

City of Fort Collins General Employees' Retirement Plan January 1, 2017 Actuarial Valuation

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March 9, 2017

Retirement Committee Members City of Fort Collins 215 North Mason Street Fort Collins, Colorado 80522

Re: City of Fort Collins General Employees' Retirement Plan - 2017 Actuary's Report

Dear Retirement Committee Members:

As requested, we performed an actuarial valuation of the City of Fort Collins General Employees' Retirement Plan as of January 1, 2017, for the plan year ending December 31, 2017. Our findings are set forth in this actuary's report. This report reflects the benefit provisions in effect as of January 1, 2017.

In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by City staff. This information includes, but is not limited to, plan provisions, participant census data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

All costs, liabilities, rates of interest, and other factors for the Plan have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the Plan and reasonable expectations); and which, in combination, offer our best estimate of anticipated experience affecting the Plan. Further, in our opinion, each actuarial assumption used is reasonably related to the experience of the Plan and to reasonable expectations which, in combination, represent our best estimate of anticipated experience under the Plan.

This valuation report is only an estimate of the Plan's financial condition as of a single date. It can neither predict the Plan's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of Plan benefits, only the timing of Plan contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

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

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Retirement Committee Members March 9, 2017 Page 2

perform an analysis of the potential range of future measurements. The Retirement Committee has the final decision regarding the appropriateness of the assumptions and adopted them at their February 2017 meeting.

Actuarial computations presented in this report are for purposes of determining the recommended funding amounts for the Plan. The calculations in the enclosed report have been made on a basis consistent with our understanding of the Plan's funding requirements and goals. The calculations in this report have been made on a basis consistent with our understanding of the plan provisions described in Appendix B of this report. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

Milliman's work is prepared solely for the use and benefit of the City of Fort Collins General Employees' Retirement Plan ("Plan"). 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):

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- (b) The Plan 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.

The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuary is independent of the Plan Sponsor. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

We respectfully submit the following report, and we look forward to discussing it with you.

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EXECUTIVE SUMMARY

This is a report of our actuarial valuation of the Plan as of January 1, 2017. A summary of our valuation results follows:

1. Overview of Results

The following table summarizes some of the key results of our valuation of the Plan, along with the comparable figures from the prior year valuation.

	January 1, 2017	January 1, 2016
Market Value of Assets (MV)	\$ 43,869,306	\$ 43,050,288
Return on MV of Assets (Prior Year)	5.9%	-0.6%
Discount Rate for Liabilities	6.50%	6.50%
Present Value of Future Benefits	\$ 59,794,045	\$ 59,860,251
Present Value of Future Normal Costs	1,416,278	1,945,262
Actuarial Liability (AL)	\$ 58,377,767	\$ 57,914,989
Funded Ratio (MV / AL)	75.15%	74.33%
Unfunded Actuarial Liability (AL - MV)	\$ 14,508,461	\$ 14,864,701
GASB 67/68 Disclosure Information	December 31, 2016	December 31, 2015
Discount Rate for Liabilities	6.50%	6.50%
Total Pension Liability (TPL)	\$ 58,377,767	\$ 57,914,989
Fiduciary Net Position (FNP)	\$ 43,869,306	\$ 43,050,288
Net Pension Liability (NPL)	\$ 14,508,461	\$ 14,864,701
FNP as a % of TPL	75.15%	74.33%

2. Analyze recent plan experience and select appropriate actuarial assumptions.

To value the Plan, the actuary must predict future events such as investment return, mortality, and rates of termination and retirement by means of "actuarial assumptions." The validity of our valuation depends on how closely future Plan experience follows assumption. Experience different from that assumed gives rise to actuarial gains or losses, which affect future costs.

The actuarial assumptions used in this valuation are stated in Appendix A. The following comments address some of the more important assumptions.

a. Rate of investment return

One of the most important assumptions in an actuarial valuation is the investment return assumption, which represents the expected long-term rate of return on plan assets.

Actuarial Standard of Practice (ASOP) No. 27, Selection of Economic Assumptions for *Measuring Pension Obligations*, provides guidance to actuaries on selecting assumptions for measuring obligations under defined benefit pension plans. Because no one knows what the future holds, the best an actuary can do is to use professional judgment to estimate possible future economic outcomes. These estimates are based on a mixture of past experience, future expectations, and professional judgment. The actuary should consider a number of factors, including the purpose and nature of the measurement, and appropriate recent and long-term historical economic data. However, the standard explicitly advises the actuary not to give undue weight to recent experience.

