Legislative Analysis Report of Senate Bill 280 and House Bill 562

Produced by Cheiron February 2022

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VIA ELECTRONIC MAIL

March 2, 2022

Board of Trustees State Teachers Retirement System of Ohio 275 East Broad Street Columbus, Ohio 43215

Dear Members of the Board:

As required under the Ohio Revised Code section 3307.51 (D) the Board must have a report by an actuary on the potential financial impact of any proposed legislation. This report is intended to comply with 3307.51(D) and contains a

- summary of the Senate Bill 280 and House Bill 562;
- reference to the actuarial assumptions and methods used in the report;
- description of the participant groups included in the report;
- statement of the financial impact of the legislation including
 - o the increase in the employer normal cost percentage;
 - o the increase in actuarial liabilities; and
 - o the per cent of payroll that would be required to amortize the increase in actuarial liabilities as a level per cent of payroll over thirty years;
- statement of whether the scheduled contribution to the system after the proposed change is enacted are expected to be sufficient to satisfy the funding objectives by the board

The results of this analysis 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 or applicable laws, the results would vary accordingly.

This report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion 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.

Members of the Board March 2, 2022 Page ii

This report was prepared for STRS Ohio for the purposes described herein. Other users of this 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

Gene Kalwarski, FSA, FCA, MAAA, EA Principal Consulting Actuary

Bonnie Rightnour, FSA, MAAA, EA

Consulting Actuary

Michael Moble, FSA, FCA, MAAA, EA Principal Consulting Actuary



SECTION I -SUMMARY OF PROPOSED LEGISLATION

Senate Bill No. 280 and House Bill No. 562 both propose to amend section 3307.67 of the Revised Code regarding adjustments by the State Teachers Retirement Board to the cost-of-living adjustment (COLA).

The proposed legislation provides that beginning July 1, 2022, the board's ability under 3307.67(E) to adjust the annual increase payable under 3307.67(A) shall be limited to adjustments that are greater than two percent.

In the current law, the "base" benefit is increased each year by 2% of the original benefit. For members retiring on or after August 1, 2013, the 2% COLA is paid on the fifth anniversary of the retirement benefit. Future annual increases are calculated on the original benefit and are not compounded.

Effective July 2017, the COLA has been reduced to zero.

The impact of this legislation would be to increase the COLA to a minimum of 2% in all future years beginning July 1, 2022.



SECTION II - ANALYSIS OF FINANCIAL IMPACT

In order to help assess the financial impact of Senate Bill 280 and House Bill 562 on the System we will compare liabilities and normal cost of the plan. As of June 30, 2021, without changes (Baseline) and after implementation of the change to future COLA rate to 2% (After SB280/HB562).

For this purpose, the funding method employed is the Entry Age Normal actuarial cost method. Under this funding method, a total normal cost rate is determined as a level percentage of payroll for each active member. The normal cost rate multiplied by payroll equals the total normal cost for each member. The total anticipated member contributions for the year are then subtracted from the sum of the total normal cost to arrive at the employer normal cost. The difference between Total Actuarial Liability and the Actuarial Value of Assets is the Unfunded Actuarial Liability (UAL).

Under Chapter 3307 of the Ohio Revised Code, members of the Defined Benefit Plan contribute 14.00% of payroll and members of the Combined Plan contribute 2.00% of payroll. Employers contribute 14.00% of payroll for members in the Defined Benefit Plan and the Combined Plan. Contributions in excess of the total normal cost are used to fund the Unfunded Actuarial Liability.

The table below shows the impact of Senate Bill 280 and House Bill 562 on the Total Actuarial Liability, Unfunded Actuarial Liability, Total Normal Cost, and Employer Normal Cost rate.

Assessment of	yf (di	ie Impact of Prop June 30, 2021 V				
		Baseline	A	ter SB280/HB562		Increase
Valuation Results						
Defined Benefit Plan Valuation Payroll	\$	11,603,643,481	\$	11,603,643,481	\$	~
Total Actuarial Accrued Liability	\$	104,591,406,376	\$	117,354,626,738	\$1	2,763,220,362
Actuarial Value of Pension Assets		83,761,394,182		83,761,394,182		0
Unfunded Actuarial Liability	\$	20,830,012,194	\$	33,593,232,556	\$1	2,763,220,362
Total Normal Cost	\$	1,344,766,774	\$	1,481,002,788	\$	136,236,014
Normal Cost Rate		11.76%		12.95%		1.19%
Member Contribution Rate		13.53%		13.53%		0.00%
Employer Normal Cost Rate		(1.77%)		(0.58%)		1.19%
30 year level percent of payroll amortiza	tion	n of actuarial liabil	ity i	ncrease		6.36%

Ohio Revised Code section 3307.51 (D) also calls for a statement of whether the scheduled contribution to the system after the proposed change is enacted are expected to be sufficient to satisfy the funding objectives established by the board. The Board's funding objectives include:

- 100% Funding
- Manage the risk of unanticipated benefit changes
- Intergenerational equity, to the extent consistent with other funding objectives
- Transparency and accountability



SECTION II – ANALYSIS OF FINANCIAL IMPACT

In addition to these four objectives, the Board has established a funding policy to assess if the objectives are being met. Under this policy the UAL is to be amortized over a closed 30-year period that began July 1, 2015, as a level percent of pay, assuming a 3.00% annual payroll growth. As of June 30, 2021, the remaining amortization period is 24 years. An Actuarial Determined Contribution is developed using this amortization period and compared to the 14.00% of payroll employers are currently contributing for members of the Defined Benefit and Combined Plans.

In the baseline June 30, 2021 valuation, the Actuarially Determined Contribution rate for Fiscal 2022 is 8.94% of payroll, which is less than the 14.00% employer contribution rate.

After reflecting the provisions of Senate Bill 280 and House Bill 562 the Actuarially Determined Contribution rate for Fiscal 2022 is 17.01% of payroll, which is more than the 14.00% employer contribution rate.

