Illinois Public Retirement Systems June 2022

Chicago Transit Authority Retirement Fund Cook County Employees' Pension Fund Cook County Forest Preserve Employees' Pension Fund Firemen's Annuity and Benefit Fund of Chicago Illinois Municipal Retirement Fund Laborers' Annuity and Benefit Fund of Chicago Metropolitan Water Reclamation District Retirement Fund Municipal Employees' Annuity and Benefit Fund of Chicago Park Employees' Annuity and Benefit Fund of Chicago Policemen's Annuity and Benefit Fund of Chicago

Commission on Government Forecasting and Accountability

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June 2022

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Executive Summary

This report examines the financial status of various public employee retirement systems in Chicago and Cook County, along with the Illinois Municipal Retirement Fund, as of Fiscal Year (FY) 2020. The fiscal year ends December 31 for all systems, except for two systems, the Chicago Transit Authority Pension Fund and Public School Teachers' Pension and Retirement Fund of Chicago. The Chicago Transit Authority Pension Fund ends its fiscal year on January 1, and the Public School Teachers' Pension and Retirement Fund of Chicago ends its fiscal year on June 30. The following is a summary of the findings:

- The Chicago Transit Authority Retirement Fund covers all employees of the Chicago Transit Authority. At the end of FY 2020 (January 1, 2021) there were 8,078 active employees and 8,108 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$1.955 billion and Total Actuarial Liabilities were \$3.671 billion.
- The Cook County Employees' Pension Fund covers all persons employed and paid by the County. At the end of 2020 there were 19,102 active employees and 16,572 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$11.766 billion and Total Actuarial Liabilities were \$18.421 billion.
- The Cook County Forest Preserve Employees' Retirement Fund covers all persons employed and paid by the Forest Preserve. At the end of 2020 there were 521 active employees and 391 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$209.7 million and Total Actuarial Liabilities were \$355.1 million.
- The Firemen's Annuity and Benefit Fund of Chicago covers anyone employed by the City of Chicago in its fire services whose duty it is to in any way participate in the work of controlling and extinguishing fires. At the end of 2020 there were 4,697 active employees and 3,632 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$1.276 billion and Total Actuarial Liabilities were \$6.571 billion.
- The Illinois Municipal Retirement Fund covers employees hired by the following units of government: (1) All counties except Cook and (for non-teachers) all school districts except Chicago, (2) Other units of government with general taxing powers, such as cities, villages, townships and special districts, (3) Units of government without general taxing powers, associations or cooperatives authorized to participate by State statute. At the end of 2020 there were 170,735 active employees and 127,665 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$46.017 billion and Total Actuarial Liabilities were \$48.923 billion.

- The Laborers' Annuity and Benefit Fund of Chicago (LABF) covers persons employed by the City of Chicago in a position classified as labor service by the employer, persons employed by the Board of Education under the labor service classification, or anyone employed by a retirement board of any other annuity and benefit fund in the city. At the end of 2020 there were 2,564 active employees and 2,592 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$1.175 billion and Total Actuarial Liabilities were \$2.735 billion.
- The Metropolitan Water Reclamation District Retirement Fund covers any person employed by the District whose duties include service during a calendar year for a minimum of 120 days. At the end of 2020 there were 1,769 active employees and 1,917 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$1.556 billion and Total Actuarial Liabilities were \$2.714 billion.
- The Municipal Employees' Annuity and Benefit Fund of Chicago covers persons appointed under civil service rules who are employed by the City of Chicago and Board of Education of Chicago (except teachers), temporary and non-career service employees, aldermen and other officials of the City and the Board that make written application. At the end of 2020 there were 31,327 active employees and 21,386 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$3.977 billion and Total Actuarial Liabilities were \$17.847 billion.
- The Park Employees' Annuity and Benefit Fund of Chicago covers all persons employed by the Chicago Park District. At the end of 2020 there were 2,890 active employees and 2,116 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$342.1 million and Total Actuarial Liabilities were \$1.190 billion.
- The Policemen's Annuity and Benefit Fund of Chicago covers any employee in the Police Department of the City of Chicago sworn and designated by law as a police officer. At the end of 2020 there were 12,715 active employees and 10,283 employee annuitants. Total Actuarial Assets of the system at the end of that year were \$3.400 billion and Total Actuarial Liabilities were \$14.703 billion.
- The Public School Teachers' Pension and Retirement Fund of Chicago covers certified teachers and employees of the Chicago public schools. At the end of FY 2020 (June 30, 2020) there were 30,091 active employees and 24,293 employee annuitants. Total Actuarial Assets of the system on that date were \$11.240 billion and Total Actuarial Liabilities were \$24.073 billion.
- For most of the retirement systems, this report contains multi-year funding projections performed by the systems' actuaries. Unless otherwise noted, all long-term funding projections are based upon the retirement systems' Fiscal Year or Calendar Year 2020 actuarial valuation. The statutory funding requirements differ for each system and are

outlined at the beginning of each system's chapter under the heading "Required Employer Contributions". In cases where a recent legislative enactment has changed a particular system's funding requirement, the Public Act number is displayed in the tables showing multi-year funding projections.

• The table below shows a summary of the financial condition of the Chicago Retirement Systems. Based upon the actuarial value of assets, the total unfunded liabilities for the city of Chicago's retirement systems are \$48.583 billion. Please note that this amount does not include IMRF, Cook County Employees' Pension Fund, or Cook County Forest Preserve Pension Fund.

Summary of Financial Condition Chicago Retirement Systems Combined (Excludes IMRF and Cook County Funds) FY 2020 (\$ in Millions)								
(\$ in Millions)SystemAnnual PayrollActuarial LiabilitiesActuarial AssetsUnfunc LiabilitiesChicago Transit Authority650.03,670.71,955.31,71Firemen's Annuity & Benefit Fund500.46,570.51,275.95,29Laborers' Annuity and Benefit Fund207.22,735.51,175.41,56Metropolitan Water Fund188.12,714.21,556.11,15								
Chicago Transit Authority	650.0	3,670.7	1,955.3	1,715.4	53.3%			
Firemen's Annuity & Benefit Fund	500.4	6,570.5	1,275.9	5,294.6	19.4%			
Laborers' Annuity and Benefit Fund	207.2	2,735.5	1,175.4	1,560.0	43.0%			
Metropolitan Water Fund	188.1	2,714.2	1,556.1	1,158.1	57.3%			
Municipal Employees' Annuity and Benefit Fund	1,861.9	17,847.2	3,977.0	13,870.2	22.3%			
Park Employees' Annuity and Benefit Fund	138.9	1,190.4	342.1	848.2	28.7%			
Policemen's Annuity and Benefit Fund	1,196.0	14,703.1	3,400.0	11,303.1	23.1%			
Public School Teachers' Pension Fund	2,249.5	24,073.5	11,240.2	12,833.3	46.7%			
FOTAL	6,992.0	73,505.0	24,922.0	48,583.0	33.9%			

I. Recent Pension Legislation



Public Act 96-0889 (Creation of Tier II) Senate Bill 1946 – Cullerton (Madigan)

I. Overview of Key Provisions of Public Act 96-0889 (SB 1946)

Effective Date

• January 1, 2011

Systems Impacted

• IMRF, Chicago Municipal, Cook County, Cook County Forest Preserve, Chicago Laborers, Chicago Park District, Metropolitan Water, SERS, SURS, TRS, Chicago Teachers (Judges and GA separate; CTA, Police, and Fire excluded)

Retirement Eligibility – Except State Policemen, Firefighters, and Correctional Guards

- Normal Retirement: 67 years old with 10 years of service
- Early Retirement: 62 years old with 10 years of service with a 6% per year reduction in benefits for each year under age 67
- Annuity based on highest 8 years out of last 10 years of service
- Annual Final Average Salary may not exceed \$106,800, as automatically increased by the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year.

Retirement Eligibility – State Policemen, Firefighters, and Correctional Guards

- Normal Retirement: 60 years old with 20 years of service
- State Policemen, Firefighters, DOC Guards are still eligible for Alternative Formula

Annual Increases in Annuity

- Increases begin at the latter of the first anniversary of retirement or at age 67
- Increases equal to the lesser of 3% or one-half the annual increase in the CPI-U during the preceding 12-month calendar year; if increase in CPI is zero or if there is a decrease in CPI, then no COLA is payable
- Increase not compounded

Survivor Benefits

- 66.7% of the earned retirement benefit at death
- Increased by the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year
- Increases not compounded

"Double Dipping" Prohibited

• Prohibition on simultaneously collecting a pension and a salary with public employer

Chicago Teachers' Extension of Funding Plan

- Contributions specified in Fiscal Years 2011 2016
- New Goal: CTPF must reach 90% by 2059

Retirement Eligibility – Judges and General Assembly

- Normal Retirement: 67 years old with 8 years of service
- Early Retirement: 62 years old with 8 years of service

Change in Benefit Formula – Judges and General Assembly

- 3% of Final Average Salary for each year of service
- Maximum annuity 60% of Final Average Salary
- Retirement annuity based on highest 8 out of final 10 years of service

Annual Increase in Annuity - Judges and General Assembly

- Increases begin after attainment of age 67
- Increases equal to the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year
- Increases compounded

Annual Increase in Survivor's Annuity – Judges and General Assembly

- 66.7% of the earned retirement benefit at death
- Increased by the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year
- Increases compounded

Public Act 96-1495 (Creation of Tier II) Senate Bill 3538 – Link (McCarthy)

I. Overview of Key Provisions of Public Act 96-1495 (SB 3538)

Effective Date

• New employees beginning service after January 1, 2011

Systems Impacted

• IMRF (Sheriff's Law Enforcement Personnel), Chicago Police, Chicago Firefighters, Downstate Police, Downstate Firefighters

Retirement Eligibility

- Normal Retirement: 55 years old with 10 years of service
- Early Retirement: 50 years old with 10 years of service with a 0.5% per month reduction in benefits for each month age is under 55
- Annuity based on highest 8 years out of last 10 years of service
- Annual Final Average Salary may not exceed \$106,800, as automatically increased by the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year.

Annual Increases in Annuity

- Increases begin at the later of the first anniversary of retirement or at age 60.
- Increases equal to the lesser of 3% or one-half the annual increase in the CPI-U during the preceding 12-month calendar year; if increase in CPI is zero or if there is a decrease in CPI, then no COLA is payable
- Increase not compounded

Survivor Benefits

- 66.7% of the earned retirement benefit at death
- Increased by the lesser of 3% or one-half of the annual increase in the CPI-U during the preceding 12-month calendar year
- Increases not compounded

Funding Requirements

- Downstate and Chicago municipal contributions must be sufficient to achieve a 90% funded ratio by FY 2040 using a level percentage of payroll contribution rate.
- Whenever city contributions are not sufficient to achieve this funding goal, the retirement system will notify the Illinois State Comptroller.
- Upon receiving this notification, the Comptroller will divert funds owed by the State to the City in a sufficient amount to eliminate the shortfall in contributions.
- The State may divert all of the funds owed to the city beginning in FY2018. The diversion limit in FY 2016 is 33.3% and is 66.7% in FY 2017.

Calculation of the Funded Ratio

- Asset Market Values equal Asset Actuarial Values on March 30, 2011.
- Thereafter, Asset Actuarial Values will be used for all funded ratios.
- Income smoothing will be used after March 30, 2011 to calculate Asset Actuarial Values. A 5-year period (20% per year rate) will be used to recognize all investment revenues and losses.

Pension Calculations

- Retirement annuities are calculated to equal 2.5% of final average salary times the total years of service.
- Total retirement annuities are limited to 75% of final average salary.

Public Act 99-0506 Senate Bill 0777 – Cullerton (Currie)

I. Overview of Key Provisions of Public Act 99-0506 (SB 0777)

Effective Date

• May 30, 2016

Systems Impacted

• Chicago Police and Chicago Fire

Annuity Payment

• Adjusted from \$1,050 to an amount calculated by the poverty guidelines of the United States Department of Health and Human Services

City Contribution

- Fixed contribution schedule for Chicago Police:
 - o 2016: \$420,000,000
 - o 2017: \$464,000,000
 - o 2018: \$500,000,000
 - o 2019: \$557,000,000
 - o 2020: \$579,000,000
- Fixed contribution schedule for Chicago Fire:
 - o 2016: \$199,000,000
 - o 2017: \$208,000,000
 - o 2018: \$227,000,000
 - o 2019: \$235,000,000
 - o 2020: \$245,000,000

Tax Levy

• Beginning in tax levy year 2020, the city shall levy a tax annually in a manner that will increase the funding ratio to 90% by 2055.

Minimum Employer Contribution

• Shall be determined using the entry age normal actuarial cost method

Video Gaming

• Proceeds collected from a Chicago casino shall be contributed to Police and Fire Funds.

Delinquent Payments

• The Funds may take legal action if the city does not make the required contributions by December 31st of that year.

Public Act 99-0905 Senate Bill 0440 – Mulroe (Burke)

I. Overview of Key Provisions of Public Act 99-0905 (SB 0440)

Effective Date

• November 29, 2016

Systems Impacted

• Chicago Police and Chicago Fire

Retirement Eligibility

- Tier 2 retirees are included when determining death benefit eligibility.
- Tier 2 members that withdraw before age 50 (or 57 with less than 10 service years) are eligible for a refund equal to the amount deducted from their salary.

Salary Deductions

• Salary deductions for present employees and future entrants will contribute to the Funds for Tier 2 monthly retirement annuity, in addition to age and service annuity and widow's annuity.

Annual Increases in Annuity

- Increases equal to 1.5% begin at the latter of the first anniversary of retirement or at age 55 for members who retire with at least 20 years of service and born before 1966.
- Subsequent increases will occur on January 1st of each year.
- Maximum total increase of 30%
- For members born between 1955 and 1966, the increase shall be equal to 3% noncompounded with no maximum.
- Starting in 2017, members who would have qualified for these increases prior to the effective date shall receive all increases retroactively.
- Starting in 2017, the minimum widow's annuity shall be no less than 125% of the Federal Poverty Level.

Tier 2 Surviving Spouses

- Qualified to receive a Tier 2 surviving spouse annuity in lieu of the standard widow's annuity
- If the deceased member was receiving a Tier 2 monthly retirement annuity at the date of his/her death, the Tier 2 surviving spouse's annuity shall be in the amount of 66 2/3% of the member's monthly annuity at the date of death.
- If the deceased member was not receiving a Tier 2 monthly retirement annuity at the time of death, the Tier 2 surviving spouse's annuity shall be the greater of:
 - \circ 30% of the annual maximum salary attached to the rank of a first class police officer or firefighter at the time of death.

- 66 2/3% of the Tier 2 monthly retirement annuity that the deceased member would have been eligible to receive
- If the deceased member was in active service with at least 1½ but less than 10 years of service at the time of death, the Tier 2 surviving spouse's annuity shall be 30% of the annual maximum salary attached to the rank of a first class police officer or firefighter at the time of death.
- If a member's death resulted from an act of duty or prevented him/her from resuming active service, then in addition to the Tier 2 surviving spouse's annuity, the spouse shall be qualified to receive compensation annuity or supplemental annuity, in order to bring the total benefit up to the applicable 75% salary limitation, but subject to the existing Tier 2 salary cap.
 - Tier 2 surviving spouse's annuities shall not be less than the amount of the minimum widow's annuity.

Tier 2 Surviving Children and Parents

- Tier 2 surviving children and parents are qualified to receive a Tier 2 annuity. The Tier 2 annuity is in lieu of, but equal to, the standard annuity.
- Any salary used for computing a Tier 2 annuity shall be subject to the existing Tier 2 salary cap.

Public Act 100-0023 Senate Bill 0042 – Trotter (Harris)

* As of writing, the Tier 3 plan is implemented by two pension funds, the Municipal Employees' Annuity and Benefit Fund of Chicago (MEABF) and Laborers' Annuity and Benefit Fund of Chicago (LABF).

I. Overview of Key Provisions of Public Act 100-0023 (SB 0042)

Effective Date

• July 6, 2017

Systems Impacted

• The General Assembly Retirement System (GARS), Firemen's Annuity and Benefit Fund of Chicago, MEABF, Cook County Employees' Pension Fund, Cook County Forest Preserve Employees' Pension Fund, LABF, Park Employees' Annuity and Benefit Fund of Chicago, State Employees' Retirement System (SERS), State Universities Retirement System (SURS), Teachers' Retirement System (TRS), Public School Teachers' Pension and Retirement Fund of Chicago (CTPF), and Judges' Retirement System (JRS)

Optional Tier 3 Hybrid Plan

Tier 3 Availability

- SERS, SURS, and TRS:
 - Tier 3 benefits are available as soon as the board of that respective system authorizes members to begin participation.
 - Each of these systems shall endeavor to make participation available as soon as possible. This requirement is referred to as the "implementation date."
 - Newly hired and existing Tier 2 members must make the election to participate in Tier 3 within 30 days of becoming a member or participant in the pertinent system.
- MEABF, Cook County Employees, Cook County Forest Preserve Employees, LABF, Park Employees, and CTPF:
 - Tier 3 benefits are available beginning 6 months after the governing body of the unit of local government approves participation in the plan via adoption of a resolution or ordinance.
 - No later than 5 months after the resolution or ordinance approving participation in Tier 3, the affected system shall prepare and implement the defined contribution component of the Tier 3 hybrid plan.
 - Newly hired members must make the election to participate in the Tier 3 hybrid system within 30 days of becoming a member or participant in the pertinent system.

Tier 3 Benefits Summary

(*Tier 3 benefits and eligibility may be different for MEABF and LABF, as shown below.*)

- Retirement Annuity: 1.25% for each year of service credit multiplied by final average salary
- Normal Retirement: determined by Social Security Administration, but no earlier than 67 years of age with at least 10 years of service
- COLA: Beginning 1 year after annuity start date and equal to 50% of the CPI-W
- Survivor's/Widow's Annuity: 66 2/3% of participant's retirement annuity
- Employee Contribution for the DB component: 6.2% of salary (cannot exceed normal cost)
- Employee Contribution for the DC component: 4% minimum
- Employer Contributions for the DC component: between 2% and 6% of salary
 - Employer contributions vest when they are paid into a participant's account.
 - Employee and employer contributions are transferrable into other qualified plans.
- For SURS and TRS
 - Employer Contribution is the DB Normal Cost less the Employee Contribution, plus 2%. (expressed as a % of payroll)

MEABF and LABF Retirement Eligibility (New Tier 3 DB Schedule of Benefits)

- Between October 1, 2017 and November 15, 2017, existing Tier 2 members who began service prior to the effective date of this Act (July 6, 2017) shall make an irrevocable decision to be eligible for the new Tier 3 retirement options described below:
 - Those who elect to gain eligibility for the new Tier 3 schedule of benefits will be subject to the Tier 3 employee contribution rates.
- Tier 3 Employee Contribution Rates
 - After the effective date of this Act, but prior to January 1, 2018: 7.5%
 - o January 1, 2018 and prior to January 1, 2019: 8.5%
 - January 1, 2019 and thereafter: the lesser of:
 - Normal Cost using the Entry Age Normal (EAN) actuarial method (no less than 6.5%)
 - **9.5%**
 - This rate (the lesser of the normal cost or 9.5%) shall resume until the systems have reached a 90% funding ratio, at which point the employee contribution shall be reduced to 5.5% of salary.
 - If the funding ratio falls below 75%, then the employee contribution shall revert to the previous amount.
- Tier 3 Benefits
 - New hires that are at least 65 years of age with at least 10 years of service credit are entitled to a retirement annuity upon written application.
 - \circ New hires who retire between the age of 60 and 65, with at least 10 years of service credit, shall have their annuity reduced by 0.5% for each month that he or she is under age 65.

Changes in State Contributions

- For SURS and TRS, in fiscal years 2018 through 2020, the State shall contribute an additional 2% of payroll of each Tier 3 employee.
- For SURS and TRS, if the amount of a participant's salary exceeds the amount of the Governor's salary, the employer shall pay to the System an amount equal to the employer normal cost multiplied by the excess amount of salary.
- State contribution-altering changes in actuarial or investment assumptions shall be implemented and smoothed over a 5-year period beginning in FY 18.
- State contribution-altering changes in actuarial or investment assumptions that first applied in fiscal year 2014, 2015, 2016, or 2017 shall be retroactively smoothed over a 5-year period, beginning with and including the year in which the actuarial change first applied.
 - By November 1, 2017, the amount of the State Contribution shall be recertified to include retroactive smoothing.

Chicago Fire COLA

- Firefighters born after December 31, 1954 but before January 1, 1966 and retired after September 1, 1967 are entitled to a 3% noncompounded annuity increase upon:
 - The 1^{st} of the month following the 1-year anniversary of retirement, and every 1^{st} of January thereafter.
 - Or following the attainment of age 55 if they were not 55 after 1 year of retirement
- Firefighters that meet the aforementioned criteria prior to this Act will receive an increase to their annuity as if they had received a 3% increase each year rather than 1.5%.

Chicago Municipal and Laborers Tax Levy

• Beginning in 2017, the property tax levy cannot exceed the amount of the city's total required contribution for the following year.

Public Act 101-0673 House Bill 2451 – Martwick (Martwick)

I. Overview of Key Provisions of Public Act 101-0673 (HB 2451)

Effective Date

• April 5, 2021

Systems Impacted

• Firemen's Annuity and Benefit Fund of Chicago

Elimination of birthdate requirement for Tier One 3% non-compounded COLA

Prior to the enactment of P.A. 101-0673 (HB 2451), Tier 1 firefighters born before January 1, 1966 with at least 20 years of service received an annual non-compounded increase of 3% on or after the age of 55, not subject to a 30% increase maximum. Those Tier 1 firefighters born after January 1, 1966 received 1.5% increases on or after the age of 60 with at least 20 years of service, subject to a maximum of 30% (hence, after 15 years of retirement, no annual increases were payable).

The Act removed the birthdate restriction and sets the annual Tier 1 increase to 3% noncompounded for all retirees at least 55 years of age with 20 years of service. The Act further stipulates that firefighters who were not eligible for the 3% increase prior to the effective date of the bill (April 5th, 2021) will receive a 3% increase for each year the firefighter would have otherwise been eligible had the firefighter not received any increase.

Public Act 102-0263 House Bill 417 – Burke (Martwick)

I. Overview of Key Provisions of Public Act 102-0263 (HB 417)

Effective Date

• August 6, 2021

Systems Impacted

• Chicago Park District Article

Creation of Tier 3 Benefits

Prior to P.A. 102-0263, the Tier 2 retirement eligibility under the Chicago Park District Article was age 67 with 10 years of service for regular benefits and age 62 with 10 years of service for reduced benefits, respectively. The total employee contribution rate was 9% of salary, comprised of 7% for the retirement pension, 1% for the spouse's pension, and 1% for the annual increase in retirement benefit.

P.A. 102-0263 creates a Tier 3 benefit structure for employees who first became members on or after January 1, 2022. The Tier 3 plan provides, compared to the Tier 2 benefits structure, a higher employee contribution rate, in exchange for having a lower age retirement eligibility. The age eligibility will be reduced by 2 years (age 65 for regular benefits and age 60 for reduced benefits), and the employee contribution rate for the retirement pension will be increased to 9% from 7%, resulting in the total employee contribution rate of 11%.

Under this Act, two options will be offered to Tier 2 members who first became members prior to January 1, 2022. Tier 2 members who choose Option 1 could irrevocably elect to opt-in for the Tier 3 plan.

• Option 1: To agree with the Tier 3 benefits structure, which is to have an increased total employee contribution rate of 11% in exchange for the reduced age eligibility by 2 years (age 65 for regular benefits and age 60 for reduced benefits); or

• Option 2: To not agree to Option 1. In this case, the current age retirement eligibility and employee contribution rate will remain the same.

This election shall be made between January 1, 2022, and April 1, 2022. P.A. 102-0263 stipulates that Option 2 is the default decision for those who fail to make an irrevocable election by April 1, 2022.

Chicago Park District Required Annual Pension Contributions and Tax Levy

Prior to P.A. 102-0263, a tax levied by the Chicago Park District (employer) to make the required employer contributions to the pension fund shall be equal to the employee

contributions in the fiscal year two years prior to the year for which the tax is levied, multiplied by 1.1.

Under this Act, beginning in levy year 2020, the levy shall not exceed the amount of the Park District's total required contribution for the next payment year ("Payment year" means the year immediately following the levy year). For payment years 2021 to 2023, the required employer contributions, determined by the pension fund's actuary, shall ramp up as follows:

- 1. For payment year 2021: 25% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2020, using the entry age normal actuarial cost method, that is sufficient to attain a funded ratio of 100% by the end of 2055;
- 2. For payment year 2022: 50% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2021, using the entry age normal actuarial cost method, that is sufficient to attain a funded ratio of 100% by the end of 2056; and
- 3. For payment year 2023: 75% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2022, using the entry age normal actuarial cost method, that is sufficient to attain a funded ratio of 100% by the end of 2057;

For payment years 2024 through 2058, the Park District's required annual contribution shall be 100% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35- year period starting on December 31, 2023, using the entry age normal actuarial cost method, that is sufficient to bring the funded ratio up to 100% by the end of 2058.

For payment year 2059 and each year thereafter, the required contribution shall be the amount required to reach a 100% funding ratio, if needed, using the entry age normal actuarial cost method as of the end of the year.

In determining the required employer contributions, any actuarial losses or gains from investment returns that differ from the expected investment returns shall be recognized in equal annual amounts over the 5-year period following the then-current fiscal year. This technique is known as "asset smoothing."

Authorization of the Issuance of Bonds

P.A. 102-0263 allows the Chicago Park District to issue pension obligation bonds from time to time in the principal amount of \$250 million for making supplementary employer contributions to the pension fund to reduce the unfunded liability. However, the Chicago Park District may not issue bonds in excess of \$75 million in any one year. The proceeds of the bonds should not be used to reduce the amount of the required employer contributions. Also, an additional employer contribution of \$40 million shall be made no later than November 1, 2021, to reduce the pension fund's unfunded liability.

II. Chicago Transit Authority Retirement Fund

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of January 1, 2021.

Chicago Transit Authority Pension Fund Plan Summary

Retirement Age

- Normal Retirement Age for CTA employees is 65.
- Employees hired before January 18, 2008 may retire early at age 55 with 3 years of continuous service, or after completion of 25 years of continuous service at any age. (Employees who have at least 25 years of service do not have their annuities reduced by 5% for each year younger than 65, regardless of age). Employees hired after September 5, 2001 may retire with unreduced benefits after attaining age 55 and completing 25 years of service.
- For employees hired after January 18, 2008, an employee may retire with unreduced benefits upon attainment of age 64 with 25 years of service. An employee may retire with a reduced benefit upon attainment of age 55 with 10 years of service (reduction of 5% for each year or fraction younger than age 65).

Retirement Formula

2.15% of final average salary for each year of service for employees retiring on or after January 1, 2001

Maximum Annuity

• 70% of final average salary

Salary Used to Calculate Pension

 Highest average compensation over any four calendar years out of the final 10 years of service prior to normal retirement

Annual COLA

- Made on an ad-hoc basis
- As part of the Arbitration Award ruling of November 13, 2003, ad-hoc increases were provided to retirees as follows:
 - \circ \$75 per month for members who retired before 1/1/1980;
 - \circ \$50 per month for members who retired on or after 1/1/1980 but before 1/1/1991;
 - \circ \$40 per month for members who retired on or after 1/1/1991 but before 1/1/2000;
- Another ad-hoc increase (the most recent) was made for members as part of an Arbitration Award ruling of June 26, 2007.

