New Mexico Educational Retirement Board Sustainability and Solvency

Investments and Pensions Oversight Committee

Representative Tomás Salazar, Chair George Muñoz, Vice-Chair

Thursday, September 7, 2017

Jan Goodwin, Executive Director Mary Lou Cameron, Board Chair H. Russell Goff, Board Vice Chair





Assumption Setting Process

- General process for setting assumptions
 - ► Actuary recommends assumptions
 - ► Board considers actuary's recommendation and makes the final decision for the system
- Experience Study is a periodic review of the assumptions and methods used by the actuary
 - ► ERB has one prepared every two years
 - Last one performed after June 30, 2014 actuarial valuation
 - ► Two-year interval is a best practice for ERB
 - GFOA recommends at least once every five years





Assumption Setting Process

- Assumptions are not static and must stay current
 - ► Should be appropriate in each actuarial valuation
 - ► Can change even without a formal experience study
 - ► Actuarial Standards of Practice (ASOPs) now require the actuary attest to the reasonableness of the actuarial assumptions in every actuarial valuation report
- Incredibly low levels of current inflation and expectations of future inflation are prompting conversations about the inflation assumption across the country





Economic Assumptions

Investment Return

- Current Assumption: 7.75%
- Description: Long-term expected return on plan assets based on asset allocation
- ▶ Purpose: (1) Anticipate the level of investment earnings that will be available to help pay plan benefits in the future, and (2) discount future benefit payments to the valuation date
- ► Impact: Lower assumption will increase plan liabilities
- ▶ Dependent on each system's investment policy

Core Inflation

- ► Current Assumption: 3.00%
- ▶ Description: Long-term assumption for price inflation (CPI-U)
- ▶ Purpose: Base "building block" of every economic assumption
- ▶ Impact: Lower assumption would trigger a similar shift in most other economic assumptions





Inflation

- The assumed inflation rate is not used directly in the actuarial valuation, but it impacts the development of:
 - ► Future COLA assumption
 - Investment return assumption
 - Wage inflation assumption
 - ► Payroll growth rate
- The current inflation assumption is 3.00% per year
- Actual inflation (measured by the CPI-U) during

► Last 5 years: 1.32%

► Last 20 years: 2.18%

► Last 30 years: 2.66%

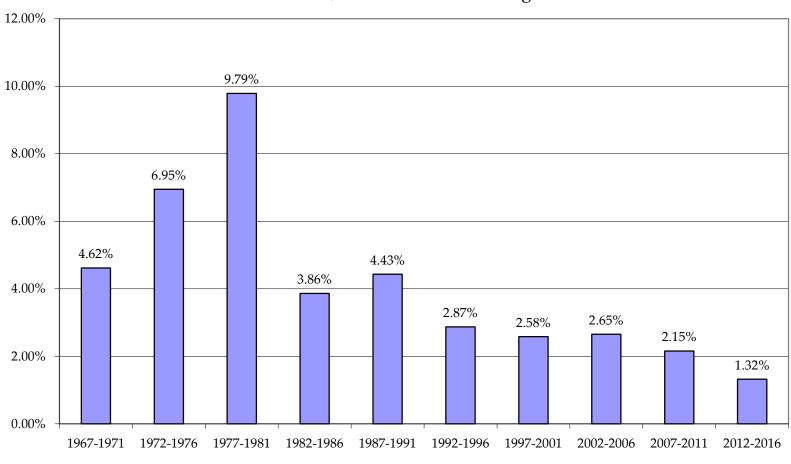
► Since 1913: 3.16%





Inflation

Average Annual Inflation CPI-U, Five Fiscal Year Averages







Annual COLA

- Unreduced COLA is a function of CPI increases
 - ▶ If change in CPI is greater than 2%, COLA=50% of change in CPI, maximum COLA=4%, minimum COLA=2%
 - ▶ If change in CPI is 2% or less, then COLA=100% of change in CPI
- The current COLA assumption is 2.00% per year
 - ▶ Based on current price inflation assumption of 3.00%
 - ▶ Prior to reductions of COLA when funded ratio less than 100%
- Stochastically modeled future inflation scenarios based on recommended inflation assumption of 2.50%
- Recommend COLA assumption of 1.90%
 - Average COLA paid based on stochastic modeling