Recognizing that there is not one "right answer", the standard lays out a general selection process, and then calls for the actuary to select a reasonable assumption. Each economic assumption should individually satisfy this standard. Furthermore, with respect to any particular valuation, each economic assumption should be consistent with every other economic assumption over the measurement period.

Milliman's investment practice has developed a model of expected real returns for various asset classes based on their capital market assumptions. Utilizing this model at December 31, 2016, an inflation assumption of 2.5%, the Plan's current asset allocation and a 20-year time horizon produces a geometric mean return of 5.96%.

b. Withdrawal and retirement rates

Withdrawal rates

The actual number of participants leaving employment during 2016 prior to retirement is zero, compared to one expected to terminate in 2016. Withdrawal experience has been adjusted for terminations that had reached retirement eligibility but not yet commenced, and is summarized in the following table for the last five years:

	2012	2013	2014	2015	2016	Total
Actual	1	1	0	1	0	3
Expected	1	1	1	1	1	5
A/E						60%

We are not recommending any changes at this time for withdrawal, but will continue to monitor this assumption in the future to determine whether any changes are warranted.

Retirement rates

16 active participants actually retired during 2016, compared to ten expected to retire in 2016. Retirement experience from the past five years, adjusted for terminations that had reached retirement eligibility but not yet commenced, is summarized in the following table:

	2012	2013	2014	2015	2016	Total
Actual	13	11	15	17	16	72
Expected	10	11	11	12	10	54
A/E						133%

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We analyzed retirements over the last five plan years, as summarized in our annual assumption review document dated February 6, 2017, and presented at the February 9, 2017 Retirement Committee meeting. The Retirement Committee has adopted the following change in the retirement assumption at January 1, 2017.

Age	Old Assumption	New Assumption
55-60	2%	5%
61	2	10
62-64	10	10
65	40	65
66	40	40
67-68	30	40
69 & Over	100	100

c. Salary increase assumption

The assumed rate of future salary increases used for the valuation of the Plan is a graded table based on age, as shown in Appendix A, which anticipated average salary increases during 2016 of 3.9%. Average salary increases for those participants continuing in covered employment was 2.5%, and the median salary increase was also 2.5%, based on a comparison of actual compensation rates for 2016 and 2017. Although the actual increases for the last few years have been lower than expected, we do not recommend a change at this time, as current economic conditions including inflation and real-wage growth lower than the long-term assumption of 3.5% may have influenced the short-term results. Based on various sources of long-term future expectations we believe the current inflation assumption of 2.5% and real-wage growth assumption of 1.0% remain reasonable. We will continue to monitor this experience.

d. Form of payment assumption

Prior valuations assumed that 30% of participants retiring from active status will elect a lump sum. Analysis of lump sum elections over the last five years produces the following.

	2012	2013	2014	2015	2016	Total
Lump sums	2	4	2	3	1	12
Total exits	13	11	15	17	16	72
% taking a lump sum						17%

As summarized in our annual assumption review document dated February 6, 2017, and presented at the February 9, 2017 Retirement Committee meeting, the Retirement Committee has adopted a change in the lump sum assumption at January 1, 2017 to 15% of participants retiring from active status will elect a lump sum.

The Retirement Committee reviewed and adopted the use of the assumptions for the January 1, 2017 actuarial valuation at their February 2017 meeting, as summarized in our annual assumption review document dated February 6, 2017.

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3. Review the financial effect of experience gains and losses and changes in plan benefits.

Under the entry age normal cost method, an explicit actuarial liability is calculated, and is compared to the actuarial value of assets in order to determine the unfunded actuarial liability (UAL). Actuarial gains and losses on the unfunded actuarial liability can then be measured. The UAL is expected to increase by the normal cost and for interest due to the passage of time each year and is reduced by the amount of contributions made to the Plan. The following table summarizes the change in the UAL during 2016.

