLP INDEX

This index is a benchmark for energy infrastructure Master Limited Partnerships that includes MLPs which earn the majority of their cash flow from midstream activities. The index is calculated using a capped, float-adjusted, capitalization-weighted methodology.

BENCHMARK PORTFOLIOS

Portfolios represented by specific indices that are created for the purpose of measuring the relative performance of investment managers, asset classes and, in the case of the Policy Benchmark Portfolio, the entire TCDRS portfolio. Data regarding performance of these benchmark portfolios during any period indicate the returns that were available during the period for comparable investments that were passively managed. Comparisons indicate the value added by each manager, if any, in excess of the performance that was experienced by the specific benchmark index.

BLOOMBERG U.S. AGGREGATE BOND INDEX

This index incorporates all domestic debt issues with maturities greater than one year and in amounts greater than \$1 million. Included are publicly issued, nonconvertible, domestic debt issues of the U.S. government and its agencies and corporations in industrial, utility or financial segments.

BLOOMBERG U.S. 10-YEAR BREAKEVEN INFLATION INDEX

This index is designed to provide access to 10-year breakeven inflation by capturing the returns of a simultaneous long position in 10-year inflation linked securities and a short position in suitable nominal comparator U.S. Treasury bonds.

BLOOMBERG COMMODITIES INDEX

This index is composed of futures contracts on physical commodities. It provides broad-based exposure to commodities, with no single commodity or sector dominating the index. The liquidity and diversity of the benchmark make it suitable for institutional investment.

CAMBRIDGE ASSOCIATES DISTRESSED SECURITIES INDEX

A custom benchmark index provided by Cambridge Associates based on data compiled from more than 325 distressed debt funds, including fully liquidated partnerships with first cash flows beginning in 2005. The benchmark return is net of fees, expenses and carried interest.

CAMBRIDGE ASSOCIATES GLOBAL PRIVATE EQUITY & VENTURE CAPITAL INDEX

A custom benchmark index provided by Cambridge Associates based on data compiled from approximately 3,393 global private equity and venture

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capital funds, including fully liquidated partnerships, with first cash flows beginning 2006. The benchmark return is net of fees, expenses and carried interest.

CAMBRIDGE ASSOCIATES REAL ESTATE INDEX

A custom benchmark index provided by Cambridge Associates based on data compiled from approximately 745 global private real estate funds, including fully liquidated partnerships with first cash flows beginning 2007. The benchmark return is net of fees, expenses and carried interest.

COMMODITIES

Investment in resources that can be perishable (grains, sugar, etc.) and non-perishable (metals, energy, etc.). Commodities provide protection against inflation and have low correlation to stocks and other asset classes.

DIRECT LENDING

Privately originated debt made to small to mediumsized companies or to real estate investors in order to take advantage of disruptions in the banking system.

DISTRESSED DEBT

Distressed debt investments are investments in partnerships that purchase the debt of companies experiencing financial distress ranging from deteriorating financial conditions to bankruptcy. Strategies employed include trading, participating in restructuring transactions and controlling bankruptcy proceedings.

DOW JONES U.S. TOTAL STOCK MARKET INDEX

This index is one of the broadest measures of domestic equity performance since it is computed based upon all equity trades of U.S. stocks during any day. Each company included within the index is not equally weighted within the index, but rather is weighted according to its market value among the market values of all U.S. companies.

EMPLOYER REQUIRED CONTRIBUTION RATE

The percentage of payroll the employer is required to contribute to fund future benefits for their current employees, former employees and retirees. It is the sum of the Normal Cost Contribution Rate and the Unfunded Actuarial Accrued Liability Contribution Rate.

ENTRY-AGE ACTUARIAL COST METHOD

An actuarial cost method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost. The portion of this Actuarial Present Value not provided for at a Valuation Date by the Actuarial Present Value of future Normal Costs is called the Actuarial Accrued Liability.

FOREIGN CURRENCY FORWARD CONTRACTS

Forward contracts are over-the-counter agreements between two parties to buy and sell a currency at a set price on a future date. The contracts are markedto-market on each valuation date with any resulting unrealized appreciation or depreciation recorded on such date. Realized gains or losses equal to the value of the contract when it was opened and the settlement amount at the time the contract is closed (or rolled) are recorded upon receipt of the currency.

FTSE HIGH-YIELD CASH-PAY CAPPED INDEX

This index includes cash-pay bonds with a belowinvestment-grade rating by both Moody's Investor Services and Standard & Poor's. The bonds must have a maturity of at least one year and a minimum amount outstanding of \$100 million. The par value of individual issuers is capped at \$5 billion par outstanding.

FTSE NAREIT ALL EQUITY REIT INDEX

This index gives a broad exposure to U.S. publicly traded equity REITs in every property sector.

FTSE NAREIT EQUITY REITS INDEX

This index contains all Equity REITs across the U.S. economy not designated as Timber REITs or Infrastructure REITs.

GLOBAL EQUITY

Investments in stocks included in all public markets, both domestic and international.

HEDGE FUND RESEARCH INSTITUTE (HFRI) FUND OF FUNDS COMPOSITE INDEX

This index consists of funds that each manage a group of diverse hedge funds. Each fund of funds has at least \$50 million under management or has been actively trading for at least twelve months. The index includes both domestic and offshore funds that offer diverse strategies. All constituent funds report returns net of fees on a monthly basis.

