

Delaware State Judiciary Pension Plan

Actuarial Valuation as of June 30, 2016

Produced by Cheiron

March 2017

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March 10, 2017

Board of Pension Trustees State of Delaware McArdle Building 860 Silver Lake Boulevard, Suite 1 Dover, Delaware 19904

Dear Members of the Board:

At your request, we have conducted the annual actuarial valuation of the Delaware State Judiciary Pension Plan (Plan) as of June 30, 2016. The results of this valuation are contained in this report. The purpose of the valuation is discussed in the Foreword.

This report contains information on Plan assets and liabilities, as well as analyses combining asset and liability performance and projections. It also discloses State contribution levels and required disclosures under the Governmental Accounting Standards Board (GASB) Statement No. 67.

In completing the valuation and preparing our report, we relied on information, some oral and some written, supplied by staff of the Office of Pensions. This information includes, but is not limited to, the Plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

The contribution results of this report are only applicable to the State contribution for Fiscal Year (FY) 2018 and rely on future Plan experience conforming to the underlying assumptions. To the extent that actual Plan experience deviates from the underlying assumptions, the results would vary accordingly.

To the best of our knowledge, this report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices that are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinions contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

This report was prepared for the Delaware State Judiciary Pension Plan for the purposes described herein and for the use by the Plan auditor in completing an audit related to the matters herein. Other users of this valuation report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

Sincerely, Cheiron

Fiona E. Liston, FSA

Principal Consulting Actuary

Elizabeth Wiley, FSA, EA Consulting Actuary

FOREWORD

Cheiron has performed the annual actuarial valuation of the Delaware State Judiciary Pension Plan (Plan) as of June 30, 2016. The purpose of this report is to:

- 1) Measure and disclose, as of the valuation date, the financial condition of the Plan,
- 2) Indicate trends in the financial condition of the Plan,
- 3) Determine the contribution rate to be paid by the State for Fiscal Year (FY) 2018, and
- 4) **Provide** accounting statement information.

An actuarial valuation establishes and analyzes plan assets and liabilities on a consistent basis and traces the progress of both from one year to the next. It includes measurement of the plan's investment performance as well as an analysis of liability gains and losses.

Section I presents a summary containing our findings and disclosing important trends experienced by the Plan in recent years.

Section II contains details on various asset measures, together with pertinent performance measurements.

Section III shows similar information on liabilities, measured for actuarial, accounting, and governmental reporting purposes.

Section IV presents the FY 2018 actuarially determined contribution.

Section V includes required disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67 and items recommended by the Government Finance Officers Association (GFOA).

The appendices to this report contain a summary of the Plan's membership at the valuation date, a summary of the major provisions of the Plan, and a summary of the actuarial methods and assumptions used in the valuation.

The actuarial assumptions reflect our understanding of the likely future experience of the Plan, and the assumptions individually and as a whole represent our best estimate for the future experience of the Plan. The results of this report rely on future Plan experience conforming to the underlying assumptions and methods outlined in this report. To the extent that the actual Plan experience deviates from the underlying assumptions and methods, or there are any changes in Plan provisions, the true cost of the Plan would vary from our results.



SECTION I - BOARD SUMMARY

General Comments

The actuarially determined contribution (ADC) rate decreased from 22.13% for FY 2017 to 19.87% for FY 2018.

During the year ended June 30, 2016, the Plan's assets earned negative 1.6% on a market value basis. However, due to the Plan's asset smoothing method, which recognizes only a portion of investment gains and losses, the return on an actuarial value basis was 5.6%. This return was less than the assumed investment rate of return of 7.2% for last year, resulting in an actuarial loss on investments of \$1.2 million.

The Plan experienced an actuarial gain on Plan liabilities resulting from salary increases different from those assumed and members retiring, terminating, becoming disabled, and dying at rates different from the actuarial assumptions. This liability gain decreased the actuarial liability by \$2.0 million. This type of gain or loss is normal in the course of plan experience, as we cannot predict exactly how people will behave. In addition to the actuarial gain, the Plan's liabilities also decreased by \$2.0 million due to changes in assumptions as recommended in an experience study performed in 2016.

This valuation report also contains information to be reported in the June 30, 2016 Comprehensive Annual Financial Report (CAFR) of the Delaware Public Employees' Retirement System (Delaware PERS) under GASB Statement No. 67, as well as additional disclosure information recommended by the Government Finance Officers Association (GFOA). The GASB disclosures are based on the use of updated procedures to roll forward the 2015 actuarial valuation liability results. The calculation of net pension liability in Section V is shown as disclosed for the plan year ending June 30, 2016, based on the 2015 funding actuarial valuation liability results, updated to reflect the assumption changes adopted by the Board of Trustees as recommended in the recent experience study. We also present a projection of the June 30, 2017 disclosure in Section V, assuming all actuarial assumptions are met over the coming year, which is based on the 2016 funding actuarial valuation liability results.

As of the June 30, 2016 funding actuarial valuation, the Plan reported a net surplus of \$3.1 million. This is an improvement over the \$0.5 million surplus for the prior year.

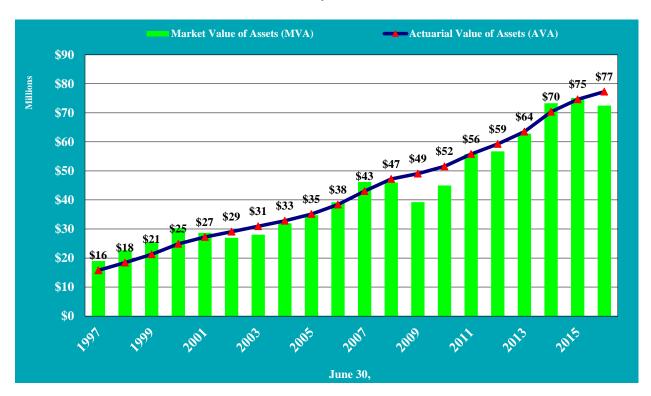


SECTION I - BOARD SUMMARY

Trends

Growth in Assets

The graph below shows measurements of the Plan's assets over the last 20 years based on both market values and actuarial values. The green bars represent the market value measurements, while the blue line shows the actuarial value measurements. The black numbers are the actuarial value of assets as of the valuation date for each year in millions of dollars.



The market value of assets (MVA) returned negative 1.6% over the last year. The determination of the Plan's actuarial value of assets (AVA) for the current year reflects a portion of the return above the 7.2% assumed for the year, and continued recognition of prior years' gains and losses, and thus returned 5.6% over FY 2016.

Over the period of July 1, 1997 to June 30, 2016, the Plan's assets have had an approximately 8.5% annual geometric return on an actuarial value basis, compared to the current valuation assumption of 7.2%.



