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milliman.com

January 16, 2013

### PERSONAL & CONFIDENTIAL

Mr. Theodore Przybyla Finance Director Town of Coventry 1670 Flat River Road Coventry, RI 02816

Re: Coventry Municipal Employees Retirement Plan

Dear Ted:

At your request, we have performed an actuarial valuation of the Coventry Municipal Employees Retirement Plan as of July 1, 2012 for the Fiscal Year ending June 30, 2014. The results of the valuation are contained in the following report.

Respectfully submitted,

MILLIMAN INC.

Steve A. Lemanski, FSA, FCA

Consulting Actuary

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ACTUARIAL VALUATION
As of July 1, 2012
For Fiscal Year ending June 30, 2014

# TABLE OF CONTENTS

<u>SECTION</u>			<u>PAGE</u>
	CE	RTIFICATION	1
I	EXI	ECUTIVE SUMMARY	
	<b>A.</b>	Highlights	3
	В.	Summary of Principal Results	7
II	<b>PL</b> A	AN ASSETS	
	A.	Summary of Fund Transactions	8
	В.	Development of Actuarial Value of Assets	9
	<i>C</i> .	Determination of Asset Gain/(Loss)	10
III	DE	VELOPMENT OF CONTRIBUTION	
	A.	Past Service Cost	11
	В.	Annual Required Contribution	12
IV	AC	COUNTING INFORMATION	
	<b>A.</b>	Schedule of Funding Progress	13
	В.	Schedule of Employer Contributions	14
	<i>C</i> .	Accrued and Vested Benefits	15
	D.	Statement of Changes in Accrued Plan Benefits	16
V	ME	EMBERSHIP DATA	
	A.	Reconciliation of Membership from Prior Full Valuation	17
	В.	Statistics on Active Membership	18
	<i>C</i> .	Distribution of Active Members by Age and Service	19
	D.	Projected Annual Benefit Payments	20
	AP	PENDICES	
	<b>A.</b>	Actuarial Funding Method	21
	В.	Actuarial Assumptions	22
	<i>C</i> .	Summary of Plan Provisions	24

### CERTIFICATION

We have performed an actuarial valuation of the plan as of July 1, 2012 to determine the Town's contribution for the fiscal year ending June 30, 2014. This report presents the results of our valuation.

The ultimate cost of a pension plan is the total amount needed to provide benefits for plan members and beneficiaries and to pay the expenses of administering the plan. Pension costs are met by contributions and by investment return on plan assets. The principal purpose of this report is to set forth an actuarial recommendation of the contribution, or range of contributions, which will properly fund the plan. In addition, this report provides:

- A valuation of plan assets and liabilities to review the year-to-year progress of funding.
- Information needed to meet disclosure requirements.
- Documentation of the current status of plan investments.
- Review of plan experience for the previous year to ascertain whether the assumptions and methods employed for valuation purposes are reflective of actual events and remain appropriate for prospective application.
- Assessment of the relative funded position of the plan, i.e., through a comparison of plan assets and projected plan liabilities.
- Comments on any other matters, which may be of assistance in the funding and operation of the plan.

This report may not be used for purposes other than those listed above without Milliman's prior written consent. If this report is distributed to other parties, it must be copied in its entirety, including this certification section.

Milliman's work is prepared solely for the internal business use of the Town. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exception(s): (a) the Town may provide a copy of Milliman's work, in its entirety, to the Town's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the Town; and (b) the Town may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law. No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

### **CERTIFICATION**

In preparing this report, we relied on financial information as of the valuation date furnished by the Town of Coventry, Citizens Bank and Merrill Lynch. We performed a limited review of the financial information used directly in our analysis for reasonableness and consistency and have found them to be reasonably consistent and comparable with data used for other purposes. If the financial information is inaccurate or incomplete, the results of our analysis may likewise be inaccurate or incomplete and our calculations may need to be revised. If there are material defects in the data as previously provided by the Town, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable or for relationships that are materially inconsistent. Such a review was beyond the scope of our assignment.

The calculations reported herein have been made on a basis consistent with our understanding of ERISA and the related sections of the tax code. Additional determinations may be needed for purposes other than meeting funding requirements, such as judging benefit security at plan termination or meeting employer accounting requirements. On the basis of the foregoing, we hereby certify that, to the best of our knowledge, this report is complete and accurate and all costs and liabilities were determined in conformance with generally accepted actuarial principles and practices. We further certify that, in our opinion, each actuarial assumption, method and technique used is reasonable taking into account the experience of the Plan and reasonable expectations or would, in the aggregate, result in a total contribution equivalent to that which would be determined if each such assumption, method, or technique were reasonable. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

I am a member of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

MILLIMAN INC.

