

Delaware State Employees' Pension Plan

> Actuarial Valuation as of June 30, 2008

**Produced by Cheiron** 

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January 30, 2009

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 Employees' Pension Plan as of June 30, 2008. The results of the valuation are contained in this report. The purpose of the valuation is discussed in the Foreword.

This report contains information on Plan assets, as well as analyses which combine asset and liability performance and projections. The report also discloses employer contribution levels, and required disclosures under the Governmental Accounting Standards Board Statement No. 25.

Your attention is called to the Foreword in which we refer to the general approach employed in the preparation of this report. We also comment on the sources and reliability of both the data and the actuarial assumptions on which our findings are based. Those comments are the basis for our certification that this report is complete and accurate to the best of our knowledge and belief. The results of this report are only applicable to the State contribution for Fiscal Year ending 2010 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.

We hereby certify that, to the best of our knowledge, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board, and that as Members of the American Academy of Actuaries, we meet the Qualification Standards to render the opinions contained herein.

Sincerely, Cheiron

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Fiona E. Liston, FSA Consulting Actuary

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### FOREWORD

Cheiron has performed the actuarial valuation of the Delaware State Employees' Pension Plan as of June 30, 2008. 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 progress of the Plan;
- 3) Determine the contribution rate to be paid by the State for Fiscal Year 2010; and
- 4) **Provide specific information** and documentation required by the Governmental Accounting Standards Board (GASB).

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 actuarial 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 Plan liabilities, measured for actuarial, accounting, and government reporting purposes.

Section IV develops the State contribution rate determined using actuarial techniques.

Section V includes the required disclosures under GASB Statement number 25.

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 the actuarial methods and assumptions used in the valuations.

In preparing our report, we relied without audit, on information (some oral and some written) supplied by the Office of Pension's staff. This information includes, but is not limited to, plan provisions, employee data, and financial information.

The actuarial assumptions reflect our understanding of the likely future experience of the Plan and the assumptions as a whole represent our best estimate for the future experience of the Plan. The results of this report are dependent upon future experience conforming to these assumptions. To the extent that future experience deviates from the actuarial assumptions, the true cost of the Plan could vary from our results.

Finally, in preparing this report, we have conformed to generally accepted actuarial principles and practices which are consistent with the Code of Professional Conduct, and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board.



### SECTION I BOARD SUMMARY

### **General Comments**

The actuarially determined contribution rate increased from 5.67% for FY 2009 to 6.01% for FY 2010. During the year ended June 30, 2008, the Plan's assets lost 1.6% on a market value basis. However, due to the Plan's asset-smoothing technique which recognizes only a portion of the gains and losses, the return on the actuarial asset value was 7.6%. This return was below the assumed rate of return of 8.0% and resulted in an actuarial loss on investments of \$27 million.

The plan also experienced an actuarial loss on Plan liabilities resulting from salary increases different than assumed and members retiring, terminating, becoming disabled and dying at rates different from the actuarial assumptions. The loss added \$44 million to the actuarial liability. This type of activity is normal in the course of plan experience. The Plan will experience actuarial gains and losses over time because we cannot predict exactly how people will behave. When a plan experiences alternating gains and losses that are small compared to the total actuarial liability, then the plan's actuarial assumptions are reasonable.

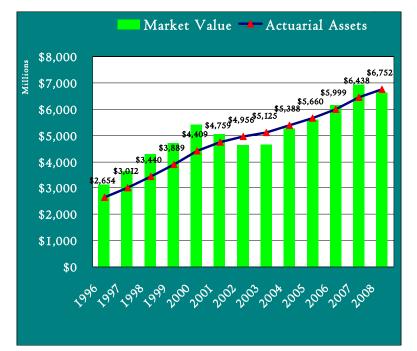
As of the June 30, 2008 actuarial valuation, the Plan's unfunded actuarial liability/(surplus) was (\$202) million. This is a decrease from last year's unfunded actuarial liability/(surplus) of (\$230) million. Components of the decrease in surplus include a \$27 million loss on Plan assets, a \$44 million loss on Plan liabilities.



### SECTION I BOARD SUMMARY

### Trends

### Growth in Assets



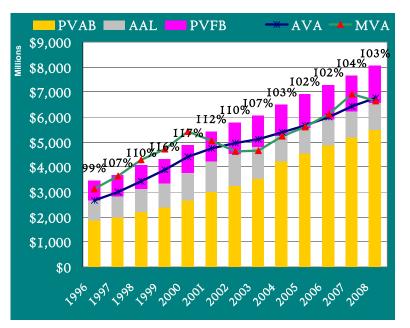
The market value of assets (MVA) decreased over the last year, losing 1.6%. The determination of the plan's actuarial value of assets reflects only a portion of the return below 8%.

Over the period July 1, 1997 to June 30, 2008 the Plan's assets returned approximately 10.4% per year measured at actuarial value, compared to a valuation assumption of 8% per year.

### Assets and Liabilities

The three colored bars represent the three different measures of liability mentioned in this report. For funding purposes, the target amount is represented by the top of the gray bar. We compare the actuarial value of assets to this measure of liability in developing the funded percent. These are the percentages shown in the graph labels.

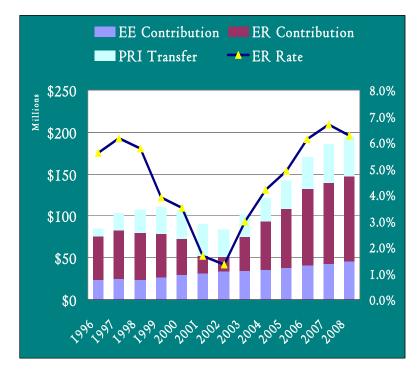
The amount represented by the top of the pink bars, the Present Value of Future Benefits (PVFB), is the amount needed to provide all benefits for the current participants and their beneficiaries. If the Plan had assets equal to the PVFB no contributions would, in theory, be needed for the current members.





### SECTION I BOARD SUMMARY

### **Contribution Rates**



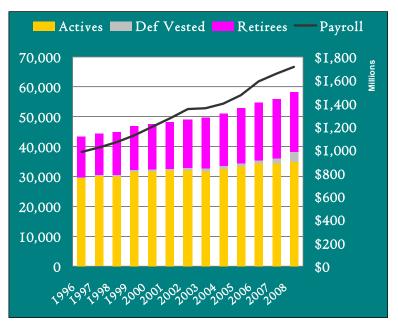
The stacked bars in this graph show the contributions made by the State, the PRI Fund, and the members (left hand scale). The black line shows the State contribution rate as a percent of payroll (right hand scale).

The member contribution rate is set by State law, depending on which plan the member participates State in. The contribution rate is set by the actuarial process and PRI Fund transfers depend on the increase granted. Please note there is a lag in the rate shown. For example, the 2008 value is the rate prepared by the 2006 valuation and implemented for the period July 1, 2007 to June 30, 2008.

### Participant Trends

The bars show the number of participants in each category and should be read using the left-hand scale. As with any maturing fund, this plan continues to show growth in the number of retired members. The active-to-inactive ratio has decreased from 2.1 actives to each inactive in 1996 to 1.5 actives for each inactive today.

The black line shows the covered payroll in the Plan and is read using the right-hand scale.

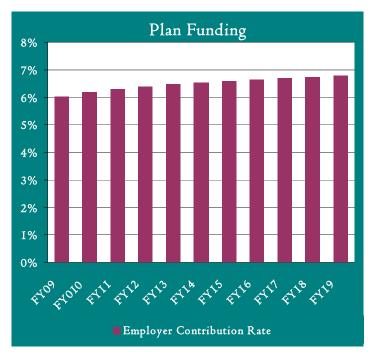




### SECTION I BOARD SUMMARY

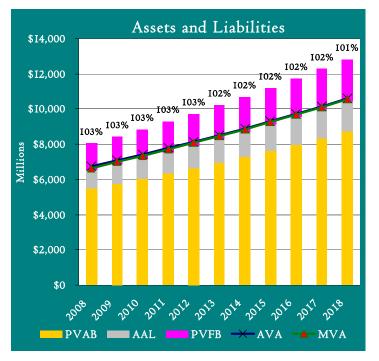
### **Future Outlook**

### **Base Line Projections**



These graphs show the expected progress of the Plan over the next ten years assuming the Plan's assets earn 8% on their *market value*. The chart entitled "Plan Funding" shows that the State rate is expected to increase slowly as excluded investment losses are recognized by the smoothing method.

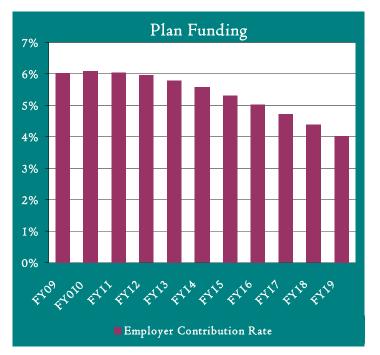
The "Assets and Liabilities" graph shows the projected funding status over the next ten years. The Plan's funded status is projected to decline slightly.





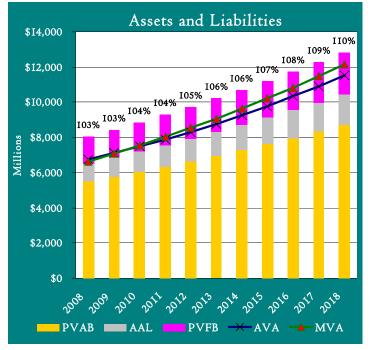
### SECTION I BOARD SUMMARY

### Projections With Asset Returns of 9.5%



The future funding status of this Plan will be largely driven by the investment earnings. Due to the size of assets, as compared to liabilities, the Plan is in a highly leveraged position. This means that relatively minor changes in market returns can have significant effects on the Plan's status. These two charts show what the next ten years would look like with a 9.5% annual return in each year. The Plan has earned an average 10.4% per year over the ten-year period ending June 30, 2008.