Not meeting the funding policy test alone is a sufficient reason to conclude that this bill does not satisfy the funding objectives established by the Board. Additional analysis would be required to determine whether a change that passes the funding policy test satisfies the Board's other funding objectives.



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STATE TEACHERS RETIREMENT SYSTEM OF OHIO LEGISLATIVE ANALYSIS REPORT

			Ohio State	1 e Teachers -	Table A-1 Ohio State Teachers - Member Status Reconciliation	Reconciliation				
				Reemployed 1	Reemployed Inactive Eligible Inactive Eligible	Inactive Eligible				
	-		Actives	Retirees	for Allowance	for Refunds Only	Retired	Disabled B	Disabled Beneficiaries	Total
	June 3	June 30, 2020 Valuation	167,838	19,553	115,611	142,176	133,766	4,986	18,155	586'505
7	Additions	ions								
	a.	a. New Entrants	10,546	1,295	ı	. 1	1	•	ī	11,841
**********	Ъ.	Total	10,546	1,295	-	1	1	ŧ		11,841
3	Reduc	Reductions								Bholist When a
	æ.	Benefits Expired	ı	i	1	•	•		1	i
and the state of t	Ъ.	Refunds	(1,872)	(2,936)	(822)	(4,561)	ı	,	ŧ	(10,191)
	ပ	Deaths with no Beneficiaries	(64)	(35)	(33)	1	(2,616)	(143)	(1,189)	(4,080)
eriore related	ġ.	Total	(1,936)	(2,971)	(855)	(4,561)	(2,616)	(143)	(1,189)	(14,271)
4.	Chang	Changes in Status								Out Change
militheaus a	ä.	Rehired	4,240	1	(891)	(3,340)	ı	6)	ί	i
-	Ъ.	Inactive Eligible for Allowance	(3,086)	ì	3,157	1	1	(34)	ı	37
*********	ن	Inactive Eligible for Refunds Only	(7,713)	1	(5)	9,500	1	1	ì	1,782
Water Control	Ġ.	Retired	(3,258)	(197)	(374)	(5)	3,678	(46)	ŧ	(202)
W-2122-00	မ်	Reemployed Retiree	(2)	54	1	(1)	1	i	ı	51
- 10.04	f.	Disabled	(95)	ı	(15)	1	1	110	ı	1
	ьi	Death with Beneficiaries	(106)	i	(20)	1	(1,373)	(100)	1,599	ļ
-	h.	Plan Reselection	1	1	ı		•	1	i	†
Ganteniis	.≓	Data Corrections	(1)	-	5	(61)	77	25	35	80
	٠٠٠	Total	(10,021)	(143)	1,857	6,093	2,382	(54)	1,634	1,748
5.	June 3	5. June 30, 2021 Valuation	166,427	17,734	20,513	143,708	133,532	4,789	18,600	505,303



	Tab Summary of Membership Data :	le A-		1 / (0.1	in thousands	V.	
		(15)44714	Male	. ((4)	Female		Total
1.	Defined Benefit Plan Active Members						
	Number of Members		44,247		115,321		159,568
	Annual Salaries (for period ending June 30, 2021)	\$	3,162,389	\$	7,477,668	\$	10,640,057
	Average Age		45.29		43.94		44.31
	Average Service		13.90		13.69		13.75
2.	Combined Plan Active Members			10 miles (2000)			
	Number of Members		1,522		5,337		6,859
	Annual Salaries (for period ending June 30, 2021)	\$	103,238	\$	327,699	\$	430,937
	Average Age		43.52		41.25		41.75
	Average Service		9.20		9.81		9.67
3.	Total Defined Benefit and Combined Plan Active	Men	nbers			entrantisti eta	
	Number of Members		45,769		120,658		166,427
	Annual Salaries (for period ending June 30, 2021)	\$	3,265,627	\$	7,805,368	\$	11,070,995
	Average Age		45.23		43.82		44.21
	Average Service		13.74		13.52		13.58
4.	Defined Benefit Inactive Members						
carion and a	Eligible for Allowances		4,808		15,005		19,813
	Eligible for Refunds Only		51,042		91,046		142,088
	Total		55,850		106,051		161,901
5.	Combined Benefit Inactive Members						
	Eligible for Allowances		136		564		700
	Eligible for Refunds Only		410		1,210		1,620
	Total		546		1,774		2,320
6.	Total Inactive Members	na Canigrativo ani					
Name of the least	Eligible for Allowances		4,944		15,569		20,513
now/oxense	Eligible for Refunds Only		51,452		92,256		143,708
	Total		56,396		107,825		164,221



	Summary of Membership Data as	Table A-		thom	ad) (S in these	easiv	do\
	Summary of Memoership Data as	VI June 3	Male	411111	Female	24III	us) Total
7.	Retirees					urante e marije	
	Number of Members		43,024		90,508		133,532
	Annual Allowance	\$	2,330,235	\$	3,937,424	\$	6,267,659
	Average Allowance (in dollars)	\$	54,161	\$	43,504	\$	46,938
8.	Disabled Retirees					opinolitico) ka	
and	Number of Members		1,439		3,350		4,789
-	Annual Allowance	\$	61,358	\$	123,559	\$	184,917
	Average Allowance (in dollars)	\$	42,639	\$	36,883	\$	38,613
9.	Beneficiaries Receiving Optional Allowances						
	Number of Members		3,628		9,202		12,830
	Annual Allowance	\$	89,654	\$	342,936	\$	432,590
	Average Allowance (in dollars)	\$	24,712	\$	37,268	\$	33,717
10.	Survivors' Benefit Fund Beneficiaries			(magazini)			
***************************************	Number of Members		2,685		3,085		5,770
	Annual Allowance	\$	49,707	\$	74,548	\$	124,255
	Average Allowance (in dollars)	\$	18,513	\$	24,165	\$	21,535
11.	Total Retirees and Beneficiaries						
	Number of Members		50,776		106,145		156,921
	Annual Allowance	\$	2,530,954	\$	4,478,467	\$	7,009,421
	Average Allowance (in dollars)	\$	49,845	\$	42,192	\$	44,668



