



El Paso County Retirement Plan

Actuarial Valuation Report as of January 1, 2015

May 2015



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May 14, 2015

Board of Retirement El Paso County Retirement Plan 105 E. Vermijo, Suite 200 Colorado Springs, CO 80903-2007

Certification of Actuarial Valuation

Ladies and Gentlemen:

This report summarizes the actuarial valuation results of the El Paso County Retirement Plan as of January 1, 2015 performed by Buck Consultants.

The actuarial valuation is based on audited financial and member data provided by the Retirement Plan Administrator and summarized in this report. The benefits considered are those delineated in the Plan as amended and restated effective January 1, 2013.

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures, using an actuarial cost method which we believe is reasonable. This report fully and fairly discloses the actuarial position of the Plan.

The actuarial assumptions used in the January 1, 2015 actuarial valuation are based on the results of an actuarial experience study for the period from January 1, 2008 to December 31, 2012, resulting in changes in actuarial assumptions adopted by the El Paso County Retirement Board to better reflect expected future experience. In selecting economic assumptions, the interest rate of 8% is based upon a review of the existing portfolio structure, a review of recent experience, and information from the Board. The salary increase assumption is based on actual experience and future expectations of inflation, merit and productivity components. In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the Plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the Plan. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown in Section 4.3.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Due to the limited scope of this report, Buck has performed no analysis of the potential range of such future differences.



Both of the undersigned are Associates of the Society of Actuaries and Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate. Todd D. Kanaster has primary responsibility for the report.

Respectfully submitted,

David H. Slockinsky

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Purpose and Highlights

The main purposes of this report are:

- 1. To determine if the Board's funding policy for the Retirement Plan is being met considering current assets and the current employer and member contribution rates;
- 2. To review the current funded status of the Plan; and
- 3. To compare actual and expected experience under the Plan during 2014.

The 2015 actuarial valuation is based upon the plan provisions as of January 1, 2015; as described in Section 4.2. The actuarial methods and assumptions are described in Section 4.3.

Highlights from the current and prior valuations are:

1. A contribution rate of 8.0% of salary by both the participating employers and members (16% of salary in total) in 2015 will **not** be sufficient to meet the Retirement Board's funding policy of paying the normal cost and amortizing the unfunded actuarial accrued liability over 30 years from the valuation date. The total actuarially required contribution necessary to fund the Plan's benefits under the Board's funding policy for 2015 is 16.2% of salary. It is expected that future new members covered under the new tier of benefit provisions will likely reduce the actuarial deficit in future years.

2. The Market Value of Assets was sufficient to provide for 82.5% of the actuarial present value of accumulated plan benefits as of January 1, 2015 as compared with 82.6% as of January 1, 2014. Benefits are based on accrued service and current salary history as of the valuation date.

3. Actuarial gains were experienced in 2014 from asset sources and actuarial losses were experienced from liability sources, resulting in a net actuarial gain which decreased the unfunded actuarial accrued liability by \$2,333,108. The net loss from liability sources of \$1,081,570 was primarily due to fewer terminations than expected and fewer deaths than expected. The rate of return on Actuarial Value of Assets of 9.1% in 2014 was higher than the 8% assumed investment return rate, resulting in the gain from asset sources of \$3,414,678.

4. The Actuarial Value of Assets was sufficient to provide for 70.9% of the Actuarial Accrued Liability as of January 1, 2015. This is an increase of 1.4% from 69.5% as of January 1, 2014. This rate is called the Funded Ratio and is a measure of the current funding level of the plan under the Entry Age Actuarial Cost Method.

Summary of Principal Valuation Results

A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in actuarial assumptions, methods or plan provisions between the two valuations are described in the section titled "Effects of Changes."

	Actuarial Valua	tion as of	Change Between Years		
	January 1, 2014	January 1, 2015	Amount	Percent	
Summary of Costs					
Contribution Requirement	\$ 20,514,819	\$ 21,201,551	\$ 686,732	3.3%	
Estimated Contributions	\$ 19,822,374	\$ 20,876,612	\$ 1,054,238	5.3%	
Contribution Requirement as a Percentage of Pay	16.6%	16.2%	(0.4%)	(2.4%)	
Funded Status					
Actuarial Accrued Liability	\$434,464,401	\$457,473,648	\$23,009,247	5.3%	
Actuarial Value of Assets	\$301,765,407	\$324,497,273	\$22,731,866	7.5%	
Unfunded Actuarial Accrued Liability/(Surplus)	\$132,698,994	\$132,976,375	\$ 277,381	0.2%	
Market Value of Assets and Additional Lia	bilities				
Market Value of Assets	\$314,683,101	\$331,641,992	\$16,958,891	5.4%	
Actuarial Present Value of Accumulated Plan Benefits (FAS No. 35)	\$380,828,340	\$401,884,411	\$21,056,071	5.5%	
Present Value of Projected Plan Benefits	\$516,761,421	\$544,667,295	\$27,905,874	5.4%	
Summary of Data					
Number of Members in Valuation:					
Active Members	2,480 ⁽¹⁾	2,566 ⁽²⁾	86	3.5%	
Members with Deferred Benefits	375	371	(4)	(1.1%)	
Retired Members	1,207	1,273	66	5.5%	
Beneficiaries	99	107	8	8.1%	
Total	4,161	4,317	156	3.7%	
Active Member Statistics					
Total Annual Compensation	\$124,667,846 ⁽¹⁾	\$131,712,162 ⁽²⁾	\$ 7,044,316	5.7%	
Average Compensation	\$ 50,341 ⁽³⁾	\$ 51,404 ⁽⁴⁾	\$ 1,063	2.1%	
Average Age	44.9 ⁽³⁾	44.7 ⁽⁴⁾	(0.2)	(0.4%)	
Average Service	8.3 ⁽³⁾	8.2 ⁽⁴⁾	(0.1)	(1.2%)	

⁽¹⁾ Includes 16 members on leave of absence.

⁽²⁾ Includes 25 members on leave of absence.

⁽³⁾ Excludes 16 members on leave of absence.

⁽⁴⁾ Excludes 25 members on leave of absence.

Effects of Changes

Changes in Actuarial Assumptions

There were no changes in the actuarial assumptions since the prior valuation.

Changes in Plan Provisions

There were no changes in plan provisions since the prior valuation.

Changes in Actuarial Methods

There were no changes in actuarial methods since the prior valuation.

Section 1: Funding Results

- Section 1.1 A comparative summary of valuation results.
- Section 1.2 The actuarially required contribution.
- Section 1.3 The actuarial gain/(loss) during the preceding year.
- Section 1.4 The normal cost and unfunded actuarial accrued liability as of the current and proceeding valuation dates.
- Section 1.5 The present value of projected plan benefits.
- Section 1.6 A ten-year projection of benefit payments.