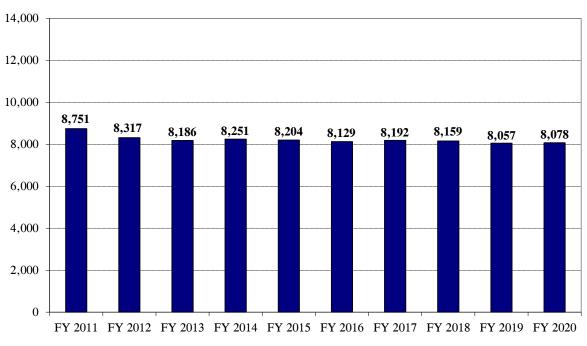
Employee Contributions

13.324% of salary (FY 2022-2040)

Employer Contributions

20.647% of salary (FY 2022-2040)

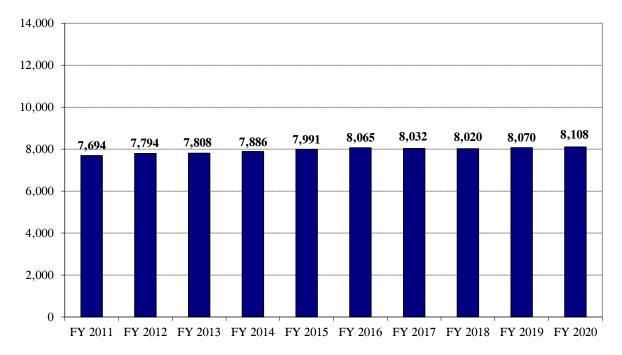
Pursuant to P.A. 95-0708, the CTA shall make contributions so that the funded ratio does not decline below 60% in any year before FY 2040. If the funded ratio drops below 60%, the contributions shall be increased to reach 60% within 10 years. Beginning in FY 2040, the CTA Article of the Pension Code provides for a minimum contribution by the CTA, determined either by the CTA Pension Board of Trustees or the Auditor General, to bring the funded ratio of the Plan up to or no less than 90% by Dec. 31, 2059.

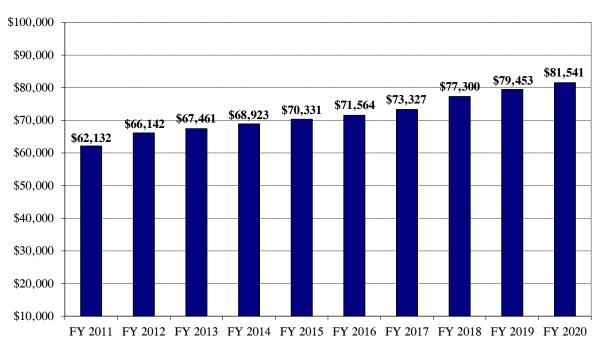


CHICAGO TRANSIT AUTHORITY PENSION FUND Active Employees

CHART 2

CHICAGO TRANSIT AUTHORITY PENSION FUND Employee Annuitants

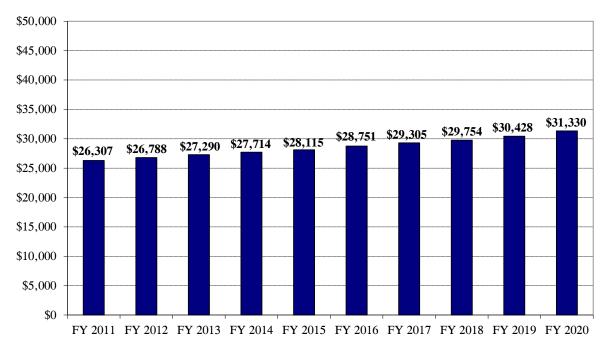


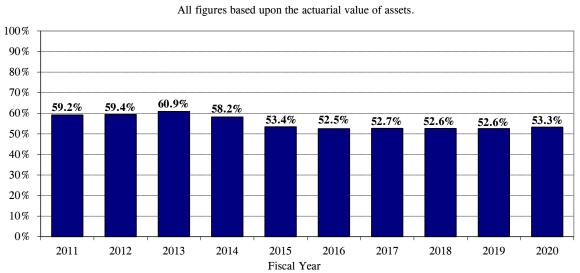


CHICAGO TRANSIT AUTHORITY PENSION FUND Average Employee Salaries

CHART 4

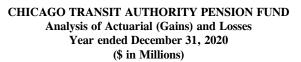


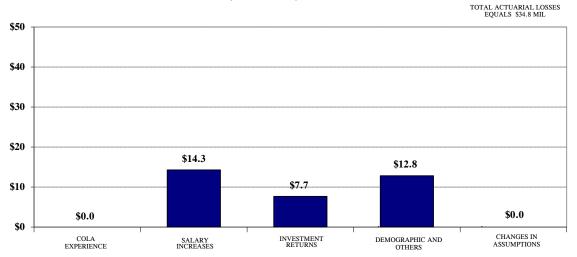




CHICAGO TRANSIT AUTHORITY PENSION FUND Funded Ratio FY 2011 - FY 2020

CHART 6





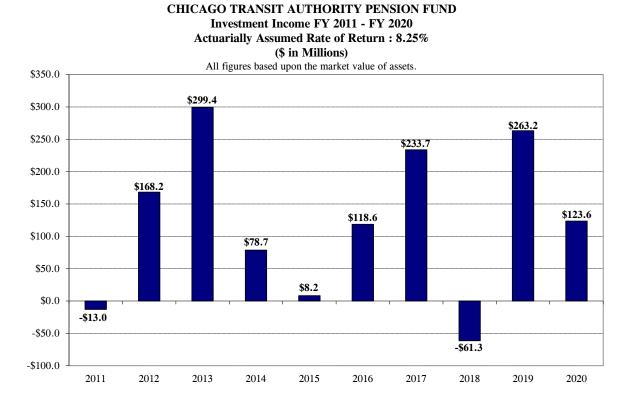


CHART 8

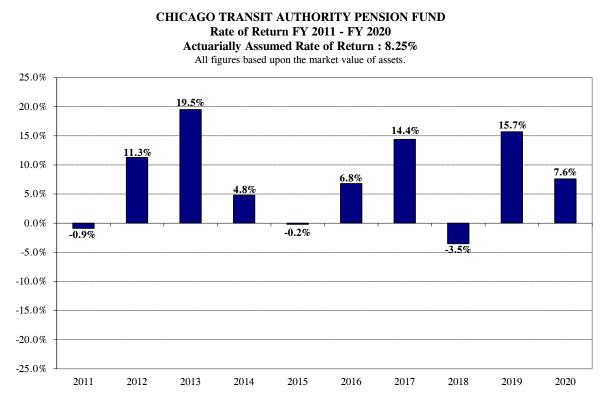


TABLE 1

CHICAGO TRANSIT AUTHORITY PENSION FUND

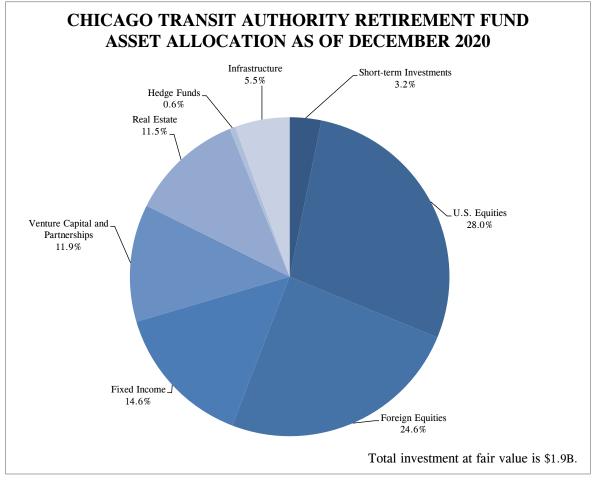
System Experience, FY 2011 - FY 2020

(\$ in Millions)

Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio
2020	650.0	3,670.7	1,955.3	1,715.4	53.3%
2019	631.4	3,583.9	1,883.4	1,700.4	52.6%
2018	623.0	3,489.0	1,835.8	1,653.2	52.6%
2017	595.0	3,423.2	1,802.2	1,621.0	52.6%
2016	575.4	3,338.6	1,752.5	1,586.2	52.5%
2015	573.5	3,267.1	1,743.2	1,523.9	53.4%
2014	564.8	3,186.2	1,855.9	1,330.3	58.2%
2013	550.6	3,105.6	1,892.7	1,212.9	60.9%
2012	548.5	2,867.3	1,702.8	1,164.5	59.4%
2011	541.4	2,808.2	1,662.2	1,146.0	59.2%

TABLE 2

CHICAGO TRANSIT AUTHORITY PENSION FUND Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	\$135.8	\$121.7	\$117.1	\$104.5	\$83.9	\$82.8	\$82.3	\$79.5	\$62.8	\$60.3
Employees	\$87.9	\$81.3	\$78.3	\$70.3	\$59.6	\$59.0	\$58.6	\$56.8	\$48.4	\$47.2
Net Investment Income	\$123.6	\$263.2	-\$61.3	\$233.7	\$118.6	\$8.2	\$78.7	\$299.4	\$168.2	-\$13.0
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Additions (A)	\$347.4	\$466.2	\$134.1	\$408.5	\$262.0	\$150.0	\$219.5	\$435.7	\$279.4	\$94.5
Deductions from Assets										
Benefits	\$289.2	\$281.0	\$274.5	\$269.1	\$261.7	\$253.8	\$246.0	\$238.7	\$232.7	\$222.2
Refunds	\$5.2	\$7.1	\$7.4	\$7.3	\$4.8	\$6.4	\$7.1	\$4.9	\$4.0	\$2.9
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$2.3	\$2.8	\$2.9	\$2.5	\$2.3	\$2.6	\$3.1	\$2.1	\$2.1	\$2.0
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$296.7	\$290.9	\$284.8	\$279.0	\$268.9	\$262.7	\$256.3	\$245.7	\$238.8	\$227.1
Change in Net Assets (A-B=C)	\$50.7	\$175.2	-\$150.7	\$129.5	-\$6.8	-\$112.7	-\$36.8	\$190.0	\$40.6	-\$132.6



III. Cook County Employees' Pension Fund

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Cook County Employees' Pension Fund Tier 1 Plan Summary

Retirement Age

- Age 60 with 10 years of service
- Age 50 with 30 years of service
- Age 50 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

Highest average monthly salary for any 48 consecutive months within the final 10 years of service

Annual COLA

• 3% compounded

Employee Contributions

• 8.5% of salary

Employer Contributions

The County levies a tax annually equal to the total amount of contributions made by employees in the calendar year two years prior to the year of the levy, multiplied by 1.54.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Cook County Employees' Pension Fund Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

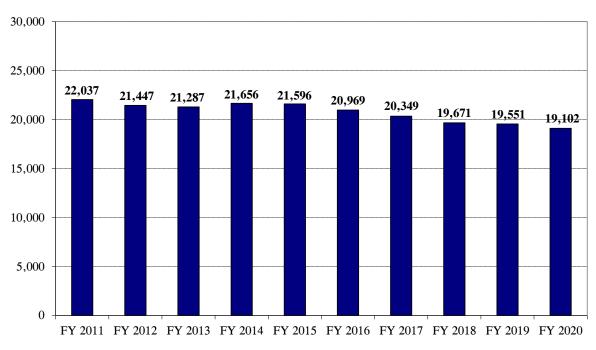
• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 8.5% of salary

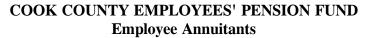
Employer Contributions

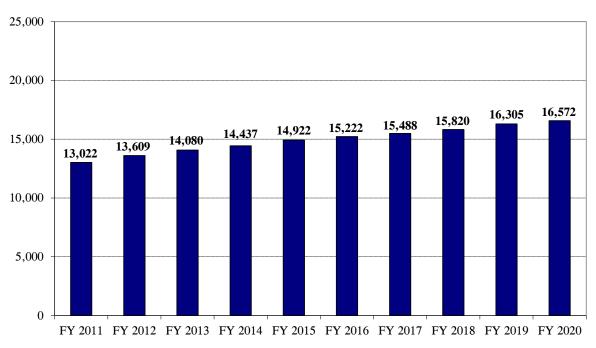
The County levies a tax annually equal to the total amount of contributions made by employees in the calendar year two years prior to the year of the levy, multiplied by 1.54.

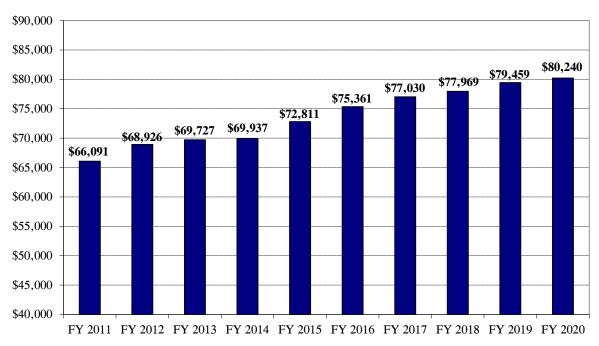


COOK COUNTY EMPLOYEES' PENSION FUND Active Employees

CHART 11

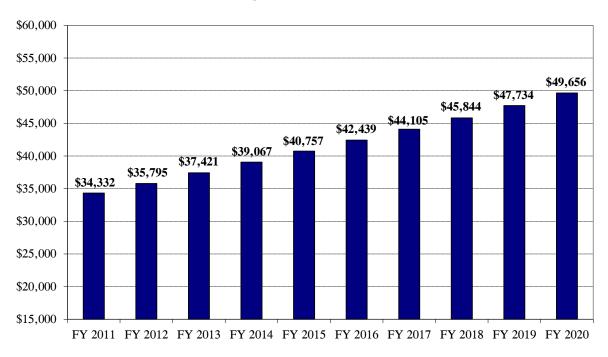


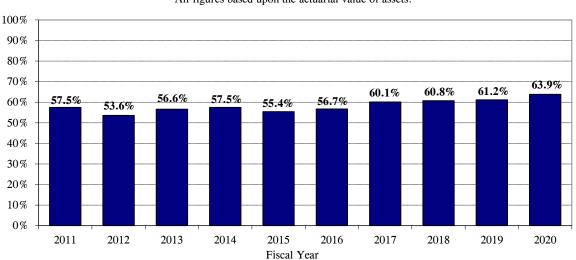




COOK COUNTY EMPLOYEES' PENSION FUND Average Employee Salaries





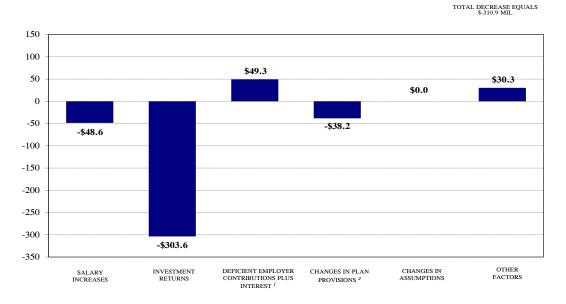


COOK COUNTY EMPLOYEES' PENSION FUND Funded Ratio FY 2011 - FY 2020

All figures based upon the actuarial value of assets.

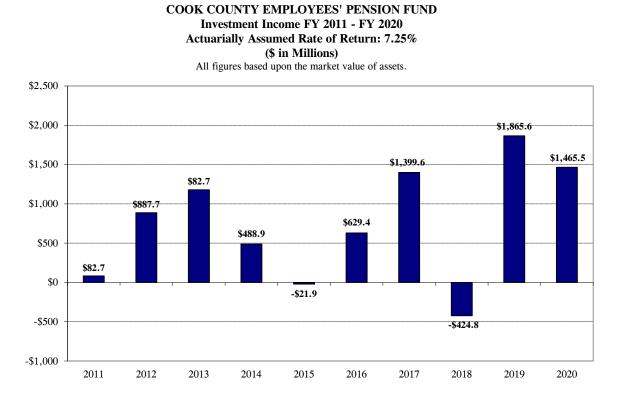
CHART 15

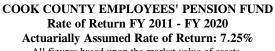


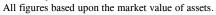


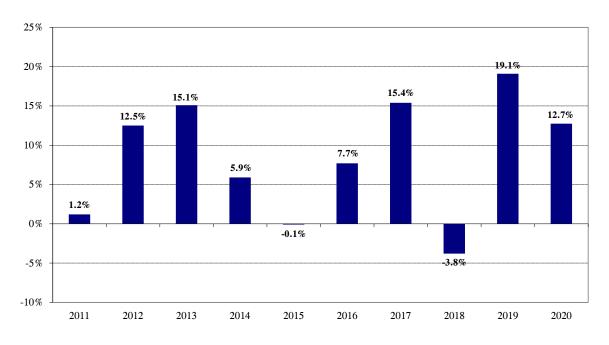
¹ The unfunded liability increased due to employer contribution plus interest being less than normal cost, plus interest. *A supplemental employer contribution of \$309.2 million is included in the employer contribution.* ² The unfunded liability decreased due to provision changes in the Retiree Health Insurance plan. Some examples of the

changes are decreasing the 2021 subsidy rates for member health benefits from 34% to 33% for retirees in the Choice Plus Plan Medicare, from 48% to 45% for retirees in the Choice Plan non-Medicare, and from 43% to 42% for retirees in the Choice Plus Plan non-Medicare.









	COOK COUNTY EMPLOYEES' PENSION FUND System Experience, FY 2011 - FY 2020 (\$ in Millions)										
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio						
2020	1,532.7	18,421.0	11,765.6	6,655.5	63.9%						
2019	1,553.5	17,949.7	10,983.4	6,966.3	61.2%						
2018	1,533.7	17,303.8	10,512.8	6,791.0	60.8%						
2017	1,567.5	16,889.5	10,148.2	6,741.3	60.1%						
2016	1,580.3	16,726.5	9,488.2	7,238.2	56.7%						
2015	1,572.4	16,232.2	8,991.0	7,241.2	55.4%						
2014	1,514.6	15,318.8	8,810.5	6,508.3	57.5%						
2013	1,484.3	14,812.1	8,381.4	6,430.6	56.6%						
2012	1,478.3	14,630.3	7,833.9	6,796.4	53.6%						
2011	1,456.4	13,724.0	7,897.1	5,826.9	57.5%						

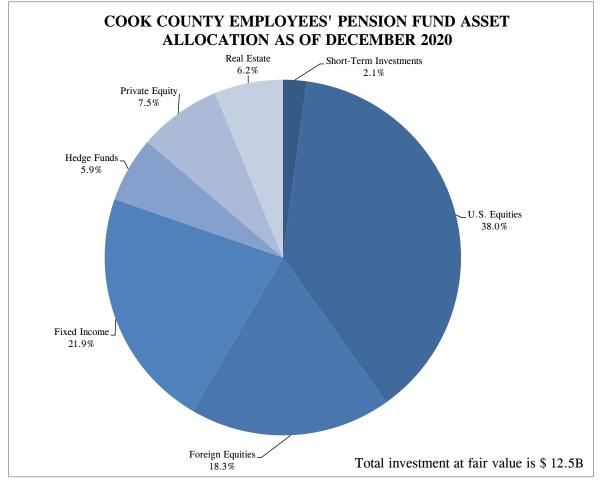
	COOK COUNTY EMPLOYEES' PENSION FUND Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	
Additions to Assets											
Employer	\$509.2	\$526.2	\$587.7	\$559.21	\$464.3	\$186.8	\$190.0	\$187.8	\$190.7	\$195.3	
Employees	\$134.2	\$134.8	\$134.2	\$138.83	\$139.4	\$137.7	\$129.3	\$127.6	\$130.6	\$127.6	
Net Investment Income	\$1,465.5	\$1,865.6	-\$424.8	\$1,399.63	\$629.4	-\$21.9	\$488.9	\$1,179.4	\$887.7	\$82.9	
Other	\$36.0	\$35.2	\$27.5	\$23.27	\$13.9	\$11.5	\$9.7	\$8.5	\$10.2	\$17.4	
Total Asset Additions (A)	\$2,144.8	\$2,561.9	\$324.6	\$2,120.98	\$1,247.0	\$314.1	\$818.0	\$1,503.4	\$1,219.2	\$423.2	
Deductions from Assets											
Benefits	\$950.1	\$890.1	\$831.7	\$790.35	\$742.4	\$701.0	\$645.6	\$601.8	\$563.1	\$523.4	
Refunds	\$31.0	\$37.7	\$33.7	\$33.00	\$26.7	\$33.3	\$26.3	\$29.9	\$33.1	\$29.1	
Rebates	\$0.0	\$0.0	\$0.0	\$0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Administrative Expenses	\$5.0	\$5.1	\$5.1	\$5.41	\$5.4	\$5.2	\$5.0	\$4.3	\$4.3	\$4.1	
Other	\$0.0	\$0.0	\$0.0	\$0.00	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Total Asset Deductions (B)	\$986.1	\$932.9	\$870.5	\$828.75	\$774.5	\$739.5	\$677.0	\$636.0	\$600.5	\$556.6	
Change in Net Assets (A-B=C)	\$1,158.7	\$1,628.9	-\$545.9	\$1,292.23	\$472.6	-\$425.4	\$141.0	\$867.4	\$618.7	-\$133.4	

Table 5 below contains funding projections based on the December 31, 2020 actuarial valuation of the Cook County Employees' Pension Fund. As shown in the table below, under the current funding policy, the Cook County Employees' Pension Fund is projected to run out of assets by 2048 if all future assumptions are met and no additional contributions are made.

Cook County Employees' Pension Fund Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)										
Calendar Year	Capped Payroll	Total County Contribution	County Contribution As % of Payroll	Total Employee Contribution	Accrued Liability	Actuarial Value of Assets	Unfunded Liabilities	Funded Ratio		
2021	1,590.1	539.4	33.9%	135.4	18,421.0	11,766.0	6,655.0	63.9%		
2022	1,631.2	201.4	12.3%	138.7	18,925.0	12,570.0	6,355.0	66.4%		
2023	1,673.3	200.4	12.0%	142.2	19,410.0	12,877.0	6,533.0	66.3%		
2024	1,715.4	202.3	11.8%	145.8	19,877.0	13,378.0	6,499.0	67.3%		
2025	1,757.7	207.1	11.8%	149.4	20,323.0	13,604.0	6,719.0	66.9%		
2026	1,800.4	212.5	11.8%	153.0	20,744.0	13,657.0	7,087.0	65.8%		
2027	1,844.6	217.8	11.8%	156.8	21,137.0	13,661.0	7,476.0	64.6%		
2028	1,890.3	223.2	11.8%	160.7	21,503.0	13,615.0	7,888.0	63.3%		
2029	1,937.1	228.6	11.8%	164.7	21,842.0	13,518.0	8,324.0	61.9%		
2030	1,985.4	234.2	11.8%	168.8	22,153.0	13,366.0	8,787.0	60.3%		
2031	2,037.4	240.0	11.8%	173.2	22,434.0	13,157.0	9,277.0	58.6%		
2032	2,089.7	246.0	11.8%	177.6	22,685.0	12,888.0	9,797.0	56.8%		
2033	2,143.8	252.1	11.8%	182.2	22,908.0	12,558.0	10,350.0	54.8%		
2034	2,199.0	258.7	11.8%	186.9	23,105.0	12,168.0	10,937.0	52.7%		
2035	2,255.6	265.3	11.8%	191.7	23,277.0	11,716.0	11,561.0	50.3%		
2036	2,313.8	272.2	11.8%	196.7	23,423.0	11,198.0	12,225.0	47.8%		
2037	2,373.3	279.2	11.8%	201.7	23,545.0	10,615.0	12,930.0	45.1%		
2038	2,434.2	286.4	11.8%	206.9	23,647.0	9,966.0	13,681.0	42.1%		
2039	2,496.3	293.8	11.8%	212.2	23,730.0	9,249.0	14,481.0	39.0%		
2040	2,558.9	301.3	11.8%	217.5	23,798.0	8,465.0	15,333.0	35.6%		
2041	2,621.4	309.1	11.8%	222.8	23,853.0	7,612.0	16,241.0	31.9%		
2042	2,685.1	317.0	11.8%	228.2	23,897.0	6,689.0	17,208.0	28.0%		
2043	2,748.5	324.9	11.8%	233.6	23,936.0	5,696.0	18,240.0	23.8%		
2044	2,811.3	332.9	11.8%	239.0	23,974.0	4,632.0	19,342.0	19.3%		
2045	2,873.7	340.9	11.9%	244.3	24,014.0	3,497.0	20,517.0	14.6%		
2046	2,935.8	349.0	11.9%	249.5	24,061.0	2,288.0	21,773.0	9.5%		
2047	2,997.1	357.0	11.9%	254.8	24,118.0	1,003.0	23,115.0	4.2%		
2048	3,057.9	364.9	11.9%	259.9	24,190.0	-362.0	24,552.0	-1.5%		
2049	3,117.9	372.8	12.0%	265.0	24,170.0	-1,810.0	26,087.0	-7.5%		
2050	3,177.7	380.6	12.0%	270.1	24,277.0	-3,350.0	27,730.0	-13.7%		
2050	3,237.4	388.3	12.0%	275.2	24,500.0 24,501.0	-4,988.0	29,489.0	-20.4%		
2051	3,296.8	395.9	12.0%	280.2	24,643.0	-6,729.0	31,372.0	-20.4%		
2052	3,355.9	403.5	12.0%	280.2	24,043.0 24,807.0	-0,729.0	33,391.0	-27.5%		
2053 2054	3,333.9	405.5	12.0%	283.2	24,807.0 24991	-8,384.0	35,591.0	-34.0%		
2054 2055	3414.7 3473.9	411.1 418.6	12.0%	290.3 295.3	24991 25196	-10561 -12674	35,552.0 37,870.0	-42.3% -50.3%		
2055 2055	3473.9	418.6 426.1	12.0%	295.3 300.3	25196 25420	-12674 -14934	37,870.0 40,354.0	-50.3% -58.7%		

TABLE 5

NOTE: County contribution for 2021 includes a supplemental employer contribution of \$342 million, \$28 million of which was paid in 2020.



IV. Cook County Forest Preserve Employees' Pension Fund

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Cook County Forest Preserve Employees' Pension Fund Tier 1 Plan Summary

Retirement Age

- Age 60 with 10 years of service
- Age 50 with 30 years of service
- Age 50 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Highest average monthly salary for any 48 consecutive months within the final 10 years of service

Annual COLA

• 3% compounded

Employee Contributions

• 8.5% of salary

Employer Contributions

The Forest Preserve District levies a tax annually equal to the total amount of contributions made by employees in the calendar year two years prior to the year of the levy, multiplied by 1.30.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Cook County Forest Preserve Employees' Pension Fund Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

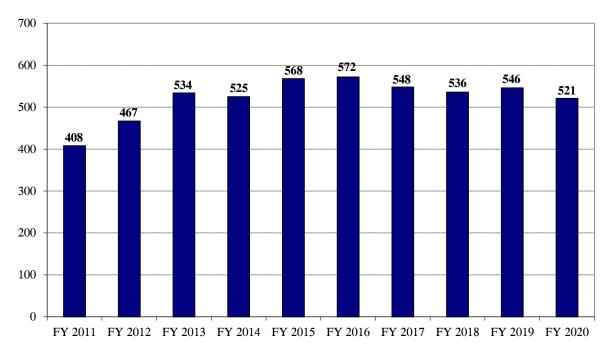
• Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 8.5% of salary

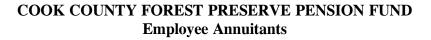
Employer Contributions

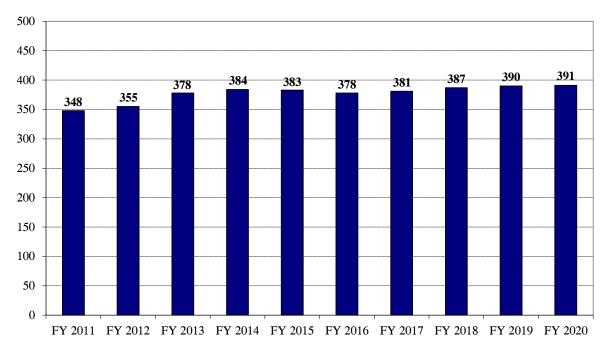
The Forest Preserve District levies a tax annually equal to the total amount of contributions made by employees in the calendar year two years prior to the year of the levy, multiplied by 1.30.