HEDGE FUNDS

An investment strategy applied to a variety of different investments to help manage risk within the entire portfolio. Over a full market cycle, hedge funds produce risk-adjusted returns to help mitigate losses during market downturns.

HIGH-YIELD BONDS

Domestic fixed-income securities that have not been highly rated by national rating agencies, such as Moody's Investors Service (Moody's) or Standard & Poor's (S&P). A security is considered a high-yield bond if it is rated below Baa3 by Moody's or below BBB- by S&P. To pay for the risk, the interest rates earned are higher than investment-grade bonds.

INVESTMENT-GRADE BONDS

The investment-grade bonds portfolio consists of debt securities issued by the U.S. Treasury or an agency or government-sponsored entity (GSE) of the United States (U.S. government); mortgage-related instruments, U.S. dollar-denominated fixed-income securities issued by U.S. and foreign corporations; and U.S. dollar-denominated debt issued by foreign governments and supranationals. Additionally, these portfolios may contain minimal investments in short-term instruments, non-rated securities, private placement securities, convertible bonds and preferred stock. The portfolio should exhibit an overall dollar-weighted average quality rating of AA.

MASTER LIMITED PARTNERSHIPS (MLPS)

Publicly traded partnership interests created by Congress to encourage investment in domestic energy infrastructure. At the entity level, these interests are tax free provided that 90% of their income comes from natural resources such as oil, natural gas, coal, timber and other depletable resources.

MSCI EAFE INDEX (EUROPE, AUSTRALASIA, FAR EAST)

This index, prepared by Morgan Stanley Capital International (MSCI), is designed to measure developed market large and mid-cap equity performance excluding the United States and Canada.

MSCI EMERGING MARKETS (EM) INDEX

This index, prepared by Morgan Stanley Capital International (MSCI), captures large and mid-cap equity performance across 26 emerging market countries with more than 1,400 constituents.

MSCI WORLD EX U.S.

This index, prepared by Morgan Stanley Capital International (MSCI), is designed to measure developed market equity performance excluding the United States.

MSCI WORLD INDEX (NET)

This index, prepared by Morgan Stanley Capital International (MSCI), is a broad global equity index that represents large and mid-cap equity performance across developed markets countries.

NORMAL COST

The portion of the Actuarial Present Value of pension plan benefits and expenses that is allocated to a valuation year by the actuarial cost method.

NORMAL COST CONTRIBUTION RATE

This is the rate required to fund current employees' benefits over their projected careers. It is equal to the Actuarial Present Value at hire of Projected Benefits divided by the Actuarial Present Value at hire of anticipated future compensation. It is calculated for each contributing member and the average is weighted by compensation.

OPPORTUNISTIC CREDIT

Comprises investments primarily in debt instruments that provide return opportunities resulting from dislocations in capital markets.

OVERFUNDED ACTUARIAL ACCRUED LIABILITY (OAAL)

The excess, if any, of the Actuarial Value of Assets over the Actuarial Accrued Liability.

PLAN YEAR

The period from Jan. 1 to Dec. 31 inclusive.

PRIOR SERVICE

Benefits attributable to an amount provided by the employer for service rendered by an employee prior to employer participation in TCDRS.

PRIVATE EQUITY

Private partnerships that (a) take public companies private in order to improve their operations and resell them in the future; (b) invest in start-up companies with new ideas or technologies; and (c) invest in both traditional and renewable energy discovery and production.

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PRIVATE REAL ESTATE

Non-publicly traded vehicles that invest in a broad array of real estate properties and ventures. Private real estate investments are expected to be very illiquid and long term in nature. The vehicles for private real estate investments are typically partnerships, but may also include other entities such as limited liability companies or offshore corporations.

PROJECTED BENEFITS

Retirement benefit amounts that are estimated to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such factors as the effect of advancement in age, and past and anticipated future compensation and service time.

REITS

Real estate investment trusts are companies that own and operate income-producing real estate, such as commercial office buildings, apartments, malls, warehouses and storage facilities. Under provisions of the U.S. tax law, if REITs pay out most of their income, they do not pay income taxes. This means higher income earnings along with any increase in the value of the real estate.

S&P GLOBAL REIT INDEX (NET)

This index serves as a comprehensive benchmark of publicly traded equity REITs listed in both developed and emerging markets.

S&P/LSTA LEVERAGED LOAN TOTAL RETURN INDEX

This index is a market value-weighted index designed to measure the performance of the U.S. leveraged loan market based upon market weights, spreads and interest payments.

STRATEGIC CREDIT

Portfolio comprised of high-yield bond and opportunistic credit portfolios.

TIPS

Treasury Inflation-Protected Securities are bonds issued by the U.S. Treasury just like other U.S. government bonds. However, the principal amount of TIPS increases with the rate of inflation so that inflation does not decrease the value of the bond. They provide a way to protect against inflation.

UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

The excess, if any, of the Actuarial Accrued Liability over the Actuarial Value of Assets.

UNFUNDED ACTUARIAL ACCRUED LIABILITY CONTRIBUTION RATE

The amount needed to amortize the Unfunded Actuarial Accrued Liability over a closed period of 20 years or less, expressed as a percent of payroll. If the plan has an Overfunded Actuarial Accrued Liability, it is amortized over an open period of 30 years, and the resulting negative Unfunded Actuarial Accrued Liability Contribution Rate is offset against the Normal Cost Contribution Rate.

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