Steve A. Lemanski, FSA, FCA

Consulting Actuary

Joint Board Enrollment #11-5506

January 16, 2013

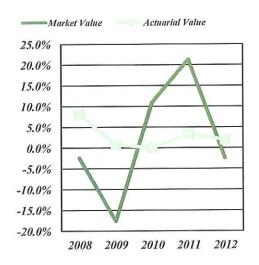
# SECTION I - EXECUTIVE SUMMARY A. Highlights

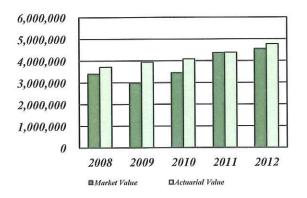
### Assets

There are two different measures of the plan's assets that are used throughout this report. The *Market Value* is a snapshot of the plan's investments on a market value basis as of the valuation date, including accrual adjustments. The *Actuarial Value* is a smoothed asset value designed to temper fluctuations in the market by recognizing investment gains or losses over several years.

	Market	Actuarial
Value as of July 1, 2011	\$4,366,304	\$4,385,296
Contributions	965,826	965,826
Benefits and Expenses	(673,448)	(673,448)
Investment Income	(108,645)	89,952
Value as of July 1, 2012	4,550,037	4,767,626

Historical asset levels are shown in the graph to the right; historical rates of return are shown below.





For the period July 1, 2011 to July 1, 2012, the plan's assets earned -2.41% on a Market Value basis and 1.99% on an Actuarial Value basis. The actuarial assumption for this period was 7.00% per year; the result is a loss of \$447,000 on a Market Value basis and a loss of \$249,000 on an Actuarial Value basis.

Please note that the Actuarial Value currently exceeds the Market Value by \$220,000. This figure represents investment losses that will be gradually recognized over the next five years. This process will exert upward pressure on the Town's contribution, unless there are offsetting market gains.

# SECTION I - EXECUTIVE SUMMARY A. Highlights

Plan	Cha	nges
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None

# Actuarial Assumption Changes

Plan assumptions are consistent with those proposed in the July 1, 2011 Experience Study and also reflected in the updated July 1, 2011 actuarial valuation results.

# **Actuarial Method Changes**

The amortization period was reset to 30 years as of July 1, 2012. The impact of this change was to reduce the Annual Required Contribution for Fiscal Year 2014 by approximately \$201,000.

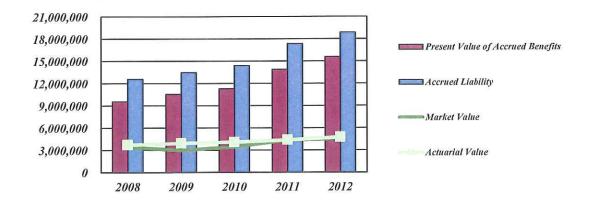
# SECTION I - EXECUTIVE SUMMARY A. Highlights

# **Funded Status**

Two different measures of liability are commonly used to evaluate a plan's funded status:

- Present Value of Accrued Benefits is used for informational purposes and is based on service and payroll as of the valuation date. The liability for accrued benefits can be used as a measure of the funded status of the Plan, and is traditionally compared
- Accrued Liability is used for determining contribution levels. It is based on future payroll
  projections with service credits as of the valuation date. Since it is our funding target, it is
  traditionally compared to the Actuarial Value of Assets.

The following graph shows these key measures for the past several valuations:

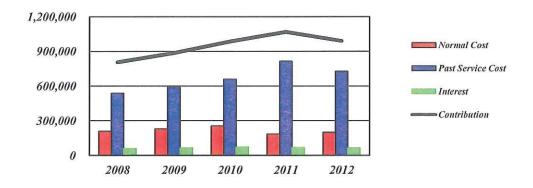


# SECTION I - EXECUTIVE SUMMARY A. Highlights

### Contribution

The contribution consists of three pieces: a *Normal Cost* payment to fund the benefits earned each year, a *Past Service Cost* to gradually reduce any unfunded or surplus accrued liability, and *Interest* to the end of the year. If the plan has a sufficiently large surplus, the Past Service Cost may be large enough to cover the Normal Cost, in which case no contribution is required.