Section 1.1 Comparative Summary of Principal Valuation **Results**

			Actuarial Va	Percent		
		J	anuary 1, 2014	Ja	anuary 1, 2015	Change
Α.	Summary of Data					
1.	Active Members					
	a. Number ⁽¹⁾		2,480		2,566	3.5%
	b. Annual Compensation ⁽¹⁾	\$	124,667,846	\$	131,712,162	5.7%
	c. Average Annual Compensation ⁽²⁾	\$	50,341	\$	51,404	2.1%
	d. Average Age ⁽²⁾		44.9		44.7	(0.4%)
	e. Average Service ⁽²⁾		8.3		8.2	(1.2%)
	f. Accumulated Member Contributions ⁽²⁾					
	i. With Interest	\$	73,277,006	\$	76,514,860	4.4%
	ii. Without Interest	\$	57,368,975	\$	60,671,518	5.8%
2.	Refund of Employee Contributions due					
	a. Number		75		62	(17.3%)
	b. Amount of Refunds Due	\$	314,824	\$	291,177	(7.5%)
3.	Vested Terminated Members					
	a. Number ⁽³⁾		300		309	3.0%
	b. Annual Deferred Benefits	\$	2,674,557	\$	3,068,075	14.7%
	c. Average Annual Deferred Benefit	\$	8,915	\$	9,929	11.4%
4.	Retired and Disabled Members					
	a. Number		1,207		1,273	5.5%
	b. Annual Retirement Benefits	\$	20,713,009	\$	22,390,356	8.1%
	c. Average Annual Retirement Benefit	\$	17,161	\$	17,589	2.5%
5.	Beneficiaries					
	a. Number		99		107	8.1%
	b. Annual Retirement Benefits	\$	1,069,613	\$	1,157,037	8.2%
	c. Average Annual Retirement Benefit	\$	10,804	\$	10,813	0.1%
6.	Total Members Included in Valuation		4,161		4,317	3.7%

(1) Includes 16 members on leave of absence in 2014 and 25 members on leave of absence in 2015. (2)

Excludes 16 members on leave of absence in 2014 and 25 members on leave of absence in 2015.

(3) Includes 13 deferred disableds and 3 deferred beneficiaries in 2014 and 17 deferred disableds and 4 deferred beneficiaries in 2015.

			Actuarial Va	Percent		
		Ja	anuary 1, 2014	January 1, 2015		Change
В.	Summary of Assets, Liabilities and Fu	nded \$	Status			
1.	Plan Assets on Valuation Date					
	a. Actuarial Value	\$	301,765,407	\$	324,497,273	7.5%
	b. Market Value	\$	314,683,101	\$	331,641,992	5.4%
2.	Actuarial Accrued Liability (Valuation Basis)	\$	434,464,401	\$	457,473,648	5.3%
	a. Funded Ratio - Actuarial Value		69.5%		70.9%	2.0%
	b. Funded Ratio - Market Value		72.4%		72.5%	0.1%
3.	Unfunded Actuarial Accrued Liability (Based on Actuarial Value of Assets)	\$	132,698,994	\$	132,976,375	0.2%
4.	Present Value of Accumulated Benefits (FASB #35)	\$	380,828,340	\$	401,884,411	5.5%
	a. Funded Ratio - Actuarial Value		79.2%		80.7%	1.9%
	b. Funded Ratio - Market Value		82.6%		82.5%	(0.1%)
5.	Present Value of Projected Benefits	\$	516,761,421	\$	544,667,295	5.4%

		Actuarial Valuation as of						
			January 1,	2014		January 1,	Percent	
			Amount	% of Covered Comp.		Amount	% of Covered Comp.	Change in Amount
С.	Summary of Contribution Requirement	S						
1.	Normal Cost Compensation	\$	123,889,837	N/A	\$	130,478,820	N/A	5.3%
2.	Total Normal Cost Beginning of Year	\$	12,000,723	9.69%	\$	12,598,114	9.66%	5.0%
3.	Amortization of Unfunded Actuarial Accrued Liability over 30 years from the							
	valuation date	\$	7,983,250	6.44%	\$	7,999,937	6.13%	0.2%
4.	Administrative Expenses	\$	530,846	0.43%	\$	603,500	0.46%	13.7%
5.	Total Actuarially Required Contribution (2. + 3. + 4.)	\$	20,514,819	16.56%	\$	21,201,551	16.25%	3.3%
6.	Estimated Member Contribution ⁽¹⁾	\$	9,911,187	8.00%	\$	10,438,306	8.00%	5.3%
7.	Recommended Employer Contribution (5 6.)	\$	10,603,632	8.56%	\$	10,763,245	8.25%	1.5%

⁽¹⁾ 8.00% of normal cost compensation.

Section 1.2 Actuarially Required Contribution

The actuarially required contribution has been determined using the Entry Age Normal Actuarial Cost Method.

		Jar	nuary 1, 2014	Jan	uary 1, 2015
1.	Normal Cost	\$	12,000,723	\$	12,598,114
2.	Amortization of Unfunded Actuarial Accrued Liability	\$	7,983,250	\$	7,999,937
3.	Administrative Expenses	\$	530,846	\$	603,500
4.	Total Actuarially Required Contribution				
	a. Amount (1. + 2. + 3.)	\$	20,514,819	\$	21,201,551
	b. Percent of Normal Cost Payroll		16.6%		16.2%
5.	Estimated Member Contribution ⁽¹⁾	\$	9,911,187	\$	10,438,306
6.	Recommended Employer Contribution				
	a. Amount (4.a 5.)	\$	10,603,632	\$	10,763,245
	b. Percent of Normal Cost Payroll		8.6%		8.2%
7.	Estimated Employer Contribution	\$	9,911,187	\$	10,438,306
8.	Amount of Total Contribution in Excess of Actuarially Required Contribution/(Deficit) (7 6.a.)	\$	(692,445)	\$	(324,939)

 $^{(1)}$ $\,$ 8.00% of normal cost compensation.

Section 1.3 Actuarial Gain / (Loss)

The actuarial gain/(loss) is comprised of both the liability gain/(loss) and the actuarial asset gain/(loss). Each of these represents the difference between the expected and actual values as of January 1, 2015.

1.	Expected Actuarial Accrued Liability					
	a. Actuarial Accrued Liability at January 1, 2014	\$	434,464,401			
	b. Normal Cost and expected Administrative Expenses at January 1, 2014		12,531,569			
	c. Interest on a. + b. to End of Year		35,759,678			
	 Benefit Payments and Administrative Expenses for Plan Year Ending December 31, 2014, with Interest to End of Year Excluding Supplemental Payment 		26,363,570			
	 Expected Actuarial Accrued Liability Before Changes (a. + b. + c d.) 		456,392,078			
	 f. Change in Actuarial Accrued Liability at January 1, 2015, Due to Change in Actuarial Assumptions 		0			
	 G. Change in Actuarial Accrued Liability at January 1, 2015, Due to Change in Plan Provisions 		0			
	 h. Expected Actuarial Accrued Liability at January 1, 2015 (e. + f. + g.) 	\$	456,392,078			
2.	Actuarial Accrued Liability at January 1, 2015	\$	457,473,648			
3.	3. Liability Gain/(Loss) (1.h 2.) \$ (1,081,5					
4.	Expected Actuarial Value of Assets					
	a. Actuarial Value of Assets at January 1, 2014	\$	301,765,407			
	b. Interest on a. to End of Year		24,141,233			
	c. Contributions Made for Plan Year Ending December 31, 2014		20,711,082			
	d. Interest on c. to End of Year		828,443			
	e. Benefit Payments and Administrative Expenses for Plan Year Ending December 31, 2014, with Interest to End of Year Excluding Supplemental Payment		26,363,570			
	f. Change in Actuarial Value of Assets at January 1, 2015 due to supplemental pension payment		0			
	g. Expected Actuarial Value of Assets at January 1, 2015 (a. + b. + c. + d e f.)	\$	321,082,595			
5.	Actuarial Value of Assets as of January 1, 2015	\$	324,497,273			
6.	Actuarial Asset Gain/(Loss) (5 4.g.)	\$	3,414,678			
7.	Actuarial Gain/(Loss) (3. + 6.)	\$	2,333,108			

Section 1.4 Normal Cost and Unfunded Actuarial Accrued Liability

A. Normal Cost

The components of normal cost under the Plan's funding method are:

Component	Ja	nuary 1, 2014	Ja	nuary 1, 2015
Retirement Benefits	\$	8,274,016	\$	8,645,579
Withdrawal Benefits		3,248,629		3,454,122
Disability Benefits		263,538		275,656
Death Benefits		214,540		222,757
Total Normal Cost	\$	12,000,723	\$	12,598,114

B. Unfunded Actuarial Accrued Liability

The actuarial accrued liability is the present value of projected plan benefits allocated to past service by the actuarial funding method being used. The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the Actuarial Value of Assets.