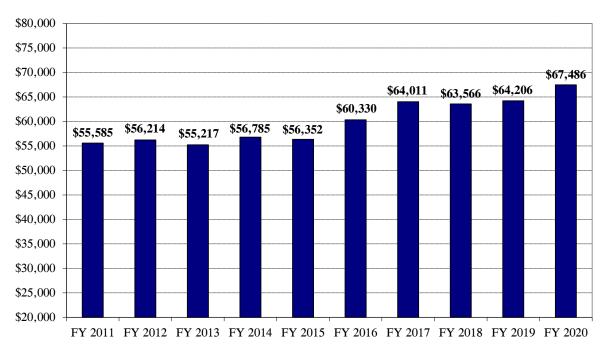


COOK COUNTY FOREST PRESERVE PENSION FUND Active Employees

CHART 20



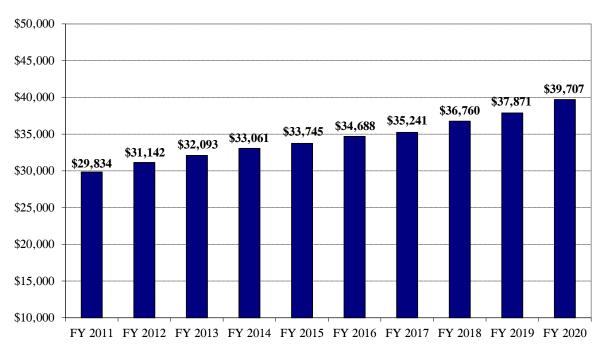


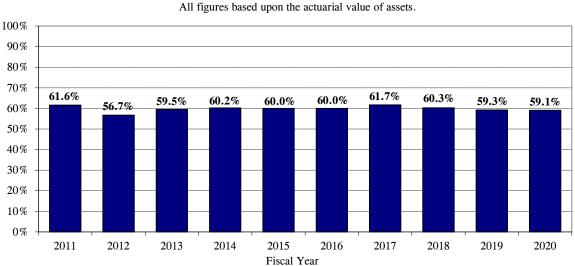


COOK COUNTY FOREST PRESERVE PENSION FUND Average Employee Salaries

CHART 22

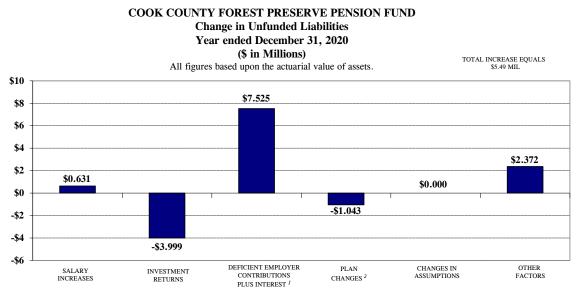




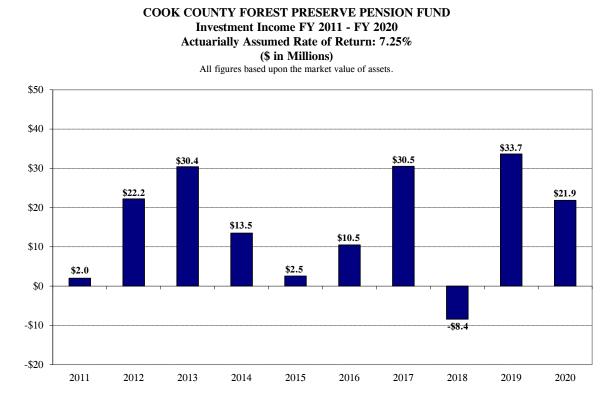


COOK COUNTY FOREST PRESERVE PENSION FUND Funded Ratio FY 2011 - FY 2020

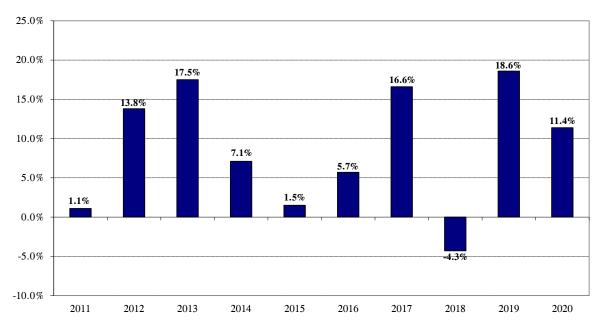
CHART 24



¹ Unfunded liability increased due to employer contributions plus interest being less than normal cost, plus interest. ² The unfunded liability decreased due to provision changes in the retiree health insurance plan. Some examples of the changes are decreasing the 2021 subsidy rates for member health benefits from 34% to 33% for retirees in the Choice Plus Plan Medicare, from 48% to 45% for retirees in the Choice Plan non-Medicare, and from 43% to 42% for retirees in the Choice Plus Plan non-Medicare.







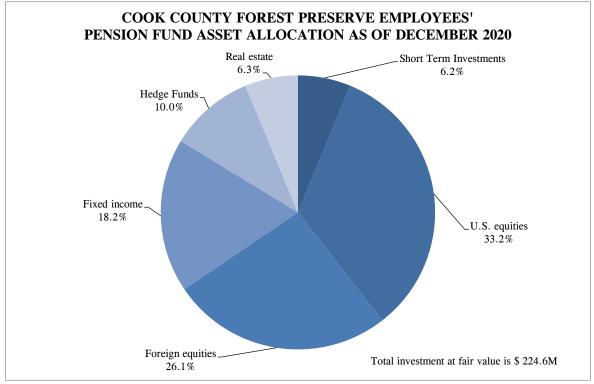
	COOK COUNTY FOREST PRESERVE PENSION FUND										
	Sys	stem Experien	ce, FY 2011 - F	'Y 2020							
	(\$ in Millions)										
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio						
2020	35.2	355.1	209.7	145.4	59.1%						
2019	35.1	343.4	203.5	139.9	59.3%						
2018	34.1	336.7	202.9	133.8	60.3%						
2017	35.1	330.9	204.3	126.6	61.7%						
2016	34.5	330.2	198.2	132.0	60.0%						
2015	32.0	322.8	193.7	129.0	60.0%						
2014	29.7	315.2	189.9	125.3	60.2%						
2013	26.3	306.9	182.6	124.4	59.5%						
2012	26.3	304.5	172.6	131.9	56.7%						
2011	22.7	289.3	178.1	111.2	61.6%						

	COOK COUNTY FOREST PRESERVE PENSION FUND Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	
Additions to Assets											
Employer	\$4.0	\$4.3	\$4.1	\$3.5	\$3.4	\$3.5	\$3.1	\$2.9	\$3.1	\$3.3	
Employees	\$3.2	\$3.0	\$3.1	\$3.3	\$3.2	\$2.8	\$2.6	\$2.7	\$2.5	\$2.3	
Net Investment Income	\$21.9	\$33.7	-\$8.4	\$30.5	\$10.5	\$2.5	\$13.5	\$30.4	\$22.2	\$2.0	
Other	\$1.1	\$0.8	\$0.9	\$0.6	\$0.3	\$0.2	\$0.2	\$0.2	\$0.2	\$0.5	
Total Asset Additions (A)	\$30.1	\$41.8	-\$0.3	\$37.9	\$17.4	\$9.0	\$19.5	\$36.1	\$28.0	\$8.1	
Deductions from Assets											
Benefits	\$20.0	\$19.3	\$18.3	\$18.0	\$17.5	\$17.2	\$16.7	\$15.7	\$14.2	\$13.6	
Refunds	\$0.9	\$0.8	\$1.1	\$0.6	\$0.7	\$0.6	\$1.0	\$1.0	\$1.2	\$0.6	
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Administrative Expenses	\$0.2	\$0.2	\$0.2	\$0.2	\$0.2	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	
Other	-\$0.7	\$0.3	\$0.2	\$0.1	\$0.1	\$0.0	\$0.2	-\$0.1	\$0.2	-\$0.3	
Total Asset Deductions (B)	\$20.3	\$20.5	\$19.7	\$18.8	\$18.5	\$18.0	\$17.9	\$16.6	\$15.7	\$14.0	
Change in Net Assets (A-B=C)	\$9.8	\$21.3	-\$20.0	\$19.2	-\$1.1	-\$9.0	\$1.6	\$19.5	\$12.3	-\$5.9	

Table 8 below contains funding projections based on the December 31, 2020 actuarial valuation of the Cook County Forest Preserve Pension Fund. As shown in the table below, under the current funding policy the Cook County Forest Preserve Pension Fund is projected to run out of assets by 2042 if all future assumptions are met and no additional contributions are made.

TABLE	8
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	Cook County Forest Preserve Pension Fund Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)										
Fiscal Year	Capped Payroll	Total County Contribution	County Contribution As % of Payroll	Total Employee Contribution	Accrued Liability	Actuarial Value of Assets	Unfunded Liabilities	Funded Ratio			
2021	35.6	3.9	11.0%	3.0	355.0	210.0	145.0	59.2%			
2022	36.1	3.8	10.5%	3.1	363.0	214.0	149.0	59.0%			
2023	36.6	4.0	10.9%	3.1	371.0	213.0	157.0	57.4%			
2024	37.2	3.8	10.2%	3.2	378.0	217.0	161.0	57.4%			
2025	37.8	3.9	10.3%	3.2	385.0	215.0	170.0	55.8%			
2026	38.5	3.9	10.1%	3.3	392.0	211.0	181.0	53.8%			
2027	39.2	4.0	10.2%	3.3	398.0	206.0	192.0	51.8%			
2028	40.0	4.1	10.3%	3.4	404.0	200.0	204.0	49.5%			
2029	40.8	4.1	10.0%	3.5	410.0	193.0	217.0	47.1%			
2030	41.7	4.2	10.1%	3.5	415.0	184.0	231.0	44.3%			
2031	42.5	4.3	10.1%	3.6	420.0	175.0	246.0	41.7%			
2032	43.4	4.4	10.1%	3.7	425.0	164.0	262.0	38.6%			
2033	44.4	4.5	10.1%	3.8	430.0	152.0	278.0	35.3%			
2034	45.4	4.6	10.1%	3.9	435.0	138.0	296.0	31.7%			
2035	46.5	4.7	10.1%	4.0	439.0	124.0	316.0	28.2%			
2036	47.6	4.8	10.1%	4.0	444.0	108.0	336.0	24.3%			
2037	48.7	4.9	10.1%	4.1	449.0	91.0	358.0	20.3%			
2038	49.9	5.0	10.0%	4.2	453.0	72.0	382.0	15.9%			
2039	51.0	5.1	10.0%	4.3	458.0	51.0	407.0	11.1%			
2040	52.1	5.2	10.0%	4.4	462.0	29.0	434.0	6.3%			
2041	53.3	5.3	9.9%	4.5	467.0	4.0	462.0	0.9%			
2042	54.6	5.5	10.1%	4.6	471.0	-22.0	493.0	-4.7%			
2043	56.0	5.6	10.0%	4.8	475.0	-51.0	526.0	-10.7%			
2044	57.3	5.7	9.9%	4.9	480.0	-82.0	561.0	-17.1%			
2045	58.7	5.9	10.1%	5.0	484.0	-115.0	599.0	-23.8%			
2046	60.2	6.0	10.0%	5.1	489.0	-151.0	640.0	-30.9%			
2047	61.7	6.1	9.9%	5.2	494.0	-190.0	683.0	-38.5%			
2048	63.3	6.3	10.0%	5.4	499.0	-231.0	730.0	-46.3%			
2049	64.9	6.4	9.9%	5.5	505.0	-275.0	780.0	-54.5%			
2050	66.6	6.6	9.9%	5.7	511.0	-322.0	833.0	-63.0%			
2051	68.3	6.8	10.0%	5.8	518.0	-373.0	891.0	-72.0%			
2052	70.0	7.0	10.0%	5.9	525.0	-427.0	952.0	-81.3%			
2053	71.8	7.1	9.9%	6.1	532.0	-485.0	1,018.0	-91.2%			
2054	73.6	7.3	9.9%	6.3	541.0	-548.0	1,089.0	-101.3%			
2055	75.4	7.5	9.9%	6.4	550.0	-615.0	1,164.0	-111.8%			



V. Fireman's Annuity and Benefit Fund of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Firemen's Annuity and Benefit Fund of Chicago Tier 1 Plan Summary

Retirement Age

- Age 50 with 20 years of service
- Age 50 with 10 years of service (accumulated annuity)
- Mandatory retirement at age 63, except for emergency medical technicians

Retirement Formula

• For employees with 20 or more years of service, 50% of final average salary plus 2.5% of final average salary for each year in excess of 20

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

Prior to P.A. 101-0673, effective April 5, 2021, Tier 1 firefighters born before January 1, 1966, received 3% non-compounded COLA. Those born after January 1, 1966, received 1.5% non-compounded at age 60 or the first anniversary of retirement with 30% maximum. However, P.A. 101-0673 removed the birthdate restriction, such that all firefighters who meet the age and service requirements will receive a 3% non-compounded annual COLA.

Employee Contributions

• 9.125% of salary

Required Employer Contributions

Pursuant to P.A. 99-0506, the employer contributions for payment year 2016 through 2020 are specified as follows: \$199 million in 2016, \$208 million in 2017, \$227 million in 2018, \$235 million in 2019, and \$245 million in 2020. After payment year 2020, the city (employer) is required to make an annual actuarially determined contribution as a level percentage of pay, with a funding goal of 90% by the end of 2055, based upon the actuarial value of fund assets and application of required actuarial assumptions and methodologies.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date for P.A. 96-1495. See P.A. 96-1495 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Firemen's Annuity and Benefit Fund of Chicago Tier 2 Plan Summary (P.A. 96-1495)

Retirement Age

- Age 55 with 10 years of service
- Age 50 with 10 years of service (reduced by 0.5% for each month the participant's is under 55)

Retirement Formula

• 2.5% of final average salary

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

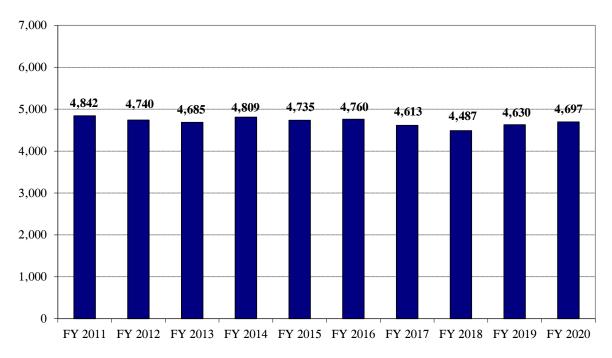
• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 9.125% of salary

Required Employer Contributions

Pursuant to P.A. 99-0506, the employer contributions for payment year 2016 through 2020 are specified as follows: \$199 million in 2016, \$208 million in 2017, \$227 million in 2018, \$235 million in 2019, and \$245 million in 2020. After payment year 2020, the city (employer) is required to make an annual actuarially determined contribution as a level percentage of pay, with a funding goal of 90% by the end of 2055, based upon the actuarial value of fund assets and application of required actuarial assumptions and methodologies.



FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Active Employees

FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Employee Annuitants

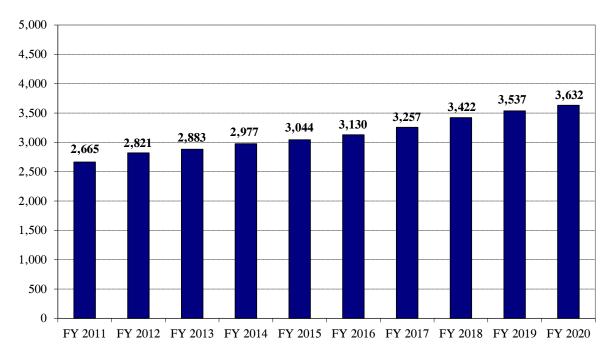
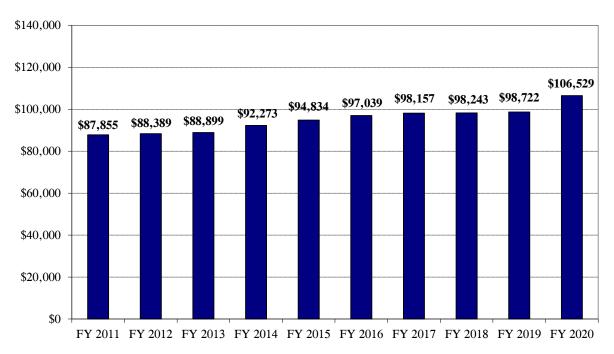
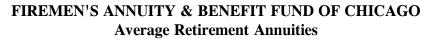


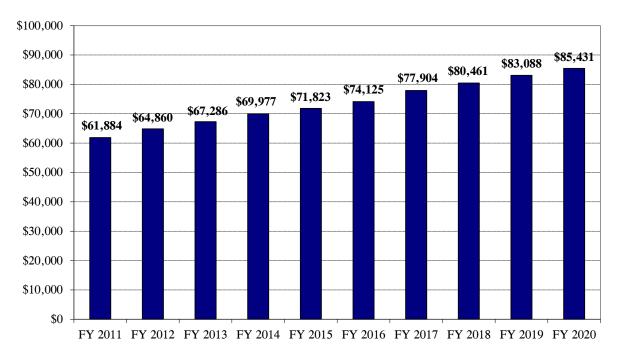
CHART 29

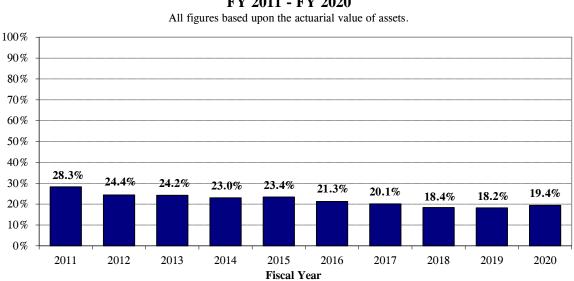


FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Average Employee Salaries

CHART 31



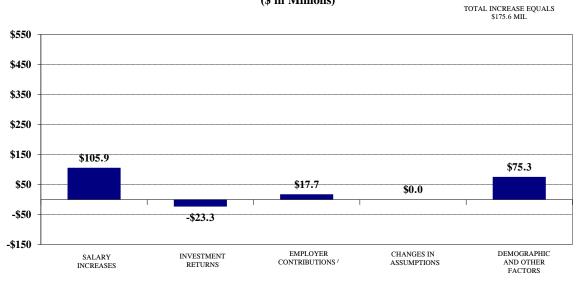




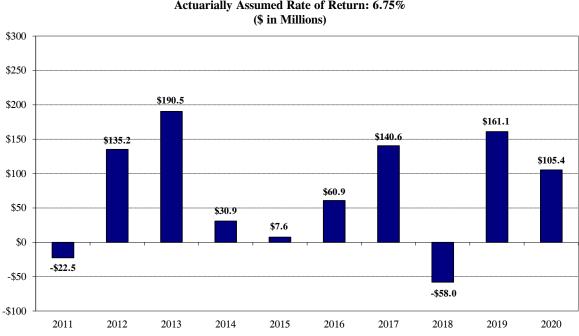
FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Funded Ratio FY 2011 - FY 2020

CHART 33

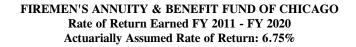


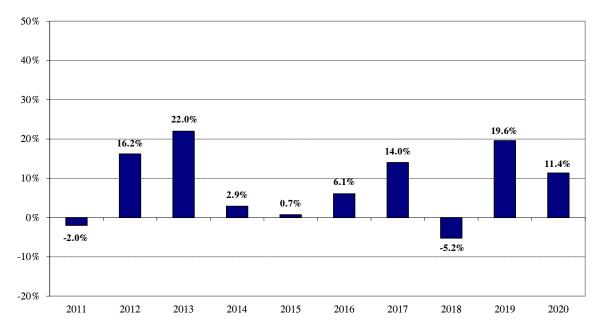


¹ Unfunded liability increases due to employer contributions plus interest being less than normal cost, plus interest.



FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Investment Income FY 2011 - FY 2020 Actuarially Assumed Rate of Return: 6.75% (\$ in Millions)





FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO System Experience, FY 2011 - FY 2020 (\$ in Millions)									
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio				
2020	500.4	6,570.5	1,275.9	5,294.6	19.4%				
2019	457.1	6,256.1	1,137.1	5,119.0	18.2%				
2018	457.0	6,155.9	1,130.4	5,025.5	18.4%				
2017	469.4	5,582.4	1,123.4	4,459.0	20.1%				
2016	478.5	5,045.9	1,074.9	3,971.0	21.3%				
2015	465.2	4,666.8	1,081.0	3,585.8	23.2%				
2014	460.2	4,343.6	988.1	3,355.5	22.7%				
2013	416.5	4,136.4	991.2	3,145.2	24.0%				
2012	419.0	4,066.3	993.3	3,073.0	24.4%				
2011	425.4	3,898.9	1,101.7	2,797.2	28.3%				

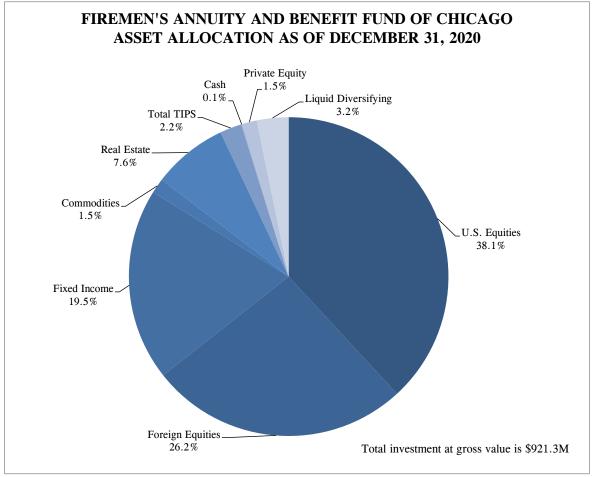
F	FIREMEN'S ANNUITY & BENEFIT FUND OF CHICAGO Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	
Additions to Assets											
Employer	\$369.5	\$255.9	\$249.7	\$228.5	\$156.2	\$238.5	\$109.8	\$106.2	\$84.1	\$85.5	
Employees	\$54.4	\$46.6	\$45.9	\$47.4	\$49.0	\$46.6	\$48.1	\$42.5	\$53.3	\$51.9	
Net Investment Income	\$105.3	\$161.0	-\$58.0	\$140.6	\$60.9	\$7.6	\$30.9	\$190.5	\$135.2	-\$22.4	
Other	\$0.0	\$0.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$0.1	\$3.5	\$0.0	
Total Asset Additions (A)	\$529.2	\$464.2	\$237.6	\$416.4	\$266.0	\$292.6	\$188.7	\$339.2	\$276.1	\$115.0	
Deductions from Assets											
Benefits	\$362.8	\$342.9	\$320.6	\$302.5	\$285.2	\$276.8	\$264.0	\$249.6	\$231.2	\$221.5	
Refunds	\$3.3	\$3.5	\$4.1	\$3.6	\$3.7	\$3.6	\$2.3	\$2.2	\$2.6	\$2.1	
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Administrative Expenses	\$2.9	\$3.2	\$3.3	\$3.2	\$3.2	\$3.1	\$3.1	\$3.1	\$2.5	\$2.5	
Other	\$1.1	\$0.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.1	\$1.2	
Total Asset Deductions (B)	\$370.2	\$350.1	\$327.9	\$309.3	\$292.1	\$283.5	\$269.4	\$254.9	\$237.4	\$227.3	
Change in Net Assets (A-B=C)	\$159.1	\$114.0	-\$90.4	\$107.1	-\$26.1	\$9.1	-\$80.7	\$84.3	\$38.7	-\$112.3	

Table 11 below contains funding projections based on the December 31, 2020 actuarial valuation of the Firemen's Annuity and Benefit Fund of Chicago.