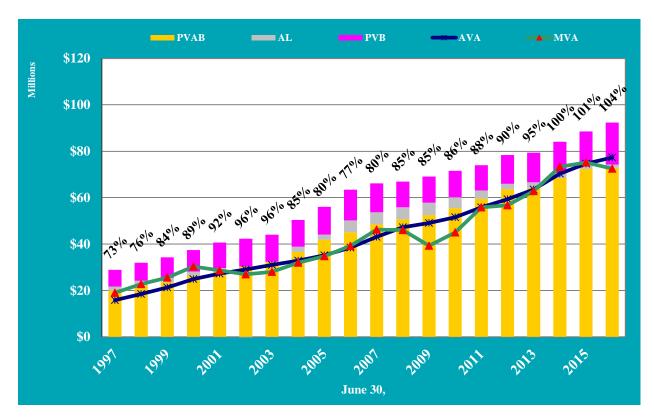
SECTION I - BOARD SUMMARY

Assets and Liabilities

The three colored bars below represent the three different measures of liability discussed in this report. The first measure is given by the yellow bars, the present value of accrued benefits (PVAB). The PVAB values represent the value of all benefits earned by current members through the valuation date. These values do not reflect any future additional service or salary increases for current members beyond the valuation date.

The second liability measure is the one currently used for the Plan's funding target, the actuarial liability (AL). These target amounts are represented by the top of the gray bars. This measurement is also the basis of the liability measure in GASB 67. The funded ratios reported by the Plan are the percentages shown above the bars and are developed by comparing these target measurements of liability to the actuarial value of assets at each valuation date.

The amount represented by the top of the pink bars, the present value of future benefits (PVB), is the amount needed to provide all benefits for the current members and their beneficiaries, including reflection of assumed future service and pay increases. If the Plan had assets equal to the PVB as of a certain date, no additional contributions would, in theory, be needed to pay the benefits of the current members if all assumptions were exactly met from that point forward.





SECTION I - BOARD SUMMARY

Contribution Rates



The stacked bars in the graph above show the dollar amounts of the contributions made by the State, the Post-Retirement Increase Fund (PRI), and the members for each fiscal year and are read using the left-hand scale. The blue line shows the State ADC rate as a percentage of payroll (right-hand scale).

The member contribution rate is set by State law, based on the Plan in which the member participates. The State contribution rate is set by the actuarial process, while the PRI transfer amounts depend on the increases granted by the State Legislature. Please note that there is a lag in the State contribution rate shown. For example, the value shown for the FY 2016 is the rate prepared by the June 30, 2014 valuation and implemented for the period July 1, 2015 to June 30, 2016.



SECTION I - BOARD SUMMARY

Participant Trends

The bars below show the number of members as of each valuation date, divided between active members, terminated vested members, and retirees/beneficiaries. These bars should be read using the left-hand scale. As with most maturing funds, this plan continues to show growth in the number of inactive members. The numbers that appear above each bar represent the ratio of active members to inactive members (retirees, beneficiaries, and terminated vested members) at each valuation date. The active-to-inactive ratio has decreased from 1.6 actives to each inactive in 1997 to 1.1 actives for each inactive today.

The black line shows the covered payroll for the Plan as of each valuation date and is read using the right-hand scale.

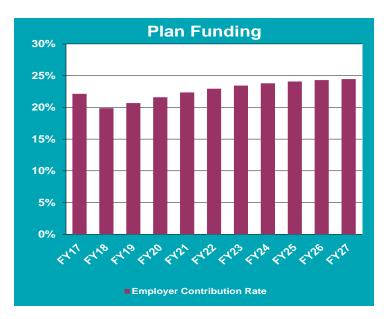




SECTION I - BOARD SUMMARY

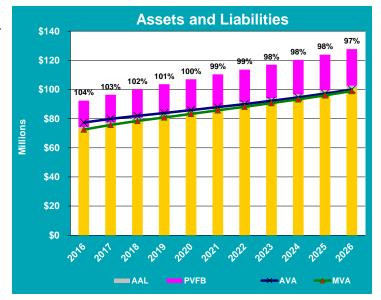
Future Outlook

Baseline Projections



These graphs show the expected progress of the Plan over the next 10 years, assuming the Plan's assets earn 7.2% on a *market value* basis and assuming all assumptions are exactly met, including that the actuarially determined contribution (ADC) amounts are made in full. The chart entitled "Plan Funding" shows the State ADC rate increase over time to 24.5%, as existing investment losses are recognized by the asset smoothing method.

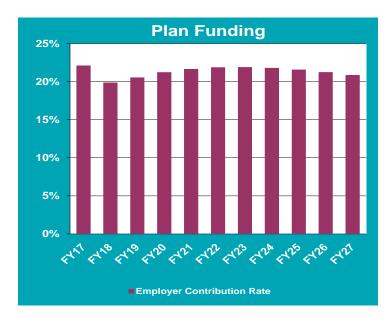
The "Assets and Liabilities" graph shows the projected funded ratios of the Plan over the next 10 years. The Plan's funded status is projected to decline to 97% over the projection period, assuming all assumptions are exactly met.





SECTION I - BOARD SUMMARY

Projections with Asset Returns of 8.2%

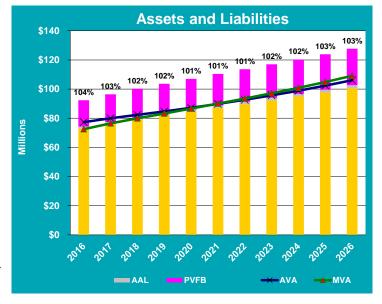


The Plan's investment earnings will affect the future funding status of the Plan. The two graphs on this page show what the next 10 years would be expected to look like if the Plan's investment performance is 8.2% each year, 1.0% higher than the valuation investment rate of return assumption.

These two graphs assume all other assumptions are exactly met, including State contributions equal to the full actuarially determined amounts.

The "Plan Funding" graph shows that under this scenario the State ADC rate would continue to increase for a couple of years beyond the FY 2018 rate determined by this valuation, as the stored investment losses are recognized by the asset smoothing method. Then the rate stabilizes and begins to slowly decline.

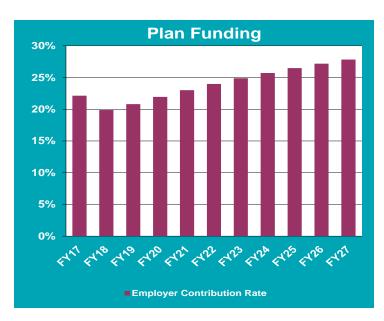
The "Assets and Liabilities" graph shows that under this scenario the Plan would reach a 103% funded ratio by 2026, an improvement over the baseline scenario's ultimate level of 97%.





SECTION I - BOARD SUMMARY

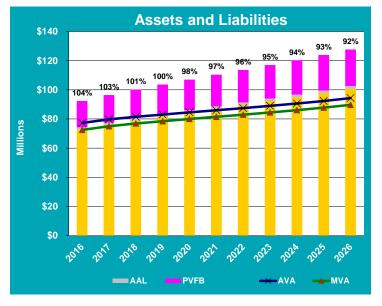
Projections with Asset Returns of 6.2%



The graphs on this page show projections of the Plan's funding status and contributions assuming that the Plan's investment performance is 6.2% each year of the projection, 1.0% lower than the valuation investment rate of return assumption.

Note that these projections assume all other assumptions are exactly met, including payment of State contributions equal to the full actuarially determined contribution.

Under this scenario, the State's ADC quickly increases to approximately 27.8% of payroll by the end of the 10-year period, compared to 24.5% ultimate rate in the baseline projection. Additionally, the funded ratio is projected to drop in this scenario, reaching 92% at the end of the 10-year period, compared to the 97% ultimate ratio in the baseline projection.