Development of Actuarial Accrued Liability	Ja	nuary 1, 2014	Ja	nuary 1, 2015
1. Actuarial Accrued Liability				
a. Active Participants				
Retirement Benefits	\$	191,013,281	\$	193,471,069
Withdrawal Benefits		2,865,361		3,156,742
Disability Benefits		2,688,172		2,775,764
Death Benefits		3,181,490		3,261,941
Total	\$	199,748,304	\$	202,665,516
b. Participants with Deferred Benefits		19,045,253		22,937,434
c. Participants Receiving Benefits		215,670,844		231,870,698
d. Actuarial Accrued Liability (a. + b. + c.)	\$	434,464,401	\$	457,473,648
2. Actuarial Value of Assets	\$	301,765,407	\$	324,497,273
3. Unfunded Actuarial Accrued Liability (1.d 2., not less than \$0)	\$	132,698,994	\$	132,976,375

Section 1.5 Present Value of Projected Plan Benefits

Present Value of Projected Benefits	Ja	anuary 1, 2014	Jai	nuary 1, 2015
1. Active Participants				
Retirement Benefits	\$	246,866,265	\$	252,359,905
Withdrawal Benefits		26,206,838		28,202,915
Disability Benefits		4,419,098		4,599,019
Death Benefits		4,553,123		4,697,324
Total	\$	282,045,324	\$	289,859,163
2. Participants with Deferred Benefits		19,045,253		22,937,434
3. Participants Receiving Benefits		215,670,844		231,870,698
4. Present Value of Projected Plan Benefits (1. + 2. + 3.)	\$	516,761,421	\$	544,667,295

The present value of projected benefits is the value of plan benefits using future earnings and service.

Section 1.6 Ten-Year Projected Cash Flow

(Retirement Benefit Payments)

January 1, 2015						
Plan Year Ending		Actives		Retirees ⁽¹⁾		Total
12/31/2015	\$	2,834,206	\$	24,335,696	\$	27,169,902
12/31/2016		4,983,515		24,159,248		29,142,763
12/31/2017		7,067,418		24,020,030		31,087,448
12/31/2018		9,218,277		23,859,141		33,077,418
12/31/2019		11,357,078		23,688,522		35,045,600
12/31/2020	\$	13,375,170	\$	23,481,090	\$	36,856,260
12/31/2021		15,158,504		23,234,315		38,392,819
12/31/2022		17,174,075		23,026,014		40,200,089
12/31/2023		19,458,330		22,735,376		42,193,706
12/31/2024		21,718,831		22,421,305		44,140,136

⁽¹⁾ Includes Disabled Members, Beneficiaries, and Deferred Vested Members.

History of Refunds							
Year	Refund Amount						
1993	\$ 633,773						
1994	544,504						
1995	976,233						
1996	1,003,922						
1997	1,037,519						
1998	1,132,847						
1999	1,292,444						
2000	1,407,960						
2001	1,597,686						
2002	998,709						
2003	1,414,807						
2004	1,634,848						
2005	1,755,564						
2006	1,545,738						
2007	1,841,048						
2008	1,997,056						
2009	1,912,000						
2010	1,775,640						
2011	2,222,415						
2012	1,548,635						
2013	2,152,586						
2014	1,812,170						

Section 2 Accounting Results

- Section 2.1 Information pertaining to the actuarial present value of accumulated plan benefits as required under FAS No. 35.
- Section 2.2 Historical Exhibits
- Section 2.3 GASB No. 67 Information
- Section 2.4 Notes to Trend Data

Section 2.1 FAS No. 35 Information

A. Actuarial Present Value of Accumulated Plan Benefits

The actuarial present value of vested and nonvested accumulated plan benefits was computed on an ongoing plan basis in order to provide required information under Financial Accounting Standards Board Statement No. 35. In this calculation, a determination is made of all benefits earned by current participants as of the valuation date; the actuarial present value is then computed using demographic assumptions and an assumed interest rate. Assumptions regarding future salary and Social Security increases and accrual of future benefit service are not necessary for this purpose.

Accumulated Plan Benefits		January 1, 2014	J	lanuary 1, 2015
Vested Benefits	•			
Active Participants	\$	130,080,201	\$	131,427,380
Participants with Deferred Benefits		19,045,253		22,937,434
Participants Receiving Benefits		215,670,844		231,870,698
Total Vested Benefits	\$	364,796,298	\$	386,235,512
Nonvested Benefits		16,032,042		15,648,899
Total Accumulated Plan Benefits	\$	380,828,340	\$	401,884,411
Assumed Rate of Interest		8.00%		8.00%
Market Value of Assets Available for Benefits	\$	314,683,101	\$	331,641,992
Funded Ratio		82.6%		82.5%
Change in Accumulated Plan Benefits Due to:				
Assumption Changes	\$	(7,007,984)	\$	0
Plan Provision Changes	\$	0	\$	0
Number of Members				
Vested Members				
Active Participants		1,399		1,391
Participants with Deferred Benefits		375 ⁽¹⁾		371 ⁽²⁾
Participants Receiving Benefits		1,306 ⁽³⁾		1,380 ⁽⁴⁾
Total Vested Members		3,080		3,142
Nonvested Members		1,081		1,175
Total Members		4,161		4,317

⁽¹⁾ Includes 75 former members due a refund of contributions.

⁽²⁾ Includes 62 former members due a refund of contributions.

⁽³⁾ Includes 6 QDRO recipients.

⁽⁴⁾ Includes 7 QDRO recipients.

B. Statement of Changes in Accumulated Plan Benefits

A statement of changes in the actuarial present value of accumulated plan benefits (FAS No. 35 basis) follows. This statement shows the effect of certain events on the actuarial present value shown on the previous page.

Ac	tuarial Present Value of Accumulated Plan Benefits as of January 1, 2014	\$ 380,828,340
Inc	crease/(Decrease) During Year Attributable to:	
•	Increase for interest due to decrease in discount period	\$ 30,570,869
•	Benefits Paid	(24,759,906)
•	Plan Provision and FAS No. 35 Application Changes	0
•	Assumption Changes	0
•	Benefits Accumulated and (Gains)/Loss	15,245,108 ⁽¹⁾
Ne	t Increase/(Decrease)	\$ 21,056,071
Ac	tuarial Present Value of Accumulated Plan Benefits as of January 1, 2015	\$ 401,884,411

⁽¹⁾ Includes approximately \$78,485 increase in liability due to purchases of service.

The benefits valued include all benefits -- retirement, preretirement death and vested termination -- payable from the Plan for employee service prior to the valuation date. Benefits are assumed to accrue/accumulate in accordance with the plan provisions.