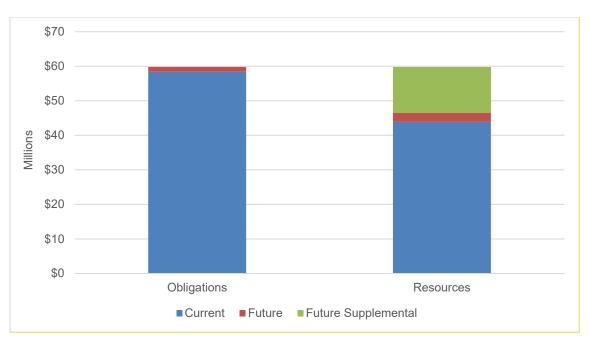
Actual UAL, January 1, 2016: Expected changes during 2016:		\$ 14,864,701 (<u>369,056)</u>		
Expected UAL, January 1, 2017:	\$	14,495,645		
Changes:				
Asset (gain) or loss	\$	247,750		
Salary changes different than assumed		(162,585)		
Pensioner mortality		(105,224)		
Retirement and other Terminations		(76,468)		
Other demographic (gains)/losses		(111,110)		
Change in Retirement Assumption		50,333		
Change in Lump Sum Election Assumption	_	170,120		
Total	\$	12,816		
Actual UAL, January 1, 2017:	\$	14,508,461		

4. Funding Analysis

The City's current funding policy is to contribute 10.5% of compensation for active plan participants, plus a supplemental contribution necessary for the Plan to remain solvent. The supplemental contribution is currently budgeted at \$1.12 million per year.

The following chart compares the obligations of the Plan to the resources available to pay those obligations. The obligations of the Plan are equal to the present value of all benefits projected to be accrued for all current participants through their anticipated termination date. This includes the present value of benefits attributable to service already completed as of the valuation date ("Current"), also known as the Actuarial Liability, as well as the amounts attributable to projected future service for current active participants ("Future"). The resources of the Plan include the value of the assets set aside to pay for the benefits ("Current"), plus the present value of the future expected contributions for participants in the Plan as of the valuation date ("Future") equal to 10.5% of projected future compensation plus the supplemental contribution of \$1.12 million per year.

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The present value of future benefits is \$59.8 million, versus the current market value of assets of \$43.9 million and the present value of future payroll contributions of \$2.6 million. The shortfall of approximately \$13.3 million is anticipated to be funded through the supplemental contribution. This represents approximately 22 years of the \$1.12 million supplemental contribution as of the actuarial valuation date.

If all future experience follows assumptions, there are no changes to assumptions, plan provisions or funding policy, and the policy contributions (including the supplemental contribution) are made each year, the Plan's funded status should improve. In addition, the declining active participant population should result in declining contributions as the compensation base declines.

Highlights of the 2016 plan year

- There were 410 members reported on January 1, 2017, 78 of whom were active members who continue to accrue benefits under the Plan. The remaining 332 were inactive members retaining benefits under the Plan.
- The Plan assets returned 5.9% during the 2016 plan year on a market value basis. The average annual return over the last 23 years is 6.1%. The assumed return for the 2016 plan year was 6.5%.
- At the end of 2016, the market value of assets was \$43,869,306.
- As of January 1, 2017, the ratio of the market value of assets to the actuarial liability was 75.15%.

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VALUATION RESULTS

January 1, 2017 Actuarial Valuation City of Fort Collins General Employees' Retirement Plan

TABLE 1 STATEMENT OF MARKET VALUE OF ASSETS

	December 31, 2016		December 31, 201	
CASH AND CASH EQUIVALENTS		886,597	\$	1,041,214
INVESTMENTS				
US Government Securities	\$	10,977,304	\$	12,061,037
Corporate Bonds		1,611,828		5,220
Mutual Funds		30,351,668		29,905,947
Total	\$	42,940,800	\$	41,972,204
RECEIVABLES				
Employer Contributions	\$	0	\$	0
Accrued Interest and Dividends		42,284		37,126
Total	\$	42,284	\$	37,126
LIABILITIES				
Expenses and Benefits Payable	\$	375	\$	256
Investment Transaction		0		0
Total	\$	375	\$	256
TOTAL MARKET VALUE OF ASSETS	\$	43,869,306	\$	43,050,288

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TABLE 2
CHANGE IN MARKET VALUE OF ASSETS

	2016	2015
Market value at end of prior year	\$ 43,050,288	\$ 45,722,416
Income:		
Contributions	\$ 1,720,650	\$ 1,830,265
Interest Income	174,318	105,415
Net appreciation/(depreciation)	2,322,530	<u>(379,998)</u>
Total	\$ 4,217,498	\$ 1,555,682
Disbursements:		
Benefit payments:		
Periodic Payments	\$ 3,191,027	\$ 2,766,627
Lump Sum Distributions	176,708	1,438,477
Expenses	30,745	22,706
Total	\$ 3,398,480	\$ 4,227,810
Net income:	\$ 819,018	\$ (2,672,128)
Market value at end of year	\$ 43,869,306	\$ 43,050,288