Investment Return

- The investment return rate is used to:
 - ► Anticipate the level of investment earnings that will be available to help pay plan benefits in the future
 - 60-70% of the benefit payments for many systems are paid with accumulated investment returns
 - ▶ Discount future expected cash flows (benefits and refunds) in order to determine the actuarial present values (liabilities)
 - Time value of money
- The current assumption is 7.75%
 - ► This is intended to be the return, net of all administrative and investment expenses
 - ► Critical assumption since even small changes in the assumption could have a big impact on the funded status of the plan
 - ▶ Building Blocks: 3.00% inflation + 4.75% real return





Investment Return

- Based analysis on ERB's current target asset allocation
- Modeled target allocation against capital market assumptions for seven investment consulting firms
 - ► Arithmetic average expected <u>nominal return</u> of seven investment firms is 7.73% based on 2016 capital market assumption sets
 - Expected geometric average 7.01%
 - ▶ We generally consider anything between the expected arithmetic and geometric returns (7.01% to 7.73%) to be reasonable
 - Measured net of administrative and investment expenses
- We recommend a nominal return assumption of 7.25%
 - ► Maintains current real return of 4.75%
 - ▶ Building Blocks: 2.50% inflation + 4.75% real return





Conclusion

- Recommend following assumption changes:
 - ▶ Decrease inflation assumption from 3.00% to 2.50%
 - ► Decrease nominal investment return assumption from 7.75% to 7.25%
 - Maintain real rate of return assumption of 4.75%
 - ▶ Decrease wage inflation from 3.75% to 3.25%
 - ▶ Decrease payroll growth assumption from 3.50% to 3.00%
 - ▶ Decrease the annual assumed COLA from 2.00% to 1.90%
- Recommend the Board adopt proposed assumptions for valuations as of June 30, 2017 and thereafter, until next experience study



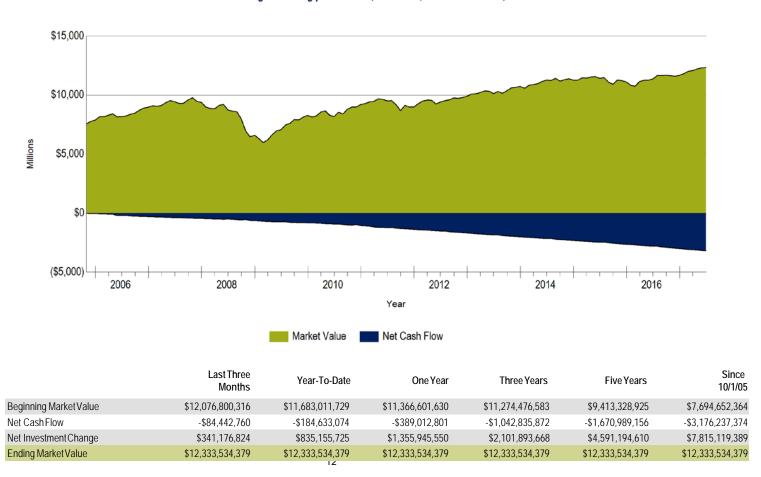
ERB Actuarials at a Glance

Fiscal Year	6/30/14 Valuation	6/30/14 Experience Study	6/30/15 Valuation	6/30/16 Valuation	6/30/16 Experience Study
UAAL	\$6.3B \$6.6B		\$6.5B	\$6.6B	\$7.4B
Funded Ratio	63.1%	62.0%	63.7%	64.2%	61.5%
Funding Period	26 years	32 years	37 years	46 years	84 years