TABLE	11
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				·	t Fund of Chic s as of Decemb s)	0		
Fiscal Year	Capped Payroll	Total City Contribution	Total City Contribution As % of Payroll	Total Employee Contribution	Accrued Liability	Actuarial Value of Assets	Unfunded Liabilities	Funded Ratio
2020	500.4	368.4	73.6%	54.4	6,570.5	1,275.9	5,294.6	19.4%
2021	531.3	367.1	69.1%	48.6	6,725.6	1,384.5	5,341.1	20.6%
2022	545.1	398.6	73.1%	49.9	6,873.6	1,500.9	5,372.7	21.8%
2023	559.8	409.4	73.1%	51.2	7,015.1	1,647.1	5,368.0	23.5%
2024	574.0	419.8	73.1%	52.5	7,149.6	1,776.2	5,373.4	24.8%
2025	584.3	427.3	73.1%	53.5	7,276.2	1,898.2	5,377.9	26.1%
2026	593.1	433.8	73.1%	54.3	7,393.9	2,016.9	5,377.0	27.3%
2027	601.8	440.1	73.1%	55.1	7,503.2	2,133.3	5,369.9	28.4%
2028	612.2	447.7	73.1%	56.0	7,604.6	2,249.5	5,355.1	29.6%
2029	623.6	456.1	73.1%	57.0	7,698.9	2,367.3	5,331.6	30.7%
2030	635.0	464.4	73.1%	58.1	7,786.5	2,487.4	5,299.1	31.9%
2031	645.9	472.4	73.1%	59.1	7,866.7	2,609.8	5,256.9	33.2%
2032	653.1	477.7	73.1%	59.7	7,939.7	2,732.4	5,207.2	34.4%
2033	661.0	483.4	73.1%	60.5	8,006.2	2,856.9	5,149.3	35.7%
2034	667.9	488.4	73.1%	61.1	8,066.6	2,983.0	5,083.6	37.0%
2035	673.5	492.6	73.1%	61.6	8,121.9	3,111.3	5,010.7	38.3%
2036	678.6	496.3	73.1%	62.1	8,172.9	3,242.5	4,930.4	39.7%
2037	683.6	499.9	73.1%	62.5	8,220.5	3,378.1	4,842.4	41.1%
2038	688.6	503.6	73.1%	63.0	8,265.3	3,519.1	4,746.1	42.6%
2039	693.6	507.3	73.1%	63.4	8,307.8	3,666.7	4,641.2	44.1%
2040	698.7	511.0	73.1%	63.9	8,349.1	3,822.2	4,526.9	45.8%
2041	704.3	515.1	73.1%	64.4	8,389.2	3,987.1	4,402.1	47.5%
2042	709.3	518.8	73.1%	64.9	8,428.3	4,161.9	4,266.4	49.4%
2043	714.7	522.7	73.1%	65.4	8,467.0	4,348.3	4,118.7	51.4%
2044	720.3	526.8	73.1%	65.9	8,504.1	4,546.0	3,958.1	53.5%
2045	725.8	530.8	73.1%	66.4	8,538.7	4,755.7	3,783.1	55.7%
2046	732.3	535.5	73.1%	67.0	8,571.3	4,979.4	3,591.9	58.1%
2047	739.2	540.6	73.1%	67.6	8,603.3	5,220.2	3,383.1	60.7%
2048	746.7	546.1	73.1%	68.3	8,636.3	5,480.9	3,155.4	63.5%
2049	754.7	551.9	73.1%	69.0	8,671.5	5,764.3	2,907.2	66.5%
2050	762.7	557.8	73.1%	69.7	8,709.7	6,072.6	2,637.1	69.7%
2051	771.1	563.9	73.1%	70.5	8,750.3	6,406.7	2,343.6	73.2%
2052	779.7	570.2	73.1%	71.3	8,793.9	6,769.7	2,024.3	77.0%
2053	788.4	576.6	73.1%	72.1	8,843.8	7,166.2	1,677.6	81.0%
2054	797.2	583.1	73.1%	72.9	8,901.2	7,598.8	1,302.4	85.4%
2055	806.2	589.6	73.1%	73.7	8,967.0	8,070.3	896.7	90.0%

	Firemen's Annuity and Benefit Fund of Chicago Projected Normal Cost as of December 31, 2020 (\$ in Millions)										
Fiscal Year	Employer's Normal Cost	Employer's Normal Cost as a % of Payroll	Employee Contributions	Employee Contributions as a % of Payroll	Total Normal Cost	Total Normal Cost as a % of Payroll					
2020	60.3	12.0%	54.4	10.9%	114.7	22.9%					
2021	55.2	10.4%	48.6	9.2%	103.8	19.5%					
2022	55.1	10.1%	49.9	9.2%	105.0	19.3%					
2023	55.3	9.9%	51.2	9.2%	106.5	19.0%					
2024	55.7	9.7%	52.5	9.1%	108.2	18.9%					
2025	56.2	9.6%	53.5	9.1%	109.7	18.8%					
2026	56.7	9.6%	54.3	9.1%	111.0	18.7%					
2027	56.8	9.4%	55.1	9.1%	111.9	18.6%					
2028	57.0	9.3%	56.0	9.1%	113.0	18.5%					
2029	57.5	9.2%	57.0	9.1%	114.5	18.4%					
2030	58.1	9.2%	58.1	9.1%	116.2	18.3%					
2031	58.4	9.0%	59.1	9.1%	117.5	18.2%					
2032	58.9	9.0%	59.7	9.1%	118.6	18.2%					
2033	59.6	9.0%	60.5	9.1%	120.1	18.2%					
2034	60.5	9.1%	61.1	9.1%	121.6	18.2%					
2035	61.7	9.2%	61.6	9.1%	123.3	18.3%					
2036	62.8	9.3%	62.1	9.1%	124.9	18.4%					
2037	64.0	9.4%	62.5	9.1%	126.5	18.5%					
2038	65.2	9.5%	63.0	9.1%	128.1	18.6%					
2039	66.4	9.6%	63.4	9.1%	129.9	18.7%					
2040	67.8	9.7%	63.9	9.1%	131.7	18.8%					
2041	68.9	9.8%	64.4	9.1%	133.3	18.9%					
2042	70.0	9.9%	64.9	9.1%	134.8	19.0%					
2043	70.9	9.9%	65.4	9.1%	136.3	19.1%					
2044	71.9	10.0%	65.9	9.1%	137.8	19.1%					
2045	72.3	10.0%	66.4	9.1%	138.6	19.1%					
2046	72.5	9.9%	67.0	9.1%	139.5	19.0%					
2047	72.8	9.8%	67.6	9.1%	140.4	19.0%					
2048	73.2	9.8%	68.3	9.1%	141.5	19.0%					
2049	73.8	9.8%	69.0	9.1%	142.8	18.9%					
2050	74.4	9.8%	69.7	9.1%	144.2	18.9%					
2051	75.1	9.7%	70.5	9.1%	145.6	18.9%					
2052	75.3	9.7%	71.3	9.1%	146.6	18.8%					
2053	75.7	9.6%	72.1	9.1%	147.8	18.7%					
2054	76.9	9.6%	72.9	9.1%	149.8	18.8%					
2055	78.0	9.7%	73.7	9.1%	151.8	18.8%					



VI. Illinois Municipal Retirement Fund

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Illinois Municipal Retirement Fund – Regular Formula Tier 1 Plan Summary

Retirement Age

- Age 60 with 8 or more years of service
- Age 55 with 35 or more years of service
- Age 55 with 8 or more years of service (reduced annuity)

Retirement Formula

- 1.67% of final average salary for each of the first 15 years of service, plus
- 2.0% of final average salary for each year of service in excess of 15

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

• Average of the 4 highest consecutive years within the final 10 years

Annual COLA

• 3% non-compounded

Employee Contributions

• 4.5% of salary. In addition, IMRF members contribute to Social Security.

Employer Contributions

Each IMRF employer makes contributions to individual accounts which, when combined with member contributions and investment income, will be sufficient to provide future benefits for its own employees.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Illinois Municipal Retirement Fund Sheriff's Law Enforcement Personnel Plan (SLEP) Tier 1 Plan Summary

Retirement Age

• Age 50 with 20 or more years of service

Retirement Formula

• 2.5% of final rate of earnings for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Average of the 4 highest consecutive years within the final 10 years

Annual COLA

• 3% non-compounded

Employee Contributions

• 7.5% of salary

Employer Contributions

Each IMRF employer makes contributions to individual accounts which, when combined with member contributions and investment income, will be sufficient to provide future benefits for its own employees.

Note: Benefits shown are for employees hired prior to January 1, 2011, the effective date of P.A. 96-0889 and P.A. 96-1495. See P.A. 96-0889 & P.A. 96-1495 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Illinois Municipal Retirement Fund – Regular Formula Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 or more years of service
- Age 62 with 35 or more years of service
- Age 62 with 10 or more years of service (reduced annuity)

Retirement Formula

- 1.67% of final average salary for each of the first 15 years of service, plus
- 2.0% of final average salary for each year of service in excess of 15

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

• Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 4.5% of salary. In addition, IMRF members contribute to Social Security.

Employer Contributions

Each IMRF employer makes contributions to individual accounts which, when combined with member contributions and investment income, will be sufficient to provide future benefits for its own employees.

Illinois Municipal Retirement Fund Sheriff's Law Enforcement Personnel Plan (SLEP) Tier 2 Plan Summary (P.A. 96-1495)

Retirement Age

- Age 55 with 10 or more years of service
- Age 50 with 10 or more years of service (reduced annuity)

Retirement Formula

• 2.5% of final rate of earnings for each year of service

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

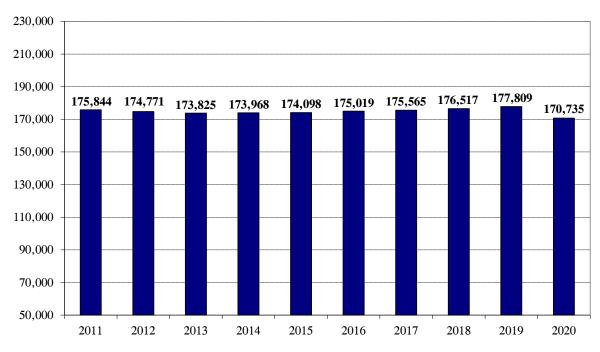
• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 7.5% of salary

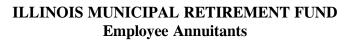
Employer Contributions

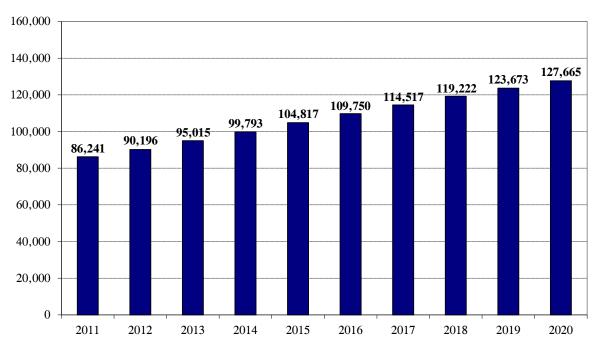
Each IMRF employer makes contributions to individual accounts which, when combined with member contributions and investment income, will be sufficient to provide future benefits for its own employees.

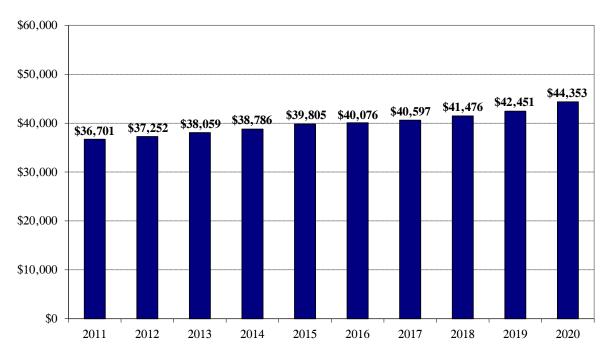


ILLINOIS MUNICIPAL RETIREMENT FUND Active Employees

CHART 38



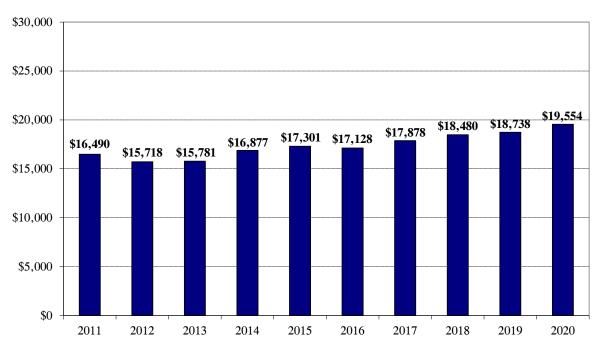


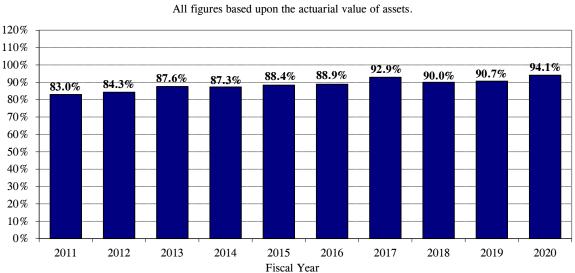


ILLINOIS MUNICIPAL RETIREMENT FUND Average Employee Salaries

CHART 40





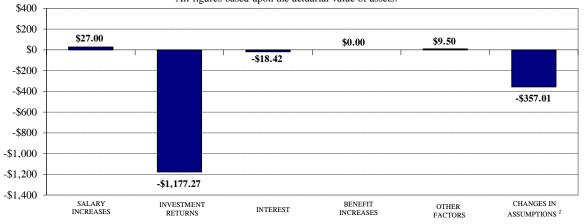


ILLINOIS MUNICIPAL RETIREMENT FUND Funded Ratio FY 2011 - FY 2020

CHART 42

ILLINOIS MUNICIPAL RETIREMENT FUND Change in Unfunded Liabilities Year ended December 31, 2020 (\$ in Millions) All figures based upon the actuarial value of assets.

TOTAL DECREASE EQUALS \$1,516.2 MIL



¹ Based on the IMRF Triennial Experience Study released on December 14, 2020, the Society of Actuaries (SOA) released updated mortality tables (Pub-2010 mortality tables) for public sector retirement systems to reflect decreasing mortality rates among retirees from the public sector. As a result of the Triennial Experience Study, IMRF changed some of their actuarial assumptions. The primary change came from "adopting the Pub-2010, amount weighted, general mortality tables for retirees and active members."

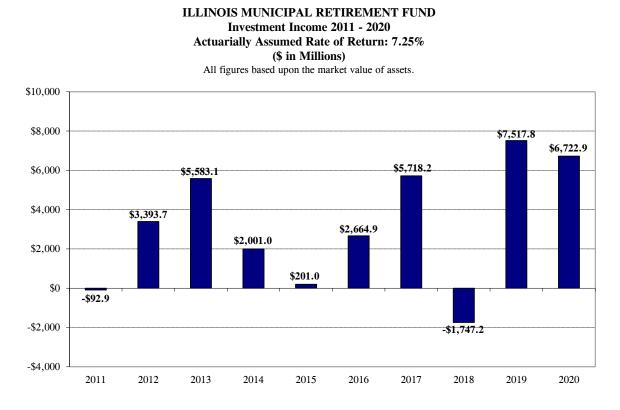
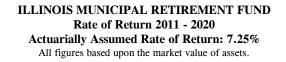


CHART 44



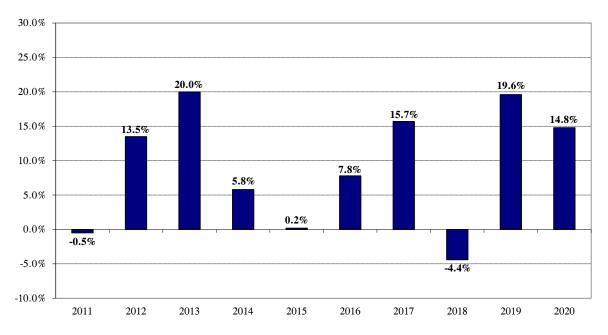
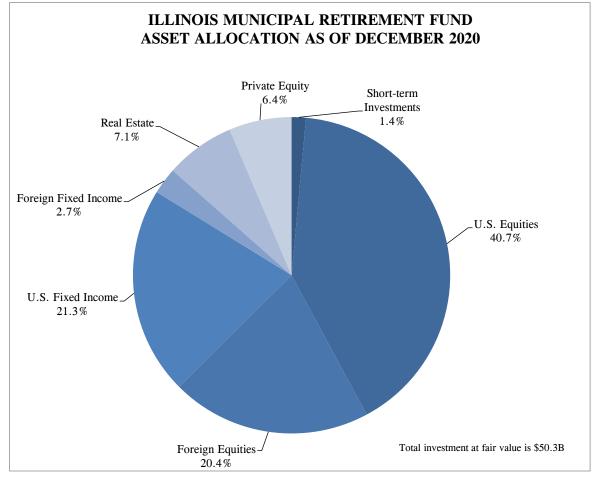


TABLE 13

ILLINOIS MUNICIPAL RETIREMENT FUND											
	System Experience, FY 2011 - FY 2020										
(\$ in Millions)											
Fiscal	cal Annual Payroll Actuarial Actuarial Unfunded Funded Rational Actuarial Actuaria										
Year	Alliual Fayloli	Liabilities	Assets	Liabilities	Funded Katio						
2020	7,568.2	48,922.9	46,017.4	2,905.5	94.1%						
2019	7,547.5	47,357.9	42,936.2	4,421.7	90.7%						
2018	7,321.5	45,354.1	40,830.0	4,524.1	90.0%						
2017	7,127.5	42,179.5	39,187.8	2,991.7	92.9%						
2016	7,006.7	41,358.7	36,773.4	4,585.3	88.9%						
2015	6,919.3	39,486.6	34,913.1	4,573.4	88.4%						
2014	6,732.5	37,465.1	32,700.2	4,764.9	87.3%						
2013	6,602.5	34,356.6	30,083.0	4,273.5	87.6%						
2012	6,496.1	32,603.2	27,491.8	5,111.4	84.3%						
2011	6,431.3	30,962.8	25,711.3	5,251.5	83.0%						

ILLINOIS MUNICIPAL RETIREMENT FUND Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	927.6	780.1	947.6	\$903.5	\$933.9	\$900.5	\$923.4	\$931.0	\$883.2	\$800.8
Employees	449.7	437.9	413.9	\$393.7	\$380.4	\$368.0	\$351.1	\$338.9	\$330.8	\$327.7
Total Investment Income	\$6,722.9	\$7,517.8	-\$1,747.2	\$5,718.2	\$2,664.9	\$200.7	\$2,001.4	\$5,583.1	\$3,393.7	-\$92.9
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.5	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Additions (A)	\$8,100.2	\$8,735.9	-\$385.7	\$7,015.5	\$3,979.2	\$1,469.7	\$3,275.9	\$6,853.0	\$4,607.7	\$1,035.6
Deductions from Assets										
Benefits	\$2,494.3	\$2,347.2	\$2,195.0	\$2,043.6	\$1,902.1	\$1,758.2	\$1,626.8	\$1,503.4	\$1,389.8	\$1,284.4
Refunds	\$52.2	\$51.4	\$48.0	\$42.6	\$37.7	\$36.7	\$39.2	\$36.9	\$34.1	\$32.9
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$31.8	\$38.4	\$32.2	\$31.0	\$37.6	\$28.7	\$26.4	\$25.5	\$24.5	\$23.1
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$2,578.3	\$2,437.0	\$2,275.2	\$2,117.2	\$1,977.4	\$1,823.6	\$1,692.4	\$1,565.8	\$1,448.4	\$1,340.4
Change in Net Assets (A-B=C)	\$5,521.9	\$6,298.9	-\$2,660.9	\$4,898.3	\$2,001.8	-\$354.0	\$1,583.5	\$5,287.2	\$3,159.3	-\$304.8



VII. Laborers' Annuity and Benefit Fund of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Normal Cost Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Laborers' Annuity and Benefit Fund of Chicago Tier 1 Plan Summary

Retirement Age

- Age 60 with 10 years of service
- Age 55 with 20 years of service
- Age 50 with at least 30 years of service
- Age 55 with 10 years of service (money purchase)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

■ 3% compounded

Employee Contributions

• 8.5% of salary

Required Employer Contributions

Pursuant to P.A. 100-0023, the required employer contributions for payment year 2018 through 2022 are specified as follows: \$36 million in 2018, \$48 million in 2019, \$60 million in 2020, \$72 million in 2021, and \$84 million in 2022. After the payment year 2022, the City of Chicago is required to contribute an amount equal to the sum of the net employer normal cost and an amortization of the unfunded liability as a level percent of payroll so that the funded ratio reaches 90% by 2058.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0899 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Laborers' Annuity and Benefit Fund of Chicago Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 8.5% of salary

Required Employer Contributions

Pursuant to P.A. 100-0023, the required employer contributions for payment year 2018 through 2022 are specified as follows: \$36 million in 2018, \$48 million in 2019, \$60 million in 2020, \$72 million in 2021, and \$84 million in 2022. After the payment year 2022, the City of Chicago is required to contribute an amount equal to the sum of the net employer normal cost and an amortization of the unfunded liability as a level percent of payroll so that the funded ratio reaches 90% by 2058.

Laborers' Annuity and Benefit Fund of Chicago Tier 3 Plan Summary (P.A. 100-0023)

* Tier 3 members are those who are hired on or after July 6, 2017 or Tier 2 members who made an irrevocable election to participate in the Tier 3 plan. Please see P.A. 100-0023 in Section I for more information.

Retirement Age

- Age 65 with 10 years of service
- Age 60 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

Highest 96 consecutive months of service within the last 120 months of service Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

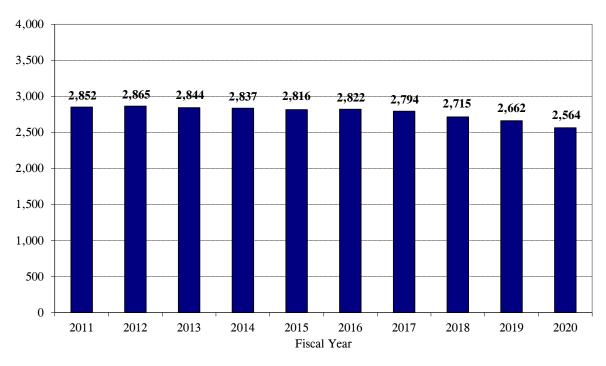
• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

- Lesser of 11.5% or normal cost (subject to minimum rate of 8.5%)
- When the funding ratio becomes 90%, employee contributions will decrease to 7.5% and stay at 7.5%, unless the funding ratio falls below 75%.

Required Employer Contributions

Pursuant to P.A. 100-0023, the required employer contributions for payment year 2018 through 2022 are specified as follows: \$36 million in 2018, \$48 million in 2019, \$60 million in 2020, \$72 million in 2021, and \$84 million in 2022. After the payment year 2022, the City of Chicago is required to contribute an amount equal to the sum of the net employer normal cost and an amortization of the unfunded liability as a level percent of payroll so that the funded ratio reaches 90% by 2058.



LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Active Employees

LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Employee Annuitants

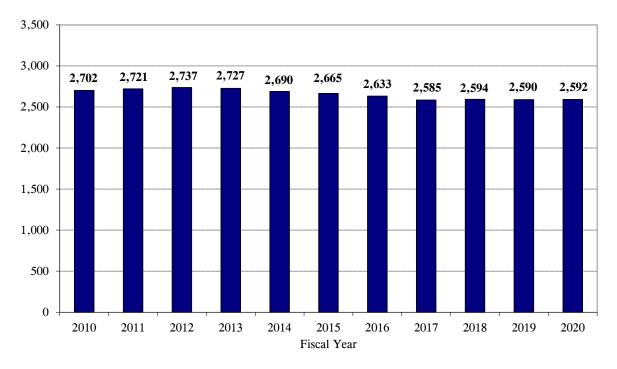
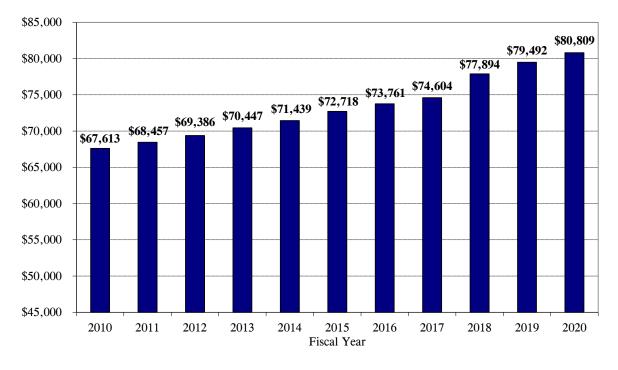


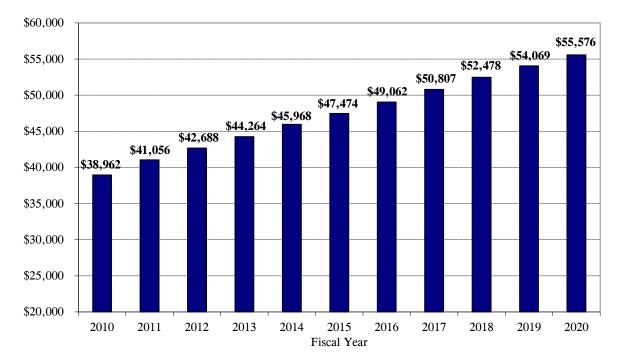
CHART 47

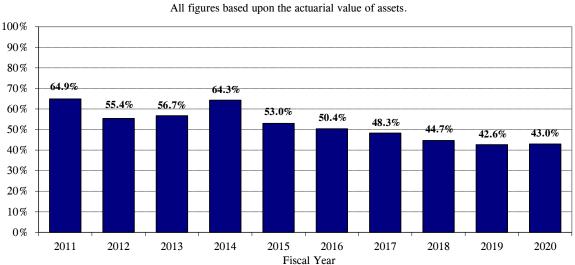


LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Average Employee Salaries

CHART 49

LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Average Retirement Annuities



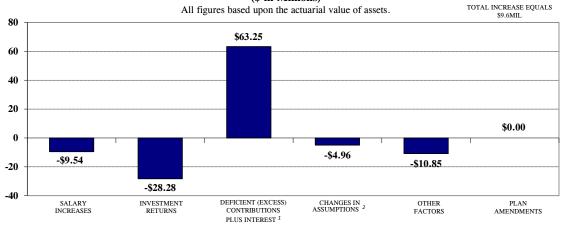


FY 2011 - FY 2020 All figures based upon the actuarial value of assets.

LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Funded Ratio

CHART 51

LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Change in Unfunded Liabilities Year ended December 31, 2020 (\$ in Millions)



¹ Unfunded liability increased due to employer contributions plus interest being less than normal cost plus interest. ² Unfunded liability decreased due to the net effect of changes in actuarial assumptions as a result of the experience study. Some of main changes include an increase in salary increase rates and updates on post-retirement mortality tables as well as a decrease in retirement rates and turnover rates.

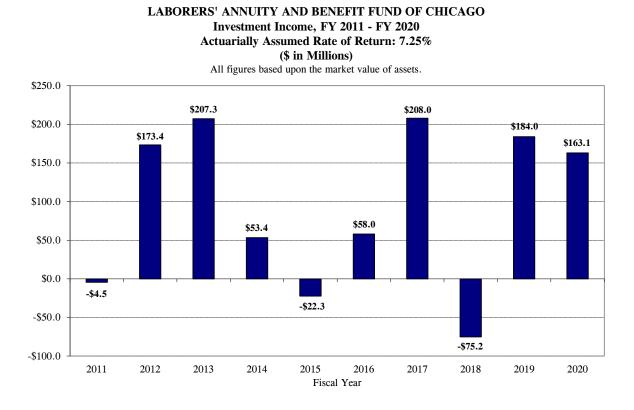


CHART 53

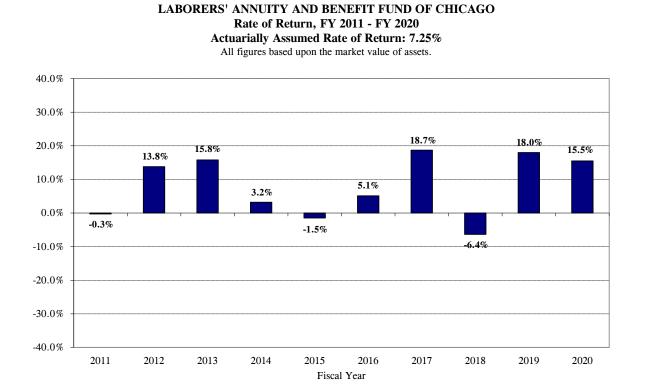


TABLE 15

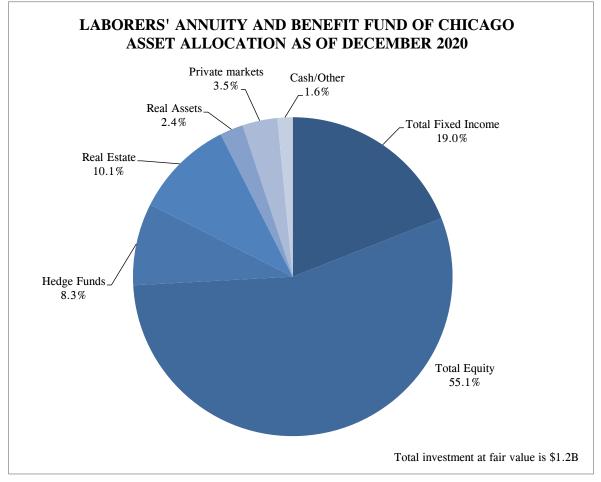
LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO System Experience, 2011 - 2020 (\$ in Millions) Actuarial Unfunded Fiscal Actuarial Annual Payroll Funded Ratio Liabilities Year Liabilities Assets 2020 207.2 43.0% 2,735.5 1,175.4 1,560.0 2019 211.6 2,701.9 1,151.5 1,550.4 42.6% 2018 211.5 2,652.9 1,185.3 44.7% 1,467.6 2017 208.4 2,578.7 1,245.1 1,333.6 48.3% 2016 208.2 2,509.3 1,263.7 1,245.6 50.4% 2015 204.8 2,469.9 1,308.7 1,161.2 53.0% 2014 202.7 1,357.5 754.3 64.3% 2,111.7 2013 200.4 2,390.6 1,354.3 1,036.3 56.7% 2012 198.8 2,374.8 1,315.9 1,058.9 55.4% 2011 195.2 2,191.2 1,422.4 768.8 64.9%

LABORERS' ANNUITY AND BENEFIT FUND OF CHICAGO Changes in Net Assets (\$ in Millions)											
Fiscal Year		2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets											
Employer	\$	73.7	\$59.3	\$48.5	\$35.5	\$14.4	\$14.6	\$14.5	\$14.1	\$14.4	\$15.3
Employees	\$	18.1	\$18.1	\$17.8	\$17.4	\$17.2	\$16.8	\$16.4	\$16.4	\$16.6	\$16.1
Net Investment Income	\$	162.9	\$183.7	-\$75.4	\$207.7	\$57.7	-\$22.8	\$52.9	\$206.7	\$172.6	-\$5.1
Other	\$	0.14	\$0.3	\$0.2	\$0.2	\$0.3	\$0.4	\$0.5	\$0.6	\$0.8	\$0.6
Total Asset Additions (A)	\$	254.9	\$261.5	-\$8.9	\$260.8	\$89.7	\$9.1	\$84.3	\$237.8	\$204.4	\$26.9
Deductions from Assets											
Benefits	\$	165.4	\$162.1	\$157.3	\$154.8	\$153.8	\$152.2	\$147.9	\$144.3	\$139.7	\$133.5
Refunds	\$	3.6	\$2.8	\$2.7	\$2.3	\$2.8	\$2.5	\$2.1	\$2.9	\$2.6	\$3.0
Rebates		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$	3.6	\$3.7	\$3.9	\$4.0	\$4.1	\$3.8	\$3.8	\$4.1	\$4.7	\$4.0
Other		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$	172.7	\$168.7	\$163.9	\$161.0	\$160.6	\$158.5	\$153.9	\$151.3	\$147.0	\$140.5
Change in Net Assets (A-B=C)	\$	82.2	\$92.9	-\$172.9	\$99.8	-\$70.9	-\$149.4	-\$69.6	\$86.5	\$57.4	-\$113.6

Table 17 below contains funding projections based on the December 31, 2020 actuarial valuation of the Laborers' and Retirement Board Employees' Annuity and Benefit Fund of Chicago.