TABLE 3 INVESTMENT RETURN

Annual Rate of Investment Return						
For One-Ye	ear Period	For Period Ending December 31, 2016				
Ending December 31			Average Annual Rate			
2016	5.9%	1 year	5.9%			
2015	-0.6	2 years	2.6			
2014	6.0	3 years	3.7			
2013	18.7	4 years	7.3			
2012	11.6	5 years	8.1			
2011	-3.1	6 years	6.2			
2010	11.1	7 years	6.9			
2009	20.5	8 years	8.5			
2008	-26.5	9 years	3.9			
2007	12.2	10 years	4.7			
2006	13.6	11 years	5.5			
2005	8.5	12 years	5.7			
2004	9.5	13 years	6.0			
2003	18.8	14 years	6.9			
2002	-9.3	15 years	5.7			
2001	-4.0	16 years	5.1			
2000	-3.5	17 years	4.5			
1999	21.1	18 years	5.4			
1998	8.8	19 years	5.6			
1997	10.5	20 years	5.8			
1996	10.1	21 years	6.0			
1995	13.8	22 years	6.4			
1994	-0.2	23 years	6.1			

* Rates of return for 1999 and earlier as reported by the prior actuary and used without audit.

** Rates of return for 2013 and earlier are net of all expenses. Rate of return for 2014 and later are net of investment expenses only.

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TABLE 4 **ACTUARIAL BALANCE SHEET** AS OF JANUARY 1, 2017

The following table contains information on the actuarial balance sheet: the Plan's resources and requirements. The Plan requirements consist of the actuarial present value of projected plan benefits as of the valuation date. Plan resources consist of plan assets, projected future normal costs and the Plan's unfunded actuarial liability.

REQUIREMENTS

Present Value of Projected Benefits		
Retired Participants		\$ 32,987,654
Vested Inactive Participants		7,376,146
Active Participants Retirement Vested Withdrawal Death Disability Total Active	\$ 17,907,154 214,199 145,617 <u>1,163,275</u>	 <u>19,430,245</u>
Total Present Value of Projected Benefits		\$ 59,794,045
RESOURCES		
Market Value of Assets		\$ 43,869,306
Present Value of Future Normal Costs	1,416,278	
Unfunded Actuarial Liability	 14,508,461	

Total

\$ 59,794,045

TABLE 5 UNFUNDED ACTUARIAL LIABILITY

Actuarial Liability as of January 1, 2017	
Retired Participants and Beneficiaries	\$ 32,987,654
Vested Inactive Participants	7,376,146
Active Participants	18,013,967
Total	\$ 58,377,767
Market Value of Assets	\$ 43,869,306
Unfunded Actuarial Liability as of January 1, 2017	\$ 14,508,461
Expected Unfunded Actuarial Liability on January 1, 2017	
Unfunded Actuarial Liability as of January 1, 2016	\$ 14,864,701
Normal Cost	383,757
Employer Contributions	(1,720,650)
Administrative Expenses	30,745
Interest	937,092
Expected, January 1, 2017	\$ 14,495,645
Changes	
Experience (Gain)/Loss	
Asset (Gain)/Loss 247,750	
Salary (Gain)/Loss (162,585)	
Pensioner Mortality (Gain)/Loss (105,224)	
Retirement and Withdrawal (Gain)/Loss (76,468)	
Other Demographic (111,110)	
Total Experience (Gain)/Loss	(207,637)
Assumption Changes	220,453
Plan Changes	0
Unfunded Actuarial Liability on January 1, 2017	\$ 14,508,461

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TABLE 6 FUNDING ANALYSIS

The current annual budgeted contribution is 10.5% of payroll, plus an additional supplemental contribution of \$1,120,000 per year while the Plan is underfunded. Annual costs of the Plan include the value of benefit accrual allocated to the current year (normal cost) plus a payment towards the Unfunded Actuarial Liability, and includes a provision for administrative expenses paid out of plan assets. The following table shows the development of the anticipated number of years of supplemental contribution necessary to pay off the UAL based on the current annual valuation, if all future experience follows assumptions, there are no changes to assumptions, plan provisions or funding policy, and the policy contributions (including the supplemental contribution) are made each year.