Total Fund Asset Growth Summary

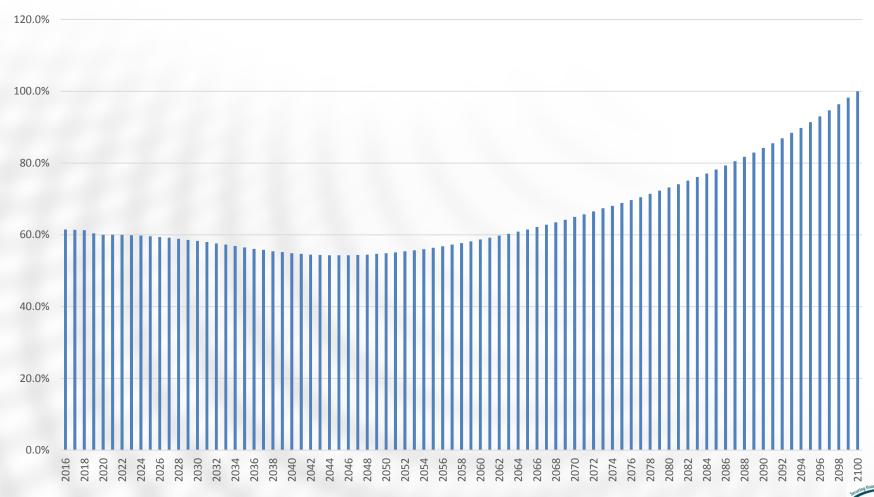
Market Value History
Since NEPC began tracking performance, October 1, 2005 thru June 30, 2017





Actuarial Projection



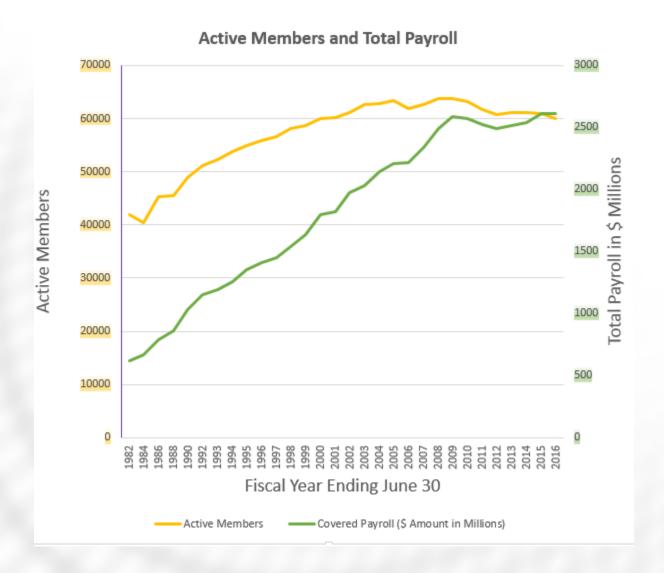


Plan Design Elements that Affect Funding

- Contribution rates
- Retirement eligibility
- Vesting period
- Retirement benefit:
 - Final average salary
 - Multiplier
- Cost of living adjustment



Environmental Factors- Actives and Payroll





Environmental Factors- Retirement Patterns





Environmental Factors- Retirement Patterns, cont.





Environmental Factors- Retirement Patterns, cont.





Environmental Factors- Retirement Patterns, cont.

Return to Work by School Type as of 06/30/17					
	<u>RTW</u>	RTW<\$20K			
K - 12	972	197			
Higher Ed	218	25			
Special Schools	9	1			
State Agencies	12	0			
Total	1,211	223			

Return to Work by Job Category as of 06/30/17						
	<u>RTW</u>	RTW<\$20K				
Administrator	116	5				
Teacher	627	49				
Other Certified	122	18				
Non-Certified	177	136				
Blank	169	15				
Total	1,211	223				



Return to Work vs. Working Longer

- Retirees that return to work will accumulate more income in the short term; however, there will eventually be a "crossover date" where the retiree will accumulate more income by continuing to work than with participating in the RTW Program.
- The longer the retiree participates in the RTW Program, the longer it takes to attain the crossover date.
- The greater the number of years worked, the earlier the crossover.
- The higher the assumed earnings rate, the later the crossover.