SECTION I - BOARD SUMMARY

Table I-1 Summary of Principal Plan Results					
Valuation as of:		•			% Change
M 1 G 1	•	June 30, 2015		June 30, 2016	
Member Counts				5 0	2.570/
Active Members		56		58	3.57%
Disabled Members		2		2	0.00%
Retirees and Beneficiaries		45		49	8.89%
Terminated Vested Members		1		1	0.00%
Terminated Non-Vested Members		0		0	N/A
Total Member Counts		104		110	5.77%
Covered Payroll of Active Members*	\$	10,370,300	\$	10,678,500	2.97%
Annual Benefit Payments for Retirees,					
Disabled Members, and Beneficiaries	\$	4,076,700	\$	4,435,800	8.81%
Assets and Liabilities					
Actuarial Liability (AL)	\$	74,147,800	\$	74,221,400	0.10%
Actuarial Value of Assets (AVA)	Ψ	74,658,800	Ψ	77,302,000	3.54%
Unfunded AL (UAL)	\$	(511,000)	\$	(3,080,600)	(502.86%)
Funded Ratio on AVA Basis (AVA/AL)		100.7%		104.2%	` '
Funded Ratio on MVA Basis (MVA/AL)		101.4%		97.7%	
Present Value of Accrued Benefits (PVAB)	\$	72,297,900	\$	72,874,500	0.80%
Market Value of Assets (MVA)		75,150,600		72,499,400	(3.53%)
Unfunded PVAB	\$	(2,852,700)	\$	375,100	113.15%
Accrued Benefit Funded Ratio					
(PVAB/MVA)		103.9%		99.5%	
State Contribution Rate	Fi	scal Year 2017	F	iscal Year 2018	
Entry Age Normal Cost		22.93%	-	22.72%	
UAL Amortization Payment		(0.90%)		(2.95%)	
Administrative Expense		0.10%		0.10%	
Actuarially Determined Contribution (ADC)		22.13%		19.87%	

^{*}Assumes one year of payroll increase projection, so represents payroll beginning on each valuation date.



SECTION II - ASSETS

Pension plan assets play a key role in the financial operation of the Plan and in the decisions that the Board of Trustees may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely affect benefit levels, State actuarially determined contributions, and the ultimate security of members' benefits.

In this section, we present detailed information on the Plan's assets including:

- **Disclosure** of the Plan's assets at June 30, 2015 and June 30, 2016,
- Statement of the **changes** in market values during FY 2016,
- Development of the actuarial value of assets,
- An assessment of investment performance, and
- A projection of the Plan's expected **cash flows** for the next 10 years.

Market Value of Assets Disclosure

The market values of assets represent "snap-shot or cash-out" values that provide the principal basis for measuring financial performance from one year to the next. However, market values can fluctuate widely with swings in the marketplace, and as such, are usually not suitable for budgeting and long-range planning.

Table II-1 below shows the market values as of June 30, 2015 and June 30, 2016, along with the changes between the two.

Table II-1 Changes in Market Value of Assets					
Market Value of Assets – June 30, 2015		\$ 75,150,600			
<u>Additions</u>					
Member Contributions	\$ 339,400				
State Contributions	2,236,900				
PRI Transfers	236,900				
Investment Returns	(1,172,800)				
Total Additions	\$ 1,640,400				
Deductions					
Benefit Payments	\$ 4,277,400				
Administrative Expenses	14,200				
Total Deductions	\$ 4,291,600				
Market Value of Assets – June 30, 2016		\$ 72,499,400			



SECTION II - ASSETS

Actuarial Value of Assets

The actuarial value of assets represents a "smoothed" value developed by the actuary to reduce, or eliminate, erratic results that could develop from short-term fluctuations in the market value of assets. The actuarial value for this plan equals the expected actuarial value of assets, developed from the immediately prior valuation, plus 20% of the difference between the actual market value of assets and that expected actuarial value of assets at the valuation date. The table below illustrates the calculation of the actuarial value of assets as of June 30, 2016.

	Table II-2 Development of Actuarial Value of Assets	
1.	Actuarial Value of Assets at June 30, 2015	\$ 74,658,800
2.	Amount in (1) with interest to June 30, 2016 at 7.20% per year	\$ 80,034,200
3.	State, PRI and member contributions for the Plan Year ended June 30, 2016	2,813,200
4.	Interest on contributions assuming payments made uniformly throughout the year to June 30, 2016 at 7.20% per year	101,300
5.	Disbursements from Trust except investment expenses, July 1, 2015 through June 30, 2016	4,291,600
6.	Interest on disbursements to June 30, 2016 at 7.20% per year	 154 <u>,500</u>
7.	Expected Actuarial Value of Assets at June 30, 2016 $= (2) + (3) + (4) - (5) - (6)$	\$ 78,502,600
8.	Actual Market Value of Assets at June 30, 2016	\$ 72,499,400
9.	Excess of (8) over (7)	\$ (6,003,200)
10.	Actuarial Value of Assets at June 30, 2016 = (7) + 20% of (9)	\$ 77,302,000



SECTION II - ASSETS

Investment Performance

The market value of assets (MVA) returned negative 1.6% during 2016, which is less than the assumed 7.2% investment rate of return. The actuarial value of assets (AVA) returned 5.6% over this same year, reflecting the asset smoothing method being utilized by the Plan for the measurement of the actuarial value of assets. Since only 20% of the gain or loss from the performance of the Plan is recognized in a given year, in periods of very good performance, the AVA can lag significantly behind the MVA, and in a period of negative returns, the AVA does not decline as rapidly as the MVA.

Projection of Cash Flows

Year Beginning July 1,	Table II-3 Cash Flow Projections Expected Benefit Payments	Expected Contributions*
2016	\$ 4,825,000	\$ 2,932,000
2017	5,303,000	2,626,000
2018	5,835,000	2,692,000
2019	6,152,000	2,690,000
2020	6,439,000	2,757,000
2021	6,788,000	2,826,000
2022	6,976,000	2,897,000
2023	7,251,000	2,969,000
2024	7,356,000	3,043,000
2025	7,459,000	3,119,000

^{*} Expected contributions include State contributions, member contributions, and PRI transfers. For illustration purposes, we have assumed the State contribution rate will remain level and that payroll will increase at the actuarially assumed rate of 2.50% per year.

Expected benefit payments are projected for the closed group valued at June 30, 2016. Projecting any further than 10 years using a closed-group would not yield reliable predictions due to the omission of new hires in the benefit payments, compounded by their inclusion in the expected contributions.



SECTION III - LIABILITIES

In this section, we present detailed information on the Plan's liabilities for funding purposes, including:

- **Disclosure** of the Plan's liabilities at June 30, 2015 and June 30, 2016, and
- Statement of **changes** in these liabilities during the year.

Disclosure

Three liability measurements are calculated and presented in this report. Each type is distinguished by the purpose, or purposes, for which they are used.