Contribution levels for the current valuation and the past few valuations are shown below.



# SECTION I - EXECUTIVE SUMMARY B. Summary of Principal Results

Valuation Date	July 1, 2011*	July 1, 2012	
For Fiscal Year	2013	2014	
Membership			
Active Members	104	105	
Terminated Vested Members	38	35	
Members in Pay Status	65	67	
Total Covered Payroll	\$5,289,322	\$5,469,059	
Average Covered Payroll	\$50,859	\$52,087	
Assets and Liabilities			
Market Value of Assets	\$4,366,304	\$4,550,037	
Actuarial Value of Assets	4,385,296	4,767,626	
Accrued Liability			
Active Members	10,802,917	11,681,715	
Terminated Vested Members	789,420	938,343	
Members in Pay Status	5,760,017	6,259,204	
Total Accrued Liability	17,352,354	18,879,262	
Unfunded Accrued Liability	12,967,058	14,111,636	
Funded Ratio	25.3%	25.3%	
Annual Required Contribution			
Normal Cost	\$184,494	\$199,327	
Past Service Cost	813,813	726,957	
Interest	69,881	64,840	
Total Contribution	1,068,188	991,124	
Contribution as a Percent of Covered Payroll	20,20%	18.12%	

 $<sup>* \</sup> Reflects \ adoption \ of \ actuarial \ assumptions \ as \ proposed \ in \ the \ 2011 \ Experience \ Study$ 

# SECTION II - PLAN ASSETS A. Summary of Fund Transactions

	Market Value
Balance, July 1, 2011	\$4,366,304
Employer Contributions	559,077
Employee Contributions	406,749
Benefit Payments	(642,733)
Cash Refunds	0
Expenses	(30,715)
Miscellaneous	0
Investment Income	(108,645)
Balance, June 30, 2012	4,550,037
Approximate Investment Return	-2.41%

# SECTION II - PLAN ASSETS

# B. Development of Actuarial Value of Assets

In order to minimize the impact of market fluctuations on the contribution level, we use an Actuarial Value of Assets that recognizes gains and losses over a five year period. The Actuarial Value of Assets as of July 1, 2012 is determined below.

1. Expected Market Val	ue of Assets:			
a. Market Value of A	Assets as of July 1, 20	11		\$4,366,304
b. Employer and Em	ployee Contributions			965,826
c. Benefits and Expe				(673,448)
-	ent Return Based on	7.00% Interes	st	338,107
e. Expected Market				4,996,789
(a) + (b) + (c) + (d)		<b>,</b> -, ···		, ,
	,			
2. Actual Market Value	of Assets as of July	1, 2012		4,550,037
3. Market Value Gain/(	Loss): (2) - (1e)			(446,752)
<ol><li>Delayed Recognition</li></ol>	of Market Gains/(Lo	sses):		
		Percent	Amount	
Plan Year End	Gain/(Loss) Not	Recognized	Not Recognized	
06/30/2012	(\$446,752)	80%	(\$357,402)	
06/30/2011	470,969	60%	282,581	
06/30/2010	90,797	40%	36,319	
06/30/2009	(895,435)	20%	(179,087)	
				(217,589)
5. Actuarial Value as of	f July 1, 2012: (2) - (	4)		4,767,626
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# SECTION II - PLAN ASSETS C. Determination of Asset Gain / (Loss)

The asset gain/(loss) is the difference between the expected and actual values of the Actuarial Value of Assets. The asset gain/(loss) for the fiscal year ending June 30, 2012 is determined below.

<ol> <li>Expected Actuarial Value of Assets:         <ul> <li>a. Actuarial Value of Assets as of July 1, 2011</li> <li>b. Employer and Employee Contributions</li> <li>c. Benefits Paid</li> <li>d. Expected Investment Return Based on 7.00% Interest</li> <li>e. Expected Actuarial Value of Assets as of July 1, 2012</li></ul></li></ol>	\$4,385,296 965,826 (673,448) 339,015 5,016,689
2. Actual Actuarial Value of Assets as of July 1, 2012	4,767,626
3. Asset Gain/(Loss): (2) - (1e)	(249,063)
4. Approximate Net Rate of Return	1.99%

# SECTION III - DEVELOPMENT OF CONTRIBUTION A. Past Service Cost

For determining the past service cost/(credit), the Unfunded Accrued Liability/(Surplus) is amortized over a 30 year period starting on July 1, 2012. The amortization method produces payments that will remain a level percent of payroll.