	Schedule of Value		able A-3 ion Data - Acti	ve IV	lembers	
Valuation Date June 30,	Number of Active Members		Annualized Salaries*	1	Annual	% Increase in Average Pay
2021	166,427	\$	11,404,226	\$	68,524	7.37%
2020	167,838	\$	11,192,069	\$	66,684	4.49%
2019	170,004	\$	10,849,863	\$	63,821	2.73%
2018	170,327	\$	10,581,345	\$	62,124	6.12%
2017	168,132	\$	9,842,388	\$	58,540	3.59%
2016	169,212	\$	9,562,236	\$	56,510	2.90%
2015	164,925	\$	9,057,095	\$	54,916	1.62%
2014	169,295	\$	9,148,438	\$	54,038	0.72%
2013	169,945	\$	9,118,036	\$	53,653	-0.50%
2012	173,044	\$	9,330,845	\$	53,922	-0.18%
2011	177,897	\$	9,609,723	\$	54,018	-1.40%
		2000		daenta SS		

^{*}In thousands.

Fiscal Year	Schedule of Valu	iatio	Table A-4 on Data - Ret Annual	irees/	Beneficiaries	
Ended June 30,	Number of Benefit Recipients		Allowances thousands)		ual Average llowances	% Increase in Annual Allowances
2021	156,921	\$	7,009,421	\$	44,668	0.9%
2020	156,907	\$	6,970,697	\$	44,426	0.0%
2019	157,418	\$	6,971,155	\$	44,284	0.3%
2018	157,422	\$	6,949,422	\$	44,145	-0.1%
2017	158,039	\$	6,955,309	\$	44,010	0.9%
2016	157,938	\$	6,896,162	\$	43,664	1.4%
2015	158,116	\$	6,801,181	\$	43,014	6.3%
2014	152,208	\$	6,397,535	\$	42,032	3.3%
2013	149,221	\$	6,190,182	\$	41,483	6.4%
2012	143,256	\$	5,815,407	\$	40,595	7.8%
2011	138,088	\$	5,393,372	\$	39,057	8.8%



having charge man		north a School September							~~~				
	Ending Annual Allowance		7,009,421	6,970,697	6,971,155	6,949,422	6,955,309	6,896,162	6,801,181	6,397,535	6,190,182	5,815,407	5,393,372
			↔	€3	↔	↔	↔	€>	8	€4	69	↔	€>
	Ending Number of Benefit Recipients		156,921	156,907	157,418	157,422	158,039	157,938	158,116	152,208	149,221	143,256	138,088
	Payments Removed		186,702	165,609	156,522	134,381	96,555	82,684	86,952	76,415	67,167	90,917	66,488
<u>je</u>	E 24		↔	↔	↔	∽	\$	S	↔	↔	↔	↔	↔
Table A-5 Schedule of Valuation Data - Refirees/Beneficiaries	Benefit Recipients Removed		5,510	4,874	4,898	4,464	3,153	2,853	3,119	2,563	2,528	3,593	2,759
Table A-5 1 Data - Retiree	Payments Added		225,426	165,151	178,255	128,494	155,702	177,665	490,598	283,768	441,942	512,952	501,900
	d.		↔	↔	↔	↔	↔	69	€>	69	↔	↔	⇔
of Valuatio	Benefit Recipients Added		5,524	4,363	4,894	3,847	3,254	2,675	9,027	5,550	8,493	8,761	7,744
Schedule	Beginning Annual Allowances		6,970,697	6,971,155	6,949,422	6,955,309	6,896,162	6,801,181	6,397,535	6,190,182	5,815,407	5,393,372	4,957,960
			↔	↔	↔	69	↔	\$	↔	↔	↔	8	↔
	Beginning Number of Benefit Recipients		156,907	157,418	157,422	158,039	157,938	158,116	152,208	149,221	143,256	138,088	133,103
	Fiscal Year Ended June 30,		2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011



	Tal Benefit Payments by	Ту			
(Town Device		Ayi	mual Allowance (in		Average Annual
Age Last Birthday	Number		thousands)		Allowance
Retirees	4.060	Φ.	204.206	Φ	50 640
Under 60	4,262	\$	224,386	\$	52,648
60-64	11,762		566,211		48,139
65-69	28,119		1,357,452		48,275
70-74	37,722		1,875,942		49,731
75-79	23,662		1,126,714		47,617
Over 79	28,005	•	1,116,954	•	39,884
Total	133,532	\$	6,267,659	\$	46,938
Disabled Retirees		_			
Under 60	1,004	\$	35,971	\$	35,828
60-64	622		24,287		39,047
65-69	712		29,981		42,108
70-74	1,030		43,577		42,308
75-79	704		27,779		39,459
Over 79	717		23,322		32,527
Total	4,789	\$	184,917	\$	38,613
B	ing Optional Allowan				
Under 60	17	\$	648	\$	38,118
60-64	119		5,039		42,345
65-69	572		24,200		42,308
70-74	1,583		66,198		41,818
75-79	1,996		79,980		40,070
Over 79	8,543		256,525		30,028
Total	12,830	\$	432,590	\$	33,717
Survivors' Benefit F	Fund Beneficiaries				
Under 60	1,340	\$	17,299	\$	12,910
60-64	369		7,938		21,512
65-69	704		17,059		24,232
70-74	945		24,789		26,232
75-79	813		20,326		25,001
Over 79	1,599		36,844		23,042
Total	5,770	\$	124,255	\$	21,535
Grand Total	156,921	\$	7,009,421	\$	44,668



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Mortality Rates

Post-Retirement:

RP-2014 Annuitant Mortality Table with 50% of rates through age 69, 70% of rates between ages 70 and 79, 90% of rates between ages 80 and 84, and 100% of rates thereafter, projected forward generationally using mortality improvement scale MP-2016 (Adopted effective July 1, 2017).