Annual Cost

1. Entry Age Normal Cost	\$	313,286
2. Anticipated Administrative Expenses	_	24,129
3. Total Annual Cost: 1. + 2.		337,415
4. Total Payroll	\$	5,255,224
5. Annual Cost as a Percentage of Payroll: 3. ÷ 4.		6.42%
Percent of Payroll Contribution		
6. Percent of Payroll Contribution Rate		10.50%
7. Present Value of Future Salary	\$	25,192,239
8. Present Value of Future Payroll Contributions: 6. x 7.	\$	2,645,185
9. Present Value of Future Normal Costs	_	<u>1,416,278</u>
 Present Value of Payroll Contributions in excess of Normal Cost, available to fund UAL: 8 9. 	\$	1,228,907
Unfunded Actuarial Liability (UAL)		
11. UAL at January 1, 2017	\$	14,508,461
 Present Value of Payroll Contributions in excess of Normal Cost, available to fund UAL: Line 10. above 	_	1,228,907
13. Net UAL to be funded by Supplemental Contributions: 11 12.	\$	13,279,554
Supplemental Contribution		
14. Budgeted Annual Supplemental Contribution	\$	1,120,000
15. Anticipated Annual Administrative Expenses		24,129
16. Net Annual Supplemental Contribution to fund UAL: 14 15.	\$	1,095,871
Number of Years of Supplemental Contribution (as a Flat Dollar Amount) Necessary to Fund UAL		22

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TABLE 7
HISTORICAL STATISTICS

	2017		2016	2015		2014		2013
Assets								
Market Value of Assets Market Value Return Present Value of Projected	\$ 43,869,30 5.9%		\$ 43,050,288 -0.6%	\$ 45,722,4 6.0		\$ 44,692,556 18.7%	\$ 3	39,489,447 11.6%
Benefits								
For retirees and beneficiaries	\$ 32,987,65	1	\$ 29,416,757	\$ 25,057,1	00 \$	\$ 21,608,789	\$	18,850,712
For terminated vested participants	7,376,14	6	8,310,826	8,522,8	60	8,473,138		9,217,906
For active participants Total	<u>19,430,24</u> \$ 59,794,04		<u>22,132,668</u> \$ 59,860,251	<u>26,532,1</u> \$60,112,1		28,678,500 558,760,427		<u>29,279,641</u> 57,348,259
Actuarial Liability	\$ 58,377,76		\$ 57,914,989	\$ 57,796,3		56,182,808		54,682,992
Participant Statistics	φ 50,577,70		\$ 57,914,909	\$ 57,790,5		5 50, 102,000	ψ,	54,002,992
Retired Participants								
Number	23	3	222	2	05	190		185
Average Monthly Benefits	\$ 1,16	-	\$ 1,124	\$ 1,0			\$	927
Vested Inactive Participants								
Number	9		103		13	121		129
Average Monthly Benefits	\$ 83	1	\$ 857	\$8	38 \$	8 810	\$	861
Active Participants								
Number of Participants	7	-	95		13	128		140
Average Compensation Average Years of Service	\$ 67,37 26.		\$ 65,172 25.9	\$ 64,6 2	61 \$ 5.7	64,085 25.3	\$	63,104 24.7
Average Age	59.	3	59.3	59	9.0	58.6		57.9
Actuarial Assumptions		_	00.0	0.		00.0		01.0
Interest	6.50%	, 0	6.50%	6.50)%	6.50%		6.80%
Salary Growth	Tabl		Table	Ta		Table		Table
Mortality Table Utilized	RP-2000	;	RP-2000;	RP-200)0;	RP-2000;		RP-2000;
	Pro		Proj.		oj.	Proj. 2021		Proj. 2021
	Generational	y (Generationally	Generation	ally			

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TABLE 8 TWENTY-YEAR PROJECTION OF BENEFIT PAYMENTS

The following table provides a projection of benefit payments over the next twenty years. This can be useful for the investment manager in planning future liquidity requirements.

Plan Year	Estimated Annual Benefit Payments
2017	4,201,000
2018	4,212,000
2019	4,505,000
2020	4,558,000
2021	4,798,000
2022	4,861,000
2023	5,042,000
2024	4,960,000
2025	5,020,000
2026	4,945,000
2027	5,000,000
2028	4,891,000
2029	4,834,000
2030	4,664,000
2031	4,584,000
2032	4,497,000
2033	4,326,000
2034	4,125,000
2035	3,935,000
2036	3,792,000

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APPENDIX A ACTUARIAL PROCEDURES AND ASSUMPTIONS

The actuarial assumptions used in the valuation are intended to estimate future experience affecting projected benefit flow and investment earnings. Any variations in future experience from that expected from these assumptions will result in corresponding changes in the estimated costs of the plan's benefits.