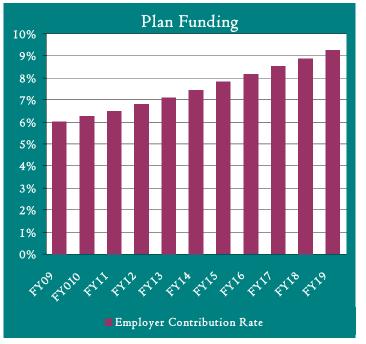
As you can see, the Plan would reach 110% funding by 2018. The contribution rate would decrease in each of the next nine years to a level of around 4% of payroll.





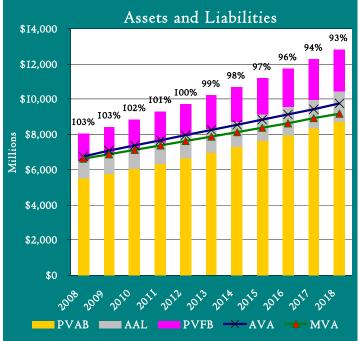
### SECTION I BOARD SUMMARY

# Projections With Asset Returns of 6.5%



To further demonstrate how the future funding of this Plan will be driven by investment earnings, we show the anticipated plan funding projections if the invested assets earn 6.5% per year over the entire ten-year period.

Under this scenario the State's contribution rate increases and the funding status declines.





### SECTION I BOARD SUMMARY

Delaware State Employees' Pension Plan						
Summary of Principal Plan Results						
Valuation as of:	June 30, 2007	June 30, 2008	% Change			
Participant Counts						
Active Participants	34,374	34,764	1.13%			
Disabled Participants	2,195	2,125	(3.19%)			
Retirees and Beneficiaries	17,388	18,056	3.84%			
Terminated Vested Participants	1,079	1,575	45.97%			
Inactive Participants	109	902	727.52%			
LTD Participants	688	890	29.36%			
Total	55,833	58,312	4.44%			
Annual Salaries of Active Members*	\$ 1,654,609,400	\$ 1,711,473,200	3.44%			
Annual Retirement Allowances for Retired Members and Beneficiaries	\$ 330,202,600	\$ 352,161,400	6.65%			
Assets and Liabilities						
Actuarial Accrued Liability (AAL)	\$ 6,208,024,700	\$ 6,549,856,100	5.51%			
Actuarial Value of Assets	6,437,916,400	6,751,948,800	4.88%			
Unfunded AAL	(229,891,700)	(202,092,700)	(12.09%)			
Funded Ratio	103.7%	103.1%	``´´´			
Present Value of Accrued Benefits (PVAB)	\$ 5,159,937,800	\$ 5,473,571,100	6.08%			
Market Value of Assets	6,920,607,900	6,643,047,600	(4.01%)			
Unfunded PVAB	(1,760,670,100)	(1,169,476,500)	(33.58%)			
Accrued Benefit Funding Ratio	134.1%	121.4%	````			
Contributions as a Percentage of Payroll	Fiscal Year 2009	Fiscal Year 2010				
Normal Cost Contribution	6.85%	6.85%				
Unfunded Actuarial Liability Contribution	(1.53%)	(1.19%)				
Administrative Expense	0.35%	0.35%				
Total State Contribution	5.67%	6.01%				

Assumes one year of payroll projection.

\*



### SECTION II ASSETS

Pension Plan assets play a key role in the financial operation of the Plan and in the decisions the 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 impact upon benefit levels, State contributions, and the ultimate security of participants' benefits.

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

- **Disclosure** of Plan assets at June 30, 2007 and June 30, 2008;
- Statement of the **changes** in market values during the year;
- Development of the Actuarial Value of Assets;
- An assessment of **investment performance**; and
- A projection of the Plan's expected **cashflows** for the next ten years.

### Disclosure

The market value of assets represents a "snap-shot" or "cash-out" values which provide the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace. As a result, market values are usually not suitable for long-range planning.

The actuarial values are market values which have been smoothed and are the actuary's best estimate of long-term asset values. They are used for evaluating the Plan's ongoing liability to meet its obligations.

Current methods employed by this Plan set the actuarial value equal to the expected value plus 20% of the difference between the expected value of assets and the actual market value. Where the expected value is equal to the prior year's actuarial value, rolled forward with actual contributions and benefit payments plus interest imputed at 8%.



### SECTION II ASSETS

Changes in Market Values				
Value of Assets – June 30, 2007		\$	6,920,607,900	
Additions				
Member Contributions	\$ 45,762,400			
Employer Contributions	101,661,400			
PRI Fund Transfer	46,856,100			
Investment Return	(110,468,400)			
Total Additions	\$ 83,811,500			
Deductions				
Benefit Payments	\$ 355,758,300			
Administrative Expenses	5,613,500			
Total Deductions	\$ 361,371,800			
Value of Assets – June 30, 2008		\$	6,643,047,600	



### SECTION II ASSETS

	Development of Actuarial Value of Assets		
1.	Actuarial Value of Assets at June 30, 2007	\$ 6,437,916,400	
2.	Amount in (1) with interest to June 30, 2008	6,952,949,700	
3.	Employer, PRI and member contributions for the Plan Year ended June 30, 2008	194,279,900	
4.	Interest on contributions assuming payments made uniformly throughout the year to June 30, 2008 at 8.00% per year	7,771,200	
5.	Disbursements from Trust except investment expenses, June 30, 2007 through June 30, 2008	361,371,800	
6.	Interest on disbursements to June 30, 2008 at 8.00% per year	14,454,900	
7.	Expected Actuarial Value of Assets at June 30, 2008 = $(2) + (3) + (4) - (5) - (6)$	6,779,174,100	
8.	Actual Market Value of Assets at June 30, 2008	6,643,047,600	
9.	Excess of (8) over (7)	(136,126,500)	
10.	Actuarial Value of Assets at June 30, $2008 = (7) + 20\%$ of (9)	\$ 6,751,948,800	

# **Actuarial Value of Assets**

The actuarial value of assets represents a "smoothed" value developed by the actuary to reduce, or eliminate, erratic results which could develop from short-term fluctuations in the market value of assets. For this Plan, the actuarial value has been calculated by adding 20% of the difference between market value and expected value to the expected value. The above table illustrates the calculation of actuarial value of assets for the June 30, 2008 valuation.



### SECTION II ASSETS

### **Investment Performance**

The market value of assets (MVA) returned -1.62% during 2008, which is less than the assumed 8% return. A return of 7.57% on the actuarial value of assets (AVA) is primarily the result of the asset smoothing method being utilized for the calculation 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. In a period of negative returns, the AVA does not decline as rapidly as the MVA.

Projection of Plan's Benefit Payments				
Year Beginning July 1,	<b>Expected Benefit Payments</b>	Expected Contributions*		
2008	\$ 366,711,000	\$ 188,324,000		
2009	382,704,000	180,691,000		
2010	400,500,000	174,012,000		
2011	420,180,000	166,554,000		
2012	442,626,000	172,800,000		
2013	465,881,000	179,280,000		
2014	489,945,000	186,003,000		
2015	515,269,000	192,978,000		
2016	542,328,000	200,215,000		
2017	570,070,000	207,723,000		

Expected benefit payments are projected for the closed group valued at June 30, 2008. Projecting any farther than ten years using a closed-group would not yield reliable predictions due to the omission of new hires.

\* 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 3.75% per year.



### SECTION III LIABILITIES

In this section, we present detailed information on Plan liabilities including:

- **Disclosure** of Plan liabilities at June 30, 2007 and June 30, 2008; and
- Statement of **changes** in these liabilities during the year.

### Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the people ultimately using the figures and the purpose for which they are using them.

- **Present Value of Benefits:** Used for analyzing the financial outlook of the Plan, this represents the amount of money needed today to fully pay off all future benefits and expenses of the Plan, assuming participants continue to accrue benefits.
- Actuarial Accrued Liability: Used for funding calculations and GASB disclosures, this liability is calculated taking the Present Value of Benefits and subtracting the present value of future Member Contributions and future Employer Normal Costs under an acceptable actuarial funding method. This method is referred to as the Entry Age Normal funding method.
- **Present Value of Accrued Liabilities:** Used for communicating the current level of liabilities, this liability represents the total amount of money needed today to fully pay off the current accrued obligations of the Plan, assuming no future accruals of benefits. These liabilities are also required for accounting purposes (FAS 35) and used to assess whether the Plan can meet its current benefit commitments.