Sample 2014 mortality rates are as follows:

Age	Male	Female
50	0,20%	0.14%
55	0.29%	0.18%
60	0.39%	0.26%
65	0.55%	0.40%
70	1.17%	0.90%
75	1.88%	1.47%
80	4.02%	3.14%
85	7.75%	6.05%
90	13.59%	10.71%
95	21.86%	17.90%
100	31.40%	27.09%

Pre-Retirement:

RP-2014 Employee Mortality Table, projected forward generationally using mortality improvement scale MP-2016 (Adopted effective July 1, 2017).

Post-Retirement Disabled;

RP-2014 Disabled Mortality Table with 90% of rates for males and 100% of rates for females, projected forward generationally using mortality improvement scale MP-2016 (Adopted effective July 1, 2017).

Sample 2014 mortality rates are as follows:

Age	Male	Female
45	1.53%	0.90%
50	1.84%	1.19%
55	2.10%	1.45%
60	2.39%	1.70%
65	2.85%	2.09%
70	3.63%	2.82%
75	4.89%	4.10%



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

2. Active Retirement Rates

The following rates of retirement are assumed for members eligible to retire (Adopted effective July 1, 2017).

Define	ed Benefit Pla	nn – Grandfa	thered Male	
	Under 25 Years of	25-29 Years of	30-34 Years of	35 or More Years of
Age	Service	Service	Service	Service
<=52	0%	0%	20%	30%
53	0%	0%	20%	30%
54	0%	0%	20%	40%
55	0%	6%	20%	40%
56	0%	6%	20%	40%
57	0%	6%	20%	40%
58	0%	6%	20%	40%
59	0%	7%	20%	40%
60	10%	7%	20%	40%
61	10%	7%	20%	40%
62	12%	8%	20%	40%
63	12%	8%	25%	35%
64	12%	12%	25%	25%
65	20%	20%	25%	25%
66	20%	20%	25%	25%
67	15%	20%	25%	25%
68	15%	20%	25%	20%
69	15%	20%	25%	20%
70	15%	20%	25%	20%
71	15%	20%	25%	20%
72	15%	20%	25%	20%
73	15%	20%	25%	20%
74	15%	20%	25%	20%
75+	100%	100%	100%	100%



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

Define	d Benefit Plan	n – Grandfat	hered Femal	e Rates
Age	Under 25 Years of Service	25-29 Years of Service	30-34 Years of Service	35 or More Years of Service
<=52	0%	0%	20%	35%
53	0%	0%	20%	35%
54	0%	0%	20%	40%
55	0%	9%	20%	40%
56	0%	9%	20%	40%
57	0%	9%	20%	40%
58	0%	9%	20%	40%
59	0%	10%	25%	40%
60	10%	10%	30%	45%
61	10%	10%	30%	45%
62	10%	12%	30%	45%
63	10%	12%	35%	45%
64	15%	20%	35%	45%
65	25%	30%	35%	45%
66	20%	30%	35%	45%
67	20%	20%	35%	45%
68	20%	20%	35%	45%
69	20%	20%	35%	45%
70	20%	20%	35%	40%
71	20%	20%	35%	40%
72	20%	20%	35%	40%
73	20%	20%	35%	40%
74	20%	20%	35%	40%
75+	100%	100%	100%	100%



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

Defined	l Benefit Plan	– Non-grano	Ifathered Ma	lle Rates 35 or
Age	Under 25 Years of Service	25-29 Years of Service ¹	30-34 Years of Service ²	More Years of Service ²
<=52	0%	3%	20%	20%
53	0%	3%	20%	20%
54	0%	3%	20%	20%
55	0%	3%	20%	20%
56	0%	3%	20%	20%
57	0%	3%	20%	20%
58	0%	3%	20%	20%
59	0%	5%	20%	20%
60	5%	5%	20%	25%
61	6%	6%	20%	25%
62	7%	7%	20%	25%
63	8%	8%	25%	25%
64	10%	10%	25%	25%
65	20%	20%	25%	25%
66	20%	20%	25%	25%
67	20%	20%	25%	25%
68	20%	20%	25%	20%
69	20%	20%	25%	20%
70	20%	20%	25%	20%
71	20%	20%	25%	20%
72	20%	20%	25%	20%
73	20%	20%	25%	20%
74	20%	20%	25%	20%
75+	100%	100%	100%	100%
	20070	1	<u> </u>	

Rates prior to age 60 are zero if retirement eligibility requirements are not met.



² Use two times 25-29 Years of Service rates if not eligible for unreduced retirement (prior to age 65).

SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

Def		lan – Non-gra		
	Under 25	25-29	30-34	35 or More
Age	Years of	Years of	Years of	Years of
	Service	Service ¹	Service ²	Service ²
<=52	0%	5%	20%	20%
53	0%	5%	20%	20%
54	0%	5%	20%	20%
55	0%	5%	20%	20%
56	0%	5%	20%	20%
57	0%	5%	20%	20%
58	0%	5%	20%	20%
59	0%	5%	25%	25%
60	10%	10%	30%	30%
61	10%	10%	30%	30%
62	10%	10%	30%	30%
63	10%	10%	35%	35%
64	15%	15%	35%	35%
65	30%	30%	35%	35%
66	30%	30%	35%	35%
67	20%	20%	35%	35%
68	20%	20%	35%	35%
69	20%	20%	35%	35%
70	20%	20%	35%	30%
71	20%	20%	35%	30%
72	20%	20%	35%	30%
73	20%	20%	35%	30%
74	20%	20%	35%	30%
75+	100%	100%	100%	100%

Rates prior to age 60 are zero if retirement eligibility requirements are not met.



² Use two times 25-29 Years of Service rates if not eligible for unreduced retirement (prior to age 65).

SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

(Combined Plan			
Age	Male	Female		
60	13%	22%		
61	7%	9%		
62	7%	9%		
63	7%	9%		
64	9%	15%		
65	17%	20%		
66	15%	13%		
67	12%	13%		
68	12%	12%		
69	12%	12%		
70	12%	12%		
71	12%	12%		
72	12%	12%		
73	12%	12%		
74	12%	12%		
75	100%	100%		

3. Inactive Vested Retirement Rates

5% at each early retirement age through age 64 and 100% at age 65, or the first age at which unreduced benefits are available.

