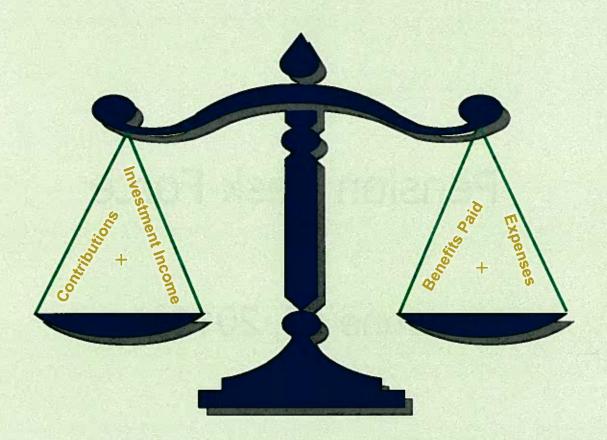
Pension Task Force

June 16, 2011



Universal Retirement Funding Equation



Contributions + Investment Income = Benefits Paid + Expenses



Objectives of Actuarial Valuation

- Determine contribution based on funding policy
 - Fund benefits over members' worklife
 - Upon retirement, disability, termination, benefit is funded for the member
- Check on progress and security of promised benefits
 - Comparison of actuarial assets to accrued liability, or the funded ratio
 - Review and understand the trend of the funded ratio
- Measure net actuarial gain or loss
 - Comparison of actual experience to expected
 - Understand the underlying reasons for the actuarial gain or loss



Actuarial Valuation Process

INPUT

- Membership Data
- Benefit Provisions
- Asset Data
- Actuarial Assumptions
- Funding Methodology

ACTUARIAL PROJECTION MODEL

OUTPUT

- Unfunded Accrued Liability
- Funded Status
- Employer Contribution



Actuarial Assumptions

Demographic

 Service retirement 		Early Retirement		
0	Disability retirement	Withdrawal (termination)		

Death in active service Death after retirement

Economic

Rate of return	8.5%
Inflation	3.0%

□ Salary <u>Career</u>

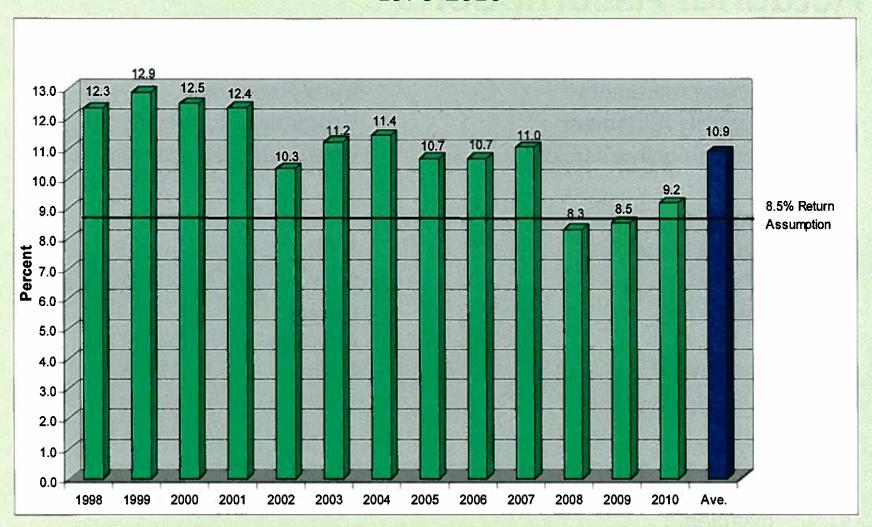
	Average	AID
General	4.6%	3.0%
Police and fire	5.5%	3.0%

* Across-the-board increase assumptions used to project current salaries for the position a duty disabled member held before becoming disabled.



ATD*

ERS 20 Year Period Rolling Investment Returns 1978-2010





Actuarial Methods

- Once you know how much to fund, Actuarial
 Methods determine how you will fund Demographic
- Many Components
 - Cost method Allocates total costs to past, current and future
 - Actuarial accrued liability past service
 - Normal Cost current years service
 - Amortization method level percent of pay over 24 years as of January 1, 2010
 - Actuarial Value of assets 5 year smoothed with a 20% corridor
- Choice of components is a balance between
 - Responsiveness to actuarial experience
 - Contribution stability
- Annual employer contribution is the sum of normal cost plus an adjustment for the amount of assets you have to cover your actuarial accrued liability