Section 2.2 Historical Exhibits

Supplementary Schedules

The GASB has issued a statement; Financial Reporting for Defined Benefit and Note Disclosures for Defined Contribution Plans (GASB Statement No. 25). This standard was effective for periods between June 15, 1996 and June 15, 2013, and requires funding status to be measured based upon the actuarial funding method adopted by the El Paso County Board of Retirement. The method adopted is the Entry Age Normal Cost Method. The target value of assets is equal to the Actuarial Accrued Liability (AAL). The Actuarial Value of Assets was determined using techniques that smooth the effects of short-term volatility in the Market Value of investments over a five-year period. The actual value of assets is the Market Value. The new GASB standard, Statement No. 67, supersedes GASB Statement No. 25 in its entirety, beginning June 15, 2013.

A. Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b-a)/c]
01/01/2005	\$ 219,697,172	\$ 249,693,945	\$ 29,996,773	88.0%	\$ 92,757,865	32.3%
01/01/2006	\$ 234,660,873	\$ 270,180,072	\$ 35,519,199	86.9%	\$ 98,915,975	35.9%
01/01/2007	\$ 257,214,257	\$ 293,358,174	\$ 36,143,917	87.7%	\$ 103,402,651	35.0%
01/01/2008	\$ 285,740,434	\$ 312,549,096	\$ 26,808,662	91.4%	\$ 105,140,088	25.5%
01/01/2009	\$ 249,776,755	\$ 331,357,842	\$ 81,581,037	75.4%	\$ 102,703,108	79.4%
01/01/2010	\$ 282,841,807	\$ 354,376,983	\$ 71,535,176	79.8%	\$ 106,956,655	66.9%
01/01/2011	\$ 285,036,737	\$ 375,801,894	\$ 90,765,157	75.8%	\$ 112,232,244	80.9%
01/01/2012	\$ 280,213,871	\$ 393,086,243	\$ 112,872,372	71.3%	\$ 116,611,366	96.8%
01/01/2013	\$ 278,031,207	\$ 414,530,914	\$ 135,899,707	67.2%	\$ 115,762,200	117.4%
01/01/2014	\$ 301,765,407	\$ 434,464,401	\$ 132,698,994	69.5%	\$ 124,039,614	107.0%

The GASB Statement No. 25 liabilities and assets for years ending in 2004 through 2013 are shown below.

B. Schedule of Employer Contributions

The GASB Statement No. 25 required contributions and actual percentages for years ending in 2004 through 2013 are shown below.

Schedule of Employer Contributions

Year Ended December 31	Annual Required Contribution ⁽¹⁾	Percentage Contributed
2004	\$ 5,951,443	92%
2005	\$ 6,551,304	87%
2006	\$ 7,387,051	83%
2007	\$ 8,158,839	77%
2008	\$ 7,724,074	82%
2009	\$ 10,945,353	56%
2010	\$ 9,603,845	75%
2011	\$ 10,733,979	74%
2012	\$ 11,299,311	77%
2013	\$ 13,574,900	66%

⁽¹⁾ Beginning of year.

Section 2.3 GASB No. 67 Information

Notes to the Financial Statements for the Year Ended December 31, 2014

Summary of Significant Accounting Policies

Method used to value investments. Investments are reported at fair value.

Plan Description

Plan administration. El Paso administers the El Paso County Retirement Plan ("the Plan"), a cost-sharing multiple-employer defined benefit pension plan that provides pensions for all full-time employees of participating employers.

Management of the Plan is vested in the El Paso Board of Retirement.

Plan membership. At January 1, 2014, pension plan membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefits	1,306
Inactive plan members entitled to but not yet receiving benefits	375
Active plan members	2,480
Total	4,161

Benefits provided. Please see Section 4.2 of the 2014 actuarial valuation report for a summary of plan provisions.

Contributions. The Board establishes contributions based on an actuarially determined contribution rate recommended by an independent actuary pursuant to the plan document. The actuarially determined contribution rate is the estimated amount as a percentage of payroll necessary to finance the costs of benefits earned by plan members during the year, with an additional amount to finance any unfunded accrued liability. The employer contributions must at least match member contributions. Member contributions are currently 8.0% of pay. For the year ended December 31, 2014, the participating employers contributed \$10,321,799 to the plan.

Investments

Rate of return. For the year ended December 31, 2014, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 6.89%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Receivables

N/A.

Net Pension Liability (Asset)

The components of the net pension liability (asset) at December 31, 2014, were as follows:

Total pension liability	\$ 456,432,032
Plan fiduciary net position	<u>(331,641,992)</u>
Employers net pension liability (asset)	\$ 124,790,040
Plan fiduciary net position as a percentage of the total	
pension liability (asset)	72.66%

Actuarial Assumptions

The total pension liability was determined by an actuarial valuation as of January 1, 2014, using the following actuarial assumptions, applied to all periods included in the measurement, and rolled forward to the measurement date of December 31, 2014:

Inflation	3.50%
Salary increases	Graded by service, from 7.76% to 3.75%
Investment rate of return	8.00%, net of pension plan investment expenses. This is based on an average inflation rate of 3.50% and a real rate of return of 4.50%.

Mortality rates were based on the RP-2000 sex-distinct mortality table projected generationally using Projection Scale AA, with a one year setback used for females. Mortality rates used for disabled members is based on the RP-2000 Disabled Mortality Table.

The actuarial assumptions used in the January 1, 2014 actuarial valuation were based on the results of an actuarial experience study for the period from January 1, 2008 to December 31, 2012, resulting in changes in actuarial assumptions adopted by the El Paso County Retirement Board to better reflect expected future experience.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and adding expected inflation. Best estimates of arithmetic rates of return for each major asset class included in the pension plan's target asset allocation as of December 31, 2014 are summarized in the following table (note that the rates shown below exclude the inflation component):

Asset Class	Long-Term Expected <u>Real Rate of Return</u>
Private Equity	11.60%
Public Equity	6.92%
Fixed Income	0.69%
Hedge Fund-of-Funds	4.34%
Real Estate	4.83%

Discount rate. The discount rate used to measure the total pension liability was 8.00%. The projection of cash flows used to determine the discount rate assumed that Employer contributions will continue to follow the current funding policy adopted by the Retirement Board. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability, calculated using the discount rate of 8.00%, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (7.00%) or 1-percentage-point higher (9.00%) than the current rate :

	1%	Current	1%
	Decrease	Discount Rate	Increase
	7.0%	8.0%	9.0%
Net Pension Liability (Asset)	\$ 179,548,891	\$ 124,790,040	\$ 77,698,859

Schedules of Required Supplementary Information

Schedule of Changes in the Net Pension Liability (Asset) and Related Ratios

		FYE
	Dec	ember 31, 2014
Total pension liability		
Service cost	\$	12,000,723
Interest		34,726,814
Changes of benefit terms		-
Differences between expected and actual experience		-
Changes of assumptions		-
Benefit payments		(24,759,906)
Net change in total pension liability	\$	21,967,631
Total pension liability-beginning		434,464,401
Total pension liability-ending (a)	\$	456,432,032
Plan fiduciary net position		
Contributions – employers	\$	10,321,799
Contributions – members		10,389,283
Net investment income		21,597,396
Benefit payments, including refunds of member		
contributions		(24,759,906)
Administrative expenses		(589,681)
Other		<u> </u>
Net change in Plan fiduciary net position	\$	16,958,891
Plan fiduciary net position-beginning		314,683,101
Plan fiduciary net position-ending (b)	\$	331,641,992
Plan's net pension liability (asset)-ending (a)-(b)	\$	124,790,040
Plan fiduciary net position as a percentage of the total		72.66%
pension liability		
Covered-employee payroll	\$	123,889,837
Net pension liability (asset) as a percentage of	¥	0,000,007
covered-employee payroll		100.73%

Notes to Schedule

Benefit changes. None.