- **Present Value of Benefits (PVB):** Used for analyzing the financial outlook of the plans, this represents the amount of money needed today to fund all future benefits and expenses of a plan, assuming current members continue to accrue benefits and there are no new entrants, and that all actuarial assumptions are met.
- Actuarial Liability (AL): Used for funding calculations for a plan and GASB disclosures, this liability is calculated by taking the present value of benefits (PVB) and subtracting the present value of future member contributions (PVFEEC) and the present value of future State normal costs (PVFNC) under an acceptable actuarial funding method. The Plan uses the Entry Age Normal funding method.
- Present Value of Accrued Benefits (PVAB): Used for communicating the current level of liabilities, this liability represents the total amount of money needed today to fund the current accrued obligations of a plan, assuming no future accruals of benefits or salary increases. These liabilities are also required for some accounting purposes of some plans (Topic No. 960). This plan is not subject to this requirement, but this information is provided for informational purposes, as it is sometimes used as part of assessing whether a plan can meet its current benefit commitments. It is not, however, intended as a settlement liability value. Note that the development of this amount also assumes that all actuarial assumptions are met, including the assets earning 7.2% per year.

Note that none of the liability amounts disclosed in this report is appropriate for measuring a settlement of the Plan's liabilities.

The following table discloses each of these liabilities for the current and immediately prior funding valuations. With respect to each disclosure, a subtraction of an appropriate value of Plan assets yields, for each respective type, either a net surplus or an unfunded amount.



SECTION III - LIABILITIES

Table III-1							
Liabilities and Net (Surplus)/Unfunded Amounts							
June 30, 2015 June 30, 2016							
Present Value of Benefits				·			
Active Member Benefits	\$	52,754,800	\$	52,099,900			
Retiree, Beneficiary, Disabled, and Terminated				·			
Members Benefits		35,769,700		40,271,300			
Present Value of Benefits (PVB)	\$	88,524,500	\$	92,371,200			
Market Value of Assets (MVA)	\$	75,150,600	\$	72,499,400			
Future Member Contributions	4	1,932,400	4	2,509,500			
Future State Contributions & PRI Fund Transfers		11,441,500		17,362,300			
Total Resources	\$	88,524,500	\$	92,371,200			
Actuarial Liability							
Present Value of Benefits (PVB)	\$	88,524,500	\$	92,371,200			
Present Value of Future State Normal Costs	Ψ	00,521,500	Ψ	<i>>2,511,200</i>			
(PVFNC)		12,444,300		15,640,300			
Present Value of Future Member Contributions		12,111,500		12,010,200			
(PVFEEC)		1,932,400		2,509,500			
Actuarial Liability (AL=PVB-PVFNC-		1,952,100	-	2,007,000			
PVFEEC)	\$	74,147,800	\$	74,221,400			
Actuarial Value of Assets (AVA)	Ψ	74,658,800	4	77,302,000			
Net (Surplus)/Unfunded AL (AL – AVA)	\$	(511,000)	\$	(3,080,600)			
Present Value of Accrued Benefits							
Present Value of Benefits (PVB)	\$	88,524,500	\$	92,371,200			
Present Value of Future Benefit Accruals	4	00,02 .,000	4	>=,0 / 1,=00			
(PVFBA)		16,226,600		19,496,700			
Present Value of Accrued Benefits		10,220,000	-	19,190,700			
(PVAB=PVB-PVFBA)	\$	72,297,900	\$	72,874,500			
Market Value of Assets (MVA)	\$	75,150,600	\$	72,499,400			
Net (Surplus)/Unfunded PVAB (PVAB –	4	(- 0 -00)					
MVA)	\$	(2,852,700)	\$	375,100			



SECTION III - LIABILITIES

Changes in Liabilities

Each of the liabilities disclosed in the prior table are expected to change at each valuation. The components of that change, depending upon which liability is analyzed, can include:

- New entrants since the last valuation
- Benefits accrued since the last valuation
- Plan amendments increasing benefits
- Passage of time which adds interest to the prior liability
- Benefits paid to retirees since the last valuation
- Participants retiring, terminating, or dying at rates different than expected
- A change in actuarial or investment assumptions
- A change in the actuarial funding method

Unfunded liabilities (or surpluses), developed from subtraction of an appropriate value of Plan assets from these liability measures, will change because of all of the above as well as due to changes in Plan asset measures resulting from:

- State contributions different than expected
- Investment earnings different than expected
- A change in the method used to measure Plan assets

In each valuation, we report on those elements of change that are of particular significance, potentially affecting the long-term financial outlook of the Plan. Below we present key changes in liabilities since the last valuation, in thousands.

	Table III-2 Liability Changes		
(In Millions)	Present Value of Benefits	Actuarial Liability	Present Value of Accrued Benefits
Liabilities June 30, 2015	\$ 88,525	\$ 74,148	\$ 72,298
Liabilities June 30, 2016	92,371	74,221	72,875
Liability Increase/(Decrease)	3,846	73	577
Change Due to:			
PRI	0	0	0
Actuarial (Gain)/Loss	NC*	(2,017)	NC*
Benefit Changes	0	0	0
Assumption Changes	331	(1,953)	(1,483)
Benefits Accumulated and			
Other Sources	3,515	4,043	2,060

^{*} NC = not calculated



SECTION III - LIABILITIES

Table III-3 below provides additional information about the liability measurements for funding purposes as of both the current and the immediately prior valuations.

	Table III-3 Actuarial Liabilities for Funding						
	June 30, 2015 June 30, 2016						
1. Ac	ctuarial Liabilities						
Re	etiree, Beneficiary, Disabled, and Terminated						
M	embers	\$	35,769,700	\$	40,271,300		
Ac	ctive Members		38,378,100		33,950,100		
To	otal Actuarial Liability	\$	74,147,800	\$	74,221,400		
2. Ac	ctuarial Value of Assets	\$	74,658,800	\$	77,302,000		
3. Ur	nfunded Actuarial Liability (UAL)	\$	(511,000)	\$	(3,080,600)		
4. Pr	esent Value of Outstanding PRI Transfers	\$	526,200	\$	319,800		
5. No	et Base for 15-Year UAL Amortization (3-4)	\$	(1,037,200)	\$	(3,400,400)		



SECTION IV - CONTRIBUTIONS

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level, if any, of contributions are needed to properly maintain the funding status of the plan. Typically, the actuarial process will use a funding technique that will result in a pattern of contributions that are both fairly stable and predictable.

For this Plan, the funding method employed is the **Entry Age** actuarial funding method. Under this method, there are three components to the total contribution: the **normal cost contribution**, the **unfunded actuarial liability contribution** (UAL contribution), and the **administrative expense contribution**.

The State normal cost contribution rate is determined in the following steps. First, for each active member, an individual total normal cost rate is determined by taking the value, as of entry age into the Plan, of that member's projected future benefits and dividing it by the value, also at entry age, of the member's expected future salary. Then, this individual total normal cost rate is reduced by the member's contribution rate to produce the State normal cost rate for each member. This State normal cost rate times payroll for each active member equals the State normal cost. The sum of the State normal cost amounts for all active members is then divided by the covered payroll for all active members to produce the State normal cost contribution rate.

The actuarial liability is that portion of the present value of projected benefits that will not be paid by future State normal cost contributions or future member contributions. The difference between this liability and the funds accumulated as of the same date is referred to as the unfunded actuarial liability (UAL).

The UAL amortization payment rate is calculated by amortizing all UAL, after subtracting the present value of scheduled PRI transfers, over an open 15-year period. All payments are determined assuming total pay increases by the current annual inflation assumption of 2.50%.

The current assumed administrative expense rate is 0.10% of payroll. This rate, when applied to payroll, is intended to provide an allowance above the cost of funding the benefits to pay for the expense of operating the Plan.

The table below presents and compares the State contribution rates for the Plan based on this funding valuation and the immediately prior one.