	Laborers' Annuity and Benefit Fund of Chicago Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)									
Fiscal Year	Capped Payroll	Total Employer Contribution	Employer Contribution As % of Payroll	Employee Contribution	Total Actuarial Liability	Actuarial Value of Assets	Unfunded Actuarial Liability	Funded Ratio		
2020	207.2	73.7	35.6%	18.1	2,735.5	1,175.4	1,560.0	43.0%		
2021	209.1	84.0	40.2%	16.9	2,786.4	1,209.3	1,577.1	43.4%		
2022	213.1	116.5	54.7%	17.5	2,834.7	1,245.9	1,588.8	44.0%		
2023	217.2	118.3	54.5%	18.0	2,881.4	1,313.7	1,567.7	45.6%		
2024	221.6	120.1	54.2%	18.6	2,926.0	1,357.7	1,568.3	46.4%		
2025	226.3	122.0	53.9%	19.3	2,968.1	1,383.1	1,584.9	46.6%		
2026	231.0	123.8	53.6%	19.9	3,006.9	1,406.2	1,600.7	46.8%		
2027	235.9	125.7	53.3%	20.6	3,041.9	1,426.5	1,615.4	46.9%		
2028	241.2	127.7	53.0%	21.4	3,072.7	1,443.8	1,628.9	47.0%		
2029	246.5	129.8	52.6%	22.2	3,098.6	1,457.6	1,641.0	47.0%		
2029	252.2	131.9	52.3%	23.1	3,119.1	1,467.6	1,651.5	47.1%		
2030	258.4	134.3	52.0%	23.1	3,135.3	1,475.2	1,660.1	47.1%		
2031	264.6	136.7	51.7%	24.0	3,146.5	1,480.0	1,666.6	47.1%		
2032	270.2	138.9	51.4%	24.8	3,152.4	1,480.0	1,671.0	47.0%		
2033 2034	276.0	138.9	51.1%	25.7	3,152.4	1,481.4	1,673.3	47.0%		
2034	270.0 282.1	141.1	50.9%	20.0	3,155.5	1,480.0	1,673.1	46.9%		
2036	288.1	145.9	50.6%	28.3	3,143.0	1,472.8	1,670.2	46.9%		
2037	294.1	148.4	50.4%	29.2	3,133.0	1,468.5	1,664.5	46.9%		
2038	299.8	150.7	50.2%	30.0	3,120.1	1,464.3	1,655.8	46.9%		
2039	305.6	153.0	50.1%	30.8	3,104.5	1,460.4	1,644.0	47.0%		
2040	311.8	155.6	49.9%	31.6	3,087.2	1,458.5	1,628.7	47.2%		
2041	318.2	158.3	49.8%	32.4	3,069.6	1,460.1	1,609.4	47.6%		
2042	324.5	161.0	49.6%	33.2	3,052.4	1,466.3	1,586.1	48.0%		
2043	330.8	163.8	49.5%	34.0	3,036.2	1,478.0	1,558.3	48.7%		
2044	337.1	166.6	49.4%	34.7	3,021.8	1,496.1	1,525.7	49.5%		
2045	343.0	169.2	49.3%	35.5	3,009.2	1,521.0	1,488.2	50.5%		
2046	349.4	172.0	49.2%	36.2	2,998.9	1,553.6	1,445.2	51.8%		
2047	355.7	174.9	49.2%	37.0	2,991.4	1,595.1	1,396.4	53.3%		
2048	362.1	177.7	49.1%	37.7	2,987.3	1,646.0	1,341.2	55.1%		
2049	368.6	180.7	49.0%	38.5	2,986.8	1,707.5	1,279.2	57.2%		
2050	375.2	183.7	49.0%	39.2	2,990.1	1,780.2	1,209.9	59.5%		
2051	381.6	186.6	48.9%	39.9	2,996.6	1,863.9	1,132.7	62.2%		
2052	388.3	189.7	48.9%	40.7	3,006.0	1,958.9	1,047.1	65.2%		
2053	395.1	192.9	48.8%	41.5	3,018.2	2,065.9	952.3	68.4%		
2054	402.1	196.1	48.8%	42.3	3,033.2	2,185.7	847.6	72.1%		
2055	409.4	199.5	48.7%	43.2	3,051.3	2,319.2	732.1	76.0%		
2056	416.8	203.0	48.7%	44.1	3,072.5	2,467.4	605.0	80.3%		
2057	424.4	206.6	48.7%	45.0	3,097.3	2,631.9	465.5	85.0%		
2058	432.1	210.2	48.6%	45.8	3,125.8	2,813.3	312.5	90.0%		
2059	439.9	39.1	8.9%	46.6	3,157.8	2,842.0	315.8	90.0%		
2060	447.9	39.4	8.8%	47.4	3,193.8	2,874.5	319.4	90.0%		
2061	455.6	39.6	8.7%	48.2	3,233.1	2,909.8	323.3	90.0%		
2061	463.0	58.0	12.5%	31.9	3,274.8	2,947.3	327.5	90.0 <i>%</i>		
2062	405.0	58.6	12.5%	32.4	3,318.8	2,986.9	331.9	90.0 <i>%</i>		
2063	476.7	59.3	12.4%	32.4	3,364.9	3,028.4	336.5	90.0 <i>%</i>		
2004 2065	470.7	60.0	12.4%	33.3	3,304.9	3,071.5	341.3	90.0 <i>%</i>		
2003	489.3	60.7	12.4%	33.8	3,412.7	3,115.9	341.3	90.0 <i>%</i>		
		60.7 61.4		33.8 34.2		3,161.5				
2067	495.6		12.4%		3,512.8		351.3	90.0%		
2068 2069	501.8 508.0	62.2 63.0	12.4% 12.4%	34.6 35.1	3,564.6 3,617.2	3,208.1 3,255.5	356.5 361.7	90.0% 90.0%		

Laborers' Annuity and Benefit Fund of Chicago Projected Normal Cost as of December 31, 2020 (\$ in Millions)									
Fiscal Year	Employer's Normal Cost	Employer's Normal Cost as a % of Payroll	Employee Contributions	Employee Contributions as a % of Payroll	Total Normal Cost	Total Normal Cost as a % of Payroll			
2020	22.3	10.8%	18.1	8.7%	40.4	19.5%			
2021	22.0	10.5%	16.9	8.1%	38.9	18.6%			
2022	21.7	10.2%	17.5	8.2%	39.2	18.4%			
2023	21.6	10.0%	18.0	8.3%	39.6	18.3%			
2024	21.5	9.7%	18.6	8.4%	40.1	18.1%			
2025	21.3	9.4%	19.3	8.5%	40.5	17.9%			
2026	21.1	9.1%	19.9	8.6%	41.0	17.7%			
2027	20.8	8.8%	20.6	8.8%	41.4	17.6%			
2028	20.0	8.5%	20.0	8.9%	41.9	17.4%			
2028	20.4	8.1%	21.4	8.9 <i>%</i> 9.0%	41.9	17.4%			
2029	20.1 19.7	8.1 <i>%</i> 7.8%	22.2	9.0% 9.1%	42.3	17.2%			
2031	19.4	7.5%	24.0	9.3%	43.3	16.8%			
2032	19.0	7.2%	24.8	9.4%	43.9	16.6%			
2033	18.7	6.9%	25.7	9.5%	44.4	16.4%			
2034	18.3	6.6%	26.6	9.6%	44.9	16.3%			
2035	18.0	6.4%	27.5	9.7%	45.5	16.1%			
2036	17.7	6.2%	28.3	9.8%	46.1	16.0%			
2037	17.5	5.9%	29.2	9.9%	46.7	15.9%			
2038	17.3	5.8%	30.0	10.0%	47.2	15.8%			
2039	17.0	5.6%	30.8	10.1%	47.8	15.6%			
2040	16.8	5.4%	31.6	10.1%	48.4	15.5%			
2041	16.7	5.3%	32.4	10.2%	49.2	15.5%			
2042	16.7	5.1%	33.2	10.2%	49.9	15.4%			
2043	16.7	5.0%	34.0	10.3%	50.6	15.3%			
2044	16.6	4.9%	34.7	10.3%	51.4	15.2%			
2045	16.6	4.8%	35.5	10.3%	52.1	15.2%			
2046	16.6	4.7%	36.2	10.4%	52.8	15.1%			
2040	16.6	4.7%	37.0	10.4%	53.6	15.1%			
2048	16.6	4.6%	37.7	10.4%	54.3	15.0%			
2049	16.7	4.5%	38.5	10.4%	55.1	15.0%			
2050	16.8	4.5%	39.2	10.4%	56.0	14.9%			
2051	16.9	4.4%	39.9	10.5%	56.7	14.9%			
2052	17.0	4.4%	40.7	10.5%	57.7	14.9%			
2053	17.1	4.3%	41.5	10.5%	58.6	14.8%			
2054	17.2	4.3%	42.3	10.5%	59.6	14.8%			
2055	17.4	4.3%	43.2	10.5%	60.6	14.8%			
2056	17.6	4.2%	44.1	10.6%	61.7	14.8%			
2057	17.8	4.2%	45.0	10.6%	62.7	14.8%			
2058	17.9	4.2%	45.8	10.6%	63.8	14.8%			
2059	19.2	4.4%	45.6	10.4%	64.9	14.7%			
2060	18.5	4.1%	47.4	10.6%	66.0	14.7%			
2061	18.8	4.1%	48.2	10.6%	67.0	14.7%			
2062	36.1	7.8%	31.9	6.9%	68.0	14.7%			
2062	36.6	7.8%	31.9	6.9%	69.1	14.7%			
2064	37.1	7.8%	32.9	6.9%	70.0	14.7%			
2065	37.6	7.8%	33.3	6.9%	71.0	14.7%			
2066	38.1	7.8%	33.8	6.9%	71.9	14.7%			
2067	38.6	7.8%	34.2	6.9%	72.8	14.7%			
2068	39.1	7.8%	34.6	6.9%	73.7	14.7%			
2069	39.6	7.8%	35.1	6.9%	74.7	14.7%			



VIII. Metropolitan Water Reclamation District Retirement Fund

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Metropolitan Water Reclamation District Retirement Fund -Tier 1 Plan Summary

Retirement Age

- Age 60 with 5 years of service
- Age 55 with 10 years of service (Age 50 if hired before 6/13/97) (reduced annuity)

Retirement Formula

- 2.2% of final average salary for the first 20 years of service, plus
- 2.4% of final average salary for each year in excess of 20

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Any 52 consecutive pay periods within the final 10 years of service

Annual COLA

■ 3% compounded

Employee Contributions (as modified by P.A. 97-0894)

Beginning on January 1, 2015, the Tier 1 employee contribution rate has increased to 12% of salary, where it will remain until the MWRD pension fund reaches a 90% funded ratio. Upon attainment of a 90% funding ratio, the member contribution rate will revert back to 9%. These changes to the Tier 1 employee contribution rate were made by HB 4513 (P.A. 97-0894), which became effective on August 3rd, 2012. Tier 2 employees contribute 9.0% of salary (unchanged by P.A. 97-0894).

Employer Contributions (as modified by P.A. 97-0894)

The District levies a tax annually that is the level percentage of payroll necessary to reach a 90% funding level by FY 2050. However, no annual levy shall exceed the total amount of contributions made by employees in the calendar year 2 years prior to the year of the levy, multiplied by 4.19.

Note: Benefits shown on this page are for employees hired prior to January 1, 2011 (Tier 1 employees). Tier 1 and Tier 2 employee contribution rates are shown here so as to distinguish the changes made to Tier 1 contribution rates as a result of P.A. 97-0894. For a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees), see P.A. 96-0889 in Section I.

Metropolitan Water Reclamation District Retirement Fund -Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

- 1.67% of final average salary for each of the first 15 years of service, plus
- 2.0% of final average salary for each year of service in excess of 15

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

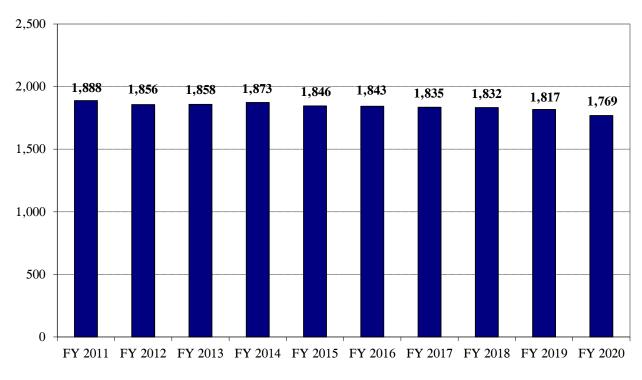
• Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 9% of salary

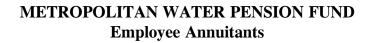
Employer Contributions (as modified by P.A. 97-0894)

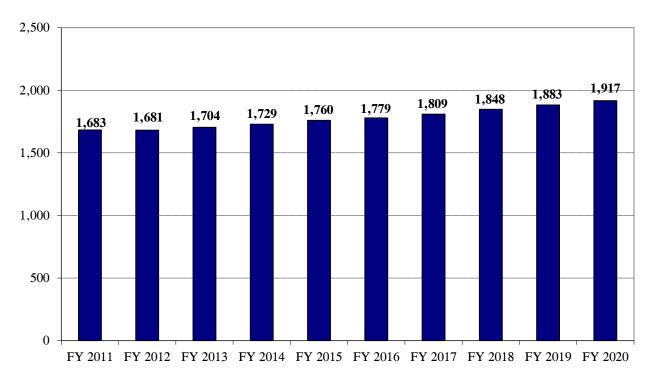
The District levies a tax annually that is the level percentage of payroll necessary to reach a 90% funding level by FY 2050. However, no annual levy shall exceed the total amount of contributions made by employees in the calendar year 2 years prior to the year of the levy, multiplied by 4.19.

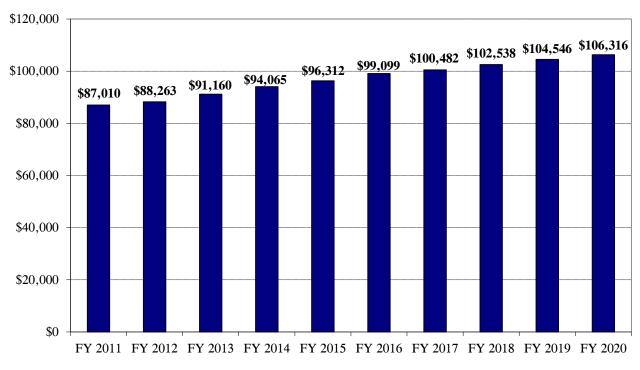


METROPOLITAN WATER PENSION FUND Active Employees

CHART 56



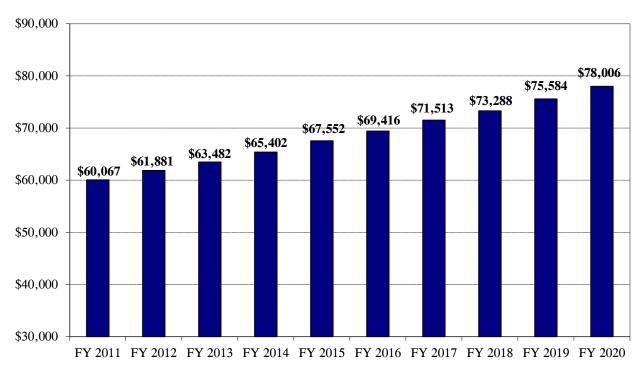


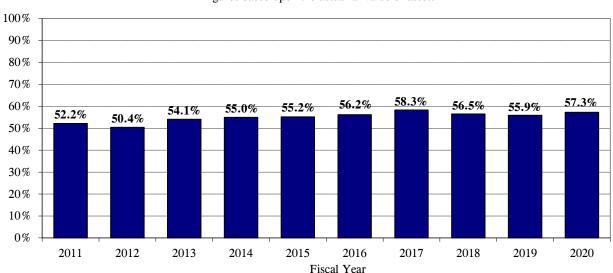


METROPOLITAN WATER PENSION FUND Average Employee Salaries

CHART 58

METROPOLITAN WATER PENSION FUND Average Retirement Annuities



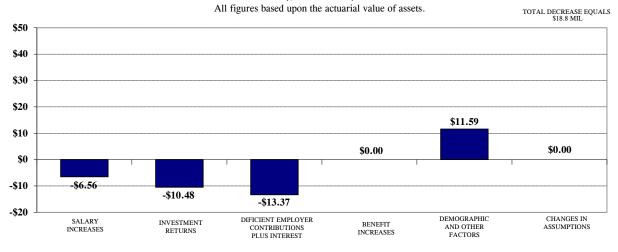


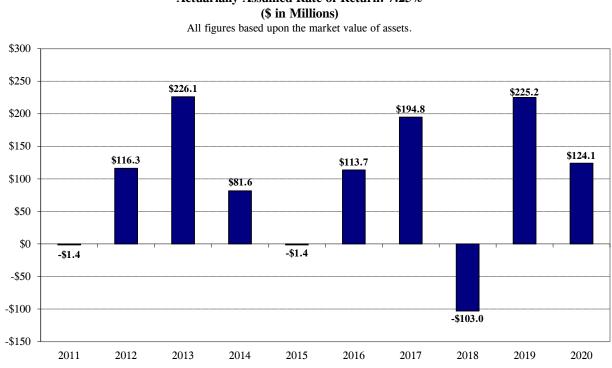
METROPOLITAN WATER PENSION FUND Funded Ratio FY 2011 - FY 2020

All figures based upon the actuarial value of assets.

CHART 60

METROPOLITAN WATER PENSION FUND Change in Unfunded Liabilities Year ended December 31, 2020 (\$ in Millions)

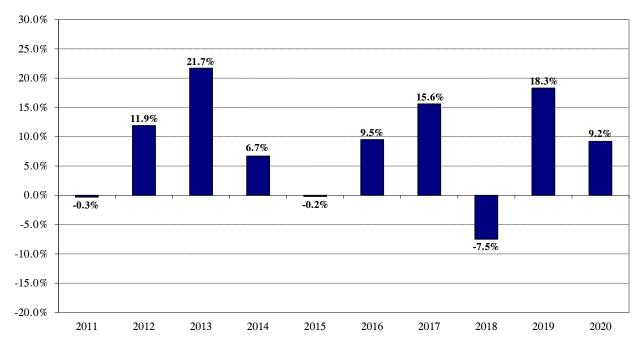




METROPOLITAN WATER PENSION FUND Investment Income 2011 - 2020 Actuarially Assumed Rate of Return: 7.25% (f in Millione)

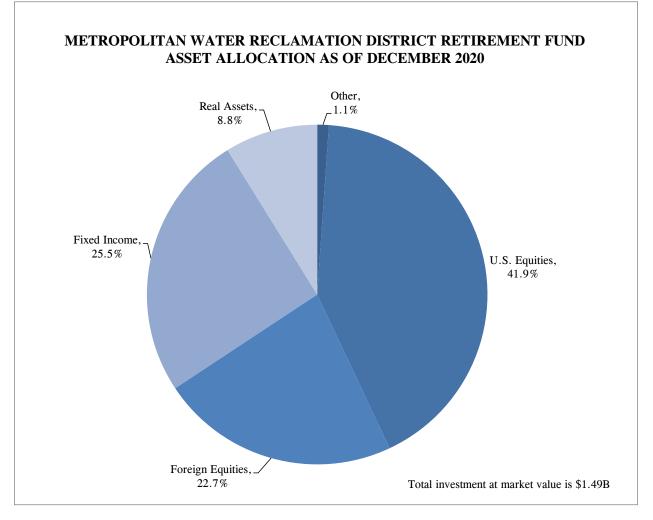
CHART 62

METROPOLITAN WATER PENSION FUND Rate of Return FY 2011 - FY 2020 Actuarially Assumed Rate of Return: 7.25% All figures based upon the market value of assets.



	METROPOLITAN WATER PENSION FUND System Experience, 2011 - 2020 (\$ in Millions)										
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio						
2020	188.1	2,714.2	1,556.1	1,158.1	57.3%						
2019	190.0	2,666.2	1,489.3	1,177.0	55.9%						
2018	187.8	2,601.2	1,470.3	1,130.9	56.5%						
2017	184.4	2,497.9	1,456.2	1,041.7	58.3%						
2016	182.6	2,443.3	1,372.4	1,070.9	56.2%						
2015	177.8	2,371.0	1,308.0	1,063.0	55.2%						
2014	176.2	2,296.4	1,263.3	1,033.1	55.0%						
2013	169.4	2,194.9	1,188.5	1,006.4	54.1%						
2012	163.8	2,136.5	1,076.7	1,059.8	50.4%						
2011	164.3	2,101.3	1,097.4	1,003.9	52.2%						

	METROPOLITAN WATER PENSION FUND Changes in Net Assets									
(\$ in Millions)										
Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	\$107.9	\$87.4	\$87.2	\$89.9	\$80.3	\$71.0	\$73.9	\$92.9	\$65.1	\$37.4
Employees	\$21.0	\$21.2	\$21.0	\$20.8	\$20.8	\$21.4	\$19.0	\$16.9	\$14.7	\$15.0
Net Investment Income	\$124.1	\$225.2	-\$103.0	\$194.8	\$113.6	-\$1.4	\$81.6	\$226.1	\$116.3	-\$1.4
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Additions (A)	\$252.9	\$333.8	\$5.2	\$305.5	\$214.8	\$91.0	\$174.5	\$335.9	\$196.1	\$51.0
Deductions from Assets										
Benefits	\$175.0	\$167.5	\$159.6	\$152.2	\$145.3	\$139.2	\$132.9	\$127.2	\$122.7	\$118.1
Refunds	\$2.3	\$1.8	\$1.8	\$2.6	\$2.0	\$1.3	\$1.0	\$1.1	\$1.2	\$2.7
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$1.6	\$1.6	\$1.7	\$1.6	\$1.5	\$1.7	\$1.4	\$1.4	\$1.3	\$1.4
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$178.9	\$171.0	\$163.0	\$156.3	\$148.8	\$142.2	\$135.3	\$129.7	\$125.2	\$122.2
Change in Net Assets (A-B=C)	\$74.1	\$162.8	-\$157.8	\$149.2	\$65.9	-\$51.1	\$39.2	\$206.2	\$70.9	-\$71.2



IX.Municipal Employees' Annuity and Benefit Fund of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- Systems Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Municipal Employees' Annuity and Benefit Fund of Chicago – Tier 1 Plan Summary

Retirement Age

- Age 60 with 10 years of service
- Age 55 with 20 years of service
- Age 50 with at least 30 years of service
- Age 55 with 10 years of service (money purchase)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

• 3% compounded

Employee Contributions

• 8.5% of salary

Required Employer Contributions

Pursuant to P.A. 100-0023, the required employer contributions for payment years 2018 through 2022 are specified as follows: \$266 million in 2018, \$344 million in 2019, \$421 million in 2020, \$499 million in 2021, and \$576 million in 2022. After the payment year 2022, the required employer contributions are calculated as a level percent of payroll sufficient to bring the funded ratio up to 90% by 2058.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Municipal Employees' Annuity and Benefit Fund of Chicago – Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 8.5% of salary

Required Employer Contributions

Pursuant to P.A. 100-0023, the required employer contributions for payment year 2018 through 2022 are specified as follows: \$266 million in 2018, \$344 million in 2019, \$421 million in 2020, \$499 million in 2021, and \$576 million in 2022. After the payment year 2022, the required employer contributions are calculated as a level percent of payroll sufficient to bring the funded ratio up to 90% by 2058.

Municipal Employees' Annuity and Benefit Fund of Chicago – Tier 3 Plan Summary

*Tier 3 members are those who are hired on or after July 6, 2017 or Tier 2 members who made an irrevocable election to participate in the Tier 3 plan. Please see P.A. 100-0023 in Section I for more information.

Retirement Age

- Age 65 with 10 years of service
- Age 60 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary for each year of service

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

 Highest 96 consecutive months of service within the last 120 months of service Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

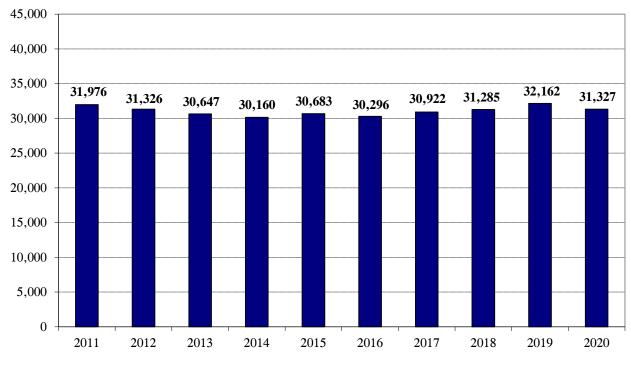
• Simple 3% or ¹/₂ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

- Lesser of 11.5% or normal cost (subject to minimum rate of 8.5%)
- When the funding ratio becomes 90%, employee contributions will decrease to 7.5% and stay at 7.5%, unless the funding ratio falls below 75%.

Required Employer Contributions

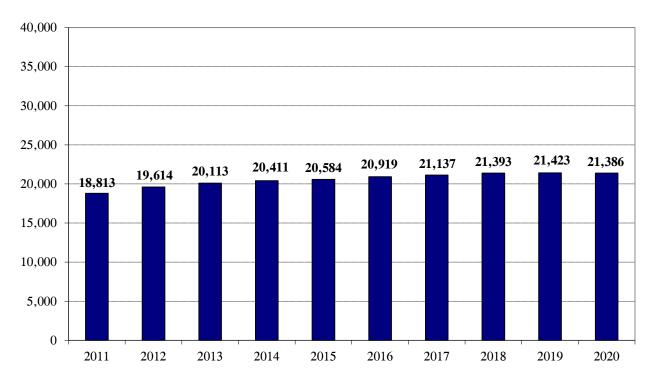
Pursuant to P.A. 100-0023, the required employer contributions for payment year 2018 through 2022 are specified as follows: \$266 million in 2018, \$344 million in 2019, \$421 million in 2020, \$499 million in 2021, and \$576 million in 2022. After the payment year 2022, the required employer contributions are calculated as a level percent of payroll sufficient to bring the funded ratio up to 90% by 2058.