Changes in actuarial assumptions. None.

Schedule of Employer Contributions

FYE December 31	2014	2013	2012	2011	2010
Actuarially determined contribution (ADC)	\$ 10,603,632	\$ 13,160,959	\$ 11,247,420	\$ 10,632,649	\$ 9,315,427
Contributions related to the ADC	10,321,799	8,930,855	8,736,581	7,909,248	7,175,286
Contribution deficiency (excess)	\$ 281,833	\$ 4,230,104	\$ 2,510,839	\$ 2,723,401	\$ 2,140,141
Covered employee payroll (Payroll)	\$ 123,889,837	\$ 115,762,200	\$ 116,611,366	\$ 112,232,244	\$ 106,956,655
Contributions as a percentage of Payroll	8.33%	7.71%	7.49%	7.05%	6.71%
FYE December 31	2009	2008	2007	2006	2005
Actuarially determined contribution (ADC)	\$ 10,995,469	\$ 7,658,407	\$ 8,025,030	\$ 7,069,066	\$ 6,393,770
Contributions related to the ADC	6,137,581	6,348,554	6,276,030	6,155,876	5,696,786
Contribution deficiency (excess)	\$ 4,857,888	\$ 1,309,853	\$ 1,749,000	\$ 913,190	\$ 696,984
Covered employee payrell (Payrell)		•	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
Covered employee payroli (Fayroli)	\$ 102,703,108	\$ 105,140,088	\$ 103,402,651	\$ 98,915,975	\$ 92,757,865

Notes to Schedule

Valuation date:	January 1, 2014
Actuarially determined contribution	on rates are calculated as of January 1 st .
Methods and assumptions used	to determine contribution rates:
Actuarial cost method:	Entry Age Normal.
Amortization method	Level percentage of payroll, open.
Amortization period	30 years.
Asset valuation method	Actuarial value that smooth's investment gains and losses over 5 years, constrained to a range of 80% - 120% of fair value.
Inflation	3.50% per annum.
Salary increases	Graded by service, from 7.76% to 3.75%
Investment rate of return	8.00%, net of pension plan investment expenses. This is based on an average inflation rate of 3.50% and a real rate of return of 4.50%.
Retirement age	An age-related assumption is used for members not yet receiving payments.
Mortality	RP-2000 Mortality Table using sex-distinct rates, projected generationally using Projection Scale AA, with a one year setback for females. The mortality for disabled members is based on the RP-2000 Disabled Mortality Table.
Other information	Please see Section 4 of the 2014 actuarial report.

Section 3 Plan Assets

This section presents information regarding plan assets as reported by the plan administrator or the auditor. The plan assets represent the portion of total plan liabilities which has been funded as of the valuation date.

- Section 3.1 A summary of the Market Value of Assets.
- Section 3.2 A reconciliation of the Market Value of Assets.
- Section 3.3 The Actuarial Value of Plan Assets as of January 1, 2015.
- Section 3.4 A history of the average annual rates of investment return.

Section 3.1 Summary of Assets

		Market Value as of December 31, 2013			Market Value as of December 31, 2014		
	Asset Category	Amount	%		Amount	%	
1. Cas	h and Short-Term Investments	\$ 3,914,695	1.2	\$	13,467,805	4.0	
2. Rec	eivables						
a.	Investment Distributions	\$ 3,478,616	1.1	\$	0	0.0	
b.	Interest and Dividends	174,835	0.1		43,866	0.0	
c.	Investments Sold	36,577	0.0		519,026	0.2	
d.	Other Receivables	78,264	0.0		32,944	0.0	
e.	Total	\$ 3,768,292	1.2	\$	595,836	0.2	
3. Inve	estments at Fair Value						
a.	U.S. Treasury Notes	\$ 0	0.0	\$	0	0.0	
b.	Fixed Income	72,274,762	23.0		62,867,173	19.0	
c.	Domestic Stocks and Equity	139,253,082	44.3		148,573,672	44.8	
d.	International Equity	58,312,568	18.5		45,989,059	13.9	
e.	Real Estate	24,499,907	7.8		43,805,028	13.2	
f.	Fund of Hedge Funds	12,378,010	3.9		16,579,068	5.0	
g.	Total	\$ 306,718,329	97.5	\$	317,814,000	95.9	
4. Fixe	ed Assets	\$ 652,886	0.2	\$	555,614	0.2	
5. Tota	al Assets	\$ 315,054,202	100.1	\$	332,433,255	100.3	
6. Lial	bilities						
a.	Payable for Investments Purchased	\$ 10,781	0.0	\$	556,603	0.2	
b.	Securities Lending Obligation in Excess of Collateral	0	0.0		0	0.0	
c.	Accounts Payable and Accrued Liabilities	360,320	0.1		234,660	0.1	
d.	Total	\$ 371,101	0.1	\$	791,263	0.3	
7. Net	Assets for Pension Benefits						
[5	- 6.d.]	\$ 314,683,101	100.0	\$	331,641,992	100.0	

Section 3.2 Reconciliation of Assets

Transactions	2	013 Plan Year	2014 Plan Year		
Additions					
1. Contributions					
a. Contributions from Employers	\$	8,930,855	\$	10,389,283	
b. Contributions from Plan Members		9,130,143		10,321,799	
c. Total	\$	18,060,998	\$	20,711,082	
2. Net Investment Income					
a. Interest and Dividends	\$	3,276,611	\$	3,556,063	
b. Net Appreciation (Depreciation)		37,730,726		18,911,263	
c. Miscellaneous		2,479		16,083	
d. Total	\$	41,009,816	\$	22,483,409	
e. Investment Expense	\$	(963,363)	\$	(886,013)	
f. Net Investment Income	\$	40,046,453	\$	21,597,396	
3. Total Additions	\$	58,107,451	\$	42,308,478	
Deductions					
4. Benefits and Expenses					
a. Retirement Benefits	\$	19,821,448	\$	21,847,461	
b. Refund of Contributions		2,152,586		1,812,170	
c. Death		995,772		1,100,275	
d. Supplemental Payment		N/A		N/A	
e. Administrative Expenses		547,115		589,681	
5. Total Deductions	\$	23,516,921	\$	25,349,587	
6. Net Increase	\$	34,590,530	\$	16,958,891	
7. Net Assets Held in Trust for Pension Benefit	s				
a. Beginning of Year	\$	280,092,571	\$	314,683,101	
b. End of Year	\$	314,683,101	\$	331,641,992	

Section 3.3 Actuarial Value of Assets

Schedule of Asset Gains/(Losses)								
Year Ending December 31	Original Amount	Recognized in Prior Years	Recognized This Year	Recognized in Future Years				
2010	\$ 12,558,319	\$ 10,046,656	\$ 2,511,663	\$0				
2011	(25,953,761)	(15,572,256)	(5,190,752)	(5,190,753)				
2012	10,836,183	4,334,474	2,167,237	4,334,472				
2013	17,857,284	3,571,457	3,571,457	10,714,370				
2014	(3,391,713)	0	(678,343)	(2,713,370)				
Total	\$ 11,906,312	\$ 2,380,331	\$ 2,381,262	\$ 7,144,719				