4. Disability Rates

Select rates are shown below (Adopted effective July 1, 2017):

Age	Unisex Rates
Under 30	0.01%
30	0.01%
35	0.03%
40	0.05%
45	0.10%
50	0.18%
55	0.22%
60	0.25%
65 and Over	0.25%



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

5. Termination Rates

Termination rates based on service, for causes other than death, disability, or retirement (Adopted effective July 1, 2017).

Vested Terminations*			
Age	Male	Female	
20	11.25%	13.25%	
25	11.25%	12.50%	
30	2.75%	3.75%	
35	2.00%	2.00%	
40	1.75%	1.50%	
45	1.75%	1.25%	
50	2.00%	1.75%	
55	3.25%	3.00%	
60	0.00%	0.00%	

^{*}Termination rates stop at first retirement eligibility.

Non-V	ested Termina	itions
Service	Male	Female
Under 1 Year	30.00%	25.00%
1 to 2 Years	20.00%	20.00%
2 to 3 Years	15.00%	10.00%
3 to 5 Years	10.00%	10.00%

6. Percent Electing a Deferred Termination Benefit

50% of terminating members of the Defined Benefit Plan are assumed to elect a deferred termination benefit. The remaining 50% are assumed to take an immediate lump-sum.

7. Percent Married:

For valuation purposes, 80% of male members and 60% of female members are assumed to be married. Male members are assumed to be three years older than their spouses, and female members are assumed to be one year younger than their spouses. (The assumed age difference adopted effective July 1, 2012 and reaffirmed effective July 1, 2017.)

8. Dependents for Survivor's Benefit

The spouse is the only assumed beneficiary for the survivor's benefit.

9. Missing Data

Where data was missing, the field was populated with the prior year's data, if available, or the average value of similar members.



SECTION IV - SUMMARY OF ASSUMPTIONS AND METHODS

10. Investment Return Rate

7.00% per annum, compounded annually and net of all expenses.

11. Salary Increase Rates

Inflation rate of 2.50% plus merit and seniority increase, as shown below for selected ages (Adopted effective July 1, 2017).

Age	Rate
20	12.50%
25	11.50%
30	7.75%
35	6.50%
40	5.25%
45	4.75%
50	4.00%
55	3.50%
60	2.75%
65	2.50%

12. Payroll Growth Rates

3.00% per annum (Adopted effective July 1, 2017).

13. Defined Contribution Plan

The Defined Contribution account balance is added to the Actuarial Liability and the Actuarial Value of Assets. If a member retires and elects to have the Defined Contribution Account balance paid as an annuity, then the account balance is transferred to the Defined Benefit Plan and the annuity is valued as part of the Defined Benefit Plan.

14. Changes in Assumptions Since Last Valuation

The investment return rate was decreased from 7.45% to 7.00% as of the June 30, 2021 valuation.

15. Rationale for Assumptions

The demographic actuarial assumptions were adopted by the Board based on recommendations from the prior actuary from an experience study covering plan experience for the period July 1, 2011 through June 30, 2016. Cheiron has reviewed this experience study dated March 3, 2017. While we consider these assumptions to be generally reasonable, we have not yet performed our own actuarial experience study. An experience study will be performed once a sufficient amount of recent data has been accumulated.



SECTION IV - SUMMARY OF ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Actuarial Value of Assets

The Actuarial Value of Assets is based on the Market Value of Assets with a four-year phase-in of actual investment return in excess of (or less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the Actuarial Value of Assets (adjusted for receipts and disbursements during the year). The actual investment return for this purpose is determined net of all investment and administrative expenses. The actuarial value is further adjusted, if necessary, to be within 9% of the market value.

2. Actuarial Funding Method

The funding method for the valuation of liabilities used for this valuation is the Entry Age Normal (EAN) method. Under this funding method, a normal cost rate is determined as a level percentage of pay for each active participant. The normal cost rate multiplied by payroll equals the total normal cost for each participant. The normal cost contributions (Employer and Participant) will pay for projected benefits at retirement for each active participant.

The Actuarial Liability is the difference between the Present Value of Future Benefits and the Present Value of Future Normal Costs. The difference between this Actuarial Liability and the Actuarial Value of Assets is the Unfunded Actuarial Liability (UAL).

The portion of the actuarial liability in excess of plan assets, the UAL, is amortized to develop an additional cost that is added to each year's employer normal cost. Under this funding method, actuarial gains and losses are directly reflected in the size of the Unfunded Actuarial Liability. The amortization method is described below.

3. Amortization Method

The Actuarially Determined Contribution (ADC) is determined as the sum of (a) the employer normal cost rate, and (b) a level percentage of payroll required to amortize the Unfunded Actuarial Accrued Liability over the 30-year closed period that began July 1, 2015.

4. Disclosure Regarding Modeling

Cheiron utilizes ProVal, an actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate the liabilities, Normal Costs and projected benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have a basic understanding of it and have used ProVal in accordance with its original intended purpose. We are not aware of any material inconsistencies, unreasonable



SECTION IV – SUMMARY OF ASSUMPTIONS AND METHODS

output resulting from the aggregation of assumptions, material limitations or known weaknesses that would affect this report.

Projections in this report were developed using P-scan, our proprietary tool for the intended purpose of developing projections. The projections shown in this report cover multiple individual scenarios and the variables are not necessarily correlated. We are not aware of any material inconsistencies, unreasonable output resulting from aggregation of assumptions, material limitations or known weaknesses that would affect the projections shown in this report.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

Defined Benefit Plan

1. Eligibility for Membership

Immediate upon commencement of employment

2. Service Retirement

Eligibility:

Age 65 with five years of service, or age 55 with 25 years of service, or 30 years of service regardless of age. Age and service requirements increased effective August 1, 2015.