	July 1, 2011	July 1, 2012
1. Accrued Liability		
Active Members	10,802,917	11,681,715
Terminated Vested Members	789,420	938,343
Members in Pay Status	5,760,017	6,259,204
Total Accrued Liability	17,352,354	18,879,262
2. Actuarial Value of Assets (see Sec. II B)	4,385,296	4,767,626
3. Unfunded Accrued Liability/(Surplus)	12,967,058	14,111,636
4. Amortization Period (in years)	22	30
5. Amortization Method	Level Percent	Level Percent
<ul><li>6. Past Service Cost/(Credit):</li><li>(3) amortized over (4)</li></ul>	813,813	726,957

# SECTION III - DEVELOPMENT OF CONTRIBUTION B. Annual Required Contribution

The development of the Annual Required Contribution is shown below, with the results from the prior valuation shown for comparison.

Valuation Date	July 1, 2011	July 1, 2012
For Fiscal Year	2013	2014
1. Total Normal Cost	\$519,264	\$546,933
2. Expected Employee Contributions	365,670	379,206
3. Expected Expenses	30,900	31,600
4. Net Normal Cost: (1) - (2) + (3)	184,494	199,327
5. Past Service Cost (see Sec. III A)	813,813	726,957
6. Interest on $(4) + (5)$ to end of fiscal year	69,881	64,840
<ul><li>7. Annual Required Contribution:</li><li>(4) + (5) + (6)</li></ul>	1,068,188	991,124
8. Covered Payroll	5,289,322	5,469,059
9. Contribution as a % of Payroll: (7)/(8)	20.20%	18.12%

SECTION IV - ACCOUNTING INFORMATION
A. Schedule of Funding Progress

	(t)	(2)	(3)	( <del>4</del> )	(S)	(6) UAAL as a
Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Unfunded AAL (UAAL) (2) - (1)	Funded Ratio (I) / (2)	Covered Payroll	Percentage of Covered Payroll (3) / (5)
July 1, 2008	\$3,720,455	\$12,588,606	\$8,868,151	29.6%	\$5,191,786	170.8%
July 1, 2009	3,943,263	13,481,036	9,537,773	29.3%	5,275,025	180.8%
July 1, 2010	4,087,545	14,405,245	10,317,700	28.4%	5,486,026	188.1%
July 1, 2011*	4,385,296	17,352,354	12,967,058	25.3%	5,289,322	245.2%
July 1, 2012*	4,767,626	18,879,262	14,111,636	25.3%	5,469,059	258.0%

<sup>\*</sup> Reflects adoption of actuarial assumptions as proposed in the 2011 Experience Study

This work product was prepared solely for the Town of Coventry for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work.

# SECTION IV - ACCOUNTING INFORMATION B. Schedule of Employer Contributions

Fiscal Year	Annual Required Contribution	Actual Contribution	Percent
Ending	Contribution	Contribution	Funded
2009	\$806,558	\$550,000	68%
2010	806,558	550,000	68%
2011	887,077	442,837	50%
2012	986,087	559,077	57%
2013	1,068,188	-	-
2014	991,124	<u></u>	-

# SECTION IV - ACCOUNTING INFORMATION C. Accrued and Vested Benefits

The actuarially computed Value of Benefits represents the present value of (a) the benefits based on service to date expected to become payable at future dates to present employees, (b) the benefits expected to become payable to former employees who have terminated service with vested rights or who have become inactive, and (c) the benefits currently payable to retired participants and beneficiaries.

	July 1, 2011*	July 1, 2012
1. Value of Vested Benefits		
Active Members	6,970,117	\$8,178,658
Terminated Vested Members	789,420	938,343
Members in Pay Status	5,760,017	6,259,204
Total Value of Vested Benefits	13,519,554	15,376,205
2. Value of Non-Vested Benefits	374,020	209,471
3. Total Value of Accrued Benefits: (1)+(2)	13,893,574	15,585,676
4. Market Value of Assets	4,366,304	4,550,037
5. Vested Funded Ratio: (4)/(1)	32.3%	29.6%
6. Accrued Funded Ratio: (4)/(3)	31.4%	29.2%

<sup>\*</sup> Reflects adoption of actuarial assumptions as proposed in the 2011 Experience Study