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



### SECTION III LIABILITIES

Liabilities/Net (Surplus)/Unfunded						
	June 30, 2007 June 30, 2008					
Present Value of Benefits						
Active Participant Benefits	\$ 4,355,330,500	\$ 4,513,335,100				
Retiree and Inactive Benefits	3,298,727,100	3,532,128,300				
Present Value of Benefits (PVB)	\$ 7,654,057,600	\$ 8,045,463,400				
Market Value of Assets (MVA)	\$ 6,920,607,900	\$ 6,643,047,600				
Future Member Contributions	409,267,900	423,298,900				
Future State Contributions & PRI Fund Transfers	324,181,800	979,116,900				
Total Resources	\$ 7,654,057,600	\$ 8,045,463,400				
Actuarial Accrued Liability						
Present Value of Benefits (PVB)	\$ 7,654,057,600	\$ 8,045,463,400				
Present Value of Future Normal Costs (PVFNC)	1,036,765,000	1,072,308,400				
Present Value of Future Member Contributions (PVFEEC)	409,267,900	423,298,900				
Actuarial Accrued Liability (AAL=PVB-PVFNC-PVFEEC)	6,208,024,700	6,549,856,100				
Actuarial Value of Assets (AVA)	6,437,916,400	6,751,948,800				
Net (Surplus)/Unfunded (AAL – AVA)	\$ (229,891,700)	\$ (202,092,700)				
Present Value of Accrued Liability						
Present Value of Benefits (PVB)	\$ 7,654,057,600	\$ 8,045,463,400				
Present Value of Future Benefit Accruals (PVFBA)	2,494,119,800	2,571,892,300				
Present Value of Accrued Liability (PVAB=PVB-PVFBA)	5,159,937,800	5,473,571,100				
Market Value of Assets (MVA)	6,920,607,900	6,643,047,600				
Net Unfunded (PVAB – MVA)	\$(1,760,670,100)	\$(1,169,476,500)				



### 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 hires 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 will change because of all of the above, and also due to changes in Plan assets resulting from:

- Employer 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 which 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)	Present Value of Benefits	Actuarial Accrued Liability	Present Value of Accrued Liability
Liabilities June 30, 2007	\$ 7,654	\$ 6,208	\$ 5,160
Liabilities June 30, 2008	8,045	6,550	5,474
Liability Increase (Decrease)	391	342	314
Change Due to:			
PRI Increase	0	0	0
Actuarial (Gain)/Loss	NC *	44	NC*
Benefits Accumulated and			
Other Sources	391	298	314

\* NC = not calculated.



### SECTION III LIABILITIES

	Actuarial Liabilities for Funding			
		June 30, 2007	June 30, 2008	
1.	Actuarial Liabilities			
	Retiree and Inactive Benefits	\$ 3,298,727,100	\$ 3,532,128,300	
	Active Members	2,909,297,600	3,017,727,800	
	Total Actuarial Liability	\$ 6,208,024,700	\$ 6,549,856,100	
2.	Actuarial Value of Assets	\$ 6,437,916,400	\$ 6,751,948,800	
3.	Unfunded Actuarial Liability	\$ (229,891,700)	\$ (202,092,700)	
4.	Outstanding PRI Transfers/(1 – 5 years)	\$ 111,781,200	\$ 71,799,700	
5.	Net Gain Base for 20 Year Amortization (3-4)	\$ (341,672,900)	\$ (273,892,400)	



### 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 is 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 stable and predictable.

For this Plan, the funding method employed is the **Entry Age Actuarial Cost Method**. Under this method, there are three components to the total contribution: the **normal cost rate**, the **unfunded actuarial liability rate** (UAL rate), and the **administrative expense rate**. The normal cost rate is determined in the following steps. First, for a typical new entrant an individual normal cost rate is determined by taking the value, as of entry age into the plan, of that member's projected future benefits. This value is then divided by the value, also at entry age, of the member's expected future salary. Finally, the total normal cost rate is reduced by the member contribution rate to produce the employer normal cost rate.

The UAL rate is calculated by amortizing all UAL (except for the present value of scheduled PRI transfers) over an open 20 year period. All payments are determined assuming total pay increases by the annual inflation rate of 3.75%.

The assumed administrative expense rate is 0.35% 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 employer contribution rates for the Plan for this valuation and the prior one.

Employer Contribution Rate			
	June 30, 2007	June 30, 2008	
Entry Age Normal Cost Rate	6.85%	6.85%	
Amortization Payment	(1.53%)	(1.19%)	
Expense	0.35%	<u>0.35%</u>	
Actuarially Determined Contribution	5.67%	6.01%	



### SECTION IV CONTRIBUTIONS

	Development of Plan Cost as of June 30, 2008			
		In Dollars	As % of Payroll	
1.	Present value of projected benefits attributable to:			
	a. Total Normal Cost	\$ 163,445,700	9.55%	
	b. Expected Members Contribution	46,209,800	<u>2.70%</u>	
	c. Employer Paid Normal Cost (a) – (b)	\$ 117,235,900	6.85%	
2.	Amortization of Unfunded Liability	\$ (20,352,200)	(1.19%)	
3.	Allowance for Expense	\$ 5,990,200	0.35%	
4.	Total Employer Contribution Rate $(1) + (2) + (3)$	\$ 102,873,900	6.01%	



### SECTION V ACCOUNTING STATEMENT INFORMATION

Statement No. 35 of the Financial Accounting Standards Board requires the Plan to disclose certain information regarding its funded status. Statement No. 25 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.

The FASB-35 disclosures 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.

The GASB-25 actuarial accrued liability is the same as the actuarial liability amount calculated for funding purposes.

Both the present value of accrued benefits (FASB-35) and the actuarial accrued liability (GASB-25) are determined assuming that the Plan is on-going and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 8% per annum.

FASB Statement No. 35 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. GASB Statement No. 25 requires the actuarial accrued liability be compared with the actuarial value of assets for funding purposes. The relevant amounts as of June 30, 2008 are exhibited in Table V-1. Finally, Table V-2 reconciles the FASB-35 liabilities determined as of the prior valuation, July 1, 2007, to the liabilities as of June 30, 2008.

Tables V-3 through V-5 are exhibits to be used with the State CAFR report. 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 Assets.



### SECTION V ACCOUNTING STATEMENT INFORMATION

	Table V-1			
	Accounting Statement Information June 30, 2007 June 30, 2008			June 30, 2008
	T A	ASB No. 35 Basis	June 30, 2007	June 30, 2008
А.		ASB No. 35 Basis Present Value of Benefits Accrued and Vested to Date		
		<ul><li>a. Members Currently Receiving Payments</li><li>b. Former Vested Members (and LTDs)</li><li>c. Active Members</li></ul>	\$ 3,182,382,400 116,344,700 <u>1,861,210,700</u>	\$ 3,390,992,600 141,135,700 <u>1,941,442,800</u>
	2.	Total Present Value of Accrued Benefits $(1 (a) + 1(b) + 1(c))$	\$ 5,159,937,800	\$ 5,473,571,100
	3.	Assets at Market Value	6,920,607,900	6,643,047,600
	4.	Unfunded Present Value of Accrued Benefits $(2-3)$	\$(1,760,670,100)	\$(1,169,476,500)
	5.	Ratio of Assets to Present Value of Benefits (3 / 2)	134.1%	121.4%
B.	GA	ASB No. 25 Basis		
	1.	Actuarial Accrued Liabilities for retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$ 3,298,727,100	\$ 3,532,128,300
	2.	Actuarial Accrued Liabilities for current employees	2,909,297,600	3,017,727,800
	3.	Total Actuarial Accrued Liability (1 + 2)	\$ 6,208,024,700	\$ 6,549,856,100
	4.	Net Actuarial Assets available for benefits	6,437,916,400	6,751,948,800
	5.	Unfunded Actuarial Accrued Liability (3 – 4)	\$ (229,891,700)	\$ (202,092,700)



### SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-2 Statement of Changes in Total Actuarial Present Value of All Accrued Benefits (in millions)	
	Accumulated Benefit Obligation (FASB 35)
Actuarial Present Value of Accrued Benefits at June 30, 2007	\$ 5,160
Increase (Decrease) During Years Attributable to:	
Passage of Time	399
Benefit Paid – FY 2008	(356)
Disability Carveout	0
PRI	0
Benefits Accrued, Other Gains/Losses	271
Net Increase (Decrease)	314
Actuarial Present Value of Accrued Benefits at June 30, 2008	\$ 5,474



### 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 actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows.

Valuation date	July 1, 2008
Actuarial cost method	Entry age
Amortization method	Open
Remaining amortization period	20 years
Asset valuation method	5-Year smoothed market
Actuarial assumptions:	
Investment rate of return*	8.0%
Projected salary increases*	4.3%-10.1%
*Includes inflation at	3.75%
Cost-of-living adjustments	ad hoc

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 2004.

The rate of employer contributions to the Plan is composed of the normal cost, amortization of the unfunded actuarial accrued liability and an allowance for administrative expenses. The normal cost is a level percent of payroll cost which, along with member contributions, will pay for projected benefits at retirement for the average plan participant. The actuarial accrued liability is that portion of the present value of projected benefits that will not be paid by future employer normal costs or member contributions. The difference between this liability and the funds accumulated as of the same date is the unfunded actuarial accrued 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	2004	2005	2006	2007	2008					
Investment Income on Actuarial Assets Combined Liability Experience (Loss)/Gain During Year from Financial Experience Non-Recurring Items Composite Gain (or Loss) During Year	\$ (34,720) <u>(53,146)</u> \$ (87,866) <u>(137,125)</u> \$(224,991)				$ \begin{array}{c} \$ & (27,225) \\ \underline{(44,449)} \\ \$ & (71,674) \\ \underline{0} \\ \$ & (71,674) \end{array} $					

Table V-5         SOLVENCY TEST         Aggregate Accrued Liabilities for         (expressed in thousands)									
Active MemberActiveActiveActiveEmployerActuarialValuation DateMemberRetirants &FinancedValue ofPortion of Accrued LiabilitiesJune 30,ContributionsBeneficiaries(1)(2)(3)Assets(1)(2)(3)									
2008	\$ 470,813	\$ 3,390,993	\$ 2,688,050	\$ 6,751,949	100%	100%	108%		
2007	444,376	3,182,382	2,581,267	6,437,916	100%	100%	109%		
2006	434,605	2,982,471	2,483,996	5,998,746	100%	100%	104%		
2005	414,001	2,702,359	2,456,359	5,660,057	100%	100%	104%		
2004	396,614	2,437,522	2,395,791	5,378,560	100%	100%	107%		
2003	375,385	2,025,080	2,394,479	5,125,442	100%	100%	114%		



### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Active Members by Age and Service as of June 30, 2008

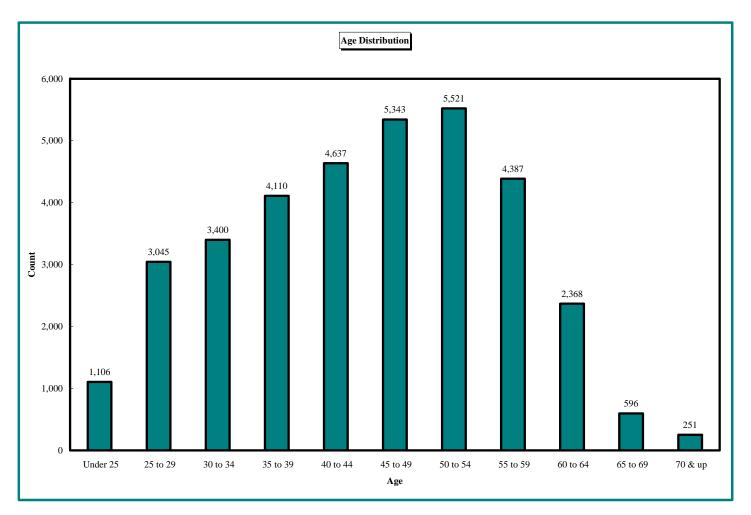
				co	UNIS DI AG	EDERVICE					
					Servic	e					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	338	756	12	0	0	0	0	0	0	0	1,106
25 to 29	364	1,936	731	14	0	0	0	0	0	0	3,045
30 to 34	218	1,336	1,477	356	13	0	0	0	0	0	3,400
35 to 39	233	1,198	1,272	980	404	23	0	0	0	0	4,110
40 to 44	217	1,179	1,164	763	885	408	21	0	0	0	4,637
45 to 49	190	1,115	1,277	851	754	787	353	16	0	0	5,343
50 to 54	174	899	1,083	896	857	706	650	245	11	0	5,521
55 to 59	127	583	718	659	766	600	413	348	169	4	4,387
60 to 64	59	366	414	344	391	286	191	142	141	34	2,368
65 to 69	16	105	130	84	85	66	46	25	24	15	596
70 & up	7	41	66	33	33	15	21	15	12	8	251
Total	1,943	9,514	8,344	4,980	4,188	2,891	1,695	791	357	61	34,764

#### COUNTS BY AGE/SERVICE



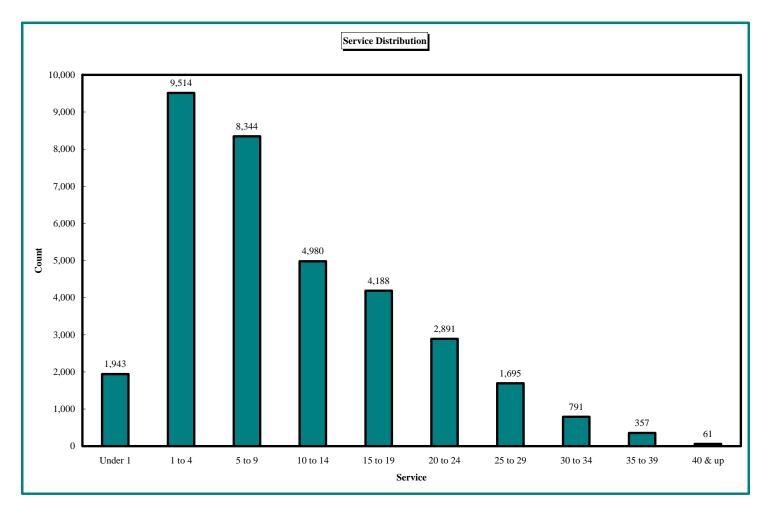
### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Active Members by Age as of June 30, 2008



### APPENDIX A MEMBERSHIP INFORMATION

## Delaware State Employees' Pension Plan Distribution of Active Members by Service as of June 30, 2008





### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Active Members by Age and Service as of June 30, 2008

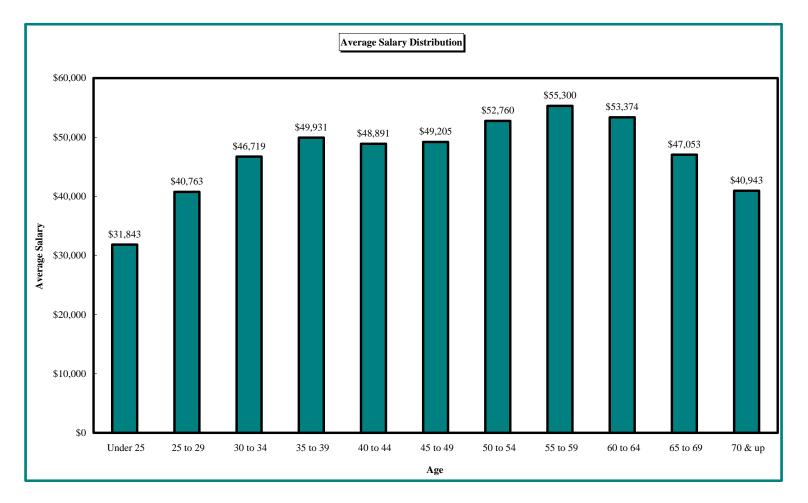
					JE SALAKI D	I HOL/DERV	ICL				
					Servic	e					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	\$26,414	\$34,335	\$27,718	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,843
25 to 29	\$30,631	\$40,497	\$46,574	\$37,600	\$0	\$0	\$0	\$0	\$0	\$0	\$40,763
30 to 34	\$30,465	\$42,532	\$50,874	\$55,056	\$49,169	\$0	\$0	\$0	\$0	\$0	\$46,719
35 to 39	\$29,080	\$43,234	\$51,289	\$58,331	\$57,333	\$46,942	\$0	\$0	\$0	\$0	\$49,931
40 to 44	\$30,931	\$39,214	\$47,756	\$53,151	\$60,356	\$56,844	\$48,200	\$0	\$0	\$0	\$48,891
45 to 49	\$27,580	\$39,653	\$45,979	\$50,632	\$55,801	\$62,586	\$55,345	\$48,595	\$0	\$0	\$49,205
50 to 54	\$30,582	\$42,438	\$47,407	\$50,743	\$56,183	\$61,993	\$64,504	\$67,658	\$53,487	\$0	\$52,760
55 to 59	\$28,761	\$43,334	\$49,085	\$53,204	\$57,078	\$61,039	\$64,304	\$70,398	\$69,379	\$63,799	\$55,300
60 to 64	\$28,885	\$40,187	\$47,111	\$52,119	\$53,761	\$58,667	\$61,046	\$71,443	\$75,621	\$67,017	\$53,374
65 to 69	\$17,562	\$29,535	\$38,740	\$46,535	\$55,037	\$60,289	\$62,420	\$56,699	\$73,603	\$66,921	\$47,053
70 & up	\$17,393	\$26,231	\$28,532	\$33,491	\$53,298	\$37,417	\$60,777	\$68,944	\$71,580	\$75,212	\$40,943
Total	\$29,093	\$40,543	\$48,187	\$53,093	\$56,977	\$60,615	\$61,853	\$68,835	\$71,713	\$67,857	\$49,235

#### AVERAGE SALARY BY AGE/SERVICE



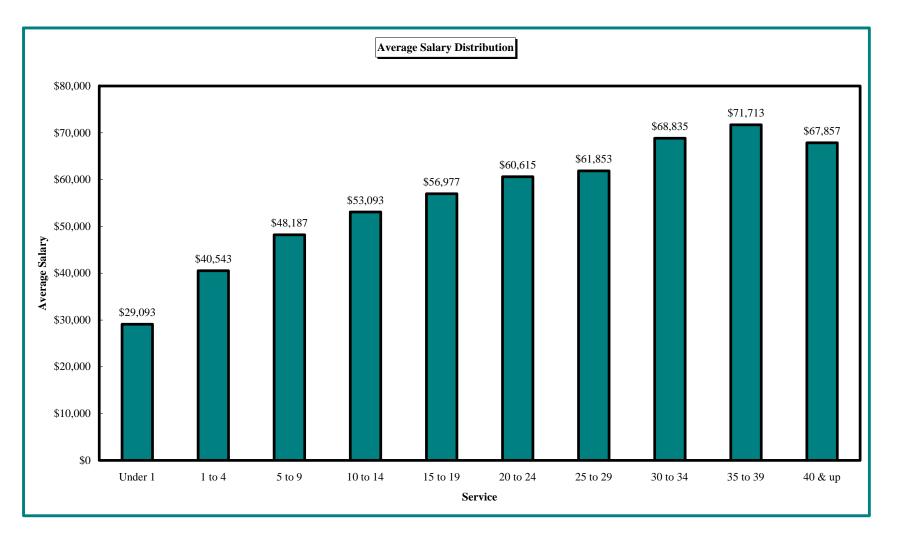
### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Active Members by Age as of June 30, 2008



### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Active Members by Service as of June 30, 2008