Effective August 1, 2015, service credit requirements for retirement with an unreduced benefit increased as follows:

Unreduced Benefit for Retirement Between:	Minimum Age and Years of Service
Through 7/1/2015	Any age and 30 years; or age 65 and 5 years
8/1/2015-7/1/2017	Any age and 31 years; or age 65 and 5 years
8/1/2017-7/1/2019	Any age and 32 years; or age 65 and 5 years
8/1/2019-7/1/2021	Any age and 33 years; or age 65 and 5 years
8/1/2021-7/1/2023	Any age and 34 years; or age 65 and 5 years
8/1/2023-7/1/2026	Any age and 35 years; or age 65 and 5 years
8/1/2026 and later	Age 60 and 35 years; or age 65 and 5 years

Amount:

For members eligible to retire on or before July 1, 2015 (i.e., age 60 with 5 years of service, age 55 with 25 years of service, or 30 years of service regardless of age), the annual amount is equal to the greater of (a) 2.2% of final average salary for the three highest years of earnings, multiplied by years of total Ohio service credit, or 2.5% of final average salary for the three highest years of earnings if the member has 35 or more years of service credit, multiplied by years of total Ohio service credit up to 30 years of service. For years of Ohio contributing service credit in excess of 30 years, the following percentages will apply:



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

Year	Percentage
31	2.5%
32	2.6
33	2.7
34	2.8
35	2.9
36	3.0
37	3.1
38	3.2
39	3.3

or (b) \$86 multiplied by years of service credit.

Effective August 1, 2015, the annual amount is equal to 2.2% of final average salary for the five highest years of earnings, multiplied by all years of service.

For members who were eligible to retire on July 1, 2015, the annual amount is greater of:

- a. the benefit amount calculated upon retirement under the new benefit formula, or
- b. the benefit amount the member would have received if he/she retired on July 1, 2015.

Annual salary is subject to the limit under IRC Section 401(a)(17).

For retirements prior to August 1, 2015, if the member has less than 30 years of service at retirement and is younger than age 65, the following reduction factors apply:

Attained Age	or	Years of Ohio Service Credit	% of Base Amount
58		25	75%
59		26	80
60		27	85
61		·	88
		28	90
62			91
63			94
		29	95
64			97
65		30 or more	100



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

For retirements on or after August 1, 2015, the age and service credit requirements for an actuarially reduced benefit are as follows:

Actuarially Reduced Benefit for Retirement Between:	Minimum Age and Years of Service
Through 7/1/2015	Age 55 and 25 years; or age 60 and 5 years
8/1/2015-7/1/2017	Any age and 30 years; or age 55 and 26 years; or age 60 and 5 years
8/1/2017-7/1/2019	Any age and 30 years; or age 55 and 27 years; or age 60 and 5 years
8/1/2019-7/1/2021	Any age and 30 years; or age 55 and 28 years; or age 60 and 5 years
8/1/2021-7/1/2023	Any age and 30 years; or age 55 and 29 years; or age 60 and 5 years
8/1/2023 and later	Any age and 30 years; or age 60 and 5 years

The actuarially reduced benefit reflects a reduction for each year that the member retirees before meeting eligibility for an unreduced benefit.

The benefits as a percentage of final average salary, which reflect the early retirement reduction, are shown in the booklet entitled Service Retirement and Plans of Payment for members enrolled in the Defined Benefit Plan 2017/2018.

3. Disability Retirement

Eligibility:

Membership before July 30, 1992, and election of this benefit, completion of five or more years of service, under age 60 and permanently incapacitated for the performance of duty.

Amount:

- 1. Annuity with a reserve equal to the member's accumulated contributions, plus
- 2. The difference between (1) and the greater of 2% of the average salary during the three highest years of earnings times total service plus years and months from date of disability to age 60. Maximum allowance is 75% of final average salary. Minimum allowance is 30% of final average salary.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

4. Disability Allowance

Eligibility: Membership after July 29, 1992, or membership before July 30, 1992, and

election of this benefit, completion of five or more years of qualifying service and permanently incapacitated for the performance of duty. For membership on and after July 1, 2013, completion of ten years of qualifying service and

permanently incapacitated for the performance of duty.

Amount: The greater of 2.2% of the average salary times total service. Maximum

allowance is 60% of final average salary. Minimum allowance is 45% of final average salary. The disability allowance payment terminates at age 65 (or later if payment begins after age 60). After termination of the disability allowance,

the member may apply for service retirement.

5. Death after Retirement

Lump-sum payment of \$1,000 upon death after service or disability retirement.

6. Survivor's Benefit

Eligibility:

Upon death after at least 1½ years of service credit for Ohio service with at least 1/4 year of such service in the 2½ years preceding death or upon death of a disability retiree. For membership on or after July 1, 2013, upon death after at least five years of service credit for Ohio service and died not later than one year after the date service terminated.

Qualified survivors will receive the highest benefit from among the following for which they are eligible: dependent-based benefit, service-based benefit, and retirement-based benefit.

Qualified beneficiaries are the spouse, dependent children, and/or dependent parents over age 65.

Dependent-Based Benefit: Monthly survivor benefits are determined according to the number of qualified survivors. These benefits are payable as a percentage of final average salary. The percentages are as follows:

Number of Qualified Dependents	% of Final Average Salary
1	25%
2	40
3	50
4	55
5 or more	60



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

Service – Based Benefit: If a member has 20 or more years of service before death, monthly survivor benefits are determined according to the number of years of service credit. These benefits are payable as a percentage of final average salary. The percentages are as follows:

Years of Service	% of Final Average Salary	
20	29%	
21	33	
22	37 41 45	
23		
24		
25	48	
26	51	
27	54	
28	57	
29 or more	60	

Retirement-Based Benefit: If a member dies after meeting service retirement eligibility, the monthly survivor benefit is determined as if the member had actually retired and provided a 100% Joint and Survivor benefit to the qualified survivor. Early retirement reduction applies if the member is not eligible for unreduced benefit.