The tables in this section give rates of decrement, referred to in actuarial notation by the general symbol "q'." The underlying theory is described more fully in Jordan, *Life Contingencies*, Society of Actuaries (Second Edition, 1967), page 277. Any age referred to in a table is always the age of the person at his or her nearest birthday.

An annual assumption review was performed based on data through 2016, as documented in our annual assumption review document dated February 6, 2017. The assumptions used in this valuation are based on the recommendations from that report, as approved by the Retirement Committee at their February 9, 2017 meeting.

Actuarial Cost Method

The actuarial cost method we use to calculate the funding requirements of the Plan is called the *entry age normal cost method*.

Under this cost method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit age. The portion of the actuarial present value of the projected benefits allocated to all service prior to the valuation date is called the Actuarial Liability. The portion of this actuarial present value of projected benefits allocated to a valuation year is called the Normal Cost.

Asset Valuation Method

The actuarial value of assets is equal to the market value.

Investment Earnings

6.50% per annum, compounded annually net of investment-related expenses.

The investment return assumption was selected based on the Plan's asset allocation and capital market assumptions from several sources, including published studies summarizing the expectations of various investment experts. This information was then used to develop forward looking long-term expected returns, producing a range of reasonable expectations according to industry experts. Based on the resulting range of potential assumptions, in our professional judgement the selected investment return assumption is reasonable and is not expected to have any significant bias.

COLA

None.

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Wage Increase

3.50%

Earnings Progression

Annual salary increases are based on a table graded by age, as displayed below:

	Percentage Increase at Age						
Age	Inflation	Productivity	Merit	Total			
40	2.5%	1.0%	1.0%	4.5%			
45	2.5	1.0	0.8	4.3			
50	2.5	1.0	0.7	4.2			
55	2.5	1.0	0.5	4.0			
60	2.5	1.0	0.2	3.7			
65+	2.5	1.0	0.1	3.6			

Retirement

The following table sets forth the probability of retirement according to age.

Age	Probability of Retirement
55-60	5%
61-64	10
65	65
66-68	40
69 & Over	100

Deferred Vested participants were assumed to retire at age 65.

Disablement

Graduated rates are used. See table below for sample rates.

Withdrawal Rates

Graduated rates are used. Sample rates are as follows:

Age at	Withd	Irawal	
Termination	Male	Female	Disability
35	8.58%	9.53%	0.19%
45	3.88	5.23	0.44
55	2.00	3.29	1.19
60	1.50	2.15	1.80

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Mortality

Healthy Lives, Pre-retirement – RP-2000 Healthy Non-Annuitant Mortality Table projected generationally using Scale AA

Healthy Lives, Post-retirement – RP-2000 Healthy Annuitant Mortality Table projected generationally using Scale AA

Disabled Lives – RP-2000 Healthy Non-Annuitant and Annuitant Mortality Table set forward 3 years and projected generationally using Scale AA

This assumption includes a margin for future mortality improvement relative to recent plan experience.

Expenses

The average of the prior three year's expenses:

Year	Expenses		
2016	\$	30,745	
2015		22,706	
2014		18,935	
Average	\$	24,129	

Marriage Rates

85% of all active and terminated participants not currently receiving benefits are assumed to be married. Male spouses are assumed to be three years older than their female spouses.

Future Credited Service

The Future Credited Service rate is equal to the member's Full Time Equivalent (FTE) rate as of December 31 preceding the current valuation year.

Form of Payment

15% of participants retiring from active service are assumed to elect a lump sum.

Changes in Actuarial Assumptions and Methods as of January 1, 2017

The retirement assumption was updated to better reflect anticipated plan experience, as summarized in our annual assumption review document dated February 6, 2017 and approved by the Retirement Committee at their February 9, 2017 meeting.

The form of payment assumption was updated to better reflect anticipated plan experience, as summarized in our annual assumption review document dated February 6, 2017 and approved by the Retirement Committee at their February 9, 2017 meeting.

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APPENDIX B PLAN SUMMARY

All actuarial calculations are based upon our understanding of the provisions of City of Fort Collins General Employees' Retirement Plan, as adopted and in effect on January 1, 2017. This summary does not attempt to cover all of the detailed provisions.