# SECTION IV - ACCOUNTING INFORMATION D. Statement of Changes in Accrued Plan Benefits

Maria de la companya del companya de la companya del companya de la companya de l	** *****
Increase/(Decrease) during 2011 - 2012 attributable to:	
Increase for interest due to the decrease in the discount period	\$950,435
Benefits Accumulated/(Forfeited)	1,384,400
Benefit Payments	(642,733)
Changes in Actuarial Assumptions	0
Plan Amendments	0
Net Increase/(Decrease)	1,692,102
Actuarial present value of accrued plan benefits:	
July 1, 2012	\$15,585,676
July 1, 2011*	13,893,574
Net Increase/(Decrease)	1,692,102

<sup>\*</sup> Reflects adoption of actuarial assumptions as proposed in the 2011 Experience Study

# SECTION V - MEMBERSHIP DATA A. Reconciliation of Membership from Prior Full Valuation

	7	Terminated	In Pay	
	Active	Vested	Status	Total
Count as of July 1, 2011	104	38	65	207
Terminated, paid refund	-	(1)	-	(1)
Terminated, benefits due	-	_	-	-
Retired	(1)	(1)	2	-
Died, with beneficiary	_	-	-	-
Died, no beneficiary	-	(1)	(1)	(2)
New member	2	-	-	2
Rehired	-	-	-	-
Correction	-	-	1	1
Count as of July 1, 2012	105	35	67	207

# SECTION V - MEMBERSHIP DATA B. Statistics of Active Membership

	July 1, 2011	July 1, 2012
Number of Active Members	104	105
Total Annual Compensation	\$5,289,322	\$5,469,059
Average Compensation	50,859	52,087
Average Age	47.5	48.4
Average Service	13.6	14.2

35+

30-34

25-29

20-24

15-19

10-14

5-9

0 40

65+

60-64

55-59

50-54

25-29 30-34 35-39 40-44 45-49

# COVENTRY MUNICIPAL EMPLOYEES RETIREMENT PLAN

C. Distribution of Active Members as of July 1, 2012

				Years of Service	rvice				
Age	0-4	2-9	10-14	15-19	20-24	25-29	30-34	35+	Total
Under 25	0	0	0	0	0	0	0	0	0
25-29	2	3	0	0	0	0	0	0	5
30-34	П	c	$\vdash$	0	0	0	0	0	5
35-39	1	4	33	0	0	0	0	0	∞
40-44	-	4	4	0	0	0	0	0	6
45-49	2	4	7	4	9	0	0	0	23
50-54	2	80	4	7	7	3	0	0	31
55-59	3	Н	2	2	3	0	61	0	13
60-64	0	_	2	0	1	Н	B	-	6
65+	0	-	0	0	1	0	0	0	2
Total	12	29	23	13	18	4	5		105
Distribution By Age	3y Age				Distribution b	Distribution by Years of Service	ээ		
40				Γ	30				
30				1	25				
900					207				П
2					10				
10					5				Т

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# SECTION V - MEMBERSHIP DATA D. Projected Annual Benefit Payments

		Terminated		
Fiscal Year Ending June 30	Active Members	Vested Members	Members In Pay Status	Total
2013	\$72,000	\$23,000	\$644,000	\$739,000
2014	150,000	30,000	629,000	809,000
2015	225,000	34,000	615,000	874,000
2016	301,000	34,000	599,000	934,000
2017	384,000	55,000	582,000	1,021,000
2018	487,000	60,000	561,000	1,108,000
2019	586,000	74,000	543,000	1,203,000
2020	717,000	81,000	524,000	1,322,00
2021	870,000	80,000	505,000	1,455,00

# APPENDIX A - ACTUARIAL FUNDING METHOD

The actuarial funding method used in the cost calculations is the *Entry Age Normal Cost Method*. Recommended annual contributions, until the Accrued Liability is completely funded, consist of two pieces: Normal Cost plus a payment towards the Unfunded Accrued Liability.

The *Normal Cost* is determined by calculating the present value of future benefits for the present active members that will become payable as the result of death, disability, retirement or termination. This cost is then spread as a level percentage of earnings from entry age to termination as an active member.

If Normal Costs had been paid at this level for all prior years, a fund would have been accumulated. Because this fund represents the portion of benefits that would have been funded to date, it is termed the *Accrued Liability*. In fact, it is calculated by adding the present value of benefits for Retired Members and Terminated Vested Members to the present value of benefits for Active Members and subtracting the present value of future Normal Cost contributions.