Table IV-1 State Contribution Rate						
Valuation Date June 30, 2015 June 30, 2016						
FY Contribution Rate Payable FY 2017 FY 2018						
State Entry Age Normal Cost Rate	22.93%	22.72%				
UAL Amortization Payment Rate	(0.90%)	(2.95%)				
Administrative Expense Rate	0.10%	0.10%				
Actuarially Determined Contributions	22.13%	19.87%				



SECTION IV - CONTRIBUTIONS

Table IV-2 below provides additional detail about the development of the State contribution rate as well as the expected dollar amounts these results will result in for FY 2018.

Table IV-2 Expected FY 2018 State Contributions					
Present Value of Projected Benefits Attributable to:]	In Dollars	As % of Payroll		
a. Total Normal Cost	\$	2,802,100	26.24%		
b. Expected Member Contributions		375,900	3.52%		
c. State Paid Normal Cost (a) – (b)	\$	2,426,200	22.72%		
2. Amortization of Unfunded Liability	\$	(315,300)	(2.95%)		
3. Allowance for Administrative Expense	<u>\$</u>	10,700	0.10%		
4. Total State Actuarially Determined Contributions					
(1) + (2) + (3)	\$	2,121,600	19.87%		



SECTION V - ACCOUNTING STATEMENT INFORMATION

ASC Topic No. 960 of the Financial Accounting Standards Board (FASB) requires plans subject to it to disclose certain information regarding their funded status. This plan is not subject to this requirement, but this information is provided for informational purposes. Statement No. 67 of the Governmental Accounting Standards Board (GASB) establishes standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in notes to financial statements and supplementary information.

Disclosures based on FASB ASC Topic No. 960 provide a quasi "snap shot" view of how the Plan's assets compare to its liabilities if contributions stopped and accrued benefit claims had to be satisfied. However, due to potential legal requirements and the possibility that alternative interest rates would have to be used to determine the liabilities, these values may not be a good indication of the amount of money it would take to buy the benefits for all members if the Plan were to terminate and should not be considered a settlement value.

FASB ASC Topic No. 960 specifies that a comparison of the present value of accrued (accumulated) benefits, with the market value of the assets as of the valuation date, must be provided. Again, this plan is not subject to this requirement, but the relevant amounts as of June 30, 2015 and June 30, 2016 are provided for informational purposes and are exhibited in Table V-1, which also includes a reconciliation of liabilities determined as of the prior valuation, July 1, 2015, to the liabilities as of June 30, 2016. These values are based on the June 30, 2016 funding liability results.

This valuation contains information reported in the June 30, 2016 Comprehensive Annual Financial Report (CAFR) of Delaware PERS under GASB Statement No. 67. Disclosures are based on the use of updated procedures to roll forward the 2015 funding valuation results. The calculation of Net Pension Liability in Table V-2 shows the amounts to be disclosed for FY 2016, based on the liabilities of the roll forward of the 2015 funding valuation, as well as a projection of the anticipated FY 2017 disclosures, based on liabilities from the 2016 funding valuation, assuming all actuarial assumptions are met over the coming year. The actual disclosures for FY 2017 will be developed once the asset measure for GASB as of June 30, 2017 is known.

Tables V-3 through V-5 are exhibits to be used for the State's CAFR. Table V-3 is the Note to Required Supplementary Information, Table V-4 is a history of gains and losses in accrued liability, and Table V-5 is the Solvency Test, which shows the portion of accrued liability covered by the actuarial value of assets. The Government Finance Officers Association (GFOA) has named this exhibit the Solvency Test. None of the liabilities or assets shown are appropriate for settlement purposes. Furthermore, the Solvency Test does not accurately depict a plan's future financial condition but rather is a test developed by the GFOA to assess the level of funding that relies on the payroll for future hires to pay for the benefits that have already been accrued by the current population. This valuation does not contain the additional disclosures required by GASB Statement No. 68 only for the State's CAFR.



SECTION V - ACCOUNTING STATEMENT INFORMATION

Table V-1 Accounting Statement Disclosure and Reconciliation of Present Value of Accrued Benefits						
FASB ASC Topic No. 960 Basis 1. Present Value of Accrued Benefits	J	June 30, 2016				
a. Members Currently Receiving Paymentsb. Former Vested Membersc. Active Members	\$	35,261,600 508,100 36,528,200	\$	39,411,200 860,100 32,603,200		
2. Total Present Value of Accrued Benefits (1 (a) + 1(b) + 1(c))	\$	72,297,900	\$	72,874,500		
3. Market Value of Assets		75,150,600		72,499,400		
4. Unfunded Present Value of Accrued Benefits (2-3)	\$	(2,852,700)	\$	375,100		
5. Ratio of Market Value of Assets to Present Value of Benefits (3 / 2)		103.9%		99.5%		
Reconciliation of Present Value of Accrued Benefits						
Actuarial Present Value of Accrued Benefits at June 30,	2015		\$	72,297,900		
Increase/(Decrease) During Year Attributable to: Passage of Time Benefits Paid – FY 2016 Benefit Changes Assumption Changes PRI Benefits Accrued, Other Gains/Losses Net Increase/(Decrease) 5,051,500 (4,277,400 (1,482,700 (1,482,700 (1,482,700 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1,285,200 (1						
Actuarial Present Value of Accrued Benefits at June 30,	2016		\$	72,874,500		



SECTION V - ACCOUNTING STATEMENT INFORMATION

Table V-2 GASB No. 67 Disclosures					
GASB No. 67	June 30, 2016	Estimated June 30, 2017			
Total Pension Liability					
Service cost	\$ 2,759,000	\$ 2,802,000			
Interest	5,267,000	5,375,000			
Changes in benefit terms	0	0			
Differences between expected and actual					
experience	(156,000)	(2,017,000)			
Changes in assumptions	(1,953,000)	0			
Benefit payments, including refunds of member					
contributions	(4,277,000)	(4,825,000)			
Net change in Total Pension Liability	\$ 1,640,000	\$ 1,335,000			
Total Pension Liability - beginning	\$ 74,599,000	\$ 76,239,000			
Total Pension Liability - ending (a)	\$ 76,239,000	\$ 77,574,000			
Plan Fiduciary Net Position					
Contributions - Employer	\$ 2,237,000	\$ 2,363,000			
Contributions - Non-employer	237,000	193,000			
Contributions - Member	339,000	376,000			
Net investment income	(1,173,000)	5,153,000			
Benefit payments, including refunds of member	(, , , ,	, ,			
contributions	(4,277,000)	(4,825,000)			
Administrative expenses	(14,000)	(11,000)			
Net change in Plan Fiduciary Net Position	\$ (2,651,000)	\$ 3,249,000			
Plan Fiduciary Net Position - beginning	\$ 75,150,000	\$ 72,499,000			
Plan Fiduciary Net Position - ending (b)	\$ 72,499,000	\$ 75,748,000			
Plan Net Pension Liability (Asset) - ending					
[(a)-(b)]	\$ 3,739,000	\$ 1,825,000			

Items printed in red will be replaced with actual amounts once known at the end of FY 2017.