Plan Year

The Plan Year is the 12-month period beginning January 1 and ending December 31.

Effective Date

The original effective date of the Plan is January 1, 1971. The Plan was most recently amended and restated effective January 1, 2016.

Eligible Employee Classification

All persons employed to fill a classified position defined by the city, excluding police officers and firefighters, shall become a member of the Plan on the later of the Effective Date of the Plan or Date of Hire.

The Plan was frozen to new entrants as of January 1, 1999.

Accrued Benefit

The Accrued Benefit for each Member is the Member's Normal Retirement Benefit calculated using Average Monthly Compensation and Credited Service as of the calculation date. In no event will a Member's Accrued Benefit be less than the Accrued Benefit earned as of June 30, 2003.

Average Monthly Compensation

A Member's Average Monthly Compensation, as of a given date, is the average of the highest 60 consecutive months of considered compensation during the last 120 months of Credited Service. In the event that a participant was employed on a part time basis during any portion of this period, the compensation will be converted to a full time equivalent for purposes of calculating the Average Monthly Compensation.

Compensation

Compensation is the gross compensation included as taxable income on Form W-2, excluding bonuses, compensatory time recorded as additional hours, overtime pay, workers' compensation accrued vacation pay, taxable fringe benefits, but including any amounts contributed by the City to a salary reduction agreement including Code Sections 125, 132(f)(4), 402(a)(8), 403(b), 402(a), and 457.

Credited Service

A Year of Service is credited for each plan year a member works 2,080 hours. If the member works less than 2,080 hours, a partial Year of Service will be credited on a prorate basis based on the number of hours for which compensation is paid. Service is credited while a member is on long-term disability as long as no benefits are being paid from the Plan.

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Vested Accrued Benefit

A Participant's Vested Accrued Benefit as of a given date is equal to the product of his Accrued Benefit multiplied by his Vested Percentage as of that same date.

Vesting Schedule

Members become vested in their Accrued Benefit according to the following schedule:

Years of Credited Service	Percent Vested
Less than 2	0%
	0,0
2	40%
3	60%
4	80%
5 and over	100%

Normal Retirement Date

A Participant's Normal Retirement Age is the first of the month coincident with or next following the attainment of age 65.

Normal Retirement Benefits

Each Member who becomes eligible for a Normal Retirement Benefit under the Plan will be entitled to receive a monthly retirement pension benefit beginning at the Member's Normal Retirement Date and payable in the Normal Benefit Form equal to:

• 1.5% of Average Monthly Compensation, multiplied by Credited Service.

Normal Benefit Form

Life Annuity - Monthly pension benefit payable for the lifetime of the Member.

Early Retirement

(a) Early Retirement Date

A Member's Early Retirement Date is the first day of the month so elected by the Member which coincides with or next follows the date upon which the Member attains age 55 and completes 2 Years of Service.

(b) Early Retirement Benefit

A Member's Early Retirement Benefit is a monthly pension benefit equal to his Accrued Benefit determined as of his Early Retirement Date, reduced by 1/15th for the first 5 years and 1/30th for each of the next 5 years payments commence prior to age 65.

Optional Benefit Forms

Optional Benefit Forms are available and equal to the Actuarial Equivalent of the Normal Benefit Form and may be in an amount more than or less than that provided by the Normal Benefit Form depending on the option selected. Such distribution may be as a Joint & 50% or 100% Survivor Annuity, a Life Annuity with 120 payments guaranteed, or a Lump Sum.

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Pre-Retirement Death Benefit

If a Member dies prior to commencing pension payments, the Member's beneficiary will receive a single sum benefit in an amount equal to 47% of the actuarial equivalent value of the Member's Accrued Benefit. If the beneficiary is the Member's spouse, the spouse may elect a monthly benefit which is the actuarial equivalent of the single sum benefit. (The 47% factor is stated in the Plan Document Article XI, Section 11. It was developed assuming that the participant quit the day prior to death and elected a 50% joint and survivor benefit.)

Termination Benefit

In the event of the termination of a Member's employment for any reason other than death, disability or retirement after completing 2 Years of Service, the Member will become entitled to receive a monthly pension benefit commencing on his Normal Retirement Date equal to his Vested Accrued Benefit.

If the deferred benefit to which the Member is to be paid at his Normal Retirement Date has an actuarial equivalent value less than \$5,000, the entire benefit will be paid to the terminated participant as a single lump sum.