The Actuarial Value of Assets is determined by recognizing market gains or losses over a five year period.

The *Unfunded Accrued Liability* is equal to the Accrued Liability less the Actuarial Value of Assets. The Unfunded Accrued Liability is amortized over a 30 year period starting on July 1, 2012. The amortization payment is calculated such that it remains a level percentage of payroll.

### APPENDIX B - ACTUARIAL ASSUMPTIONS

Investment Return

7.00%

**Expenses** 

Prior year's actual administrative expenses increased by 3% and rounded to the nearest \$100.

Payroll Growth Rate

3.55%

Salary Increases

Service_	Rate
1	6.80%
2	6.80
3	3.55
4	3.55
5	6.35
6-9	3.55
10	6.10
11-14	3.55
15	5.85
16-19	3.55
20	5.60
21-24	3.55
25	5.35
26 on	3.55

Mortality

RP-2000 Combined Healthy Mortality Table with generational projection per Scale AA, with separate Male and Female tables.

Percent Married

75% of active and terminated vested members are assumed to be married, with husbands assumed to be 3 years older than their wives.

Withdrawal

2003 SOA Small Plan Age Table multiplied by .45:

Age	Rate
20	10.94%
25	8.78
30	6.98
35	5.45
40	4.23
45	3.29
50	2.52
55	1.89

# APPENDIX B - ACTUARIAL ASSUMPTIONS

Disability

1987 Commissioner's Group Disability Table, six month elimination period, separately for males and females:

Age	<i>Male</i>	Female
22	0.0800%	0.1000%
27	0.0890	0.1157
32	0.1050	0.1554
37	0.1370	0.2315
42	0.2020	0.3050
47	0.3560	0.4628
52	0.6620	0.7282
57	1.1870	1.0683
62	1.6710	1.2532

Retirement

Active members are assumed to retire based on the following rates:

Age	Rate
55-58	3%
59	7
60-61	10
62	35
63-64	20
65	40
66-69	30
70	100

### APPENDIX C - SUMMARY OF PLAN PROVISIONS

This exhibit summarizes the major provisions of the Coventry Municipal Employees Retirement Plan. It is not intended to be, nor should it be interpreted as a complete statement of all plan provisions. All eligibility requirements and benefit amounts shall be determined in strict accordance with the plan document itself. To the extent that this summary does not accurately reflect the plan provisions, then the results of this valuation may not be accurate.

Eligibility Municipal employees working in nonuniform classifications.

Eligible members participate on the first day of the month

following date of hire.

Average Compensation The average of total pay received for the five consecutive years

out of the ten latest years which gives the highest average.

Member Contributions All active participants contribute 7% of compensation. Interest is

credited at 5% per year.

Normal Form of Benefit Life Annuity with Modified Cash Refund. Optional forms of

benefit are available on an actuarially equivalent basis.

Vesting 40% after 4 years of service, increasing 5% for each of the next 2

years, then increasing 10% for each of the next 5 years to 100% after 11 years. Members are 100% vested at their Early Retirement Date, Normal Retirement Date, or Disability

Retirement Date.

Normal Retirement Eligibility: Age 62.

Amount: 2% of Average Compensation per year of service.

Early Retirement Eligibility: Age 55 with 10 years of vesting service.

Benefit: Accrued benefit reduced by 6 2/3% for each of the first 5 years and 3 1/3% for each of the next 2 years by which the

member's Early Retirement Date precedes their Normal

Retirement Date.

### APPENDIX C - SUMMARY OF PLAN PROVISIONS

Late Retirement

Eligibility: any age beyond 62.

Benefit: The greater of (a) the accrued benefit as of the member's Late Retirement Date or (b) the accrued benefit as of the member's

Normal Retirement Date increased actuarially.

Disability Retirement

Eligibility: 10 years of service.

Immediate benefit equal to 25% of Average Compensation,

payable until the member's Normal Retirement Date.

Deferred benefit equal to the accrued benefit, starting on the

member's Normal Retirement Date.

Pre-Retirement Survivor

If the member is vested and is married at the time of death, the surviving spouse will receive a benefit equal to 50% of the benefit that would have been payable had the member terminated immediately before death, elected to retire at their earliest retirement eligibility or date of death if later, and elected a 50% joint and survivor annuity. The surviving spouse's benefit is payable starting on the date that would have been the member's

earliest retirement date.

Pre-Retirement Death

Benefit

Return of member contributions with interest.