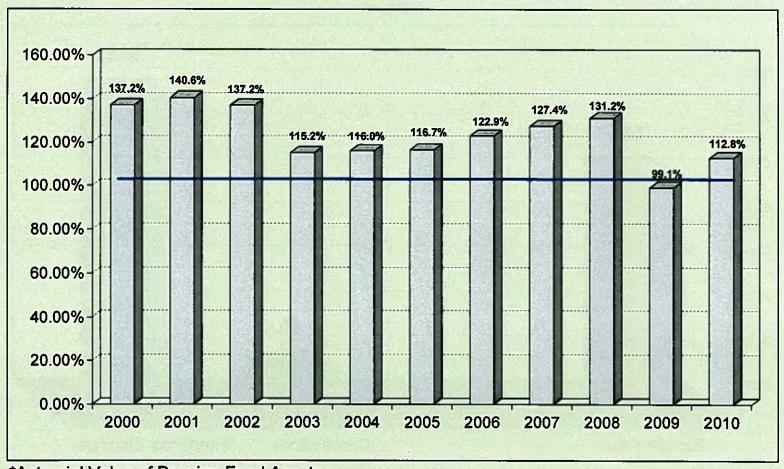


Core Actuarial Valuation Results

Item		2009	-14	2010
Assets:				
Market Value of Assets Market Adjustment	\$	3,399,793 676,504	\$	4,020,640 793,762
Actuarial Value of Assets	\$	4,076,297	\$	4,814,402
Normal Cost:	0.10		2100	
Total	\$	84,773	\$	86,966
Estimated Member Contributions		33,863	200	34,919
Employer Normal Cost	\$	50,910	\$	52,047
Liabilities:				
Actuarial Accrued Liability				
Annuitants	\$	2,527,962	\$	2,637,961
Inactive Members	15-19-18-1			
Member Contributions		68,083		67,978
Employer Financed Portion		27,020		24,205
Active Members			1100	
Member Contributions		465,116		483,627
Employer Financed Portion		1,024,908		1,055,553
Total Actuarial Accrued Liability	\$	4,113,089	\$	4,269,324