Nonpayment of contributions by PERA retirees and RTW Exception Rule

Information for Fiscal Year 2017								
Category	Total Wages	Employee- \$20K or less 7.90%; Over \$20K 10.70%		Employer- \$20K or less 13.90%; Over \$20K 13.90%		Contri Not Collected (shown in red)		
Return to Work	\$ 53,445,701.88	\$	5,718,690.10	\$	7,428,952.56			
Return to Work < \$20K	\$ 1,906,687.63	\$	150,628.32	\$	265,029.58			
RTW Exception: <.25 FTE	\$ 10,405,721.55	\$	1,113,412.21	\$	1,446,395.30	(\$2,559,807.50)		
RTW Exception: <\$15K	\$ 6,649,935.01	\$	525,344.87	\$	924,340.97	(\$1,449,685.83)		
PERA RTW	\$ 18,405,239.50	\$	1,969,360.63	\$	2,558,328.29	(\$1,969,360.63)		
PERA RTW < \$20K	\$ 3,708,890.83	\$	293,002.38	\$	515,535.83	(\$293,002.38)		
						(\$6,271,856.34)		



Substitute teachers





Perception of abuse:

- Spiking
- Work 20 years part-time then 5 years full-time



How Do We Get to 100% Funding?

Contributions + Investment income = Benefits

We can make changes to:

Contributions-

Employer

Employee

Benefits-

Current members/retirees- can only change COLA
Future members- can change all aspects of plan design:
retirement eligibility, multiplier, COLA, minimum
retirement age, FAS and vesting

ERB COLA and Sustainability

ERB's COLA follows best practices for sustainability:

Based on change in CPI

Begins at later of retiree reaching age 65 or one year after retirement

ERB's COLA is 10% of normal cost- 12.63%

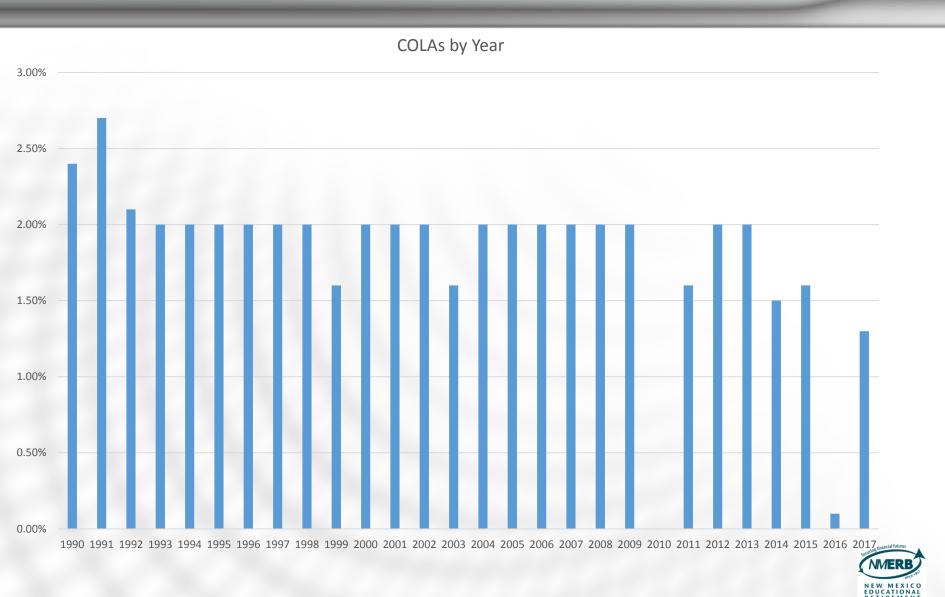


How ERB COLA Has Changed over Time

- 1984- COLA based on change in CPI, capped at 4%, begins at later of age 65 or one year after retirement
- 2010- elimination of negative COLA provision; added \$15 to UAAL (\$4.5 billion as of June 30, 2009)
- 2013- 10 or 20% COLA reduction until 90% funded, then 5 or 10% reduction until 100% funded. No immediate impact on UAAL. Savings recognized annually.
 - For members joining on or after July 1, 2013 COLA begins at later of age 67 or one year after retirement.