### APPENDIX A MEMBERSHIP INFORMATION

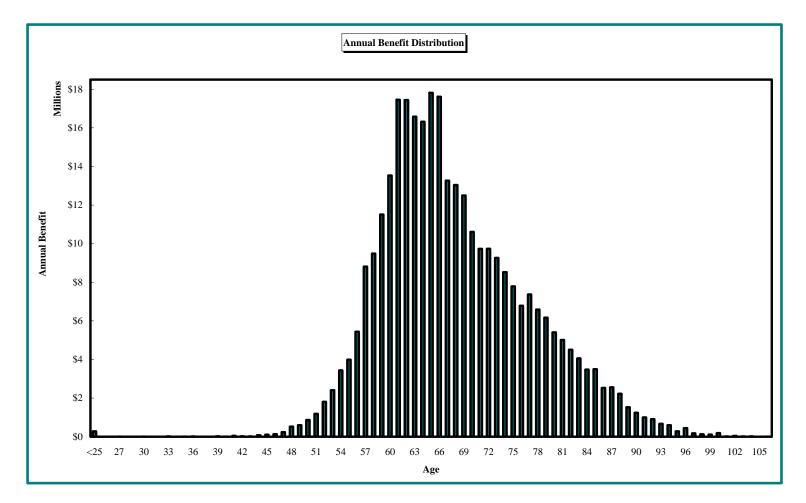
### Delaware State Employees' Pension Plan Distribution of Retired Members and Survivors as of June 30, 2008

Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	56	\$279,506	73	580	\$9,262,233
25	0	\$0	74	576	\$8,524,113
26	0	\$0	75	543	\$7,788,628
27	1	\$7,174	76	538	\$6,785,198
28	0	\$0	77	546	\$7,369,100
29	1	\$1,829	78	516	\$6,582,799
30	1	\$4,808	79	472	\$6,165,860
31	1	\$1,626	80	436	\$5,405,118
32	1	\$1,634	81	460	\$5,010,420
33	1	\$14,405	82	406	\$4,503,230
34	0	\$0	83	378	\$4,056,702
35	1	\$5,278	84	326	\$3,475,323
36	2	\$11,867	85	339	\$3,497,937
37	0	\$0	86	258	\$2,529,576
38	0	\$0	87	277	\$2,554,947
39	3	\$22,629	88	255	\$2,223,694
40	3	\$7,703	89	183	\$1,523,951
41	6	\$44,686	90	152	\$1,236,624
42	3	\$21,916	91	114	\$998,688
43	4	\$13,147	92	104	\$908,356
44	10	\$73,552	93	72	\$668,195
45	11	\$102,694	94	65	\$594,168
46	11	\$130,289	95	37	\$278,610
47	17	\$234,110	96	43	\$444,210
48	40	\$521,988	97	17	\$171,838
49	32	\$595,535	98	18	\$123,079
50	49	\$869,174	99	10	\$110,036
51	65	\$1,185,663	100	15	\$187,730
52	85	\$1,807,728	101	1	\$9,253
53	106	\$2,406,732	102	6	\$42,139
54	147	\$3,433,041	103	1	\$8,796
55	152	\$3,993,610	104	1	\$16,908
56	220	\$5,435,305	105	0	\$0
57	321	\$8,811,299	106	1	\$6,170
58	346	\$9,486,259	107	0	\$0
59	408	\$11,506,943	108	0	\$0
60	456	\$13,531,564	109	0	\$0
61	599	\$17,451,380	110	0	\$0
62	626	\$17,441,594	111	0	\$0
63	643	\$16,577,492	112	0	\$0
64	661	\$16,313,530	113	0	\$0
65	758	\$17,812,208	114	0	\$0
66	784	\$17,603,979	115	0	\$0
67	656	\$13,264,222	116	0	\$0
68	659	\$13,038,843	117	0	\$0
69	633	\$12,493,368	118	0	\$0
70	597	\$10,606,612	119	0	\$0
71	573	\$9,730,900	120	0	\$0
72	561	\$9,737,400			
			Totals	18,056	\$329,698,848



### APPENDIX A MEMBERSHIP INFORMATION

## Delaware State Employees' Pension Plan Distribution of Retired Members and Survivors as of June 30, 2008



### APPENDIX A MEMBERSHIP INFORMATION

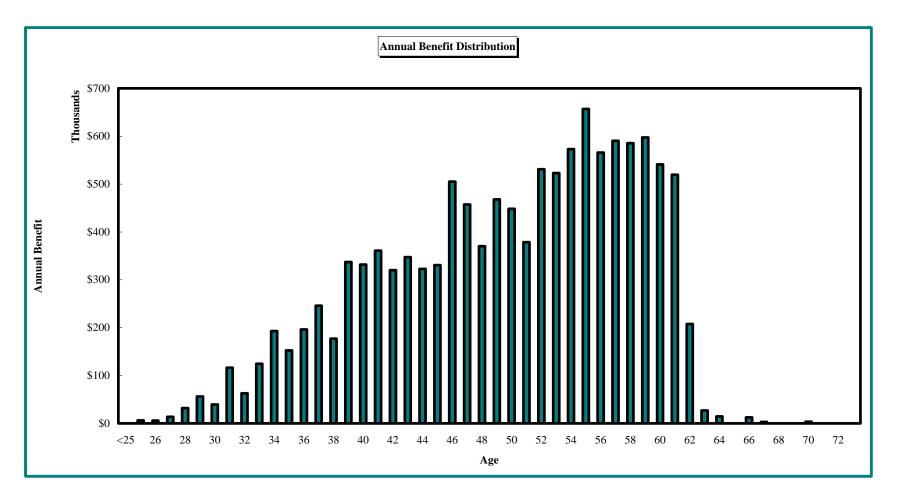
# Delaware State Employees' Pension Plan Distribution of Vested Members as of June 30, 2008