Development of Actuarial Value of Assets	
1. Initial Actuarial Value of Assets as of January 1, 2014 (before corridor)	\$ 301,765,407
2. Contributions	
a. Employers	\$ 10,389,283
b. Members	10,321,799
c. Total (a. + b.)	\$ 20,711,082
3. Decreases during Year	
a. Benefit Payments	\$ 22,947,736
b. Return of Member Contributions	1,812,170
c. Supplemental Payment	0
d. Non-investment Expenses	589,681
e. Total (a. + b. + c. + d.)	\$ 25,349,587
4. Expected Return at 8.0% on:	
a. Actuarial Value of Assets as of January 1, 2014	\$ 24,141,233
b. Item 2 (one-half year)	828,443
c. Item 3 (one-half year)	1,013,983
d. Item 6	1,033,416
e. Total (a. + b. – c. + d.)	\$ 24,989,109
 Expected Actuarial Value of Assets as of December 31, 2014 (1. + 2.c 3.e. + 4.e.) 	\$ 322,116,011
6. Unrecognized Asset Gain as of December 31, 2013	\$ 12,917,694
 Expected Actuarial Value of Assets as of December 31, 2014, plus Previous Year's Unrecognized Asset Gain (5. + 6.) 	\$ 335,033,705
8. Market Value of Assets as of December 31, 2014	\$ 331,641,992
9. 2014 Asset Gain/(Loss) (8 7.)	\$ (3,391,713)
10. Asset Gain/(Loss) to be Recognized as of December 31, 2014	\$ 2,381,262
11. Initial Actuarial Value of Assets as of January 1, 2015 (5. + 10.)	\$ 324,497,273
12. Constraining Values:	
a. 80% of Market Value (8. x .8)	\$ 265,313,594
b. 120% of Market Value (8. x 1.2)	\$ 397,970,390
13. Actuarial Value of Assets as of January 1, 2015 (11.), but not less than (12.a.), nor greater than (12.b.)	\$ 324,497,273

Year Ending	Actuaria	Actuarial Value		Value
December 31	Annual	Cumulative	Annual	Cumulative
1995	11.2%	11.2%	21.4%	21.4%
1996	12.0%	11.6%	16.4%	18.9%
1997	12.4%	11.9%	16.5%	18.1%
1998	14.0%	12.4%	11.4%	16.4%
1999	13.7%*	12.7%	4.8%	14.0%
2000	9.5%	12.1%	0.8%	11.7%
2001	5.7%	11.2%	(2.5%)	9.5%
2002	(2.4%)	9.4%	(8.0%)	7.2%
2003	3.0%	8.7%	26.3%	9.1%
2004	5.7%	8.4%	10.9%	9.3%
2005	6.9%	8.2%	5.9%	9.0%
2006	9.9%	8.4%	14.8%	9.5%
2007	12.1%	8.6%	7.3%	9.3%
2008	(11.5%)	7.1%	(28.1%)	6.1%
2009	15.6%	7.6%	16.1%	6.7%
2010	2.3%	7.3%	13.4%	7.1%
2011	0.0%	6.8%	(2.0%)	6.6%
2012	0.7%	6.5%	12.3%	6.9%
2013	10.4%	6.7%	14.4%	7.3%
2014	9.1%	6.8%	6.9%	7.2%

Section 3.4 Average Annual Rates of Investment Return

* Includes change in Asset valuation method.

Section 4 Basis of Valuation

This section presents and describes the basis of the valuation. The census of participants, actuarial basis and provisions of the Plan are the foundation of the valuation, since these are the present facts on which the projection of benefit payments will depend. The valuation is based on the premise that the Plan will continue in existence.

- Section 4.1 The participant data used for the actuarial valuation.
- Section 4.2 The plan provisions valued in the actuarial valuation.
- Section 4.3 The actuarial funding method, procedures and actuarial assumptions.

Section 4.1 Plan Participants

Participant Data Reconciliation Α.

	Active Members	With Deferred Benefits ⁽²⁾	Retired Members	Disabled Members	Bene- ficiaries	Total
As of January 1, 2014	2,480	300	1,194	13	99	4,086
Age Retirements	(74)	(14)	87	-	1	-
Disability Retirements	-	(1)	-	1	-	-
Deaths Without Beneficiary	(1)	-	(13)	-	-	(14)
Deaths With Beneficiary	-	1	(9)	-	9	1
Nonvested Terminations	(21)	-	-	-	-	(21)
Vested Terminations	(36)	36	-	-	-	-
Rehires	5	(5)	-	-	-	-
Cashouts	(155)	(8)	-	-	-	(163)
Expiration of Benefits	-	-	-	-	(2)	(2)
Data Corrections	-	-	-	-	-	-
Transfers Out	-	-	-	-	-	-
Pick Ups	-	-	-	-	-	-
Net Change	(282)	9	65	1	8	(199)
New Entrants During the Year	368	-	-	-	-	368
As of January 1, 2015	2,566	309	1,259	14	107	4,255

 ⁽¹⁾ Excludes nonvested terminated members who are due a refund of member contributions as of the valuation date.
 ⁽²⁾ Includes 13 deferred disableds and 3 deferred beneficiaries in 2014 and 17 deferred disableds and 4 deferred beneficiaries in 2015.

	Years of Service ⁽²⁾							
Age ⁽¹⁾	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	Total
Under 20	3	-	-	-	-	-	-	3
20-24	72	-	-	-	-	-	-	72
25-29	253	29	1	-	-	-	-	283
30-34	226	78	13	-	-	-	-	317
35-39	132	75	52	5	-	-	-	264
40-44	127	101	45	45	3	-	-	321
45-49	112	103	55	40	16	17	-	343
50-54	100	70	74	52	38	35	4	373
55-59	76	56	58	52	28	17	12	299
60-64	48	45	35	25	20	13	10	196
Over 65	9	18	15	13	8	4	3	70
Total	1,158	575	348	232	113	86	29	2,541

Count of Active Members Β.

C. Average Compensation

Years of Service ⁽³⁾								
Age ⁽¹⁾	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	Total
Under 20	\$38,662	-	-	-	-	-	-	\$38,662
20-24	\$40,522	-	-	-	-	-	-	\$40,522
25-29	\$43,447	\$48,269	-	-	-	-	-	\$44,015
30-34	\$45,300	\$52,522	\$64,223	-	-	-	-	\$47,853
35-39	\$47,067	\$56,962	\$63,008	\$55,822	-	-	-	\$53,184
40-44	\$46,547	\$51,580	\$62,670	\$68,277	\$61,396	-	-	\$53,576
45-49	\$45,058	\$51,854	\$59,272	\$62,651	\$65,744	\$62,771	-	\$53,273
50-54	\$44,474	\$50,795	\$61,164	\$57,995	\$63,192	\$64,414	\$60,753	\$54,809
55-59	\$43,355	\$47,661	\$52,256	\$59,803	\$54,962	\$67,828	\$74,230	\$52,466
60-64	\$46,649	\$48,805	\$57,995	\$48,718	\$53,804	\$62,225	\$71,796	\$52,480
Over 65	\$45,198	\$50,829	\$64,638	\$57,489	\$64,173	\$53,281	\$88,020	\$57,560
Total	\$44,752	\$51,574	\$59,805	\$60,122	\$59,874	\$63,915	\$72,958	\$51,404

Attained age last birthday.
 Attained service at valuation date. Excludes 25 members on leave of absence.
 Averages not shown for groupings of less than 3 members.