SECTION V - ACCOUNTING STATEMENT INFORMATION

Table V-3

Note to Required Supplementary Information

The information presented in the required supplementary schedules was determined as part of the measurement at the date indicated. Additional information as of the latest measurement date follows:

Measurement date

July 1, 2016

Actuarial cost method Entry age normal

Amortization method Percentage of pay - open

Amortization period 15 years

Asset valuation method Smoothed market, 20% annual market weight

Actuarial assumptions:

Investment rate of return* 7.2%

Projected salary increases* 2.5% plus merit component based on service Cost-of-living adjustments ad hoc

*Includes inflation at 2.50%

The actuarial assumptions used have been recommended by the actuary and adopted by the Plan's Board of Trustees based on the most recent review of the Plan's experience completed in 2016.

The total rate of State contributions to the Plan is composed of the State normal cost rate, the unfunded actuarial liability amortization payment rate, and the administrative expense rate. The State normal cost rate is a level percent of payroll cost which, along with member contributions, will pay for projected benefits at retirement for each active member. The actuarial liability is that portion of the present value of projected benefits that will not be paid by future State normal costs or future member contributions. The difference between this liability and the funds accumulated as of the same date is the unfunded actuarial liability. The allowance for administrative expenses is based upon the Plan's actual administrative expenses.



SECTION V - ACCOUNTING STATEMENT INFORMATION

Table V-4 **Analysis of Financial Experience**

Gain and Loss in Accrued Liability During Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience

Gain (or Loss) for Year ending June 30,

	(expressed in thousands)										
Type of Activity		2011		2012		2013		2014	2015		2016
Investment Income on Actuarial Assets	\$	7	\$	(639)	\$	(172)	\$	1,068	\$ 123	\$	(1,201)
Combined Liability Experience		2,169		1,215		2,889		1,361	 451		2,017
(Loss)/Gain During Year from Financial Experience		2,176		576		2,717		2,429	574		816
Non-Recurring Items		(1,083)		(252)		589		(410)	 (263)		1,953
Composite Gain (or Loss) During Year	\$	1,093	\$	324	\$	3,306	\$	2,019	\$ 311	\$	2,769

Table V-5 **Solvency Test Aggregate Accrued Liabilities for**

(expressed in thousands)

Valuation Date June 30,	Active Member Contributions	Retirees & Beneficiaries	Active Member State-Financed Contributions	Actuarial Value of Reported Assets		Accrued Li	
	(1)	(2)	(3)		(1)	(2)	(3)
2016	\$ 5,834	\$ 39,411	\$ 28,976	\$ 77,302	100%	100%	111%
2015	5,804	35,262	33,082	74,659	100	100	102
2014	5,841	32,803	31,963	70,335	100	100	99
2013	5,896	28,458	32,213	63,512	100	100	91
2012	5,986	25,953	34,007	59,279	100	100	80
2011	5,400	26,482	31,208	55,784	100	100	77



APPENDIX A - MEMBERSHIP INFORMATION

Delaware State Judiciary Pension Plan Data Reconciliation							
	A	P-TDV	P-RET	P-DIS	P-SR	P-SURV	Total
1. June 30, 2015 valuation	56	1	32	2	0	13	104
2. Additions							
(a) New entrants	6						6
(b) New Beneficiary/QDRO						2	2
(c) Total	6					2	8
3. Reductions							
(a) Terminated - not vested	(1)						(1)
(b) Paid Out/Expired/Death			(1)				(1)
(c) Total	(1)		(1)				(2)
4. Changes in status							
(a) P-TDV	(1)	1					
(b) Returned to work	1	(1)					
(c) P-RET	(3)		3				
(d) P-DIS							
(e) P-LTD							
(f) P-SURV							
(g) Data corrections							
(h) Total	(3)		3				
5. June 30, 2016 valuation	58	1	34	2	0	15	110

A=Active, P-TDV=Terminated Deferred Vested, P-RET=Retired, P-DIS=Disabled, P-LTD-Long-Term Disabled, P-SURV=Surviving Beneficiary, QDRO=Qualified Domestic Relations Order

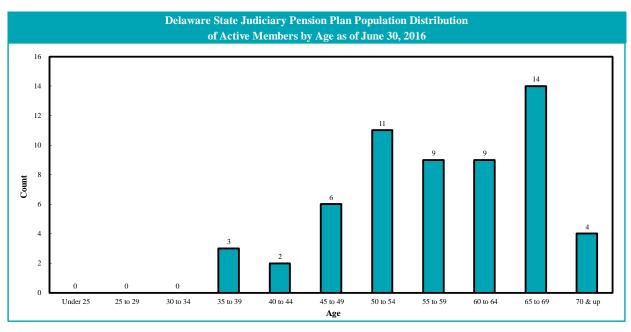


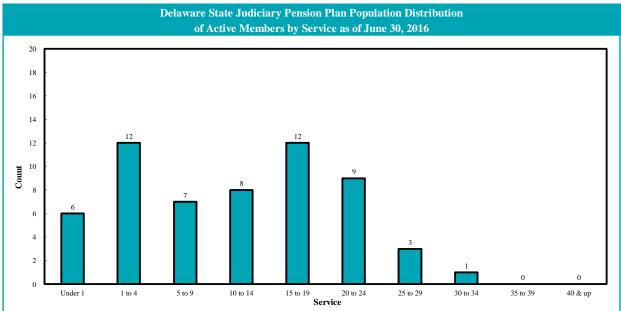
APPENDIX A - MEMBERSHIP INFORMATION

Delaware State Judiciary Pension Plan Population Distribution of Active Members by Age and Service as of June 30, 2016 **Counts By Age/Service** Service Under 1 1 to 4 5 to 9 10 to 14 15 to 19 20 to 24 35 to 39 40 & up **Total** 25 to 29 30 to 34 Age Under 25 25 to 29 30 to 34 35 to 39 40 to 44 45 to 49 50 to 54 55 to 59 60 to 64 65 to 69 70 & up Total