25       0       \$0       73       0       \$0 $25$ 2       \$6.117       74       0       \$0 $26$ 1       \$5.961       75       0       \$0 $27$ 4       \$13.765       76       1       \$756 $28$ 6       \$31.841       77       0       \$00 $29$ 14       \$56.222       78       0       \$00 $31$ 23       \$116.281       80       0       \$00 $32$ 18       \$63.000       81       0       \$00 $34$ 37       \$193.019       \$83       0       \$00 $34$ 37       \$193.019       \$87       0       \$00 $34$ 37       \$193.019       \$87       0       \$00 $34$ 37       \$193.019       \$87       0       \$00 $34$ \$195.24,870       \$86       0       \$00 $38$ 31       \$17,709       \$87       0       \$00 $44$ 43       \$360,776       90       0       \$00 $44$	Age	Count	Annual Benefit	Age	Count	Annual Benefit
261 $55,61$ 75050 $27$ 4 $513,765$ 761 $5756$ $28$ 6 $63,1841$ 77050 $29$ 14 $556,222$ 78050 $31$ 23 $5116,281$ 80050 $32$ 18 $563,000$ 81050 $32$ 18 $563,000$ 81050 $34$ 37 $5193,019$ 83050 $35$ 26 $5152,515$ 84050 $36$ 40 $5196,234$ 85050 $37$ 34 $5245,870$ 869050 $39$ 50 $5331,752$ 89050 $41$ $43$ $5360,776$ 90050 $44$ $44$ $532,252$ 93050 $44$ $44$ $532,521$ 94050 $45$ $40$ $5330,521$ 94050 $44$ $44$ $532,522$ 93050 $45$ $40$ $5330,521$ 94050 $45$ $40$ $5330,521$ 94050 $45$ $40$ $5330,521$ 98050 $45$ $43$ $573,055$ 103050 $50$ $47$ $5457,402$ 96050 $51$ $42$ $573,055$ 103050 $55$ $68$ $8657,004$ 104050<	<25	0		73	0	\$0
274\$13,765761\$756 $28$ 6\$31,841770\$0 $29$ 14\$56,222780\$0 $30$ 12\$39,418790\$0 $31$ 23\$116,281800\$0 $33$ 22\$124,674820\$0 $34$ 37\$193,019830\$0 $35$ 26\$152,515840\$0 $36$ 40\$196,234850\$0 $37$ 34\$245,870860\$0 $38$ 31\$177,079870\$0 $40$ 50\$337,186880\$0 $40$ 50\$337,750900\$0 $41$ $43$ \$360,776900\$0 $43$ 54\$347,500920\$0 $44$ $44$ \$32,222930\$0 $45$ 40\$330,521940\$0 $45$ 44\$32,3027970\$0 $44$ $43$ \$370,327970\$0 $45$ 54\$457,402980\$0 $55$ 68\$657,0041000\$0 $51$ 42\$378,6081000\$0 $52$ 60\$531,1991010\$0 $55$ 68\$657,004106\$0\$0 $55$ 68\$657,004100\$0						
286 $31, 841$ 770 $50$ $29$ 14 $556, 222$ 780 $50$ $30$ 12 $539, 418$ 790 $50$ $31$ 23 $$116, 281$ 800 $50$ $33$ 22 $$124, 674$ 820 $50$ $34$ 37 $$193, 019$ 830 $50$ $36$ 40 $$196, 234$ 850 $50$ $36$ 40 $$196, 234$ 860 $50$ $38$ 31 $$177, 079$ 870 $50$ $39$ 50 $$331, 752$ 880 $50$ $44$ 43 $$360, 776$ 900 $50$ $42$ 38 $$320, 259$ 910 $50$ $44$ $44$ $$322, 822$ $93$ 0 $50$ $44$ $44$ $$322, 822$ $93$ 0 $50$ $45$ 40 $$330, 521$ 940 $50$ $47$ 50 $$457, 402$ $96$ 0 $50$ $48$ $43$ $$370, 327$ $97$ 0 $50$ $47$ $50$ $$457, 402$ $98$ 0 $50$ $50$ $47$ $$448, 382$ $99$ 0 $50$ $51$ $42$ $$573, 055$ $103$ 0 $50$ $51$ $42$ $$573, 055$ $103$ 0 $50$ $51$ $42$ $$573, 055$ $103$ 0 $50$ $53$ $68$ $$657, 004$ $104$ 0 $50$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
2914 $\$56,222$ 780 $\$0$ 3012 $\$39,418$ 790 $\$0$ 3123 $\$16,281$ $\$0$ 0 $\$0$ 3218 $\$63,000$ $\$1$ 0 $\$0$ 3322 $\$124,674$ $\$2$ 0 $\$0$ 3437 $\$193,019$ $\$3$ 0 $\$0$ 352.6 $\$152,515$ $\$4$ 0 $\$0$ 364.0 $\$16,234$ $\$5$ 0 $\$0$ 3734 $\$245,870$ $86$ 0 $\$0$ 3831 $\$17,079$ $87$ 0 $$00$ 3950 $\$331,752$ $\$9$ 0 $$00$ 4050 $\$331,752$ $\$9$ 0 $$00$ 41 $43$ $\$360,776$ 900 $$00$ 42 $38$ $\$320,259$ 910 $$00$ 43 $54$ $\$347,500$ 920 $$00$ 44 $4322,822$ 930 $$00$ 4540 $\$330,521$ 940 $$00$ 46 $57$ $$505,110$ 950 $$00$ 47 $50$ $$457,402$ $96$ 0 $$00$ 48 $43$ $$370,327$ $97$ 0 $$00$ 50 $54$ $64$ $$573,057$ 1030 $$00$ 51 $42$ $$376,608$ 1000 $$00$$ 52 $60$ $$531,199$ 1010 $$00$$ 55 $68$ $$570,04$						
3012 $$39,418$ $79$ 0 $$00$ $31$ 23 $$116,281$ $80$ 0 $$00$ $32$ 18 $$63,000$ $81$ 0 $$00$ $33$ 22 $$124,674$ $82$ 0 $$00$ $34$ 37 $$193,019$ $83$ 0 $$00$ $35$ 26 $$152,515$ $84$ 0 $$00$ $36$ 40 $$196,234$ $85$ 0 $$00$ $38$ 31 $$177,079$ $87$ 0 $$00$ $39$ 50 $$331,752$ $89$ 0 $$00$ $40$ 50 $$331,752$ $89$ 0 $$00$ $41$ $43$ $$360,776$ $90$ 0 $$00$ $42$ $38$ $$322,822$ $93$ 0 $$00$ $44$ $44$ $$322,822$ $93$ 0 $$00$ $44$ $43$ $$370,327$ $97$ 0 $$00$ $45$ $40$ $$330,521$ $94$ 0 $$00$ $47$ $50$ $$457,402$ $96$ 0 $$00$ $48$ $43$ $$370,327$ $97$ 0 $$00$ $50$ $47$ $$448,382$ $99$ 0 $$00$ $51$ $42$ $$378,608$ 1000 $$00$ $52$ $66$ $$557,975$ 1030 $$00$ $54$ $645,70,557$ 1030 $$00$ $55$ $68$ $$570,057$ 1090 $$00$ $56$ $66$ $$556,974$ 1060<						
31 $23$ \$116,281 $80$ $0$ \$0 $32$ 18\$63,000810\$0 $33$ $22$ \$124,674 $82$ 0\$0 $34$ $37$ \$193,019 $83$ 0\$0 $35$ $26$ \$152,515 $84$ 0\$0 $36$ $40$ \$196,234 $85$ 0\$0 $37$ $34$ \$245,870 $86$ 0\$0 $39$ \$50\$337,186 $88$ 0\$0 $40$ \$50\$331,752 $89$ 0\$0 $41$ $43$ \$360,776900\$0 $42$ $38$ \$320,259910\$0 $43$ $54$ \$347,500920\$0 $44$ $44$ \$323,822930\$0 $45$ $40$ \$330,511940\$0 $46$ \$77\$505,110950\$0 $47$ \$50\$457,402960\$0 $48$ $43$ \$370,327970\$0 $51$ $42$ \$378,6081000\$0 $52$ $66$ \$531,1991010\$0 $53$ $51$ \$523,0371020\$0 $54$ $64$ \$573,0551030\$0 $55$ $68$ \$657,0041040\$0 $56$ $66$ \$569,741050\$0 $57$ $67$ \$590,5321080\$0 <tr<< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<<>						
3218 $$63,000$ $$1$ 0 $$0$ $33$ 22 $$124,674$ $$2$ 0 $$0$ $34$ 37 $$193,019$ $$3$ 0 $$0$ $35$ 26 $$152,515$ $$4$ 0 $$0$ $36$ $40$ $$196,234$ $$5$ 0 $$0$ $36$ $40$ $$196,234$ $$5$ 0 $$0$ $38$ $31$ $$177,079$ $$7$ 0 $$0$ $39$ $$50$ $$331,752$ $$9$ 0 $$00$ $40$ $$0$ $$331,752$ $$9$ 0 $$00$ $41$ $43$ $$30,776$ $90$ 0 $$00$ $42$ $38$ $$320,259$ $91$ 0 $$00$ $43$ $$44,7500$ $92$ 0 $$00$ $44$ $44$ $$322,822$ $93$ 0 $$00$ $45$ $40$ $$330,521$ $94$ 0 $$00$ $46$ $57$ $$03,271$ $97$ 0 $$00$ $47$ $$50$ $$45,7402$ $96$ 0 $$00$ $48$ $43$ $$370,327$ $97$ 0 $$00$ $50$ $47$ $$448,382$ $99$ 0 $$00$ $51$ $$22,3037$ $100$ 0 $$00$ $52$ $60$ $$531,199$ $101$ 0 $$00$ $51$ $$22,3037$ $102$ 0 $$00$ $55$ $68$ $$657,004$ $104$ 0 $$00$ $55$ $68$ $$657,004$ $106$ 0 $$00$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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68         0         \$0         117         0         \$0           69         0         \$0         118         0         \$0           70         2         \$3,501         119         0         \$0           71         0         \$0         120         0         \$0           72         0         \$0         \$0         \$0         \$0						
69         0         \$0         118         0         \$0           70         2         \$3,501         119         0         \$0           71         0         \$0         120         0         \$0           72         0         \$0         \$0         \$0         \$0			. ,			
70         2         \$3,501         119         0         \$0           71         0         \$0         120         0         \$0           72         0         \$0         \$0         \$0         \$0						
71     0     \$0     120     0     \$0       72     0     \$0						
72 0 \$0						
				120	0	\$0
Totals 1,575 \$12,354,229	72	0	\$0			
				Totals	1,575	\$12,354,229



### APPENDIX A MEMBERSHIP INFORMATION

# Delaware State Employees' Pension Plan Distribution of Vested Members as of June 30, 2008

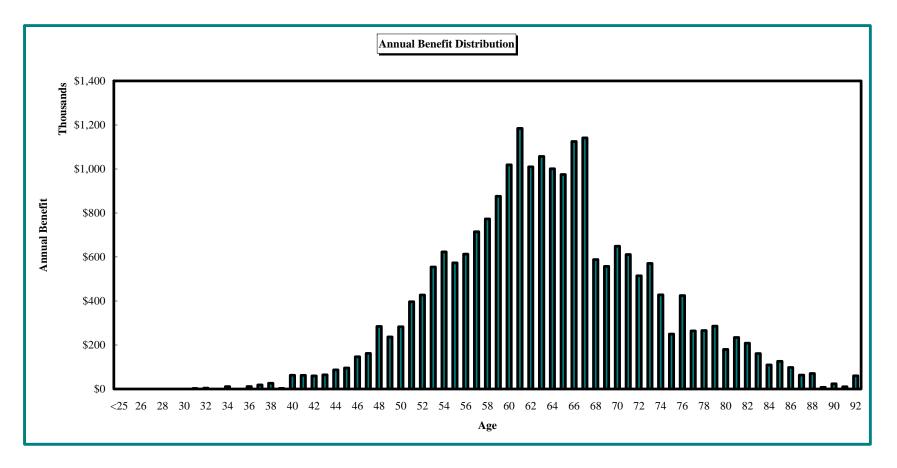


## APPENDIX A MEMBERSHIP INFORMATION

Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	0	\$0	73	57	\$570,918
25	0	\$0	74	44	\$428,033
26	0	\$0	75	34	\$250,134
27	0	\$0	76	45	\$424,628
28	0	\$0	77	25	\$263,811
29	0	\$0	78	31	\$265,747
30	0	\$0	79	33	\$286,144
31	1	\$2,663	80	28	\$179,805
32	1	\$4,017	81	29	\$233,803
33	0	\$0	82	25	\$208,160
34	3	\$10,830	83	23	\$160,937
35	0	\$0	84	18	\$109,699
36	2	\$11,151	85	20	\$126,171
37	4	\$18,272	86	14	\$97,977
38	5	\$25,978	87	10	\$63,175
39	1	\$2,977	88	13	\$70,369
40	7	\$62,622	89	2	\$7,511
41	10	\$62,029	90	5	\$23,824
42	9	\$59,861	91	2	\$10,244
43	11	\$64,263	92	6	\$60,009
44	14	\$86,740	93	1	\$8,576
45	11	\$95,463	94	1	\$9,259
46	19	\$146,478	95	0	\$0
47	21	\$161,874	96	0	\$0
48	28	\$284,456	97	0	\$0
49	29	\$236,546	98	0	\$0
50	28	\$283,084	99	0	\$0
51	39	\$396,515	100	0	\$0
52	46	\$427,339	101	0	\$0
53	58	\$554,684	102	0	\$0
54	60	\$623,506	103	0	\$0
55	49	\$573,277	104	0	\$0
56	58	\$612,862	105	0	\$0
57	59	\$714,671	106	0	\$0
58	60	\$773,242	107	0	\$0
59	79	\$876,021	108	0	\$0
60	84	\$1,018,928	109	0	\$0
61	87	\$1,184,464	110	0	\$0
62	78	\$1,009,880	111	0	\$0
63	87	\$1,057,012	112	0	\$0
64	69	\$1,000,630	113	0	\$0
65	85	\$974,694	114	0	\$0
66	93	\$1,125,090	115	0	\$0
67	86	\$1,141,156	116	0	\$0
68	46	\$588,286	117	0	\$0
69	59	\$557,444	118	0	\$0
70	61	\$649,187	119	0	\$0
71	64	\$610,964	120	0	\$0
72	48	\$514,493			
			Totals	2,125	\$22,462,581