Attained	Members With Deferred Benefits ⁽¹⁾		Retire	ed Members ⁽²⁾	Beneficiaries		
Age	No.	Benefit	No.	Benefit	No.	Benefit	
Under 50	132	\$ 1,095,781	6	\$ 195,384	6	\$ 29,522	
50 - 54	85	1,007,856	38	1,204,593	4	106,546	
55 - 59	63	659,369	160	3,940,035	4	52,767	
60 - 64	23	211,457	262	5,476,732	12	108,491	
65 - 69	4	72,208	316	5,095,663	19	217,476	
70 - 74	2	21,404	217	3,232,734	22	242,435	
75 - 79	-	-	129	1,683,358	12	132,803	
80 - 84	-	-	80	875,611	14	176,991	
Over 84	-	-	65	686,246	14	90,006	
Total	309	\$ 3,068,075	1,273	\$ 22,390,356	107	\$ 1,157,037	

D. **Inactive Members - Annual Benefits**

(1) (2) Includes 17 deferred disabled participants and 4 deferred beneficiaries. Includes 14 disabled participants.

Participant Statistics Ε.

Inactive Participants as of January 1, 2015	No.	Am	ount of Annual Benefit
Participants Receiving Benefits			
Retired	1,273	\$	22,390,356
Beneficiaries	107		1,157,037
Total	1,380	\$	23,547,393
Participants with Deferred Benefits			
Vested Terminated	288	\$	2,710,242
Beneficiaries	4		41,702
Disabled	17		316,131
Total	309	\$	3,068,075

Statistics for Active		Average					
Participants	No.	Age	Service ⁽¹⁾	E	arnings		
As of January 1, 2014							
Continuing ⁽²⁾	2,050	46.7	9.8	\$	52,187		
• New ⁽³⁾	414	36.3	0.8		41,197		
Total	2,464	44.9	8.3	\$	50,341		
As of January 1, 2015 ⁽²⁾							
Continuing	2,160	46.0	9.4	\$	53,389		
• New ⁽³⁾	381	36.9	1.0		40,147		
Total	2,541	44.7	8.2	\$	51,404		

⁽¹⁾ Service since date of hire.
 ⁽²⁾ Excludes 16 members on leave of absence in 2014 and 25 members on leave of absence in 2015.
 ⁽³⁾ Includes rehires.

Section 4.2 Summary of Plan Provisions

Effective Date and Plan Year

Originally effective September 1, 1967; the plan was last amended and restated effective January 1, 2013. The plan year is January 1, through December 31.

Administration

The plan is administered by the El Paso County Board of Retirement which consists of five voting members and two Associate members. The five voting members include the Treasurer of El Paso County, two non-elected employees of participating employers, and two registered electors of El Paso County appointed by the Board of County Commissioners.

Type of Plan

A self-administered defined benefit pension plan.

Employers Included

El Paso County, Colorado, El Paso County Health Department, Pikes Peak Library District, Office of the 4th Judicial District, El Paso County Board of Retirement.

Employees Included

A Covered Employee is any elected or appointed officer or any person employed by the employer who is defined as a full-time employee or a job-share employee by the employer. A Covered Employee participates in the plan on the first date of employment.

Service

Credited Service is the sum of Past Service, Membership Service and Purchased Service and is used in determining the amount of pension benefits and benefit eligibility. Past Service and Membership Service are periods of employment before and after September 1, 1967, respectively, and are measured in years and months. Past Service is limited to five years, and Purchased Service is also limited to 5 years and is subject to additional conditions.

Compensation

Total regular compensation excluding bonuses, extra pay, overtime, etc., but including any deferred compensation. The amount of compensation for plan purposes for any participant, who first became a participant on or after January 1, 1996, is limited in any year to a maximum of \$260,000 (as indexed).

Final Average Monthly Compensation

The average compensation of the highest paid 36 consecutive calendar months within the last 120 calendar months of Credited Service.

County Contributions

The County will contribute an amount that along with participant contributions will be sufficient to provide benefits provided by the plan and pay all administrative expenses of the plan. Such County contributions must at least match participant contributions.

Member Contributions

Effective January 1, 1986, members are required to make monthly contributions equal to 6% of earnings. This was increased to 6.5% effective January 1, 2010, 7.0% effective January 1, 2011, 7.5% effective January 1, 2012, and 8.0% effective January 1, 2014. The rate of interest credited on member contributions after July 1, 2005 is 3% per year monthly compounded annually, or such other rate as established by the Retirement Board.

Normal Form of Benefit

The Normal Form of Benefit provided by the plan is a 10-year certain and life annuity payable monthly.

Accrued Benefit

The benefit determined as for normal retirement payable at the member's normal retirement date considering current earnings and service.

Normal Retirement Benefit

Normal retirement date for a member hired before January 1, 2010 is the first of the month on or after attainment of age 62. Normal retirement date for a member hired between January 1, 2010 and December 31, 2012 is the first of the month on or after attainment of age 62, but not before the completion of 60 months of continuous service. Normal retirement date for a member hired after December 31, 2012 is the first of the month on or after attainment of age 62, but not before the completion of 96 months of continuous service.

If hired before January 1, 2010, the monthly benefit payable at normal retirement is equal to 2.22% times final average monthly compensation, times years of Credited Service earned through December 31, 2012 plus 2.00% times final average monthly compensation, times years of Credited Service earned on or after January 1, 2013.

If hired after December 31, 2009, the monthly benefit payable at normal retirement is equal to 2.00% times final average monthly compensation, times years of Credited Service.

If hired before January 1, 2013, such benefit will not be greater than 75% of the member's final average monthly compensation. If hired after December 31, 2012, such benefit will not be greater than 60% of the member's final average monthly compensation.

Late Retirement Benefit

The benefit is equal to the Normal Retirement Benefit, recognizing Credited Service and increased compensation to postponed retirement date.

Special Early Retirement Benefit

A member may elect to retire with a special early benefit if the sum of his age and years of employment equals at least 75 upon termination of employment. If hired between January 31, 2010 and December 31, 2012, the member must have five or more years of Credited Service. If hired after December 31, 2012, the member must have eight or more years of Credited Service. The benefit will be equal to his accrued benefit unreduced for early payment.

Regular Early Retirement Benefit

An active or vested terminated member may elect to retire on the first of any month after the attainment of age 55. If hired before January 1, 2013, the member must have five or more years of Credited Service. If hired after December 31, 2012, the member must have eight or more years of Credited Service. The benefit will be equal to his accrued benefit reduced by .25% per month for each month by which his early retirement date precedes age 62.

Terminated Vested Benefit

A member who terminates employment with five or more years of Credited Service if hired before January 1, 2013, or 8 years if hired after December 31, 2012, before he is eligible to receive immediate retirement benefits may elect to receive either his accumulated contributions, in lieu of all other benefits, or his vested accrued benefit payable at his normal retirement date. The member may also elect to receive a reduced benefit at an earlier commencement date.

A member who terminates employment before becoming vested is entitled to a refund of his accumulated contributions with interest.

Disability Benefit

An active member who becomes permanently and totally disabled under their employer's long-term disability insurance program, or Social Security disability, is entitled to receive a benefit payable at his normal retirement date. This benefit is based on his average monthly compensation for the calendar year prior to the calendar year in which disablement occurred and the Credited Service he would have accumulated to such retirement date. Payments will be made for ten years certain and life thereafter.

Death Benefit

Death of a Member Prior to Benefit Commencement

In the event a member, either actively accruing service, disabled or terminated vested, dies before payments commence, the following benefits shall be paid:

If such member is not vested at his death, there shall be paid the Beneficiary the member's accumulated contributions at the date of death.