> The primary beneficiary may withdraw the deceased member's account in lieu of receiving monthly benefits if there are no children who are qualified survivors.

7. Lump - Sum Withdrawal Option

In lieu of any other pension or survivor benefits, a member who leaves the System can receive his/her member contributions with interest in a lump-sum according to the following schedule:

Credit Service	Lump-Sum
Less than 3 Years	Member Contributions with 2% Interest
3 or More Years and Less than 5 Years	Member Contributions with 3% Interest
5 Years or More	150% of Member Contributions with 3% Interest

The Board has the authority to modify the interest credited to member contributions.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

8. Plans of Payments

Benefits can be paid under the following forms of payment:

- Single Life Annuity;
- Joint and Survivor Annuity -100%, 50% or other; with or without pop-up; with one or multiple beneficiaries;
- Annuity certain and;
- Partial lump-sum option from six to 36 times the monthly Single Life Annuity as a lump-sum with the remainder as an annuity.

9. Cost-of-Living Benefits

Cost of living increases are governed by Ohio Revised Code 3307.67. The "base" benefit is increased each year by 2% of the original COLA. For members retiring on or after August 1, 2013, the 2% COLA is paid on the fifth anniversary of the retirement benefit. Future annual increases are calculated on the original benefit and are not compounded.

Effective July 2017, the COLA has been reduced to zero.

10. Contributions

By Members:

14% of salary.

By Employers:

14% of salaries of their employees who are members.

Rehired Retirees:

Rehired retirees who return to employment after retirement and their employers both contribute to the System. These contributions fund an additional benefit payable after termination of employment. The contributions and interest are paid as a

lump-sum or converted to an additional annuity.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

Combined Plan

1. Eligibility for Membership

New members hired on or after July 1, 2001, may elect in writing to participate in the Combined Plan.

2. Service (Normal) Retirement

Eligibility:

Age 60 with five years of service.

Amount:

The balance in the member's defined contribution account plus an annual amount equal to 1% of final average salary for the three highest paid years multiplied by years of total Ohio service credit.

Effective August 1, 2015, final average salary will be average of

the member's five highest salary years.

Annual salary is subject to the limit under IRC Section

401(a)(17).

3. Early Retirement

Eligibility:

Before age 60 with five years of service

Amount:

The normal retirement benefit commencing at age 60. At age 50 or later, a member who elects to withdraw the full value of the member's defined contribution account may receive the withdrawal value of the formula benefit in a single sum or leave the formula benefit on account for a benefit payable at age 60.

4. Vesting

Eligibility:

Completion of five years of service credit for the Defined Benefit portion. Member contributions and earnings are 100% vested at

all times.

Amount:

A member who terminates with five or more years of service credit can receive the actuarial equivalent present value of the Defined Benefit formula. Prior to age 50, a withdrawal must include both the Defined Benefit and defined contribution

portions of the account.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

5. Late Retirement

Eligibility:

After age 60 with five years of service.

Amount:

The formula benefit described in the normal retirement section based on service credit and final average salary at termination

without any actuarial adjustments.

6. Disability Allowance

Eligibility:

Completion of five or more years of service and permanently incapacitated for the performance of duty. For membership on or after July 1, 2013, completion of ten years of qualifying service credit with STRS Ohio.

Amount:

Members have the option of receiving disability benefits under the disability allowance program of the Defined Benefit Plan. All contributions and investment gains in the member's defined contribution account are used to fund the benefit. At age 65, the disability allowance converts to a service retirement benefit based on the 2.2% formula. Alternatively, the member can withdraw his/her defined contribution account in lieu of receiving the disability allowance.

7. Survivor's Benefit

Eligibility:

Upon death after at least 1½ years of credit for Ohio service with at least 1/4 year of such service in the 2½ years preceding death or upon death of a disability retiree. For membership on or after July 1, 2013, upon death at least five years of qualifying service credit.

Amount:

Qualified survivors have the option of receiving dependent-based, service-based, or retirement-based benefits described under the Defined Benefit plan. Both employer contributions and the member's contributions and any investment gains in the member's defined contribution account are used to fund the benefit. Survivors also have the option to withdraw the Defined Contribution and Defined Benefit portions of the Combined Plan account in lieu of receiving a monthly benefit.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

8. Forms of Payment of Defined Benefit Portion

If the member withdraws his/her defined contribution account prior to age 50, then the formula defined benefit must be paid in a lump-sum. If the member is at least age 50, then the benefit can be paid as a Single Life Annuity, a Joint and Survivor Annuity as described under the Defined Benefit Plan, or as a lump-sum. All alternative forms of payment are the actuarially equivalent of the Single Life Annuity benefit payable at age 60.

9. Forms of Payment of Member's Defined Contribution Account

If the member withdraws his/her defined contribution account prior to age 50, then the account must be paid in a lump-sum. If the member is at least age 50, then the member can elect that the actuarial equivalent of the Defined Contribution account be paid as a Single Life Annuity or a Joint and Survivor Annuity as described under the Defined Benefit plan.

10. Cost-of-Living Benefits

Not available on the service retirement benefit. For disability and survivor benefits, the basic benefit is increased by the increase in the Consumer Price Index each year, but not to exceed 2% of the original base benefit. Effective July 2017, the COLA has been reduced to zero.

11. Contributions

By Members:

14% of salary.

12.0% of salary is deposited into the member's defined contribution account and 2.0% is applied to the defined benefit portion of the Combined Plan.

portion of the Come

By Employers:

14% of salary is used to fund the defined benefit formula.



APPENDIX A - SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

Defined Contribution Plan

1. Eligibility for Membership

New members hired on or after July 1, 2001, may elect in writing to participate in the Defined Contribution Plan.

2. Service (Normal) Retirement

Eligibility:

Termination after age 50.

Amount:

The balance in the member's defined contribution account.

3. Early Retirement

Eligibility:

Termination before age 50.

Amount:

The balance in the member's defined contribution account.

4. Vesting

Eligibility:

Members vest 20% per year in employer contributions and all gains and losses on those contributions. Member contributions

and earnings are 100% vested immediately.