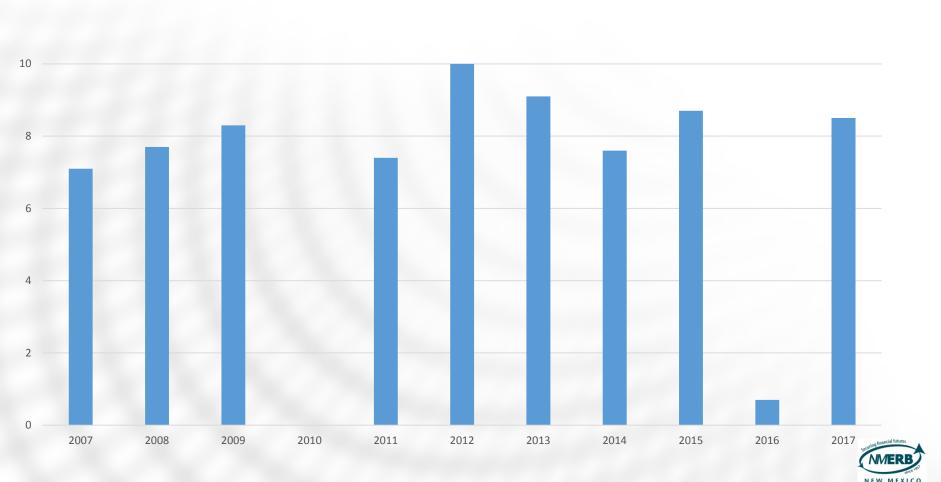


Recent COLAs



Recent COLAs





Impact of HB 628- 2011 Legislative Session

HB 628's effects:

- Contribution swap
 - FY2010-2013 1.5-3.25%
 - Cost to fund- \$37.4 million as of June 30, 2014
- Delayed employer contributions from 2005 legislation
 - Originally scheduled to be 13.9% in 2012
 - Did not reach 13.9% until 2015
 - Cost to fund- \$143.6 million as of June 30, 2014



ERB Retirement Eligibility: Tier Structure

Tier 1: ERB Membership Prior to July 1, 2010

- * "25 and Out" Earned service credits + allowed service credits = 25 or more years. There is no minimum age required.
- * "Rule of 75" Your age + earned service credits = 75 or more. Under the Rule of 75, allowed service credits are used to calculate retirement benefit but do not count toward eligibility. There are permanent and significant reductions if you are under age 60, and even more if you are under age 55.
- "65 and 5" If you are at least 65 years old and have at least five years of earned service credit, you are eligible for retirement.

Tier 2: ERB Membership Beginning on or after July 1, 2010, but prior to July 1, 2013

- * "30 and Out" Earned service credits + allowed service credits = 30 or more years. There is no minimum age required.
- * "Rule of 80" Your age + earned service credits = 80 or more. As with the Rule of 75, allowed service credits are used to calculate retirement benefit but do not count toward eligibility. There are permanent and significant reductions if you are under age 65, and even more if you are under age 60.
- * "67 and 5" If you are at least 67 years old and have at least five years of earned service credit, you are eligible for retirement.

Tier 3: ERB Membership Beginning on or after July 1, 2013

- * Same retirement eligibilities as immediately above. If member receives pension benefit before age 55 with 30 and Out retirement eligibility, benefit will be actuarially reduced.
- * Cost of Living Adjustment (COLA) begins at age 67 or on July 1 of the year following member's effective retirement date, whichever is later.