If such member is vested at his death, one of the following death benefits shall be payable to his spouse, at her sole option:

Two times the member's accumulated contributions at the date of death; or

A monthly benefit, payable for life, in an amount equal to 60% of the member's Accrued Benefit on his date of death, reduced if the spouse is more than five years younger than the member. Such death benefit shall commence on the first day of the month coincident with or following the later of the date the member would have attained age 55 or date of death. If the member dies while in active service, on or after attainment of age 62, the surviving spouse is eligible to receive a monthly benefit payable for life as if the member retired the day before death and elected the 100% joint and survivor annuity.

Death After Retirement

A lump sum death benefit of \$3,000 is payable to the member's designated beneficiary. In addition, applicable benefits will be paid if the member has elected an option providing for payments to a beneficiary, or has elected the normal form of benefit and dies prior to having received benefits for 120 months, or prior to having received benefits equal to his total accumulated contributions as of the date of his retirement.

Optional Retirement Benefits

In lieu of the Normal Form of Benefit (10-year certain and life), a member may elect to receive an adjusted amount, payable for life only, or an amount payable as a 100% or 50% joint and survivor benefit. 100% and 50% joint and survivor benefits with benefits increases if beneficiary dies first are also available options.

Section 4.3 Summary of Actuarial Methods, Procedures and Assumptions

A. Entry Age Actuarial Cost Method

Liabilities and contributions shown in this report are computed using the **Entry Age** actuarial method of funding.

Sometimes called a "funding method," this is a particular technique used by actuaries for establishing the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily the annual contribution to the plan is comprised of (1) the normal cost and (2) an amortization payment on the unfunded actuarial accrued liability.

Under the Entry Age Actuarial Cost Method, the **Normal Cost** is computed as the level percentage of pay which, if paid from the earliest time each Member would have been eligible to join the Plan if it then existed (thus, entry age) until his retirement or termination, would accumulate with interest at the rate assumed in the valuation to a fund sufficient to pay all benefits under the Plan.

The Normal Cost for the Plan is determined by summing individual results for each active Member and determining an average normal cost rate by dividing the summed individual normal costs by the total payroll of Members before assumed retirement age.

The Actuarial Accrued Liability under this method at any point in time is the theoretical amount of the fund that would have accumulated had annual contributions equal to the Normal Cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date.) The Unfunded Actuarial Accrued Liability is the excess of the Actuarial Accrued Liability over the Actuarial Value of Plan Assets actually on hand on the valuation date.

Under this method experience gains or losses, i.e. decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the Unfunded Actuarial Accrued Liability.

B. Asset Valuation Method

The Actuarial Value of Assets is based on a five-year moving average of expected and actual market values determined as follows:

- at the beginning of each plan year, a preliminary expected actuarial asset value is calculated as the sum of the previous year's actuarial value increased with a year's interest at the Plan valuation rate, **plus** net cash flow (including investment expenses) adjusted for interest (at the same rate) to the end of the previous plan year, **plus** interest (at the same rate) on the prior year's unrecognized asset bases to the end of the previous plan year;
- the expected asset value is set equal to the preliminary expected actuarial value plus the unrecognized investment gains and losses as of the end of the previous plan year;

- the difference between the expected asset value and the market value is the investment gain or loss for the previous plan year;
- the final actuarial asset value is the preliminary value plus 20% of the investment gains and losses for each of the five previous plan years, but in no case more than 120% of the market value or less than 80% of the market value,

C. Valuation Procedures

No actuarial liability is included for members who terminated nonvested prior to the valuation date, except those due a refund of contributions.

The compensation amounts used in the projection of benefits and liabilities were January 1, 2015 rates of pay.

In computing accrued benefits, average earnings were determined using actual earnings histories supplied by El Paso County.

No termination or retirement benefits were projected to be greater than the dollar limitation required by the Internal Revenue Code Section 415 for governmental plans.

D. Actuarial Assumptions

Interest:

8.0% per annum, compounded annually, net of investment expenses.

Mortality:

The mortality assumption reflects expected future mortality improvement.

RP-2000 Mortality Table Projected Generationally with Scale AA Setback 1 Year for Females (Rates for 2015 only shown below)

Per 100 Members							
Age	Age Male						
20	0.03	0.02					
25	0.03	0.02					
30	0.04	0.02					
35	0.07	0.04					
40	0.10	0.05					
45	0.12	0.08					
50	0.16	0.12					
55	0.27	0.21					
60	0.53	0.41					
64	0.91	0.71					

Withdrawal:

Per 100 Members		
Svc	Male	Female
0	20.00	20.00
1	17.50	17.50
2	12.50	17.00
3	12.50	13.00
4	10.00	12.50
5	9.00	11.00
6	7.90	9.90
7	6.80	8.80
8	6.25	8.25
9	5.40	7.40
10	4.90	6.50
11	4.50	5.50
12	4.20	5.20
13	3.85	4.85
14	3.65	4.55
15	3.15	4.15
16+	3.00	4.00

Withdrawal rates are not applied after a member becomes eligible for retirement benefits.

Disability:

Disability rates are the rates at which active Plan members are expected to become disabled, and to be eligible for plan disability retirement. Sample rates are as follows:

Per 100 Members		
Age	Disablement	
20	0.02	
25	0.03	
30	0.04	
35	0.06	
40	0.09	
45	0.13	
50	0.20	
55+	0.35	

Post-Disability Mortality:

Members who are receiving disability retirement benefits are expected to have a higher mortality risk than other retirees or active plan members. The disability mortality is based on the RP-2000 Disabled Mortality Table. Sample rates are as follows:

Per 100 Members			
Age	Male	Female	
20	2.26	0.75	
25	2.26	0.75	
30	2.26	0.75	
35	2.26	0.75	
40	2.26	0.75	
45	2.26	0.75	
50	2.90	1.15	
55	3.54	1.65	
60	4.20	2.18	
64	4.83	2.66	

Salary Increase:

Anticipated salary increases include both inflationary and merit increases. Merit increases are anticipated to be greater earlier in a member's career. A composite salary increase assumption based on service is, therefore, applied. Sample rates are as follows:

	Percentage Increase at Attained Service		
Service	Merit	Inflation	Total
0	4.12%	3.50%	7.76%
5	1.99	3.50	5.55
10	1.21	3.50	4.75
15	0.89	3.50	4.42
20	0.56	3.50	4.08
25+	0.24	3.50	3.75

Salary Limit Increase:

3.50% per year.

Refund Assumption For Active Members Who Withdraw:

Service	Percent Electing Refund
0-4	100%
5	40%
6	35%
7	30%
8	25%
9	25%
10+	25%

Retirement Rates:

According to the following table based on eligibility for reduced or unreduced retirement benefits.

Per 100 Members			
Attained Age	Unreduced	Reduced	
49 & Before	30	-	
50	35	-	
51	20	-	
52	20	-	
53	20	-	
54	20	-	
55	25	15	
56	15	5	
57	15	5	
58	15	10	
59	15	10	
60	20	10	
61	25	10	
62	30	-	
63	20	-	
64	20	-	
65	25	-	
66	25	-	
67-69	20	-	
70-74	40	-	
75+	100	-	

Expense Loading:	Loading for administrative provided by the Retireme is \$603,500.	e expenses is based on an estimate for the year, nt Board. For 2015, the administrative expense loading
Percent Married:	85% of all members are assumed to have eligible spouses.	
Age Difference:	A husband is assumed to be three years older than his wife	
Age for Commencement of Deferred Vested Benefits:	Active Members: Terminated Members:	55 57, or earlier if eligible for Rule of 75 before age 57
Amortization of the Unfunded Actuarial Accrued Liability:	The unfunded actuarial accrued liability is amortized as a level percent of payroll over an open amortization period of 30 years. Payroll is assumed to increase 3.5% per year for this purpose.	