# APPENDIX A MEMBERSHIP INFORMATION



# APPENDIX A MEMBERSHIP INFORMATION

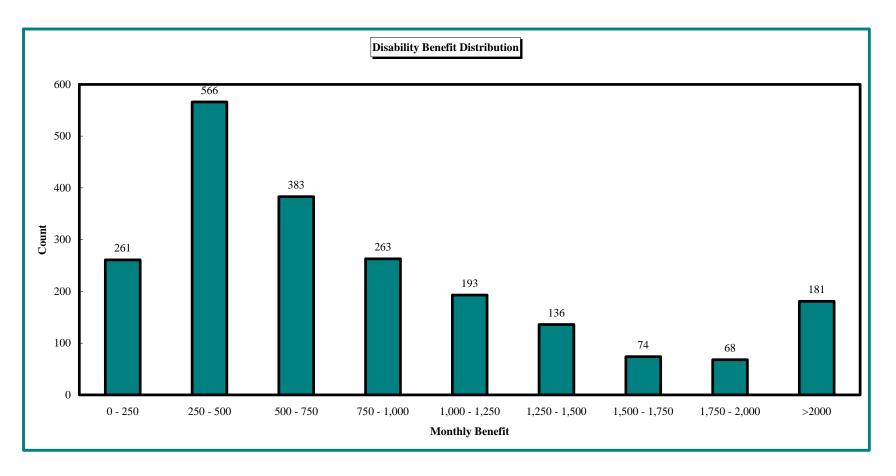
# Delaware State Employees' Pension Plan Distribution of Disabled Members as of June 30, 2008

COUNTS BY BENEFIT/SERVICE										
Madd										
Monthly Benefit	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
0 - 250	0	206	46	8	1	0	0	0	0	261
250 - 500	0	221	239	85	17	4	0	0	0	566
500 - 750	0	37	137	138	58	12	1	0	0	383
750 - 1,000	1	6	37	103	83	26	7	0	0	263
1,000 - 1,250	0	0	18	64	75	30	5	0	1	193
1,250 - 1,500	0	0	12	28	39	42	11	3	1	136
1,500 - 1,750	0	0	2	13	27	25	б	1	0	74
1,750 - 2,000	0	0	1	6	24	21	11	5	0	68
>2000	0	0	1	7	28	73	47	20	5	181
Total	1	470	493	452	352	233	88	29	7	2,125

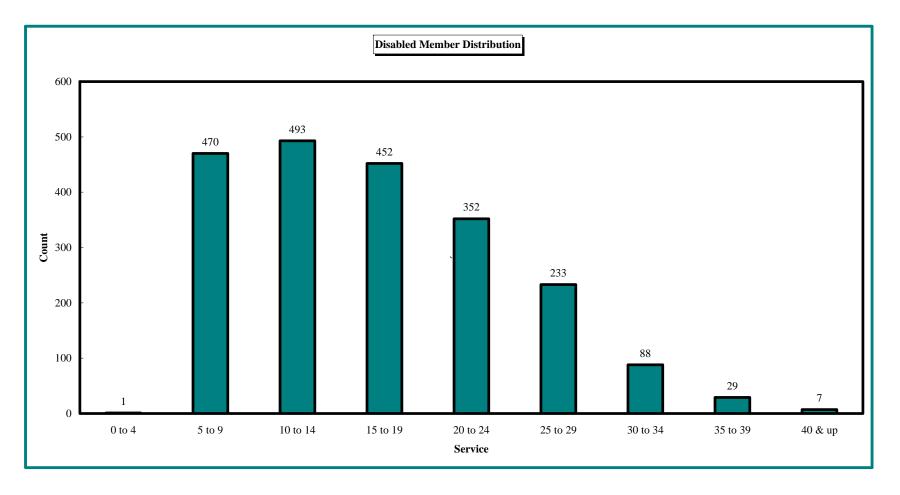
#### COUNTS BY BENEFIT/SERVICE



# APPENDIX A MEMBERSHIP INFORMATION



# APPENDIX A MEMBERSHIP INFORMATION



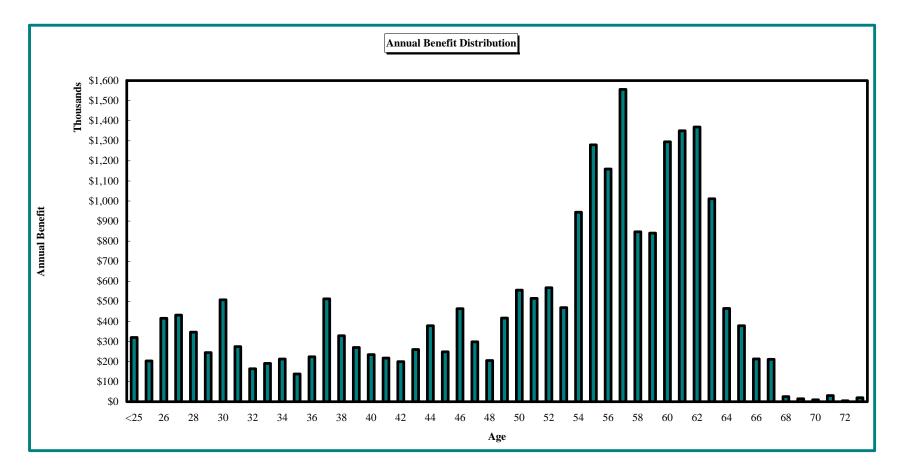


#### APPENDIX A MEMBERSHIP INFORMATION

Age	Count	Annual Benefit	Age	Count	Annual Benefit
<25	16	\$319,708	73	3	\$19,918
25	9	\$203,150	74	0	\$0
26	17	\$415,743	75	0	\$0
27	18	\$431,426	76	0	\$0
28	17	\$346,588	77	0	\$0
29	11	\$245,035	78	1	\$6,011
30	18	\$507,629	79	1	\$6,445
31	10	\$274,733	80	0	\$0
32	8	\$164,023	81	0	\$0
33	8	\$190,872	82	0	\$0
34	9	\$212,843	83	0	\$0
35	8	\$138,204	84	0	\$0
36	11	\$223,987	85	0	\$0 \$0
37	20	\$512,470	86	0	\$0
38	13	\$328,763	87	0	\$0 \$0
39	10	\$270,315	88	0	\$0 \$0
40	13	\$234,770	89	0	\$0 \$0
40	10	\$217,583	90	0	\$0 \$0
42	10	\$199,526	91	0	\$0 \$0
43	18	\$259,816	92	0	\$0 \$0
44	18	\$378,359	93	0	\$0 \$0
44	18	\$248,470	93	0	\$0 \$0
45	21	\$463,771	95	0	\$0 \$0
40	19	\$298,154	95	0	\$0 \$0
47	13	\$298,134	90	0	\$0 \$0
48 49	24	\$416,838	98	0	\$0 \$0
49 50	24	\$556,099	90	0	\$0 \$0
51	23	. ,	100	0	\$0 \$0
52	20 24	\$515,041 \$567,926	100	0	\$0 \$0
53	24		101	0	\$0 \$0
53 54	21	\$468,478 \$044,180	102	0	\$0 \$0
55	35	\$944,180 \$1,270,652	103	0	\$0 \$0
56	35	\$1,279,652	104	0	\$0 \$0
	55 44	\$1,159,512			
57		\$1,555,869	106	0	\$0 \$0
58	27	\$846,743	107	0 0	\$0 \$0
59 60	27	\$840,595	108		\$0 \$0
60	39	\$1,294,876	109	0 0	\$0 \$0
61	44	\$1,349,928	110	0	\$0 \$0
62 62	48	\$1,368,861	111		\$0 \$0
63	32	\$1,010,930	112	0	\$0 \$0
64	22	\$464,726	113	0	\$0 \$0
65	16	\$378,349	114	0	\$0 ©0
66	11	\$213,275	115	0	\$0 \$0
67	12	\$210,998	116	0	\$0 \$0
68	6	\$25,501	117	0	\$0 \$0
69	2	\$14,641	118	0	\$0 \$0
70	2	\$9,539	119	0	\$0 \$0
71	2	\$30,615	120	0	\$0
72	3	\$4,457	<b>m</b>	~~~~	400 051 1 c-
			Totals	890	\$22,851,165



# 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. Healthy Inactive Mortality

With Mortality Improvements (Projection Scale) Male: 85% of RP-2000 MB Mortality Table Female: 87% of RP-2000 FW Mortality Table