City Employes' Retirement System Year End Funded Ratio* Analysis

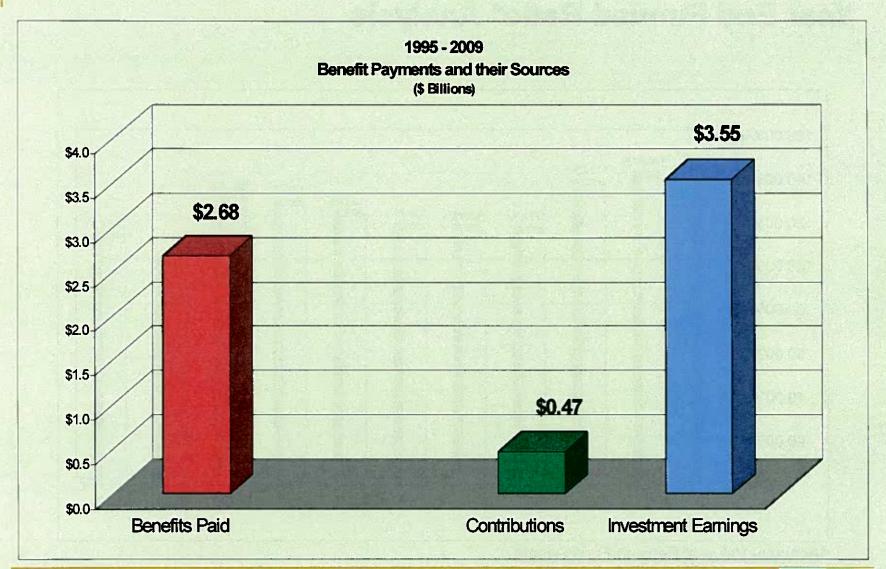


*Actuarial Value of Pension Fund Assets

PV of Accumulated Plan Benefits

Source: City of Milwaukee Employes' Retirement System



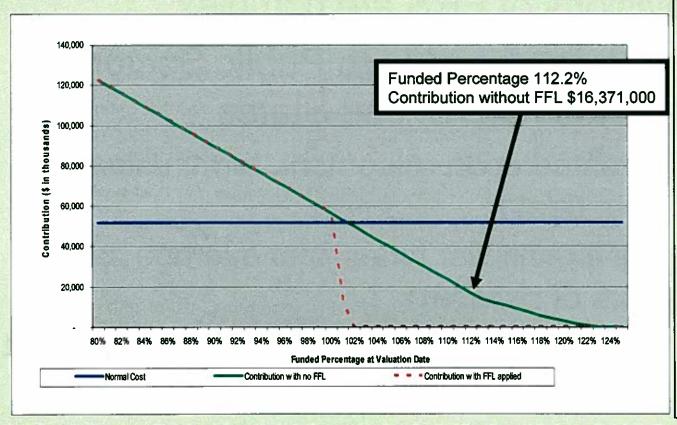




City of Milwaukee Employes' Retirement System

Combined Fund contributions under various funded statuses as of January 1,

2010: With and without the full funding limit



electric -		Contribution		
		with FFL	Contribution	
unded %	Normal Cost	applied	with no FFL	
80%	51,806	122,667	122,667	
61%	51,806	119,363	119,363	
82%	51,806	116,059	116,059	
83%	51,806	112,756	112,756	
84%	51,806	109.452	109,452	
85%	51,806	106,148	106,148	
86%	51,806	102,844	102,844	
87%	51,806	99,541	99,541	
88%	51,806	96,237	98,237	
89%	51,806	92,934	92,934	i
90%	51,806	89,629	89,629	
91%	51,806	86,327	86,327	
92%	51,806	83,022	63,022	
93%	51,806	79,719	79,719	
94%	51,806	76 414	76,414	
95%	51,806	73,111	73,111	
96%	51,806	69,806	69,806	
97%	51,806	66,505	66,505	
98%	51,806	63,200	63,200	ı
99%	51,806	59.898	59,898	
100%	51,806	56,593	56,593	
101%	51,806	12,189	53,288	
102%	51,806		49,986	
103%	51,806	me Kent	46,681	
104%	51,806		43,379	
105%	51,806		40,074	ı
106%	51,806	-	36,771	
107%	51,806		33,466	
108%	51,806		30,163	
109%	51,806		26,658	
110%	51,806		23,557	ı
111%	51,806		20,251	
112%	51,806		16,949	
113%	51,806		13,922	
114%	51,806		12,298	
115%	51,806		10,673	ı
116%	51,806		9,048	
117%	51,806		7,422	ı
118%	51,806		5,798	ŀ
119%	51,806		4,172	
120%	51,806	18 M.	2,837	
121%	51,806	Alandari -	1,820	
122%	51,806		804	ı
123%	51,806			ı
124%	51,806			
125%	51,806		OFFE TA	ı

Note: Contributions described above do not include the members' portion that the city contributes on their behalf.



ERS Provisions

- The provisions of ERS are complex
- Structure is comparable to Public Sector benefits across the United States
 - Benefit granted upon retirement, termination, disability or death
 - Amount is a multiplier times final average salary times years of service
 - Pension escalator varies depending on retirement date and eligible group



Summary of ERS Benefits

General City Employees

- Service Retirement age 60 or Age 55 with 30 years service = Years of Service x 2% Final Average Salary plus COLA; ex. Elected officials (2.6% for service prior to 1996 and 2.5% thereafter; 2% for the Mayor)
- Early Retirement (reduced benefit) age 55 with 15 Years Service or deferred vested status
- Employee Contributions 5.5% of covered wages "picked-up" by employer under IRC
 Section 414(h); except certain new hires after 1/1/2010 have pre-tax payroll deductions; 7% for elected officials

Fire Fighters And Police Officers

- Service Retirement Allowance FF age 57; Age 49 with 22 Years of Service = Years of Service x 2.5% Final Average Salary plus COLA
- Service Retirement Allowance Police age 57; 25 Years of Service at any age = Years of Service x 2.5% Final Average Salary plus COLA
- Employee contributions 7% of covered wages "picked—up" by employer under IRC Section 414(h)

Ancillary Benefits

- Disability (duty and non-duty related) benefit levels
- Death (duty and non-duty related) benefits



Cost "Levers"

- Short term, costs can temporarily be driven by assumptions and methods
 - Assumptions and methods reviewed every five year
 - Next experience review before 2013 valuation
- Long term, costs driven by
 - Composition of your group
 - Underlying benefit provisions



Cost "Levers"

- Retirement age
- Multiplier
- Pension escalators
- Final Average Earnings period
- Disability benefits (for public safety)
- Death benefits
- Termination benefits



Cost "Levers"

- Impact of changes not immediate
 - Changes are either for future service or more likely, future hires
- Of \$4.3 billion in actuarial accrued liability,
 - \$2.6 billion is for current retirees
 - Generally locked in cost
 - \$1.7 billion is for actives
 - May be able to impact in the future.
- Normal cost of \$86 million can be reduced over time
 - Immediate if changes are for future service
 - Over a generation if changes are for future hires

