

Wisconsin Retirement System

2008 Gain/Loss Analysis

September 2009





A Gain/Loss Analysis measures differences between actual and assumed experience in each Risk Area.





WRS Assumption Risk Areas

Demographic

Normal retirement

Early retirement

Death-in-service

Disability

Other separations

Economic

Salary increases

Investment return

There are other risk areas, but they are not germane to the Gain/Loss Analysis.



Why Have A Gain/Loss Analysis?

- It is a year-by-year measure of the operation of assumptions
- To understand the nature of risk
- To determine when assumption changes are needed
- To gain an understanding of reasons for contribution rate changes





Components of Total Gain/Loss

	Gain/Loss in Millions			
	2007	2008		
Economic Risk	\$1,057	\$(956)		
Decrement Risk	(21)	(13)		
Other Activity	(242)	(158)		
Total Gain (Loss)	\$ 794	\$(1,127)		
Effect of Assumption Changes	0	0		
Net Gain/(Loss)	\$ 794	\$(1,127)		
(see page 9)				





Investment Earnings in 2008 (Active Participants)

A. Average balance on Participant andEmployer Accumulation Reserves \$38,984

B. Expected earnings: 7.8% 3,041

C. Earnings credited to Participant andEmployer Accumulation Reserves 352

D. Gain (loss) from earnings: C - B \$ (2,689)

(see page 12)





Investment Earnings in 2008 (Active Participants)

- \$2,689 million is total asset loss for the year
- However, part of the total loss is allocated to Variable Excess accounts
- Some of the loss flows through to members via the operation of Money Purchase minimum benefits
- Must net these out to determine remaining core fund gain or loss
- Remaining portion affects contribution rates





Investment Earnings in 2008 (Active Participants)

\$ Millions

Gross Loss for the Year

\$(2,689)

Less Estimated Loss Due to

Money Purchase and Variable

Excess Effects

(1,662)

Net Core Fund Asset Loss

\$(1,027)

(see page 12)





Salary Related Gain/Loss

Pay increases varied among groups producing a gain in total.

	Gain (Loss)	% of		
	\$ Millions	Liabilities		
General	\$66.3	0.2 %		
Exec. & Elected	(1.3)	(0.4)%		
Prot. w/Soc. Sec.	4.6	0.1 %		
Prot. w/o Soc. Sec.	1.6	0.2 %		
	\$71.2	0.2 %		

(see pages 9, 11)





Population Development During 2008

	_	Actual	Expected
Beginning Census		261,003	
(-)	Normal Retirement	3,162	3,824
(-)	Early Retirement	3,167	3,875
(-)	Death	318	286
(-)	Disability Retirement		
	- Total Approved	183	330
	- Less Pending	59	
	- Net New	124	•
(-)	Other Separations	10,970	10,667
(-)	Transfers Out	1,224	
(+)	Transfers In	1,224	
(+)	New Entrants	19,924	
Endir	ng Census	263,186	

(see page 4)





Population Development During 2007

Normal Retirements: Varied by group and gender, overall fewer normal retirements than expected.

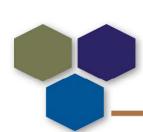
Early Retirements: Less than assumed in most groups, overall producing a small loss.

Death: Higher than expected, producing small loss.

Disabilities: Less than expected, producing a gain in all groups.

Other Separations: Varied by group, gender and service. Other separations among short service participants were higher than expected, among longer service participants less than expected. The net result was a loss.





Comparative Schedule of Experience Gains/(Losses)

Divisions Combined

	2007		2008	
Normal Retirement	\$	4.9	\$	2.2
Early Retirement		(8.1)		(2.0)
Disability Retirement		13.5		(2.0)
Death		(2.9)		23.4
Other Separations		(28.4)		(34.5)
Total	\$	(21.0)	\$	(12.9)
As % of Liabilities		<0.1%		<0.1%

(see page 9)





Gain/Loss Analysis-2008 Experience







Explanation of Gain or Loss Due to "Other" Risk Areas

- Primarily due to difference between actual and expected reserve transfers difference between what we estimate a benefit to be versus what is actually calculated at time of retirement
- Re-established liability is unexpected liability from new or rehired employees with prior service
- Remaining unexplained loss is very small in relative terms (0.1% of accrued liabilities)





How Does Gain/Loss Affect the Total Contribution Rate?

- Normal cost contribution for all groups increased from the prior year
- Total net loss of \$1,127 million primarily due to unfavorable investment performance





Funding Value of Assets (\$ millions)

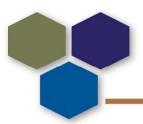
	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
Market value BOY	\$80,432	\$ -	\$ -	\$ -	\$ -
Market value EOY	57,334	-	-	-	-
Funding Value Beginning of Year	75,701				
Net External Cash Flow	(2,078)				
Investment income					
 Actual Investment Income 	(21,021)	-	-	-	-
 Expected Investment Income 	5,824	-	-	-	-
Amount for phase-in	(26,845)	-	-	-	-
Phased-in recognition					
Current year	(5,369)	-	-	-	-
First prior year	212	(5,369)	-	-	-
Second prior year	1,065	212	(5,369)	-	-
Third prior year	86	1,065	212	(5,369)	-
Fourth prior year	518	86	1,065	212	(5,369)
 Total MRA recognition 	(3,488)	(4,006)	(4,092)	(5,157)	(5,369)
Funding Value End of year	75,959				
Market Value ROR - Actual	(30.1)%				

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Concluding Remarks

- Recognition of prior asset losses are expected over next few years – upward pressure on contribution rates
- This Gain/Loss Analysis is the third in a regular 3-year experience cycle
- This study together with the 2006 and 2007 study will form the basis for the next experience study
- The next experience study will be reported in December 2009 and implemented in the December 31, 2009 valuations



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