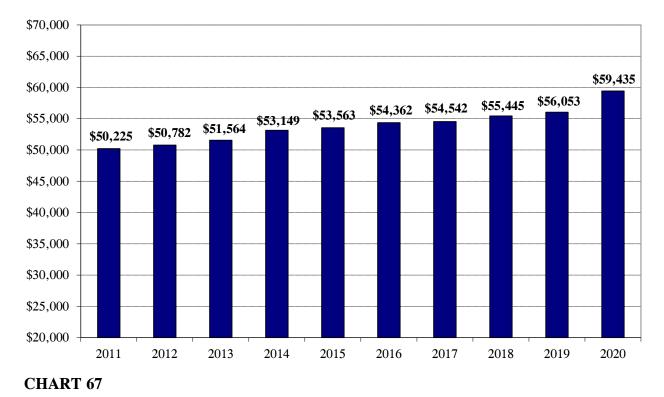


MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Active Employees

CHART 65

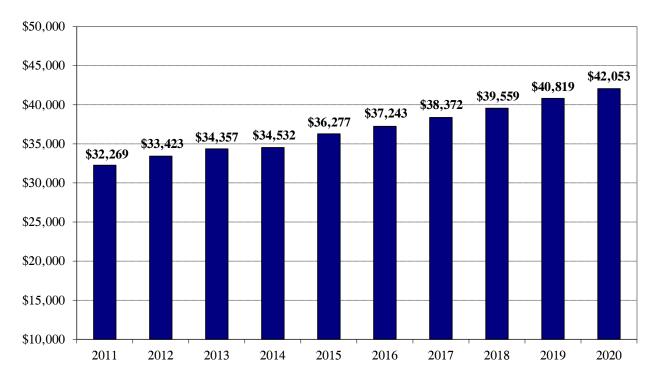
MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Employee Annuitants

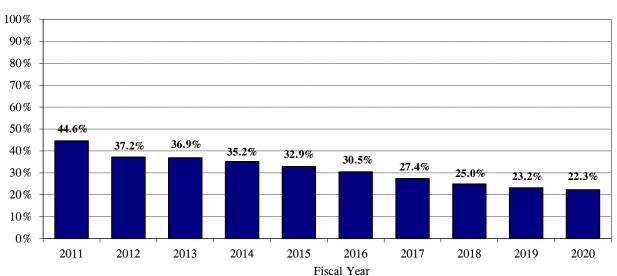




MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Average Employee Salaries

MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Average Retirement Annuities



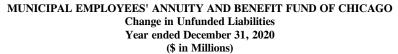


Funded Ratio FY 2011 - FY 2020

MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO

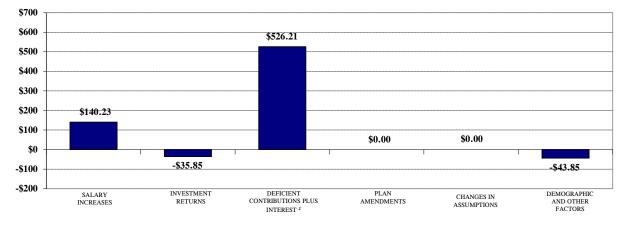
All figures based upon the actuarial value of assets.

CHART 69



All figures based upon the actuarial value of assets.

TOTAL INCREASE EQUALS \$586.75 MIL



¹ The unfunded liability increases due to contributions being less than normal cost plus interest cost.

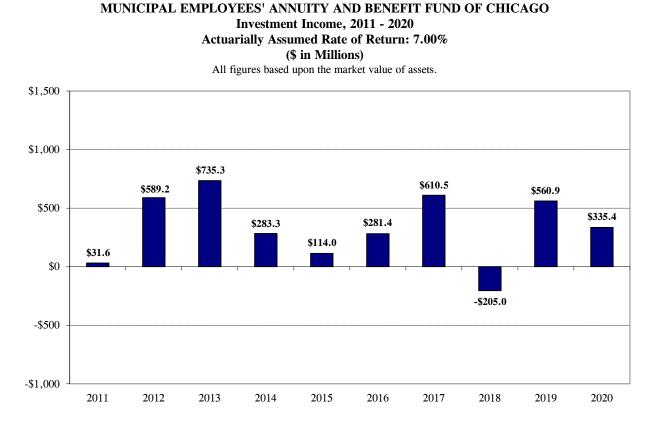
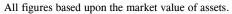
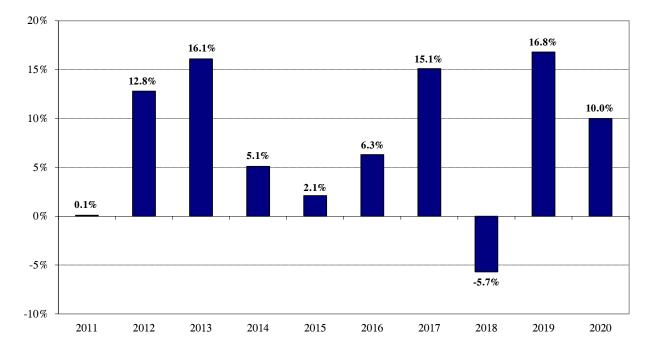


CHART 71

MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Rate of Return, 2011 - 2020 Actuarially Assumed Rate of Return: 7.00%





MUN	MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO System Experience, FY 2011 - FY 2020 (\$ in Millions)									
End of Year	Annual Payroll	Actuarial Liabilities ¹	Actuarial Assets	Unfunded Liabilities	Funded Ratio					
2020	1,861.9	17,847.2	3,977.0	13,870.2	22.3%					
2019	1,802.8	17,296.3	4,012.9	13,283.4	23.2%					
2018	1,734.6	16,808.6	4,195.6	12,613.0	25.0%					
2017	1,686.5	16,282.4	4,456.8	11,825.6	27.4%					
2016	1,646.9	15,055.3	4,590.4	10,465.0	30.5%					
2015	1,643.5	14,655.3	4,815.1	9,840.1	32.9%					
2014	1,603.0	14,315.3	5,039.3	7,285.3	35.2%					
2013	1,580.3	13,856.5	5,114.2	8,742.3	36.9%					
2012	1,590.8	13,637.5	5,073.3	8,564.2	37.2%					
2011	1,606.0	12,456.2	5,552.3	6,903.9	44.6%					

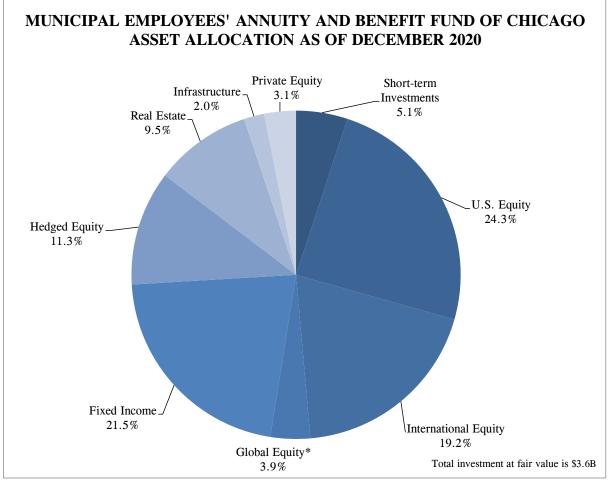
¹ The actuarial liabilities include pension and OPEB liabilities. The FY 2019 liabilities of \$17,260.4M previously reported excluded OPEB liabilities.

MUNICI	MUNICIPAL EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Changes in Net Assets (\$ in Millions)									
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	\$498.6	\$421.0	\$349.6	\$261.8	\$157.4	\$157.7	\$158.8	\$157.7	\$158.4	\$156.5
Employees	\$157.8	\$146.6	\$138.4	\$134.8	\$130.4	\$131.4	\$130.0	\$131.5	\$130.2	\$132.6
Net Investment Income	\$335.4	\$560.9	-\$205.0	\$610.5	\$281.4	\$114.0	\$283.3	\$735.3	\$589.2	\$31.6
Other	\$0.0	\$0.0	\$0.0	\$5.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Additions (A)	\$991.8	\$1,128.6	\$283.0	\$1,012.4	\$569.3	\$403.2	\$572.1	\$1,024.5	\$877.8	\$320.7
Deductions from Assets										
Benefits	\$950.0	\$925.0	\$889.2	\$854.3	\$832.8	\$802.8	\$775.4	\$745.5	\$704.7	\$663.5
Refunds	\$23.4	\$27.7	27.0	\$33.8	\$34.6	\$31.7	\$32.3	\$33.5	\$36.9	\$32.1
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$7.1	\$6.7	\$6.6	\$6.5	\$7.1	\$6.7	\$6.6	\$6.5	\$6.8	\$7.4
Other	\$1.6	\$2.7	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$982.2	\$962.1	\$922.8	\$894.6	\$874.5	\$841.2	\$814.3	\$785.5	\$748.4	\$703.0
Change in Net Assets (A-B=C)	\$9.6	\$166.5	-\$639.8	\$117.8	-\$305.2	-\$438.1	-\$242.2	\$239.0	\$129.4	-\$382.3

Table 23 below contains funding projections based on the FY 2020 actuarial valuation of the Municipal Employees' Annuity and Benefit Fund of Chicago.

TABLE 23

	Municipal Employees' Annuity and Benefit Fund of Chicago Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)											
Fiscal Year	Capped Payroll		tal Employer Contribution	Employer Contribution As % of Payroll	Employee Contribution	Total Actuarial Liability	Actuarial Value of Assets	Unfunded Actuarial Liability	Funded Ratio			
2020	1,857.3	\$	421.0	22.7%	157.8	17,847.2	3,977.0	13,870.2	22.3%			
2021	1,917.8	\$	498.6	26.0%	161.9	18,266.7	3,947.1	14,319.6	21.6%			
2022	1,920.0	\$	576.0	30.0%	162.0	18,666.1	4,186.8	14,479.3	22.4%			
2023	1,949.9	\$	960.0	49.2%	167.0	19,048.7	4,512.6	14,536.1	23.7%			
2024	1,983.0	\$	971.1	49.0%	172.2	19,413.4	4,762.8	14,650.6	24.5%			
2025	2,016.7	\$	983.6	48.8%	177.5	19,757.7	4,983.2	14,774.5	25.2%			
2026	2,049.3	\$	996.5	48.6%	182.6	20,079.7	5,187.3	14,892.4	25.8%			
2027	2,083.0	\$	1,008.7	48.4%	187.8	20,377.6	5,374.0	15,003.6	26.4%			
2028	2,118.0	\$	1,021.5	48.2%	193.2	20,651.8	5,545.0	15,106.9	26.8%			
2029	2,154.2	\$	1,034.7	48.0%	198.7	20,902.1	5,700.9	15,201.2	27.3%			
2030	2,191.8	\$	1,048.6	47.8%	204.3	21,125.3	5,840.1	15,285.3	27.6%			
2031	2,230.0	\$	1,063.2	47.7%	210.0	21,318.5	5,960.3	15,358.2	28.0%			
2032	2,270.1	\$	1,077.9	47.5%	215.8	21,483.3	6,065.1	15,418.3	28.2%			
2033	2,312.6	\$	1,093.6	47.3%	221.7	21,620.8	6,157.3	15,463.5	28.5%			
2034	2,357.9	\$	1,110.5	47.1%	227.8	21,730.9	6,239.2	15,491.8	28.7%			
2035	2,404.7	\$	1,128.8	46.9%	234.1	21,814.5	6,313.5	15,501.0	28.9%			
2036	2,453.9	\$	1,147.9	46.8%	240.6	21,873.2	6,384.3	15,488.9	29.2%			
2037	2,505.6	\$	1,168.1	46.6%	247.2	21,907.0	6,454.1	15,452.9	29.5%			
2038	2,558.9	\$	1,189.6	46.5%	254.0	21,917.9	6,527.4	15,390.5	29.8%			
2039	2,615.2	\$	1,211.9	46.3%	261.0	21,908.5	6,610.0	15,298.5	30.2%			
2040	2,674.2	\$	1,235.7	46.2%	268.3	21,896.4	6,722.7	15,173.7	30.7%			
2041	2,735.6	\$	1,260.9	46.1%	275.7	21,869.5	6,856.7	15,012.8	31.4%			
2042	2,800.2	\$	1,287.2	46.0%	283.4	21,829.2	7,017.5	14,811.7	32.1%			
2043	2,866.6	\$	1,315.3	45.9%	291.2	21,778.2	7,211.4	14,566.8	33.1%			
2044	2,935.8	\$	1,344.3	45.8%	299.3	21,719.7	7,445.9	14,273.8	34.3%			
2045	3,007.7	\$	1,374.7	45.7%	307.5	21,656.0	7,727.8	13,928.2	35.7%			
2046	3,082.2	\$	1,406.6	45.6%	316.0	21,589.1	8,064.0	13,525.1	37.4%			
2047	3,158.9	\$	1,439.7	45.6%	324.7	21,518.7	8,459.2	13,059.5	39.3%			
2048	3,236.2	\$	1,474.0	45.5%	333.4	21,445.3	8,918.6	12,526.7	41.6%			
2049	3,315.5	\$	1,508.6	45.5%	342.3	21,370.6	9,449.4	11,921.2	44.2%			
2050	3,397.1	\$	1,544.2	45.5%	351.5	21,295.6	10,058.8	11,236.8	47.2%			
2051	3,480.9	\$	1,581.1	45.4%	360.8	21,221.3	10,754.3	10,467.0	50.7%			
2052	3,566.5	\$	1,618.9	45.4%	370.2	21,145.1	11,540.0	9,605.0	54.6%			
2053	3,652.3	\$	1,657.8	45.4%	379.7	21,068.2	12,423.7	8,644.4	59.0%			
2054	3,740.1	\$	1,696.7	45.4%	389.3	20,990.0	13,412.6	7,577.3	63.9%			
2055	3,829.7	\$	1,736.6	45.3%	399.1	20,911.7	14,516.3	6,395.4	69.4%			
2056	3,921.7	\$	1,777.3	45.3%	409.1	20,834.9	15,745.2	5,089.7	75.6%			
2057	4,016.2	\$	1,819.1	45.3%	419.2	20,755.3	17,105.1	3,650.2	82.4%			
2058	4,111.5	\$	1,862.1	45.3%	429.5	20,674.4	18,607.0	2,067.4	90.0%			
2059	4,209.1	\$	1,905.4	45.3%	439.9	20,591.4	18,532.3	2,059.1	90.0%			
2060	4,308.8	\$	220.8	5.1%	450.4	20,506.1	18,455.5	2,050.6	90.0%			
2061	4,410.5	\$	221.1	5.0%	301.1	20,417.9	18,376.1	2,041.8	90.0%			
2062	4,514.1	\$	387.1	8.6%	308.2	20,323.6	18,291.2	2,032.4	90.0%			
2063	4,619.3	\$	391.6	8.5%	315.3	20,222.2	18,200.0	2,022.2	90.0%			
2064	4,726.1	\$	396.3	8.4%	322.6	20,111.9	18,100.7	2,011.2	90.0%			
2065	4,834.8	\$	401.0	8.3%	330.0	19,990.4	17,991.3	1,999.0	90.0%			
2066	4,945.2	\$	405.9	8.2%	337.5	19,855.5	17,869.9	1,985.6	90.0%			
2067	5,057.4	\$	411.0	8.1%	345.2	19,704.6	17,734.1	1,970.5	90.0%			
2068	5,171.2	\$	416.2	8.0%	352.9	19,534.7	17,581.2	1,953.5	90.0%			
2069	5,286.6	\$	421.7	8.0%	360.8	19,342.7	17,402.8	1,939.8	90.0%			



*Global Equity is comprised of both domestic and international securities

X. Park Employees' Annuity and Benefit Fund of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Normal Cost Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Park Employees' Annuity and Benefit Fund of Chicago Tier 1 Plan Summary

Retirement Age

- Age 60 with 4 years of service
- Age 50 with at least 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

3% non-compounded

Employee Contributions

• 9.0% of salary

Employer Contributions (as amended by P.A. 102-0263)

Prior to P.A. 102-0263, the Park District was required to contribute an amount equal to the employee contributions during the fiscal year two years prior to the year the tax was levied, multiplied by 1.10.

Pursuant to P.A. 102-0263, beginning in levy year 2020, the levy shall not exceed the amount of the Park District's total required contribution for the next payment year ("Payment year" means the year immediately following the levy year). For payment years 2021 to 2023, the required employer contributions, determined by the pension fund's actuary, shall ramp up as follows:

- 1. For payment 2021: 25% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2020, that is sufficient to attain a funded ratio of 100% by the end of 2055;
- 2. For payment 2022: 50% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2021, that is sufficient to attain a funded ratio of 100% by the end of 2056; and
- 3. For payment 2023: 75% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2022, that is sufficient to attain a funded ratio of 100% by the end of 2057;

For payment years 2024 through 2058, the Park District's required annual contribution shall be 100% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35- year period starting on December 31, 2023, that is sufficient to bring the funded ratio up to 100% by the end of 2058.

For payment year 2059 and each year thereafter, the required contribution shall be the amount so that the pension fund's funded ratio would reach 100%, if needed, as of the end of that year.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011.

Park Employees' Annuity and Benefit Fund of Chicago Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.4% of final average salary

Maximum Annuity

• 80% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

• Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

• 9.0% of salary

Employer Contributions (as amended by P.A. 102-0263)

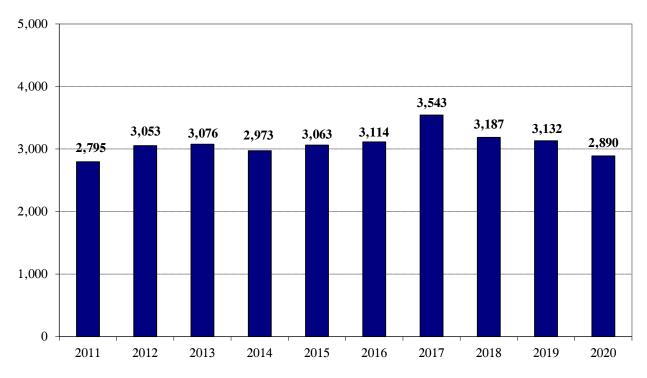
Prior to P.A. 102-0263, the Park District was required to contribute an amount equal to the employee contributions during the fiscal year two years prior to the year the tax was levied, multiplied by 1.10.

Pursuant to P.A. 102-0263, beginning in levy year 2020, the levy shall not exceed the amount of the Park District's total required contribution for the next payment year ("Payment year" means the year immediately following the levy year). For payment years 2021 to 2023, the required employer contributions, determined by the pension fund's actuary, shall ramp up as follows:

- 1. For payment 2021: 25% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2020, that is sufficient to attain a funded ratio of 100% by the end of 2055;
- 2. For payment 2022: 50% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2021, that is sufficient to attain a funded ratio of 100% by the end of 2056; and
- 3. For payment 2023: 75% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35-year period starting on December 31, 2022, that is sufficient to attain a funded ratio of 100% by the end of 2057;

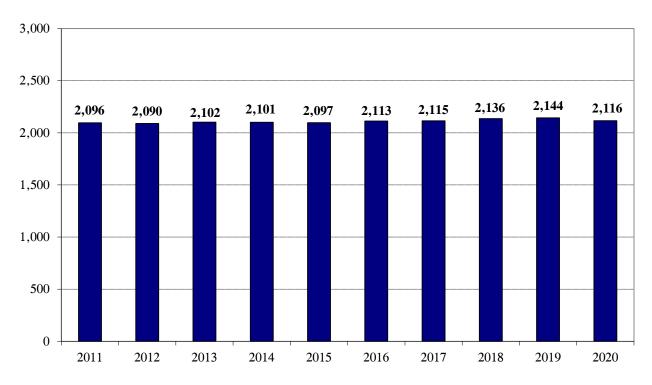
For payment years 2024 through 2058, the Park District's required annual contribution shall be 100% of the amount, equal to the sum of employer normal cost, plus an amount, using a 35- year period starting on December 31, 2023, that is sufficient to bring the funded ratio up to 100% by the end of 2058.

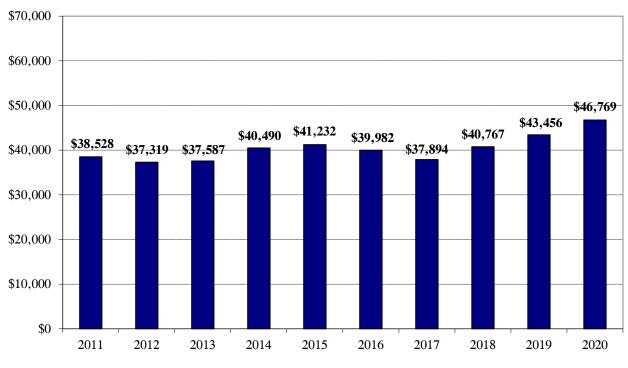
For payment year 2059 and each year thereafter, the required contribution shall be the amount so that the pension fund's funded ratio would reach 100%, if needed, using the entry age normal actuarial cost method as of the end of that year.



PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Active Employees

PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Employee Annuitants

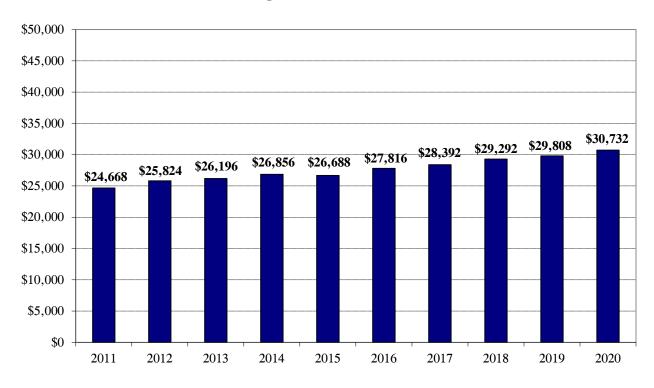


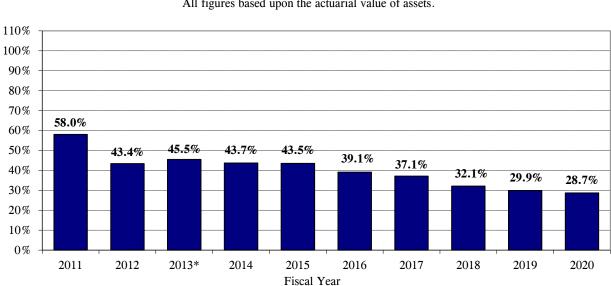


PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Average Employee Salaries

CHART 76

PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Average Retirement Annuities



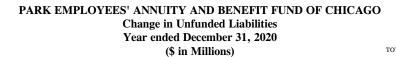


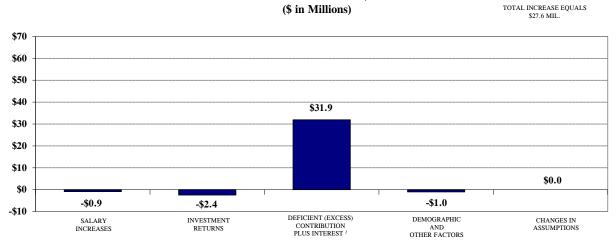
PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO **Funded Ratio** FY 2011 - FY 2020

All figures based upon the actuarial value of assets.

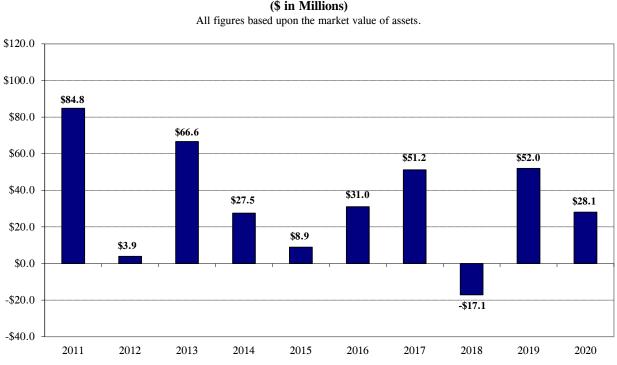
* Public Act 97-0973, effective August 16, 2012, changed the Fund's year end to December 31 from June 30. As a result, from January 1, 2013, the Fund's fiscal year commences January 1 and ends December 31.







¹ Unfunded liability increased due to total contributions being less than normal cost, plus interest cost.



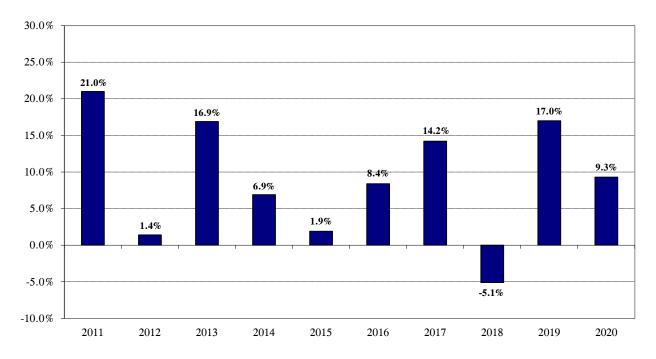
Actuarially Assumed Rate of Return: 7.25% (\$ in Millions)

PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Investment Income, FY 2011 - FY 2020

CHART 80

PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Rate of Return 2011 - 2020 Actuarially Assumed Rate of Return: 7.25%

All figures based upon the market value of assets.



PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO
System Experience, FY 2011 - FY 2020

(\$ in Millions)

Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio
2020	138.9	1,190.4	342.1	848.2	28.7%
2019	139.2	1,170.6	350.0	820.6	29.9%
2018	133.1	1,142.3	366.8	775.5	32.1%
2017	135.3	1,039.3	385.4	653.9	37.1%
2016	121.1	1,005.5	393.6	611.9	39.1%
2015	122.4	910.3	395.7	514.6	43.5%
2014	119.0	900.8	393.8	507.0	43.7%
2013*	117.8	888.0	404.3	483.7	45.5%
2012	114.2	866.4	440.7	425.7	50.9%
2011	107.7	843.9	489.4	354.5	58.0%

* Public Act 97-0973, effective August 16, 2012, changed the Fund's year end to December 31 from June 30. As a result, from January 1, 2013, the Fund's fiscal year commences January 1 and ends December 31.

PARK EMI	PARK EMPLOYEES' ANNUITY AND BENEFIT FUND OF CHICAGO Changes in Net Assets (\$ in Millions)									
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013*	2012	2011
Additions to Assets										
Employer	\$33.9	\$27.7	\$27.6	\$20.9	\$30.9	\$30.6	\$11.2	\$15.8	\$10.8	\$11.0
Employees	\$12.6	\$12.7	\$12.1	\$13.7	\$12.2	\$12.4	\$10.8	\$10.7	\$10.4	\$9.8
Net Investment Income	\$28.1	\$52.0	-\$17.1	\$51.2	\$31.0	\$8.9	\$27.6	\$66.6	\$3.8	\$84.8
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1	\$0.0
Total Asset Additions (A)	\$74.7	\$92.4	\$22.6	\$85.8	\$74.2	\$51.9	\$49.6	\$93.2	\$25.1	\$105.6
Deductions from Assets										
Benefits	\$77.8	\$76.5	\$73.8	\$72.3	\$71.6	\$68.6	\$67.8	\$66.2	\$63.5	\$62.0
Refunds	\$1.6	\$2.1	\$2.7	\$5.9	\$2.5	\$2.0	\$2.7	\$2.1	\$2.0	\$1.7
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$1.6	\$1.5	\$1.5	\$1.7	\$1.5	\$1.5	\$1.5	\$1.5	\$1.6	\$1.5
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$81.0	\$80.1	\$78.0	\$79.8	\$75.6	\$72.1	\$72.0	\$69.8	\$67.1	\$65.2
Change in Net Assets (A-B=C)	-\$6.3	\$12.3	-\$55.4	\$5.9	-\$1.5	-\$20.3	-\$22.3	\$23.4	-\$42.0	\$40.4

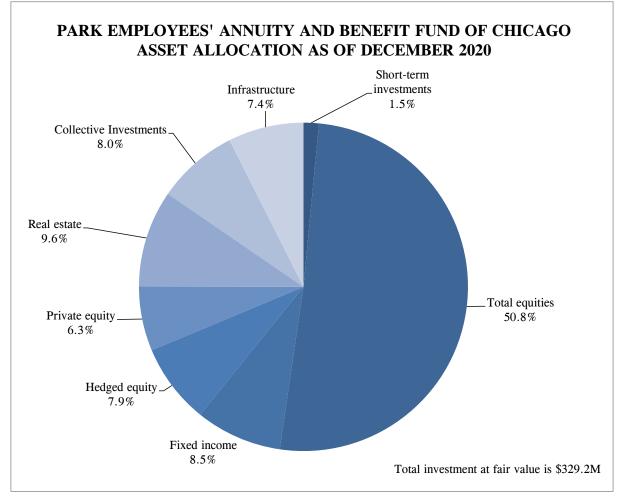
* Public Act 97-0973, effective August 16, 2012, changed the Fund's year end to December 31 from June 30. As a result, from January 1, 2013, the Fund's fiscal year commences January 1 and ends December 31.