Amount:

The balance in the member's defined contribution account.

5. Disability Allowance

Eligibility:

Permanently incapacitated for the performance of duty and

termination of employment.

Amount:

The balance in the member's defined contribution account. At age 50, other payment options are available, but employment

must first be terminated.

6. Survivor's Benefit

Eligibility:

Upon death.

Amount:

The balance in the member's defined contribution account. A spouse may either continue to manage the member's defined

contribution account or withdraw the account.



APPENDIX A – SUMMARY OF OHIO REVISED CODE PLAN PROVISIONS

7. Optional Forms of Payment

The actuarial equivalent of the member's defined contribution account can be paid on or after age 50 as a Single Life Annuity or as a Joint and Survivor Annuity as described in the Defined Benefit Plan.

8. Cost-of-Living Benefits

Not available.

9. Contributions

By Members:

14% of salary is deposited into the member's defined

contribution account.

By Employers:

Effective July 1, 2017, 9.53% of salary is deposited into the member's defined contribution account. 4.47% of salaries are used to amortize The Unfunded Actuarial Liability of the Defined Benefit Plan.

In addition, 4.47% of salary of the salaries of Alternative Retirement Plan members is used to fund the Unfunded

Actuarial Liability of the Defined Benefit Plan.



APPENDIX B – GLOSSARY OF TERMS

Funding

1. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disability, and retirement; changes in compensation; inflation; rates of investment earnings, and asset appreciation or depreciation; and other relevant items.

2. Actuarial Cost Method

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an allocation of such value to each year of service, usually in the form of a normal cost and an Actuarial Liability.

3. Actuarial Gain/(Loss)

A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular actuarial cost method.

4. Actuarial Liability

The portion of the Actuarial Present Value of Projected Benefits which will not be paid by future Normal Costs. It represents the value of the past Normal Costs with interest to the valuation date.

5. Actuarial Present Value (Present Value)

The value as of a given date of a future amount or series of payments. The Actuarial Present Value discounts the payments to the given date at the assumed investment return and includes the probability of the payment being made. As a simple example: assume you owe \$100 to a friend one year from now. Also, assume there is a 1% probability of your friend dying over the next year, in which case you will not be obligated to pay him. If the assumed investment return is 10%, the Actuarial Present Value is:

<u>Amount</u>		Probability of	1/(1+Investment Return)		
		<u>Payment</u>			
\$100	X	(101)	X	1/(1+.1)	= \$90

6. Actuarial Valuation

The determination, as of a specified date, of the normal cost, Actuarial Liability, Actuarial Value of Assets, and related \ for a pension plan.



APPENDIX B - GLOSSARY OF TERMS

7. Actuarial Value of Assets

The value of cash, investments and other property belonging to a pension plan as used by the actuary for the purpose of an actuarial valuation. The purpose of an Actuarial Value of Assets is to smooth out fluctuations in market values. This way long-term costs are not distorted by short-term fluctuations in the market.

8. Actuarially Equivalent

Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of actuarial assumptions.

9. Amortization Payment

The portion of the pension plan contribution which is designed to pay interest and principal on the Unfunded Actuarial Liability in order to pay for that liability in a given number of years.

10. Entry Age Normal Actuarial Cost Method

A method under which the Actuarial Present Value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings of the individual between Entry Age and assumed exit ages.

11. Funded Percentage

The ratio of the Actuarial Value of Assets to the Actuarial Liabilities.

12. Investment Return Assumption

The assumed interest rate used for projecting dollar related values in the future.

13. Mortality Table

A set of percentages which estimate the probability of death at a particular point in time. Typically, the rates are annual and based on age and sex.

14. Normal Cost

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



APPENDIX B – GLOSSARY OF TERMS

15. Projected Benefits

Those pension plan benefit amounts which are expected to be paid in the future under a particular set of actuarial assumptions, taking into account such items as the effect of advancement in age and increases in future compensation and service credits.

16. Unfunded Actuarial Liability

The excess of the Actuarial Liability over the Actuarial Value of Assets.

GASB

1. Actuarially Determined Contribution

A target or recommended contribution for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

2. Actuarial Valuation Date

The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

3. Deferred Inflow of Resources

An acquisition of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience gains on the Total Pension Liability, assumption changes reducing the Total Pension Liability, or investment gains that are recognized in future reporting periods.

4. Deferred Outflow of Resources

A consumption of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience losses on the Total Pension Liability, assumption changes increasing the Total Pension Liability, or investment losses that are recognized in future reporting periods.



APPENDIX B – GLOSSARY OF TERMS

5. Entry Age Actuarial Cost Method

The actuarial cost method required for GASB 67 and 68 calculations. Under this method, the Actuarial Present Value of the Projected Benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings of the individual between Entry Age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the service cost. The portion of this Actuarial Present Value not provided for at a valuation date by the Actuarial Present Value of future service costs is called the Total Pension Liability.

6. Measurement Date

The date as of which the Total Pension Liability and Plan Fiduciary Net Position are measured. The Total Pension Liability may be projected from the actuarial valuation date to the measurement date. The measurement date must be the same as the reporting date for the Plan.

7. Net Pension Liability

The liability of employers and nonemployer contributing entities for employees for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Plan Fiduciary Net Position.

8. Plan Fiduciary Net Position

The fair or Market Value of Assets.

9. Reporting Date

The last day of the Plan or employer's fiscal year.

10. Service Cost

The portion of the Actuarial Present Value of Projected Benefit payments that is attributed to the current period of employee service in conformity with the requirements of GASB 67 and 68. The service cost is the normal cost calculated under the Entry Age actuarial cost method.

11. Total Pension Liability

The portion of the Actuarial Present Value of Projected Benefit payments that is attributed to past periods of employee service in conformity with the requirements of GASB 67 and 68. The Total Pension Liability is the Actuarial Liability calculated under the Entry Age actuarial cost method. This measurement generally is not appropriate for estimating the cost to settle the Plan's liabilities.