ERB Retirement Eligibility – Benefit Structure

ERB Benefit Structure

- * Final average salary (FAS) x service credit x .0235 = annual benefit
- * Cost Of Living Adjustment (COLA) available on July 1 of the year in which you reach age 65 or on July 1 of the year following member's effective retirement date, whichever is later for Tier 1 and Tier 2 members. For Tier 3 members, COLA begins at age 67 or on July 1 of the year following member's effective retirement date, whichever is later. The amount depends on the annual change in the Consumer Price Index (CPI). The average COLA over time has been 2%. COLA was reduced as part of the 2013 sustainability bill until ERB is 100% funded.
- * Five year vesting period
- No minimum retirement age (with exception of reductions in Rule of 75 and Rule of 80)

Examples of retirement percentage rates:

25 years x .0235 = 58.75%30 years x .0235 = 70.5% 35 years x .0235 = 82.25%



History of ERB Retirement Benefits

SAME SAME SAME retirement benefit. Begins after 4 years of retirement. SAME retirement benefit. Begins after 4 years of retirement.						
1965	YEAR	RETIREMENT ELIGIBILITY	MULTIPLIER	COLA		
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				reduction.		
ERB Funding=100%				ERB Funding=100%		
COLA reductions cease				COLA reductions cease.		



ERB Schedule of Contribution Rates

Fiscal Year	wage category	Date Range	Member Rate	Employer Rate	Total	% Employee Pays
58-59		7/1/1957 -6/30/1959	3.00%	4.00%	7.00%	42.86%
60-74		7/1/1959 -6/30/1974	4.00%	6.50%	10.50%	38.10%
75-79		7/1/1974 -6/30/1979	5.50%	6.50%	12.00%	45.83%
80-81		7/1/1979 -6/30/1981	6.50%	6.50%	13.00%	50.00%
82-84		7/1/1981 -6/30/1984	6.80%	6.80%	13.60%	50.00%
85-93		7/1/1984 -6/30/1993	7.60%	7.60%	15.20%	50.00%
94-2005		7/1/1993 -6/30/2005	7.60%	8.65%	16.25%	46.77%
2006		7/1/2005 -6/30/2006	7.675%	9.40%	17.075%	44.95%
2007		7/1/2006 -6/30/2007	7.75%	10.15%	17.90%	43.30%
2008		7/1/2007 -6/30/2008	7.825%	10.90%	18.725%	41.79%
2009		7/1/2008 -6/30/2009	7.90%	11.65%	19.55%	40.41%
2010 & 2011	\$20k or less	7/1/2009 -6/30/2011	7.90%	12.40%	20.30%	38.92%
2010 & 2011	Over \$20K	7/1/2009 -6/30/2011	9.40%	10.90%	20.30%	46.31%
2012	\$20k or less	7/1/2011 - 6/30/2012	7.90%	12.40%	20.30%	38.92%
2012	Over \$20K	7/1/2011 - 6/30/2012	11.15%	9.15%	20.30%	54.93%
2013	\$20k or less	7/1/2012 - 6/30/2013	7.90%	12.40%	20.30%	38.92%
2013	Over \$20K	7/1/2012 - 6/30/2013	9.40%	10.90%	20.30%	46.31%
2014	\$20k or less	7/1/2013 - 6/30/2014	7.90%	13.15%	21.05%	37.53%
2014	Over \$20K	7/1/2013 - 6/30/2014	10.10%	13.15%	23.25%	43.44%
2015	\$20k or less	7/1/2014 - future	7.90%	13.90%	21.80%	36.24%
2015	Over \$20K	7/1/2014 - future	10.70%	13.90%	24.60%	43.50%



ERB Contact Information:

Santa Fe

701 Camino de Los Marquez PO Box 26129 Santa Fe, New Mexico 87502 Phone: (505) 827-8030 Fax: (505) 827-1855

Albuquerque

6201 Uptown Blvd. NE, Suite 204 Albuquerque, NM 87110 Phone: (505) 888-1560 Fax: (505) 830-2976

Toll Free: 1-866-691-2345 Member Help Email: <u>ERB-MemberHelp@state.nm.us</u> Website: www.nmerb.org