Table 26 below contains funding projections based on the December 31, 2020 actuarial valuation of the Park Employees' Annuity and Benefit Fund of Chicago. As shown in the table below, under the current funding policy the Park Employees' Annuity and Benefit Fund of Chicago is projected to run out of assets by 2028 if all future assumptions are met and no additional contributions are made.

	Park Employees' Annuity and Benefit Fund of Chicago Funding Policy under P.A. 98-0622 Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)										
Fiscal Year	Capped Payroll	Total City Contribution	Total City Contribution As % of Payroll	Total Employee Contribution	Accrued Liability	Actuarial Value of Assets	Unfunded Liabilities	Funded Ratio			
2021	140.5	13.2	9.4%	12.8	1,209.3	308.5	900.7	25.5%			
2022	138.0	13.5	9.8%	12.5	1,228.0	266.7	961.3	21.7%			
2023	136.6	13.6	10.0%	12.4	1,246.5	229.4	1,017.1	18.4%			
2024	135.5	13.4	9.9%	12.3	1,264.6	182.1	1,082.5	14.4%			
2025	134.8	13.2	9.8%	12.3	1,282.3	128.8	1,153.5	10.0%			
2026	134.2	13.1	9.8%	12.2	1,299.5	69.7	1,229.8	5.4%			
2027	133.6	13.1	9.8%	12.1	1,315.8	4.2	1,311.6	0.3%			
2028	133.1	79.0	59.3%	12.1	1,331.3	0.0	1,331.3	0.0%			
2029	132.5	85.3	64.4%	12.1	1,345.5	0.0	1,345.5	0.0%			
2030	132.1	87.3	66.1%	12.0	1,358.6	0.0	1,358.6	0.0%			
2031	131.8	89.5	67.9%	12.0	1,370.2	0.0	1,370.2	0.0%			
2032	131.5	91.6	69.6%	12.0	1,380.5	0.0	1,380.5	0.0%			
2032	131.3	93.5	71.2%	11.9	1,389.3	0.0	1,389.3	0.0%			
2033	131.4	95.4	72.7%	11.9	1,396.7	0.0	1,396.7	0.0%			
2035	131.3	97.1	73.9%	11.9	1,402.8	0.0	1,402.8	0.0%			
2036	131.6	98.8	75.1%	12.0	1,407.3	0.0	1,407.3	0.0%			
2030	131.0	97.9	74.3%	12.0	1,407.5	0.0	1,413.0	0.0%			
2038	132.1	99.3	75.2%	12.0	1,417.6	0.0	1,417.6	0.0%			
2030	132.5	100.2	75.7%	12.0	1,421.4	0.0	1,421.4	0.0%			
2039	132.5	100.2	75.8%	12.0	1,424.6	0.0	1,421.4	0.0%			
2040	133.2	101.4	75.7 <i>%</i>	12.1	1,424.0	0.0	1,424.0	0.0%			
2041	134.0	101.4	75.2%	12.2	1,427.4	0.0	1,427.4	0.0%			
2042 2043	135.1	101.2	74.2%	12.3	1,430.2	0.0	-	0.0%			
2043 2044	130.4	101.2		12.4			1,433.5				
		99.8	73.0%		1,437.5	0.0	1,437.5	0.0%			
2045 2046	139.8	99.8 98.7	71.4%	12.7	1,442.8	0.0	1,442.8	0.0%			
	141.9		69.6%	12.9	1,449.5	0.0	1,449.5	0.0%			
2047	144.1	97.6 06.5	67.8%	13.1	1,457.8	0.0	1,457.8	0.0%			
2048	146.4	96.5 05.2	65.9%	13.3	1,467.9	0.0	1,467.9	0.0%			
2049	148.8	95.3 02.7	64.0%	13.5	1,480.1	0.0	1,480.1	0.0%			
2050	151.4	93.7	61.9%	13.7	1,494.8	0.0	1,494.8	0.0%			
2051	154.2	92.3	59.8%	14.0	1,512.2	0.0	1,512.2	0.0%			
2052	157.1	91.1	58.0%	14.3	1,532.2	0.0	1,532.2	0.0%			
2053	160.0	89.8	56.1%	14.5	1,555.1	0.0	1,555.1	0.0%			
2054	163.1	88.5	54.3%	14.8	1,581.1	0.0	1,581.1	0.0%			
2055	166.3	87.1	52.4%	15.1	1,610.5	0.0	1,610.5	0.0%			
2056	169.8	85.8	50.5%	15.4	1,643.7	0.0	1,643.7	0.0%			
2057	173.5	84.4	48.7%	15.7	1,680.7	0.0	1,680.7	0.0%			
2058	177.3	83.3	47.0%	16.1	1,721.8	0.0	1,721.8	0.0%			
2059	181.3	81.9	45.2%	16.4	1,767.5	0.0	1,767.5	0.0%			

Park Employees' Annuity and Benefit Fund of Chicago Projected Normal Cost as of December 31, 2020 (\$ in Millions)										
Fiscal Year	Employer Normal Cost ¹	Employer's Normal Cost as a % of Payroll	Employee Contributions	Employee Contributions as a % of Payroll	Total Normal Cost ¹	Total Normal Cost as a % o Payroll				
2021	5.8	4.2%	12.8	9.1%	18.6	13.2%				
2022	5.8	4.2%	12.5	9.1%	18.4	13.3%				
2023	5.9	4.3%	12.4	9.1%	18.3	13.4%				
2024	5.8	4.3%	12.3	9.1%	18.1	13.4%				
2025	5.8	4.3%	12.3	9.1%	18.0	13.4%				
2026	5.7	4.2%	12.2	9.1%	17.9	13.3%				
2027	5.6	4.2%	12.1	9.1%	17.7	13.3%				
2028	5.5	4.1%	12.1	9.1%	17.6	13.2%				
2029	5.4	4.1%	12.1	9.1%	17.4	13.2%				
2030	5.3	4.0%	12.0	9.1%	17.3	13.1%				
2031	5.2	3.9%	12.0	9.1%	17.2	13.0%				
2032	5.1	3.9%	12.0	9.1%	17.0	13.0%				
2033	5.0	3.8%	11.9	9.1%	16.9	12.9%				
2034	4.8	3.7%	11.9	9.1%	16.8	12.8%				
2035	4.7	3.6%	11.9	9.1%	16.7	12.7%				
2036	4.6	3.5%	12.0	9.1%	16.6	12.6%				
2037	4.5	3.4%	12.0	9.1%	16.5	12.5%				
2038	4.4	3.3%	12.0	9.1%	16.4	12.4%				
2039	4.2	3.2%	12.0	9.1%	16.3	12.3%				
2040	4.1	3.1%	12.1	9.1%	16.2	12.2%				
2041	4.0	3.0%	12.2	9.1%	16.2	12.1%				
2042	4.0	2.9%	12.3	9.1%	16.2	12.0%				
2043	3.9	2.9%	12.4	9.1%	16.3	12.0%				
2044	3.9	2.8%	12.5	9.1%	16.4	11.9%				
2045	3.8	2.7%	12.7	9.1%	16.5	11.8%				
2046	3.8	2.7%	12.9	9.1%	16.7	11.8%				
2047	3.8	2.7%	13.1	9.1%	16.9	11.7%				
2048	3.8	2.6%	13.3	9.1%	17.2	11.7%				
2049	3.9	2.6%	13.5	9.1%	17.4	11.7%				
2050	3.9	2.6%	13.7	9.1%	17.7	11.7%				
2051	4.0	2.6%	14.0	9.1%	18.0	11.7%				
2052	4.1	2.6%	14.3	9.1%	18.4	11.7%				
2052	4.2	2.6%	14.5	9.1%	18.7	11.7%				
2055 2054	4.2	2.6%	14.3	9.1%	19.1	11.7%				
2054 2055	4.3	2.6%	14.8	9.1% 9.1%	19.1 19.5	11.7%				
	4.4 4.5									
2056		2.7%	15.4	9.1%	19.9	11.7%				
2057	4.7	2.7%	15.7	9.1%	20.4	11.8%				
2058 2059	4.8 5.0	2.7% 2.8%	16.1 16.4	9.1% 9.1%	20.9 21.5	11.8% 11.8%				

¹Includes estimated expenses.



XI.Policemen's Annuity and Benefit of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of December 31, 2020.

Policemen's Annuity and Benefit Fund of Chicago Tier 1 Plan Summary

Retirement Age

- Age 50 with 20 years of service
- Age 50 with 10 years of service (accumulated annuity)
- Mandatory retirement at age 63

Retirement Formula

• For employees with 20 or more years of service, 50% of final average salary plus 2.5% of final average salary for each year in excess of 20

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

- 3% non-compounded with no limit if born before 1/1/66
- 1.5% non-compounded if born after 1/1/66, subject to 30% maximum

Employee Contributions

• 9.0% of salary

Employer Contributions

Pursuant to P.A. 99-0506, the employer contributions for payment years 2016 through 2020 are specified as follows: \$420 million in 2016, \$464 million in 2017, \$500 million in 2018, \$557 million in 2019, and \$579 million in 2020. After payment year 2020, the city (employer) is required to make an annual actuarially determined contribution as a level percentage of pay, with a funding goal of 90% by the end of 2055, based upon the actuarial value of fund assets and application of required actuarial assumptions and methodologies.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-1495. See P.A. 96-1495 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Policemen's Annuity and Benefit Fund of Chicago Tier 2 Plan Summary (P.A. 96-1495)

Retirement Age

- Age 55 with 10 years of service
- Age 50 with 10 years of service (reduced annuity)
- Mandatory retirement at age 63

Retirement Formula

• 2.5% of final average salary for each year in excess of 20

Maximum Annuity

• 75% of final average salary

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

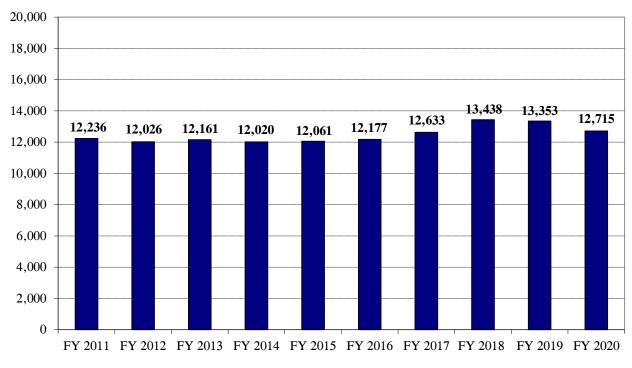
Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less, commencing at age 60

Employee Contributions

• 9.0% of salary

Employer Contributions

Pursuant to P.A. 99-0506, the employer contributions for payment years 2016 through 2020 are specified as follows: \$420 million in 2016, \$464 million in 2017, \$500 million in 2018, \$557 million in 2019, and \$579 million in 2020. After payment year 2020, the city (employer) is required to make an annual actuarially determined contribution as a level percentage of pay, with a funding goal of 90% by the end of 2055, based upon the actuarial value of fund assets and application of required actuarial assumptions and methodologies.



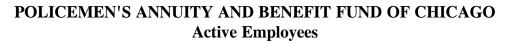
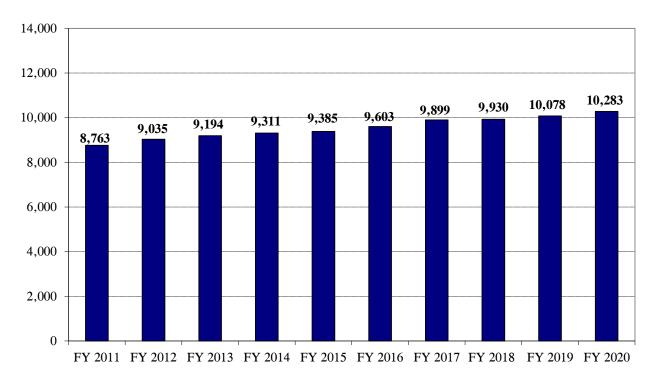
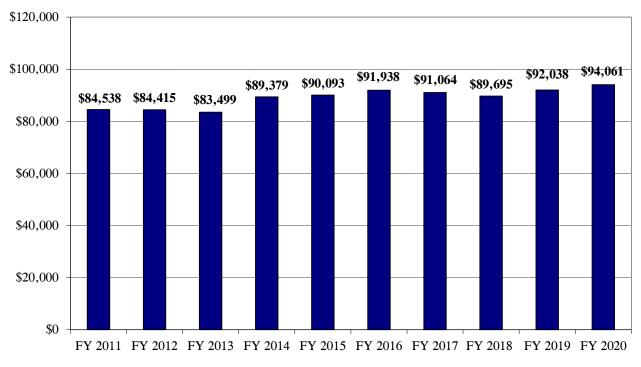


CHART 83

POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Employee Annuitants

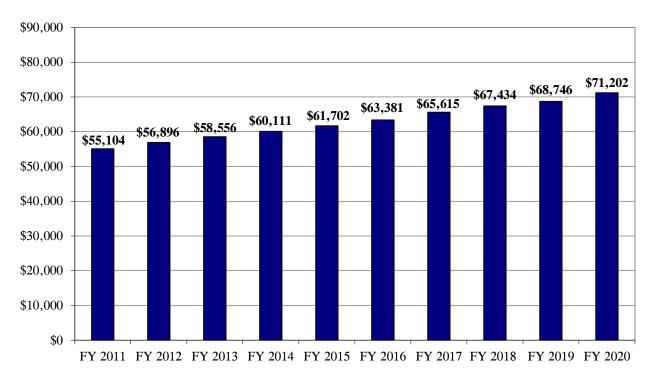


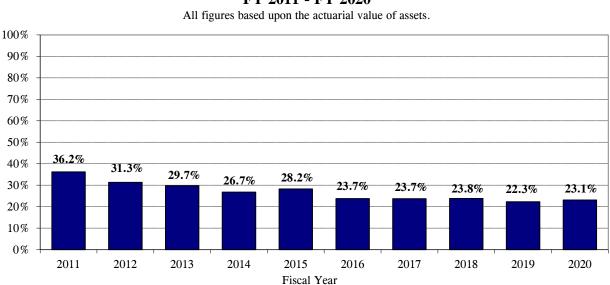


POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Average Employee Salaries

CHART 85



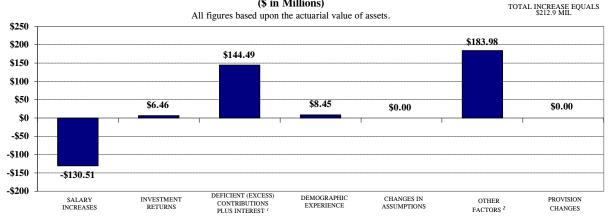




POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Funded Ratio FY 2011 - FY 2020

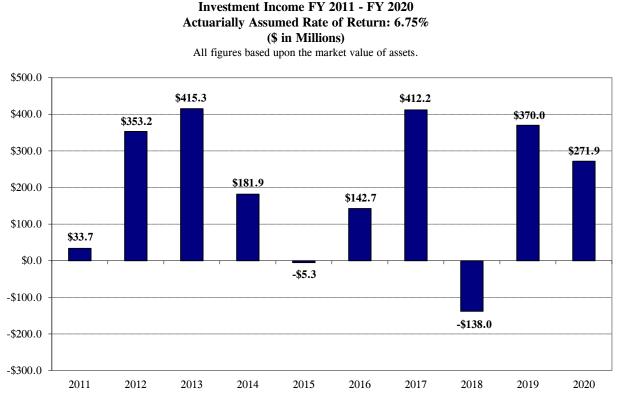
CHART 87

POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Change in Unfunded Liabilities Year ended December 31, 2020 (\$ in Millions)



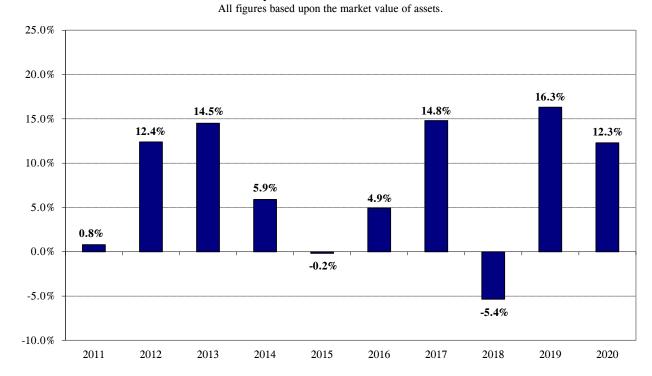
¹ Unfunded liability increased due to total contributions being less than normal cost, plus interest cost.

² Unfunded liability increased due to an actuarial loss of \$73.7 million from programming refinements and an actuarial loss of \$110.3 million from other factors. The \$110.3 million loss included the effect of retiree health insurance premium subsidies that the Fund provides to certain eligible annuitants, pursuant to the court order Underwood, et. Al., v. City of Chicago, et. Al.



POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Rate of Return FY 2011 - FY 2020

Actuarially Assumed Rate of Return: 6.75%



POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Investment Income FY 2011 - FY 2020

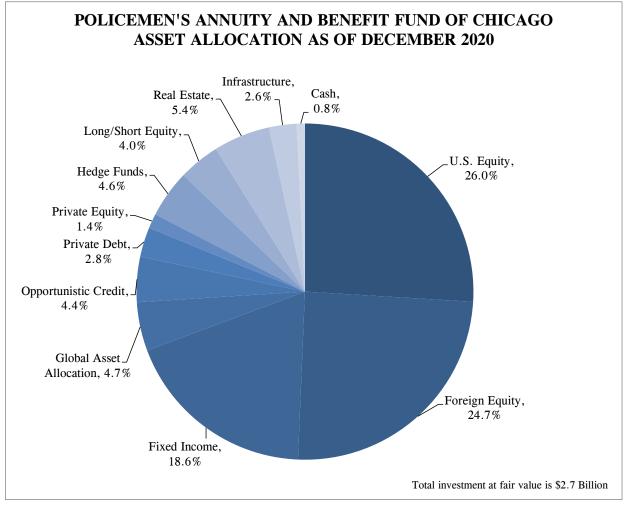
POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO System Experience, FY 2011 - FY 2020 (\$ in Millions)									
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio				
2020	1,196.0	14,703.1	3,400.0	11,303.1	23.1%				
2019	1,229.0	14,269.8	3,179.5	11,090.3	22.3%				
2018	1,205.3	13,214.7	3,145.1	10,069.5	23.8%				
2017	1,150.4	13,093.9	3,104.0	9,989.9	23.7%				
2016	1,119.5	12,856.6	3,052.1	9,804.5	23.7%				
2015	1,086.6	11,288.2	3,186.4	8,101.8	28.2%				
2014	1,074.3	11,048.2	2,954.3	8,093.9	26.7%				
2013	1,015.4	10,282.3	3,053.9	7,228.5	29.7%				
2012	1,015.2	10,051.8	3,148.9	6,902.9	31.3%				
2011	1,034.4	9,522.4	3,444.7	6,077.7	36.2%				

РО	POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO Changes in Net Assets (\$ in Millions)									
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	\$739.4	\$582.0	\$588.0	\$494.5	\$281.6	\$582.3	\$187.1	\$188.9	\$207.2	\$183.5
Employees	\$113.6	\$110.8	\$107.2	\$103.0	\$101.5	\$107.6	\$95.7	\$93.3	\$95.9	\$98.2
Net Investment Income	\$271.9	\$369.9	-\$138.0	\$412.2	\$142.7	-\$5.3	\$181.9	\$415.3	\$353.2	\$33.7
Other	\$0.5	\$0.0	\$1.6	\$0.1	\$1.4	\$3.1	\$0.7	\$0.5	\$0.4	\$0.1
Total Asset Additions (A)	\$1,125.4	\$1,062.7	\$558.8	\$1,009.8	\$527.2	\$687.7	\$465.4	\$698.0	\$656.7	\$315.5
Deductions from Assets										
Benefits	\$828.9	\$791.9	\$764.4	\$737.9	\$705.6	\$678.4	\$655.3	\$633.8	\$602.7	\$568.0
Refunds	\$12.7	\$8.8	\$6.7	\$10.0	\$10.7	\$7.8	\$9.0	\$8.1	\$11.2	\$7.3
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$4.3	\$4.7	\$4.1	\$4.8	\$4.7	\$4.5	\$4.2	\$4.3	\$4.9	\$4.4
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Asset Deductions (B)	\$845.9	\$805.4	\$775.2	\$752.7	\$721.1	\$690.7	\$668.5	\$646.2	\$618.8	\$579.7
Change in Net Assets (A-B=C)	\$279.5	\$257.3	-\$216.3	\$257.0	-\$193.9	-\$3.1	-\$203.1	\$51.8	\$37.9	-\$264.2

Table 30 below contains funding projections based on the December 31, 2020 actuarial valuation of the Policemen's Annuity and Benefit Fund of Chicago.

	Policemen's Annuity and Benefit Fund of Chicago Actuarial Valuation Projection Results as of December 31, 2020 (\$ in Millions)									
Fiscal Year	Capped Payroll	Total City Contribution	Total City Contribution As % of Payroll	Total Employee Contribution	Accrued Liability	Actuarial Value of Assets	Unfunded Liabilities	Funded Ratio		
2020	1,195.8	739.9	61.9%	113.6	14,703.1	3,400.0	11,303.1	23.1%		
2021	1,226.1	786.8	64.2%	108.0	15,064.1	3,629.3	11,434.9	24.1%		
2022	1,260.4	799.4	63.4%	114.2	15,427.9	3,824.6	11,603.3	24.8%		
2023	1,301.1	825.3	63.4%	117.8	15,789.2	4,105.3	11,683.9	26.0%		
2024	1,332.1	844.9	63.4%	120.6	16,143.7	4,357.6	11,786.1	27.0%		
2025	1,362.2	864.0	63.4%	123.4	16,488.3	4,599.9	11,888.4	27.9%		
2026	1,394.6	884.5	63.4%	126.3	16,822.2	4,845.4	11,976.8	28.8%		
2027	1,429.0	906.4	63.4%	129.4	17,144.8	5,095.8	12,049.0	29.7%		
2028	1,466.4	930.1	63.4%	132.8	17,456.4	5,354.2	12,102.1	30.7%		
2029	1,502.6	953.0	63.4%	136.0	17,756.5	5,620.7	12,135.8	31.7%		
2030	1,534.6	973.4	63.4%	138.9	18,044.5	5,893.8	12,150.7	32.7%		
2031	1,566.6	993.6	63.4%	141.7	18,321.2	6,175.5	12,145.7	33.7%		
2032	1,595.5	1,012.0	63.4%	144.3	18,586.1	6,465.0	12,121.1	34.8%		
2033	1,624.7	1,030.5	63.4%	146.9	18,838.7	6,763.7	12,075.1	35.9%		
2034	1,655.1	1,049.8	63.4%	149.6	19,080.3	7,074.9	12,005.4	37.1%		
2035	1,689.4	1,071.5	63.4%	152.6	19,313.6	7,405.0	11,908.6	38.3%		
2036	1,726.0	1,094.7	63.4%	155.8	19,540.6	7,759.2	11,781.5	39.7%		
2037	1,757.2	1,114.6	63.4%	158.5	19,762.7	8,137.6	11,625.1	41.2%		
2038	1,782.6	1,130.6	63.4%	160.7	19,980.1	8,539.3	11,440.8	42.7%		
2039	1,802.2	1,143.1	63.4%	162.4	20,193.6	8,963.6	11,229.9	44.4%		
2040	1,820.9	1,154.9	63.4%	163.9	20,403.9	9,412.5	10,991.4	46.1%		
2041	1,840.1	1,167.1	63.4%	165.5	20,612.8	9,889.5	10,723.2	48.0%		
2042	1,859.2	1,179.2	63.4%	167.0	20,821.2	10,397.5	10,423.7	49.9%		
2043	1,879.9	1,192.4	63.4%	168.7	21,030.2	10,940.4	10,089.9	52.0%		
2044	1,901.5	1,206.0	63.4%	170.4	21,240.7	11,521.4	9,719.3	54.2%		
2045	1,922.8	1,219.6	63.4%	172.2	21,453.0	12,143.2	9,309.8	56.6%		
2046	1,944.6	1,233.4	63.4%	173.9	21,667.6	12,809.0	8,858.6	59.1%		
2047	1,966.5	1,247.3	63.4%	175.7	21,885.2	13,522.1	8,363.1	61.8%		
2048	1,989.3	1,261.7	63.4%	177.5	22,106.0	14,286.0	7,820.0	64.6%		
2049	2,012.5	1,276.5	63.4%	179.4	22,329.8	15,103.7	7,226.1	67.6%		
2050	2,036.4	1,291.6	63.4%	181.3	22,556.4	15,978.8	6,577.6	70.8%		
2051	2,060.7	1,307.1	63.4%	183.3	22,786.2	16,915.2	5,870.9	74.2%		
2052	2,085.6	1,322.8	63.4%	185.3	23,019.7	17,917.9	5,101.9	77.8%		
2053	2,111.0	1,338.9	63.4%	187.4	23,258.3	18,992.3	4,266.0	81.7%		
2054	2,136.6	1,355.1	63.4%	189.5	23,502.6	20,143.8	3,358.9	85.7%		
2055	2,162.5	1,371.6	63.4%	191.6	23,752.8	21,377.3	2,375.5	90.0%		

Policemen's Annuity and Benefit Fund of Chicago Projected Normal Cost as of December 31, 2020 (\$ in Millions)										
Fiscal Year	Employer's Normal Cost	Employer's Normal Cost as a % of Payroll	Employee Contributions	Employee Contributions as a % of Payroll	Total Normal Cost	Total Normal Cost as a % of Payroll				
2020	155.2	13.0%	113.6	9.5%	268.8	22.5%				
2021	149.8	12.2%	108.0	8.8%	257.8	21.0%				
2022	146.8	11.6%	114.2	9.1%	260.9	20.7%				
2023	147.2	11.3%	117.8	9.1%	265.1	20.4%				
2024	146.9	11.0%	120.6	9.1%	267.5	20.1%				
2025	146.3	10.7%	123.4	9.1%	269.7	19.8%				
2026	145.6	10.4%	126.3	9.1%	271.9	19.5%				
2027	144.8	10.1%	129.4	9.1%	274.2	19.2%				
2028	144.2	9.8%	132.8	9.1%	277.0	18.9%				
2029	143.5	9.5%	136.0	9.1%	279.5	18.6%				
2030	142.4	9.3%	138.9	9.0%	281.3	18.3%				
2031	141.3	9.0%	141.7	9.0%	283.0	18.1%				
2032	139.8	8.8%	144.3	9.0%	284.2	17.8%				
2033	138.2	8.5%	146.9	9.0%	285.1	17.6%				
2034	136.7	8.3%	149.6	9.0%	286.2	17.3%				
2035	135.4	8.0%	152.6	9.0%	288.0	17.0%				
2036	134.5	7.8%	155.8	9.0%	290.3	16.8%				
2037	133.1	7.6%	158.5	9.0%	291.6	16.6%				
2038	131.4	7.4%	160.7	9.0%	292.1	16.4%				
2039	129.3	7.2%	162.4	9.0%	291.7	16.2%				
2040	127.4	7.0%	163.9	9.0%	291.3	16.0%				
2041	125.7	6.8%	165.5	9.0%	291.2	15.8%				
2042	124.2	6.7%	167.0	9.0%	291.2	15.7%				
2043	123.1	6.5%	168.7	9.0%	291.8	15.5%				
2044	122.1	6.4%	170.4	9.0%	292.6	15.4%				
2045	121.3	6.3%	172.2	9.0%	293.5	15.3%				
2046	120.7	6.2%	173.9	8.9%	294.7	15.2%				
2047	120.4	6.1%	175.7	8.9%	296.1	15.1%				
2048	120.3	6.0%	177.5	8.9%	297.8	15.0%				
2049	120.4	6.0%	179.4	8.9%	299.7	14.9%				
2050	120.7	5.9%	181.3	8.9%	302.0	14.8%				
2051	121.1	5.9%	183.3	8.9%	304.4	14.8%				
2052	121.7	5.8%	185.3	8.9%	307.1	14.7%				
2053	122.5	5.8%	187.4	8.9%	309.9	14.7%				
2054	123.3	5.8%	189.5	8.9%	312.8	14.6%				
2055	123.3	5.7%	191.6	8.9 <i>%</i>	315.9	14.6%				



XII. Public School Teacher's Pension and Retirement Fund of Chicago

- Plan Summary
- Active Employees
- Employee Annuitants
- Average Salaries
- Average Retirement Annuity
- Funded Ratios
- Change in Unfunded Liabilities
- Investment Income
- Investment Rates of Return
- Systems Experience
- Changes in Net Assets
- System Projections
- Asset Allocation



Note: All data shown in this section is based upon the system's Actuarial Valuation and CAFR as of June 30, 2020.