	Rates (	Healthy Inact Prior to		•
Age	Male	ction) Female	Male	on Scale Female
50	0.48%	0.21%	1.80%	1.70%
55	0.61%	0.30%	1.90%	0.80%
60	0.90%	0.49%	1.60%	0.50%
65	1.41%	0.79%	1.40%	0.50%
70	2.27%	1.32%	1.50%	0.50%
75	3.67%	2.24%	1.40%	0.80%
80	6.00%	3.75%	1.00%	0.70%
85	9.78%	6.45%	0.70%	0.60%
90	15.45%	10.98%	0.40%	0.30%

### b. Healthy Active Mortality

With Mortality Improvements (Projection Scale) Male: 95% of RP-2000 RE Mortality Table Female: 80% of RP-2000 RE Mortality Table

Rates of Healthy Active Mortality					
Age	Male	Female			
20	0.03%	0.02%			
25	0.04	0.02			
30	0.04	0.02			
35	0.07	0.04			
40	0.10	0.06			
45	0.14	0.09			
50	0.20	0.13			
55	0.29	0.20			
60	0.46	0.31			



#### APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

# c. Disabled Inactive Mortality

Male: 63% of 1965 Railroad Retirement Board Disabled Mortality Female: 92% of 1981 PBGC Disabled Mortality with Social Security

Rates of Disabled Inactive Mortality					
Age	Male	Female			
40	2.78%	1.92%			
45	2.82%	2.06%			
50	3.06%	2.36%			
55	3.73%	2.71%			
60	4.57%	3.05%			
65	5.46%	3.40%			
70	6.53%	3.78%			
75	7.96%	4.53%			
80	9.73%	6.86%			

# d. Rates of Active Disability

Rates of Active Disability			
Age	Current		
20	0.05%		
25	0.05		
30	0.18		
35	0.27		
40	0.38		
45	0.46		
50	0.62		
55	0.95		
60	1.57		



### APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

# e. Termination of Employment (Prior to Normal Retirement Eligibility)

Age Select:	0	1	2	3	4	5	6	7	8	9	Ultimate
<35	19%	16%	12%	10%	8%	6%	6%	5%	4%	4%	3%
35-39	19	16	12	10	8	6	6	5	4	4	2
40-54	15	11	8	7	5	5	4	4	3	3	1.5
55-59	17	14	10	8	6	5	5	4	3	3	1.5
60-65	23	17	14	10	8	6	5	4	4	3	1.5
>65	23	21	16	14	10	8	5	4	4	3	1.5

10-year Select (age- and service-based) & Ultimate (age-based) tables.

#### f. Retirement

Early Retirement: 1-year Select & Ultimate (age-based) upon attaining the earliest of:

- a) age 55 with 15 years of credited service
- b) 25 years of credited service

Normal Retirement: 1-year Select & Ultimate (age-based) upon attaining the earliest of:

- a) age 62 with five years of credited service
- b) age 60 with 15 years of credited service
- c) 30 years of credited service

Male Early Retirement					
Age	Select	Ultimate			
<41	1.00%	0.00%			
41 - 44	1.00	0.50			
45 - 46	3.00	0.50			
47 - 49	3.00	2.00			
50 - 51	3.00	3.00			
52 - 59	3.00	5.00			



## APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

Μ	Male Normal Retirement					
Age	Select	Ultimate				
<45	13.00%	0.00%				
45 - 56	13.00	11.00				
57	13.00	15.00				
58 - 60	10.00	15.00				
61	10.00	26.00				
62	20.00	26.00				
63	10.00	20.00				
64	16.00	20.00				
65 - 66	16.00	26.00				
67	16.00	20.00				
68 – 79	16.00	16.00				
80+	100.00	100.00				

F	Female Early Retirement					
Age	Select	Ultimate				
<41	1.50%	0.00%				
41 - 48	1.50	2.00				
49 - 50	2.00	2.00				
51 - 52	2.00	3.00				
53 - 54	5.00	3.00				
55	5.00	5.00				
56 - 57	6.00	5.00				
58 - 59	7.00	5.00				



### APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

F	Female Normal Retirement					
Age	Select	Ultimate				
<45	15.00%	0.00%				
45 - 51	15.00	6.00				
52 - 53	15.00	8.00				
54	15.00	11.00				
55 – 57	20.00	11.00				
58 – 59	20.00	14.00				
60	12.00	14.00				
61 – 62	21.00	24.00				
63	10.00	24.00				
64	10.00	17.00				
65	26.00	24.00				
66	15.00	24.00				
67 – 70	15.00	21.00				
71 – 79	15.00	12.00				
80+	100.00	100.00				

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

10-year Select (service-based) & Ultimate (age-based) merit tables plus an annual inflation rate of 3.75% (rates shown below exclude amount for inflation).

Select

	Service (years)	Increase
	0 - 1	6.14
	2	4.25
	3 – 9	2.66
<u>Ultimate</u>		
	Age	Increase
	<40	1.50
	40 - 49	1.00
	50+	0.50

# h. Family Composition

Female spouses are assumed to be three years younger than males.

70% are assumed married for both male and female employees.

Actual marital characteristics are used for pensioners.



## APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

# 2. Economic Assumptions

a.	Rate of Investment Return:	8.00%
b.	Rate of General Wage Increase:	3.75%
c.	Rate of Increase in Cost of Living:	0.00%
d.	Rate of Increase in Total Payroll	
	(for Amortization):	3.75%
e.	Administrative Expenses as a	
	Percentage of Payroll:	0.35%

# 3. Changes Since Last Valuation

None.



## APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

### **B.** Actuarial Methods

## 1. Funding Method

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

The actuarial accrued liability is that portion of the present value of projected benefits that will not be paid by future employer 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 accrued liability in excess of plan assets is amortized to develop an additional cost or savings which 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 which is not expected to be paid through transfers from the PRI Fund is amortized over a rolling 20 year period. All payments are determined assuming total pay increases by the annual inflation rate.

#### 2. Actuarial Value of Assets

For purposes of determining the State contribution rate to the plan we use an actuarial value of assets. The asset adjustment 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 contribution, less payment 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

## 1. Membership

The Plan covers full-time and regular part-time employees of the State (including elected or appointed officials), the State Department of Public Instruction, a school district which is part of the State School System (the membership includes 19 school districts), the University of Delaware (excluding most faculty and designated professional staff), Delaware State University, Delaware Technical & Community College, Wilmington Federal Credit Union and any State Agency supported in whole or in part by federal funds granted to the State.

## 2. Member Contributions

3% of compensation which exceeds \$6,000 per annum. Interest is credited at the rate of 5% per year.

Member contributions are made through an "employer pick-up" arrangement which results in deferral of taxes on the contributions.

## 3. Credited Service

All service as a member plus certain claimed and purchased service.

# 4. Final Average Compensation

Final Average Compensation is the average of any 36 months comprised of three periods of 12 consecutive months (or shorter period of total service) of compensation paid to the member, including salary, wage and fees, plus overtime payments and special payments for extra duty.

#### 5. Normal Retirement

- Eligibility: (i) age 62 with five years of credited service; or (ii) age 60 with 15 years of credited service; or (iii) any age with 30 years of credited service.
- Benefit: 2.0% of final average compensation multiplied by years of service prior to January 1, 1997 plus 1.85% of final average compensation multiplied by years of service after January 1, 1997.



## APPENDIX C SUMMARY OF PLAN PROVISIONS

### 6. Early Retirement

- Eligibility: (i) age 55 with 15 years of credited service; or (ii) any age with 25 years of credited service.
- Benefit: Normal retirement benefit calculated using final average compensation and service at early retirement, and reduced by 0.2% for each month which retirement age precedes the earlier of age 60 or the attainment of 30 years of service.

#### 7. Disability Benefit

- Eligibility: Five years of credited service
- Benefit: Normal retirement benefit calculated using service and salary at disability date.
- State Plan: Member who opted into the Disability Insurance Program will not receive a benefit from this Plan until they reach normal retirement eligibility.

## 8. Survivor's Benefit

- Eligibility: Five years of credited service if active, or death after retirement.
- Benefit: For eligible survivors of employees who die in active service: 75% of service pension employee would have been eligible to receive at age 62, calculated using final average compensation and credited service accrued to the date of death.

For eligible survivors of pensioners who die: 50% of pension received immediately prior to death, or 75%, if the pensioner has so elected by taking a 3% reduction to his benefit.

Eligible survivors include: (1) widow or widower; or (2) child or children under 18, or between 18 and 22 and attending school on a full-time basis, or over 18 and permanently disabled before 18; or (3) dependent parent or parents. If no eligible survivors, accumulated contributions with interest over aggregate pension payments are payable to the beneficiary.

# 9. Burial Benefit

\$7,000 lump sum.



# APPENDIX C SUMMARY OF PLAN PROVISIONS

## **10. Vesting**

- Eligibility: Employees who separate from service with at least five years of service.
- Benefit: Accrued normal retirement benefit, payable at age 62. In lieu of a pension, a member may receive a refund of accumulated contributions with interest. Upon application for a refund of contributions a member's vested right to a monthly benefit shall be forfeited.

#### 11. Withdrawal of Employee Contributions

Eligibility: Terminates service and is not eligible for other benefits.

Benefit: Accumulated employee contributions with interest.

## 12. Form of Payment

The normal form of payment is a life annuity.

A member may elect a 75% joint and survivor form with a 3% reduction in benefits.

### 13. Cost-of-Living Adjustment

Cost-of-Living Adjustments are made only on an ad hoc basis.

#### 14. Changes Since Last Valuation

None.