APPENDIX A - MEMBERSHIP INFORMATION





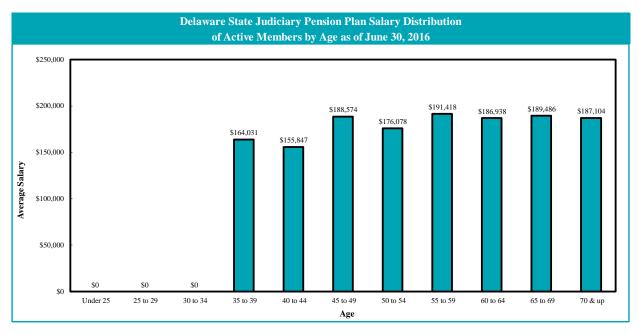


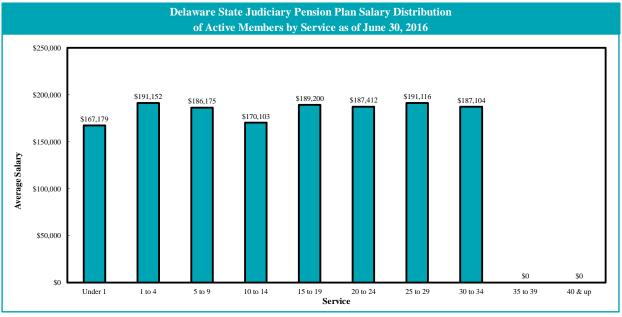
APPENDIX A - MEMBERSHIP INFORMATION

Delaware State Judiciary Pension Plan Salary Distribution of Active Members by Age and Service as of June 30, 2016 Average Salary by Age/Service Service 10 to 14 20 to 24 Under 1 1 to 4 5 to 9 15 to 19 25 to 29 30 to 34 35 to 39 40 & up **Total** Age 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 0 Under 25 25 to 29 0 0 0 0 0 0 0 0 0 0 0 30 to 34 0 0 0 0 0 0 0 0 0 0 0 164,031 0 0 0 0 0 0 164,031 35 to 39 0 0 0 0 0 155,847 180,598 0 0 0 0 40 to 44 131,095 188,574 45 to 49 186,680 192,353 183,851 0 0 0 0 0 0 0 186,860 187,104 113,342 197,662 0 0 0 0 176,078 50 to 54 193,206 207,262 191,418 187,104 187,104 186,731 0 0 0 0 55 to 59 0 0 187,104 192,863 184,935 0 186,938 60 to 64 0 0 183,851 0 0 65 to 69 0 0 187,104 187,104 191,116 188,960 191,116 0 0 189,486 0 187,104 187,104 187,104 187,104 187,104 70 & up 0 0 0 0 0 0 | \$ 184,112 \$ 167,179 \$ 191,152 \$ 186,175 \$ 170,103 \$ 189,200 \$ 187,412 \$ 191,116 \$ 187,104 \$ 0 \$ Total



APPENDIX A - MEMBERSHIP INFORMATION







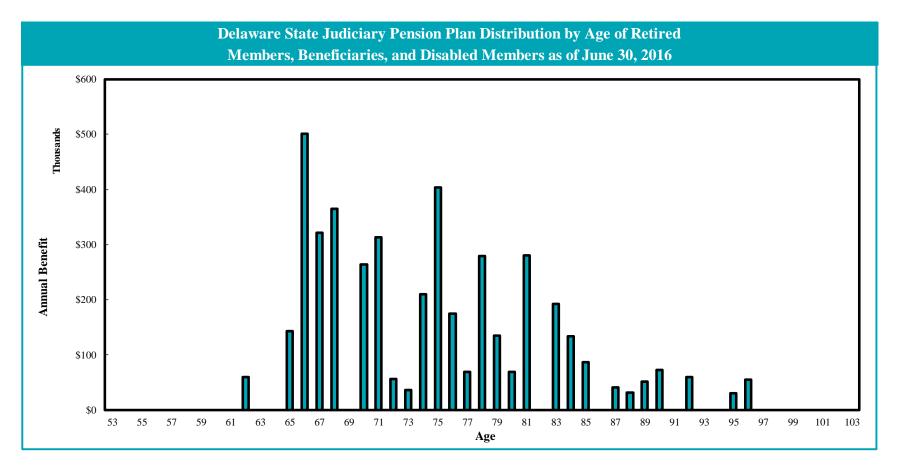
APPENDIX A - MEMBERSHIP INFORMATION

Delaware State Judiciary Pension Plan Distribution by Age of Retired Members, Beneficiaries, and Disabled Members as of June 30, 2016

Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$ -	73	1	\$ 36,323
25	0	-	74	2	210,427
26	0	-	75	3	404,114
27	0	-	76	2	174,454
28	0	-	77	1	69,399
29	0	-	78	4	279,210
30	0	-	79	1	134,969
31	0	-	80	1	69,100
32	0	-	81	4	280,434
33	0	-	82	0	-
34	0	-	83	3	192,573
35	0	-	84	1	133,716
36	0	-	85	1	86,532
37	0	-	86	0	-
38	0	-	87	1	40,508
39	0	-	88	1	31,493
40	0	-	89	1	50,893
41	0	-	90	1	72,414
42	0	_	91	0	-
43	0	_	92	1	59,176
44	0	_	93	0	-
45	0	-	94	0	-
46	0	-	95	1	30,571
47	0	_	96	1	55,169
48	0	_	97	0	-
49	0	-	98	0	-
50	0	-	99	0	-
51	0	-	100	0	-
52	0	-	101	0	-
53	0	-	102	0	-
54	0	-	103	0	-
55	0	-	104	0	-
56	0	-	105	0	-
57	0	-	106	0	-
58	0	-	107	0	-
59	0	-	108	0	-
60	0	-	109	0	-
61	0	-	110	0	-
62	1	59,378	111	0	-
63	0	-	112	0	-
64	0	-	113	0	-
65	1	143,152	114	0	-
66	4	501,692	115	0	-
67	3	321,524	116	0	-
68	4	364,847	117	0	-
69	0	-	118	0	-
70	3	263,753	119	0	-
71	3	313,504	120	0	-
72	1	56,461			
			Totals	51	\$ 4,435,785



APPENDIX A - MEMBERSHIP INFORMATION





APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

A. Long-Term Assumptions Used to Determine Plan Costs and Liabilities

1. Demographic Assumptions

a. Rates of Mortality

Mortality rates are based on the sex-distinct employee, healthy annuitant, and disabled annuitant mortality tables described below, including adjustment factors applied to the published tables for each group. Future mortality improvements are reflected by applying a custom projection scale on a generational basis to adjusted base tables from the base year shown below.

i. Sample Rates of Mortality for Active Healthy Lives at Selected Ages (number of deaths per 10,000 members):

(2016 Values Shown)					
Age	Male	Female			
25	5	2			
30	5	2			
35	5	3			
40	7	4			
45	10	6			
50	18	11			
55	30	17			
60	51	25			
65	90	37			
70	153	64			
75	261	110			
80	441	190			

Rates are based on 110% and 100% of the RP-2014 Total Dataset Employee Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Healthy Annuitant Mortality Table rates after the end of the Employee Mortality Table, both projected from the 2006 base rates using the RPEC-2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0% for ages 115-120, and convergence to the ultimate rate in the year 2020. The valuation uses fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.



APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

ii. Sample Rates of Mortality for Healthy Annuitant Lives at Selected Ages (number of deaths per 10,000 members):

(2016 Values Shown)					
Age	Male	Female			
50	44	27			
55	62	36			
60	84	53			
65	119	81			
70	185	130			
75	302	213			
80	508	360			
85	885	638			
90	1,553	1,138			
95	2,447	1,868			
100	3,500	2,796			

Rates are based on 110% and 100% of the RP-2014 Total Dataset Healthy Annuitant Mortality Table, respectively, for males and females, using the RP-2014 Total Dataset Employee Mortality Table for ages prior to start of the Healthy Annuitant Mortality Table, both projected from the 2006 base rates using the RPEC-2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0% for ages 115-120, and convergence to the ultimate rate in the year 2020. The valuation uses fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.



APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

iii. Sample Rates of Mortality for Disabled Annuitant Lives at Selected Ages (number of deaths per 10,000 members):

(2016 Values Shown)					
Age	Male	Female			
25	93	28			
30	89	35			
35	105	49			
40	126	67			
45	196	105			
50	240	138			
55	276	174			
60	313	207			
65	375	252			
70	486	342			
75	666	502			
80	949	757			
85	1,411	1,145			
90	2,157	1,690			
95	3,019	2,453			
100	3,973	3,446			

Rates are based on 120% of the RP-2014 Total Dataset Disabled Annuitant Mortality Table, projected from the 2006 base rates using the RPEC-2015 model, with an ultimate rate of 0.85% for ages 20-85, grading down to an ultimate rate of 0% for ages 115-120, and convergence to the ultimate rate in the year 2020. The valuation uses fully generational projection of mortality improvements. Sample rates shown are those projected through the valuation date.



APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

b. Rates of Active Disabilities

45% of 1946 Railroad Retirement Board Disability Rates

Rates of Active Disability				
Age	Current			
20	0.0877%			
25	0.1008			
30	0.1080			
35	0.1148			
40	0.1323			
45	0.1777			
50	0.3208			
55	0.6129			
60	1.2420			

c. Termination of Employment (Prior to Normal Retirement Eligibility)

None assumed

d. Retirement

Normal Retirement: 25% for all years the member is retirement eligible upon attaining the earliest of:

- i. age 62 with 12 years of credited service
- ii. 24 years of credited service

100% probability of retirement once reaching age 75. Rates only applicable if member meets eligibility.

e. Merit/Seniority Salary Increase (in addition to across-the-board increase)

Service-based merit tables plus an annual inflation rate of 2.50% (rates shown below exclude amount for inflation)

Salary Increase					
Service (Years)	Increase				
0	9.50%				
1 or more	1.00				



APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

f. Family Composition

Female spouses are assumed to be three years younger than males. 80% are assumed married for both male and female employees. Actual marital characteristics are used for pensioners.

2. Economic Assumptions

a.	Investment Rate of Return:	7.20%
b.	General Wage Increase Rate:	2.50%
c.	Annual Assumed Cost-of-Living	
	Increase Rate for Retirees:	0.00%
d.	Total Payroll Increase Rate	
	(for Amortization):	2.50%
e.	Administrative Expenses as a	
	Percentage of Covered Payroll:	0.10%

3. Rationale for Assumptions

The assumptions were adopted by the Board of Trustees upon the recommendation of the actuary, based on an experience study review performed in 2016 and covering the period July 1, 2010 through June 30, 2015.

4. Changes Since Last Valuation

As a result of an experience study completed in spring 2016, the following assumptions were changed:

Healthy Inactive, Active and Disabled Mortality Retirement Salary Increase Rate of General Wage Increase Rate of Increase in Total Payroll



APPENDIX B - ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Funding Method

The Entry Age Normal funding method is used to determine costs. Under this funding method, a normal cost rate is determined as a level percent of pay for each active member. The normal cost rate times payroll equals the normal cost for each active member. The normal cost plus member contributions will pay for projected benefits at retirement for each active plan participant.

The actuarial liability is that portion of the present value of projected benefits that will not be paid by future State normal costs or member contributions. The difference between this liability and funds accumulated as of the same date is referred to as the unfunded actuarial liability.

The portion of the actuarial liability in excess of Plan assets is amortized to develop an additional cost or savings that is added to each year's employer normal cost. Under this cost method, actuarial gains and losses are directly reflected in the size of the unfunded actuarial liability.

The portion of unfunded liability not expected to be paid through PRI transfers is amortized over a rolling 15-year period as a percentage of payroll. PRI transfers are made to pay for each PRI as granted over a five-year period. These transfers are treated as a receivable for purposes of developing the State rate. All payments are determined assuming total pay increased by the annual inflation rate. Use of a rolling amortization period means that the UAL amount is never anticipated to be fully paid off. This method was chosen to provide for a more level contribution rate over time.

2. Actuarial Value of Assets

For purposes of determining the State Judiciary employer contribution rate to the Plan, we use an actuarial value of assets. This asset smoothing method dampens the volatility in asset values that could occur because of fluctuations in market conditions. Use of an asset smoothing method is consistent with the long-term nature of the actuarial valuation process.

The actuarial value of assets is a weighted average giving 20% weight to the current market value and 80% weight to the prior year's actuarial value increased by expected interest and contributions and decreased by benefit payments and expenses. This is mathematically equivalent to recognizing 100% of the actuarially assumed interest rate, plus contributions, less payments each year, and 20% of the portion of each year's returns that have not already been reflected in asset values.

3. Changes Since Last Valuation

None



APPENDIX C - SUMMARY OF PLAN PROVISIONS

This appendix provides a summary of the Plan provisions. Where the Plan, as determined by the State Code and the Plan Rules and Regulations, and this summary differ, the Plan governs.

1. Membership

The Plan covers individuals while members of the State Judiciary.

2. Member Contributions

3% of compensation, which exceeds \$6,000 per annum plus an additional 2% of compensation in excess of the Social Security wage base

3. Credited Service

All service as a member

After accruing 12 years of Judicial service, previous State service may be credited for purposes of retirement eligibility.

4. Final Average Compensation

Final Average Compensation is the average over the highest three consecutive years (or shorter period of service) of compensation paid to the judge.

5. Normal Retirement

Eligibility: (i) age 62 with 12 years of service as a judge, or (ii) any age with 24 years of

service, or (iii) involuntarily retired after 22 years of service as a judge

Benefit: 1/24 of final average compensation for each of the first 12 years of service as a

judge plus 1/48 of final average compensation for each of the next 12 years of

service as a judge

6. Disability Benefit

Eligibility: Permanently disabled while active

Benefit: Normal retirement benefit with the following revisions: For judges appointed

after June 30, 1980, a minimum of 12 years of service as a judge and a maximum of 24 years of service as a judge is used in the benefit determination.



APPENDIX C - SUMMARY OF PLAN PROVISIONS

7. Survivor's Benefit

A pension is payable to the surviving spouse of a judge who dies in office regardless of his or her number of years of service at the time of death. A pension is also payable to the surviving spouse of a former judge with a vested right to a pension or a retired judge. If a judge is not survived by a spouse, a pension is payable to surviving eligible dependent children, if any, in equal shares until the youngest unmarried child attains age 18 (or age 22 if attending school or child's death if permanently disabled), as follows:

Eligibility: Death while in office

Benefit: For eligible survivors of members who die in office: 66 \(^2\)/₃% of the member's

accrued pension based on not less than 12 years of service, deferred to age 50, or reduced if paid prior to age 50, with a 3% reduction for form of payment

8. Vesting

Eligibility: 12 or more years of service as a judge

Benefit: Normal Retirement based on final average compensation and service at date of

termination. In lieu of a pension, a member may receive a refund of accumulated contributions (with interest for judges appointed after June 30, 1980). Upon application for a refund of contributions, a member's

vested right to a monthly benefit shall be forfeited.

9. Withdrawal

Eligibility: Terminates service and is not eligible for other benefits

Benefit: Accumulated employee contributions with interest for judges appointed prior to

July 1, 1980. Accumulated employee contributions with interest for judges

appointed after June 30, 1980

10.Form of Payment

The normal form of payment is a 50% joint and survivor annuity.

As an alternative to the normal form, a member may elect one of the following optional forms of payment upon service retirement or disability:

- 66 2/3% joint and survivor form with a 2% reduction in benefits,
- 75% joint and survivor form with a 3% reduction in benefits, or
- 100% joint and survivor form with a 6% reduction in benefits.



APPENDIX C - SUMMARY OF PLAN PROVISIONS

The 66 2/3% and 100% options are only available for retirement on or after January 1, 2015.

11.Cost-of-Living Adjustment

Cost-of-living adjustments are made only on an ad hoc basis.

12. Changes Since Last Valuation

None





Classic Values, Innovative Advice