Public School Teachers' Pension and Retirement Fund of Chicago - Tier 1 Plan Summary

Retirement Age

- Age 60 with 20 years of service
- Age 55 with 20 years of service (reduced annuity)
- Age 62 with 5 years of service

Retirement Formula

• 2.2% of final average salary for each year of service

Maximum Annuity

• 75% of final average salary or \$1,500 per month, whichever is greater

Salary Used to Calculate Pension

• Average of 4 highest consecutive years within final 10 years of service

Annual COLA

• 3% compounded

Employee Contributions

• 9.0% of salary

Employer Contributions

Pursuant to P.A. 96-0889, for fiscal years 2014 through 2059 the employer (the Board of Education) is required to make contributions calculated as a level percentage of payroll sufficient to bring the fund's total assets up to 90% of the fund's total liabilities by the end of FY 2059. In years where the funded ratio is above 90%, the employer is not required to make contributions.

P.A. 99-0521, effective June 1, 2017, allows the Board of Education to levy annually a property tax capped at 0.383% for purposes of making employer contributions.

P.A. 100-0465, effective August 31, 2017, increases the property tax cap from 0.383% to 0.567% beginning FY 2018. Also, the Act requires the State to pay \$221.3 million for FY 2018 and an amount equal to the employer normal cost portion of the required Board of Education contributions beginning FY 2019.

Note: Benefits shown are for employees hired prior to January 1, 2011 (Tier 1 employees), the effective date of P.A. 96-0889. See P.A. 96-0889 in Section I for a summary of benefits for employees hired after January 1, 2011 (Tier 2 employees).

Public School Teachers' Pension and Retirement Fund of Chicago - Tier 2 Plan Summary (P.A. 96-0889)

Retirement Age

- Age 67 with 10 years of service
- Age 62 with 10 years of service (reduced annuity)

Retirement Formula

• 2.2% of final average salary for each year of service

Maximum Annuity

• 75% of final average salary or \$1,500 per month, whichever is greater

Salary Used to Calculate Pension

- Highest 96 consecutive months of service within the last 120 months of service
- Pensionable Salary is limited by an amount tied to the 2010 Social Security Wage Base of \$106,800. This amount increases annually by 3% or ½ of the increase in the Consumer Price Index-U, whichever is less. The salary limits for calendar years 2020, 2021, and 2022 are \$115,929, \$116,740, and \$119,892, respectively.

Annual COLA

• Simple 3% or ½ of the increase in the Consumer Price Index-U, whichever is less

Employee Contributions

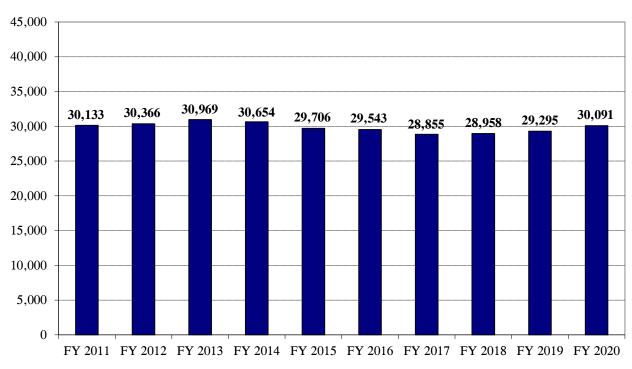
• 9.0% of salary

Employer Contributions

Pursuant to P.A. 96-0889, for fiscal years 2014 through 2059 the employer (the Board of Education) is required to make contributions calculated as a level percentage of payroll sufficient to bring the fund's total assets up to 90% of the fund's total liabilities by the end of FY 2059. In years where the funded ratio is above 90%, the employer is not required to make contributions.

P.A. 99-0521, effective June 1, 2017, allows the Board of Education to levy annually a property tax capped at 0.383% for purposes of making employer contributions.

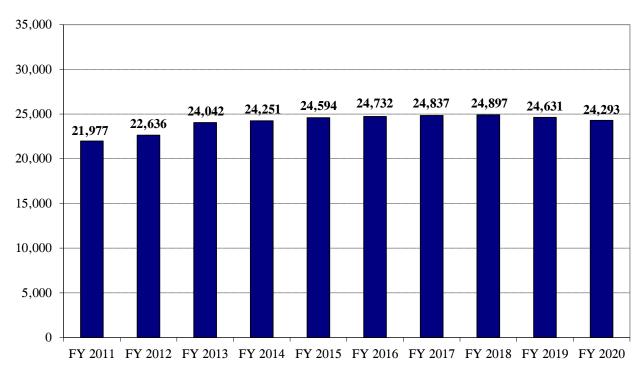
P.A. 100-0465, effective August 31, 2017, increases the property tax cap from 0.383% to 0.567% beginning FY 2018. Also, the Act requires the State to pay \$221.3 million for FY 2018 and an amount equal to the employer normal cost portion of the required Board of Education contributions beginning FY 2019.



CHICAGO TEACHERS' PENSION FUND Active Employees

CHART 92

CHICAGO TEACHERS' PENSION FUND Employee Annuitants



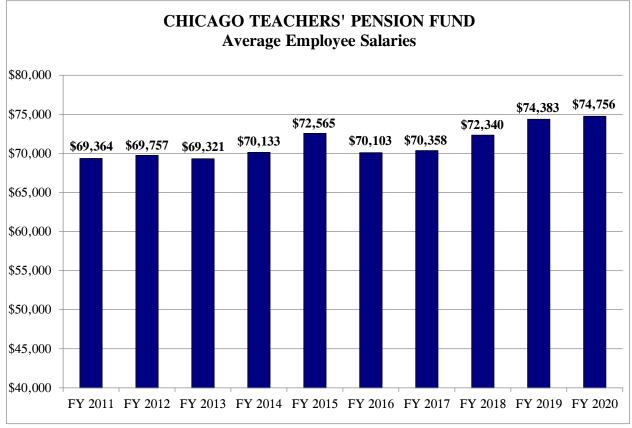
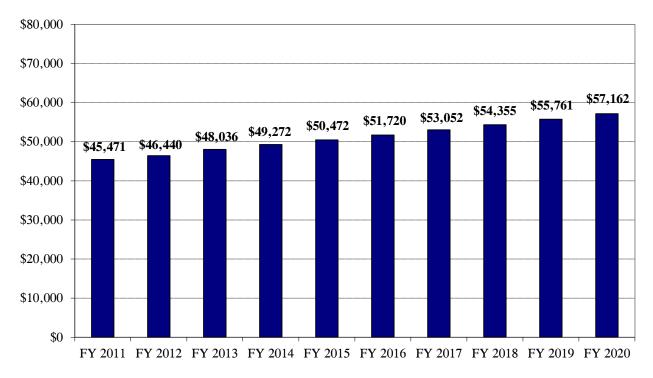
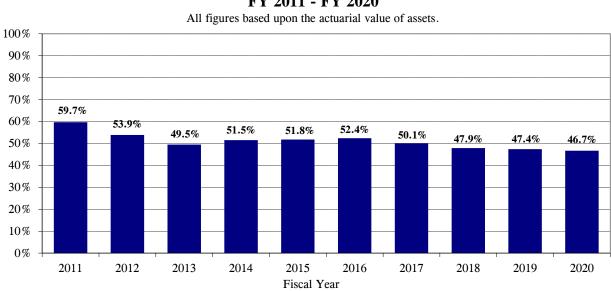


CHART 94

CHICAGO TEACHERS' PENSION FUND Average Retirement Annuities

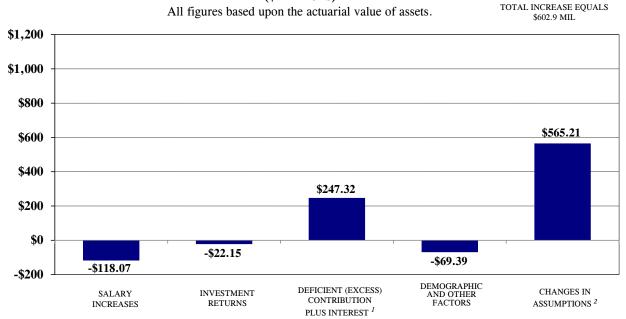




CHICAGO TEACHERS' PENSION FUND Funded Ratio FY 2011 - FY 2020

CHART 96

CHICAGO TEACHERS PENSION FUND Change in Unfunded Liabilities Year ended June 30, 2020 (\$ Millions)



¹ Unfunded liability increased due to contributions being less than normal cost, plus interest cost.

² Unfunded liability increased due to actuarial assumption changes, which included a decrease in the assumed investment return to 6.75% from 7.00%.

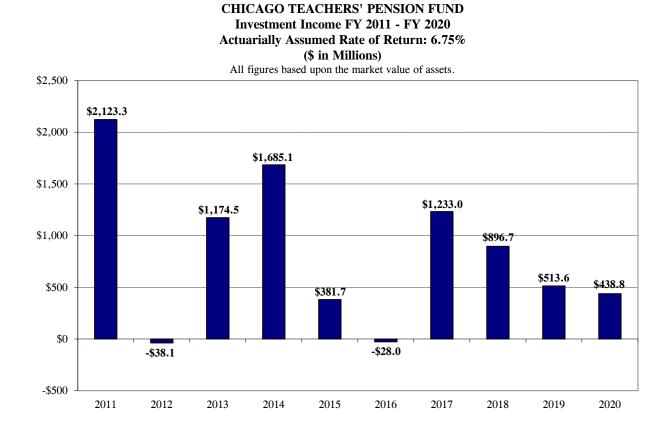
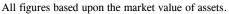
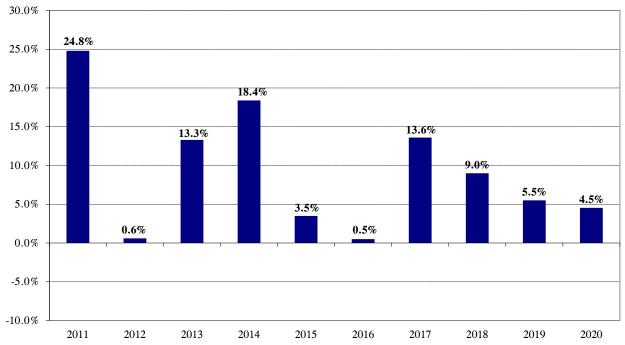


CHART 98

CHICAGO TEACHERS' PENSION FUND Rate of Return FY 2011 - FY 2020 Actuarially Assumed Rate of Return: 6.75%





2013

2012

2011

2,239.3

2,224.9

2,090.1

	CHICAGO TEACHERS PENSION FUND System Experience, FY 2011 - FY 2020 (\$ in Millions)											
Fiscal Year	Annual Payroll	Actuarial Liabilities	Actuarial Assets	Unfunded Liabilities	Funded Ratio							
2020	2,249.5	24,073.5	11,240.2	12,833.3	46.7%							
2019	2,179.1	23,252.2	11,021.8	12,230.4	47.4%							
2018	2,094.8	22,922.9	10,969.1	11,953.8	47.9%							
2017	2,030.2	21,822.0	10,933.0	10,889.0	50.1%							
2016	2,281.3	20,246.1	10,610.7	9,635.4	52.4%							
2015	2,273.6	19,951.3	10,344.4	9,606.9	51.8%							
2014	2,233.3	19,503.9	10,045.5	9,458.4	51.5%							

9,422.5

9,364.1

10,109.3

19,044.5

17,375.7

16,940.3

9,622.0

8,011.6

6,831.0

49.5%

53.9%

59.7%

CHICAGO TEACHERS PENSION FUND Changes in Net Assets (\$ in Millions)										
Fiscal Years	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Additions to Assets										
Employer	\$802.5	\$749.5	\$717.5	\$697.8	\$635.1	\$643.7	\$585.4	\$142.6	\$138.8	\$208.6
Employees	\$196.1	\$190.6	\$183.7	\$187.5	\$191.9	\$191.2	\$187.8	\$188.4	\$187.1	\$185.9
Net Investment Income	\$438.8	\$513.6	\$896.7	\$1,233.0	-\$28.2	\$381.7	\$1,685.1	\$1,174.5	-\$38.1	\$2,123.3
Other	\$1.5	\$1.7	\$1.5	\$0.2	\$1.5	\$0.9	\$0.0	\$0.0	\$0.4	\$10.4
Total Asset Additions (A)	\$1,438.9	\$1,455.3	\$1,799.4	\$2,118.5	\$800.2	\$1,217.5	\$2,458.3	\$1,505.5	\$288.2	\$2,528.2
Deductions from Assets										
Benefits	\$1,502.7	\$1,471.1	\$1,441.2	\$1,392.7	\$1,351.3	\$1,307.7	\$1,273.5	\$1,232.3	\$1,117.2	\$1,050.9
Refunds	\$20.2	\$24.5	\$25.1	\$32.2	\$33.6	\$23.9	\$32.8	\$24.8	\$36.3	\$27.1
Rebates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Administrative Expenses	\$17.8	\$25.6	\$21.5	\$13.8	\$12.3	\$11.7	\$10.5	\$11.5	\$10.1	\$9.5
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$78.9
Total Asset Deductions (B)	\$1,540.7	\$1,521.2	\$1,487.8	\$1,438.7	\$1,397.1	\$1,343.3	\$1,316.8	\$1,268.6	\$1,163.6	\$1,166.4
Change in Net Assets (A-B=C)	-\$101.8	-\$65.9	\$311.6	\$679.8	-\$596.9	-\$125.7	\$1,141.5	\$236.9	-\$875.4	\$1,361.8

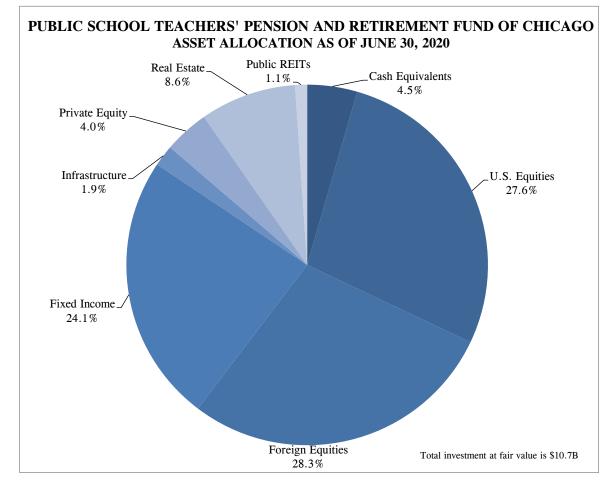
Table 34 below contains funding projections based on the June 30, 2020 actuarial valuation of the Chicago Teachers' Pension Fund.

TABLE 34

IADLE	Chicago Teachers' Pension Fund Actuarial Valuation Projection Results as of June 30, 2020 Projections Resed on P. A. 00.0655, P. A. 01.0357, P. A. 06.0880, P. A. 100.0465									
Projections Based on P.A. 90-0655, P.A. 91-0357, P.A. 96-0889, P.A. 100-0465 (\$ in Millions)										
Fiscal Year	Capped Payroll	Total Employer Contributions ¹	Employer Contribution As % of Payroll	Total Employee Contribution	Total Actuarial Liability	Actuarial Value of Assets	Unfunded Actuarial Liability	Funded Ratio		
2021	2,267.3	885.9	39.1%	204.1	24,479.0	11,307.1	13,171.9	46.2%		
2022	2,325.1	944.7	40.6%	209.3	24,891.0	11,378.0	13,513.0	45.7%		
2023	2,379.8	966.9	40.6%	214.2	25,310.1	11,504.3	13,805.8	45.5%		
2024	2,434.2	989.0	40.6%	219.1	25,735.9	11,710.8	14,025.1	45.5%		
2025	2,488.0	1,010.9	40.6%	223.9	26,166.1	11,931.2	14,234.9	45.6%		
2026	2,541.5	1,032.6	40.6%	228.7	26,600.7	12,164.9	14,435.8	45.7%		
2027	2,594.8	1,054.2	40.6%	233.5	27,039.1	12,410.5	14,628.6	45.9%		
2028	2,647.7	1,075.7	40.6%	238.3	27,479.9	12,666.3	14,813.6	46.1%		
2029	2,700.1	1,097.0	40.6%	243.0	27,922.1	12,932.1	14,990.0	46.3%		
2030	2,753.1	1,118.6	40.6%	247.8	28,362.3	13,206.0	15,156.3	46.6%		
2031	2,807.2	1,140.5	40.6%	252.6	28,814.0	13,503.0	15,311.0	46.9%		
2032	2,861.3	1,162.5	40.6%	257.5	29,263.7	13,811.1	15,452.6	47.2%		
2033	2,915.8	1,184.7	40.6%	262.4	29,709.6	14,129.9	15,579.7	47.6%		
2034	2,971.2	1,207.2	40.6%	267.4	30,150.3	14,460.2	15,690.1	48.0%		
2035	3,026.9	1,229.8	40.6%	272.4	30,584.2	14,802.1	15,782.1	48.4%		
2036	3,083.0	1,252.6	40.6%	277.5	31,010.0	15,158.3	15,851.7	48.9%		
2037	3,139.3	1,275.5	40.6%	282.5	31,426.1	15,529.7	15,896.4	49.4%		
2038	3,196.2	1,298.6	40.6%	287.7	31,831.2	15,917.3	15,913.9	50.0%		
2039	3,254.0	1,322.1	40.6%	292.9	32,223.2	16,321.7	15,901.5	50.7%		
2040	3,313.2	1,346.1	40.6%	298.2	32,600.1	16,743.9	15,856.2	51.4%		
2041	3,374.4	1,371.0	40.6%	303.7	32,959.7	17,185.5	15,774.2	52.1%		
2042	3,436.1	1,396.1	40.6%	309.3	33,300.0	17,647.2	15,652.8	53.0%		
2043	3,500.2	1,422.1	40.6%	315.0	33,621.1	18,132.3	15,488.8	53.9%		
2044	3,567.7	1,449.5	40.6%	321.1	33,923.6	18,645.4	15,278.2	55.0%		
2045	3,637.8	1,478.0	40.6%	327.4	34,209.8	19,191.6	15,018.2	56.1%		
2046	3,712.4	1,508.3	40.6%	334.1	34,483.5	19,778.5	14,705.0	57.4%		
2047	3,790.9	1,540.2	40.6%	341.2	34,747.2	20,412.5	14,334.7	58.7%		
2048	3,873.2	1,573.6	40.6%	348.6	35,006.2	21,102.5	13,903.7	60.3%		
2049	3,959.2	1,608.6	40.6%	356.3	35,264.2	21,856.6	13,407.6	62.0%		
2050	4,047.5	1,644.5	40.6%	364.3	35,522.7	22,681.1	12,841.6	63.8%		
2051	4,136.1	1,680.4	40.6%	372.2	35,782.6	23,581.0	12,201.6	65.9%		
2052	4,224.4	1,716.3	40.6%	380.2	36,043.1	24,560.1	11,483.0	68.1%		
2053	4,313.0	1,752.3	40.6%	388.2	36,303.4	25,622.4	10,681.0	70.6%		
2054	4,402.8	1,788.8	40.6%	396.2	36,562.2	26,772.2	9,790.0	73.2%		
2055	4,493.8	1,825.8	40.6%	404.4	36,816.0	28,012.0	8,804.0	76.1%		
2056	4,585.9	1,863.2	40.6%	412.7	37,061.7	29,345.2	7,716.5	79.2%		
2057	4,679.0	1,901.0	40.6%	421.1	37,298.4	30,777.6	6,520.8	82.5%		
2058	4,772.9	1,939.2	40.6%	429.6	37,527.0	32,317.8	5,209.2	86.1%		
2059	4,867.5	1,977.6	40.6%	438.1	37,750.0	33,975.7	3,774.3	90.0%		

¹ Total employer contributions consist of the required Board of Education contributions, additional Board of Education contributions, required State contributions, and additional State contributions.

Chicago Teachers' Pension Fund Projected Normal Cost as of June 30, 2020 (\$ in Millions)										
Fiscal Year	Employer's Normal Cost	Employer's Normal Cost as a % of Payroll	Employee Contributions	Employee Contributions as a % of Payroll	Total Normal Cost	Total Normal Cost as a % of Payroll				
2021	260.6	11.5%	204.1	9.0%	464.7	20.5%				
2022	264.8	11.4%	209.3	9.0%	474.1	20.4%				
2023	269.0	11.3%	214.2	9.0%	483.2	20.3%				
2024	272.6	11.2%	219.1	9.0%	491.7	20.2%				
2025	275.4	11.1%	223.9	9.0%	499.3	20.1%				
2026	277.9	10.9%	228.7	9.0%	506.6	19.9%				
2027	279.8	10.8%	233.5	9.0%	513.3	19.8%				
2028	280.9	10.6%	238.3	9.0%	519.2	19.6%				
2029	281.5	10.4%	243.0	9.0%	524.5	19.4%				
2030	281.3	10.2%	247.8	9.0%	529.1	19.2%				
2031	280.7	10.0%	252.6	9.0%	533.3	19.0%				
2032	279.5	9.8%	257.5	9.0%	537.0	18.8%				
2033	277.7	9.5%	262.4	9.0%	540.1	18.5%				
2034	275.3	9.3%	267.4	9.0%	542.7	18.3%				
2035	273.3	9.0%	272.4	9.0%	544.7	18.0%				
2035	266.7	9.0 % 8.7 %	272.4	9.0 <i>%</i>	544.2	17.7%				
2030	260.4	8.3%	282.5	9.0 <i>%</i>	542.9	17.3%				
2038	253.5	0. <i>3</i> %	282.5	9.0 <i>%</i>	541.2	16.9%				
2038	235.3	7.9%	292.9	9.0 <i>%</i>	539.1	16.6%				
2039 2040	240.2	7.0%	292.9	9.0 <i>%</i>	536.7	16.2%				
	238.3									
2041		6.8%	303.7	9.0%	533.9	15.8%				
2042	221.6	6.4%	309.3	9.0%	530.9	15.5%				
2043	213.5	6.1%	315.0	9.0%	528.5	15.1%				
2044	206.0	5.8%	321.1	9.0%	527.1	14.8%				
2045	199.6	5.5%	327.4	9.0%	527.0	14.5%				
2046	194.5	5.2%	334.1	9.0%	528.6	14.2%				
2047	191.0	5.0%	341.2	9.0%	532.2	14.0%				
2048	189.0	4.9%	348.6	9.0%	537.6	13.9%				
2049	188.3	4.8%	356.3	9.0%	544.6	13.8%				
2050	188.3	4.7%	364.3	9.0%	552.6	13.7%				
2051	188.8	4.6%	372.2	9.0%	561.0	13.6%				
2052	189.8	4.5%	380.2	9.0%	570.0	13.5%				
2053	191.4	4.4%	388.2	9.0%	579.6	13.4%				
2054	193.5	4.4%	396.2	9.0%	589.7	13.4%				
2055	196.1	4.4%	404.4	9.0%	600.5	13.4%				
2056	199.1	4.3%	412.7	9.0%	611.8	13.3%				
2057	202.5	4.3%	421.1	9.0%	623.6	13.3%				
2058	206.2	4.3%	429.6	9.0%	635.8	13.3%				
2059	210.2	4.3%	438.1	9.0%	648.3	13.3%				



COMMISSION OVERVIEW

The Commission on Government Forecasting & Accountability is a bipartisan legislative support service agency responsible for advising the Illinois General Assembly on economic and fiscal policy issues and for providing objective policy research for legislators and legislative staff. The Commission's board is comprised of twelve legislators—split evenly between the House and Senate and between Democrats and Republicans. Effective December 10, 2018, pursuant to P.A. 100-1148 the former Legislative Research Unit was merged into the Commission.

The Commission has three internal units—Revenue, Pensions, and Research, each of which has a staff of analysts and researchers who analyze policy proposals, legislation, state revenues & expenditures, and benefit programs, and who provide research services to members and staff of the General Assembly. The Commission's staff fulfills the statutory obligations set forth in the Commission on Government Forecasting and Accountability Act (25 ILCS 155/), the State Debt Impact Note Act (25 ILCS 65/), the Illinois Pension Code (40 ILCS 5/), the Pension Impact Note Act (25 ILCS 55/), the State Facilities Closure Act (30 ILCS 608/), the State Employees Group Insurance Act of 1971 (5 ILCS 375/), the Public Safety Employee Benefits Act (820 ILCS 320/), the Legislative Commission Reorganization Act of 1984 (25 ILCS 130/), and the Reports to the Commission on Government Forecasting and Accountability Act (25 ILCS 110/).

- The Revenue Unit issues an annual revenue estimate, reports monthly on the state's financial and economic condition, and prepares bill analyses and debt impact notes on proposed legislation having a financial impact on the State. The Unit publishes a number of statutorily mandated reports, as well as on-demand reports, including the *Monthly Briefing* newsletter and annually, the *Budget Summary, Capital Plan Analysis, Illinois Economic Forecast Report, Wagering in Illinois Update*, and *Liabilities of the State Employees' Group Insurance Program*, among others. The Unit's staff also fulfills the agency's obligations set forth in the State Facilities Closure Act.
- The Pension Unit prepares pension impact notes on proposed pension legislation and publishes several statutorily mandated reports including the Financial Condition of the Illinois State Retirement Systems, the Financial Condition of Illinois Public Pension Systems and the Fiscal Analysis of the Downstate Police & Fire Pension Funds in Illinois. The Unit's staff also fulfills the statutory responsibilities set forth in the Public Safety Employee Benefits Act.
- The Research Unit primarily performs research and provides information as may be requested by members of the General Assembly or legislative staffs. Additionally, the Unit maintains a research library and, per statute, collects information concerning state government and the general welfare of the state, examines the effects of constitutional provisions and previously enacted statutes, and considers public policy issues and questions of state-wide interest. Additionally, the Unit publishes *First Reading*, a quarterly newsletter which includes abstracts of annual reports or special studies from other state agencies, the *Illinois Tax Handbook for Legislators*, *Federal Funds to State Agencies*, various reports detailing appointments to State Boards and Commissions, the 1970 Illinois Constitution Annotated for Legislators, the Roster of Illinois Legislators, and numerous special topic publications.

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