Disability Benefit

(a) Total Disability

The monthly benefit, payable for life commencing at normal retirement date, is equal to the normal retirement benefit considering annual rate of compensation at disability and credited service he would have accumulated if employment had continued uninterrupted to his normal retirement date.

(b) Permanent Partial Disability

A member may accrue Credited Service under the Plan for any period of time up to a maximum accrual of two (2) years.

Instead of the disability benefit described above, the disabled participant may elect to take a lump-sum distribution at any time.

City Contributions

The entire cost of the Plan is to be paid by the City.

Plan Changes

None

APPENDIX C PARTICIPANT DATA

The actuarial valuation of the Plan is based on the participant data provided to us by the City. The data includes active participants, terminated vested participants who retain benefits under the Plan, and retirees and beneficiaries receiving benefits as of January 1, 2017. A total of 410 participants were reported to us and included in this valuation. Table 1 includes a reconciliation of the participant data from January 1, 2016 to January 1, 2017.

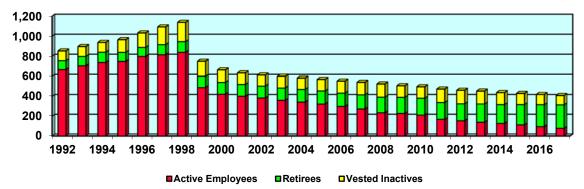
The age and service characteristics of the 78 active participants in the Plan as of January 1, 2017 are shown in Table 2. As indicated in Table 2, the average age of the active participants on the valuation date was 59.3, the same as the average age of 59.3 of the active participants on January 1, 2016. The average years of service of the active participants on January 1, 2017 was 26.5, up from the 25.9 average years of service of the active participants on January 1, 2016.

In addition to the active members, there were 94 inactive participants not yet in pay status retaining benefits under the Plan. Table 3 contains a summary of the number of inactive participants not yet in pay status but retaining benefits under the Plan, and the amounts of those benefits.

Tables 4 and 5 summarize the information provided on the 238 members and beneficiaries who are currently receiving monthly benefits. Table 4 contains a summary of the number of participants receiving benefits and the amounts of those benefits, while Table 5 lists the benefits being paid as of January 1 of each year from 1986 to 2016. Counts and total annual benefit amounts are separated by status and sex.

Table 6 displays the list of the retirement dates and status of participants eligible for normal or delayed retirement in the next five years.

Because participation in the Plan was frozen as of January 1, 1999, the number of participants in the Plan has declined over the years, as illustrated below:



Summary of Plan Participants

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City of Fort Collins General Employees' Retirement Plan

TABLE C-1RECONCILIATION OF PARTICIPANT DATA(JANUARY 1, 2016 TO JANUARY 1, 2017)

	Actives	Terminated Vested	Retired	Beneficiary	Total
Included in January 1, 2016 Valuation:	95	103	198	24	420
Change due to:					
New entrants	N/A	N/A	N/A	N/A	N/A
Rehired	0	0	0	N/A	0
Termination Nonvested Vested	0 (3)	N/A 3	N/A N/A	N/A N/A	0 0
Retirement	(12)	(9)	21	0	0
Disabled	0	0	0	0	0
Death no Beneficiary	(1)	(2)	(3)	(2)	(8)
Death with Beneficiary	0	0	(3)	3	0
Cash out	(1)	(1)	0	0	(2)
Other	0	0	0	0	0
Net change	(17)	(9)	15	1	(10)
Included in January 1, 2017 Valuation:	78	94	213	25	410

TABLE C-2
SUMMARY OF ACTIVE PARTICIPANTS AS OF JANUARY 1, 2017

				Years of S	ervice						
	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 & Up	Total			
Age	Age Number of Participants										
Under 25	0	0	0	0	0	0	0	0			
25 to 29	0	0	0	0	0	0	0	0			
30 to 34	0	0	0	0	0	0	0	0			
35 to 39	0	0	0	0	0	0	0	0			
40 to 44	0	0	0	1	1	0	0	2			
45 to 49	0	0	0	3	2	0	0	5			
50 to 54	0	0	2	1	3	3	1	10			
55 to 59	0	0	0	1	5	10	3	19			
60 to 64	0	0	0	1	11	6	13	31			
65 & Up	0	0	0	1	2	3	5	11			
Total	0	0	2	8	24	22	22	78			
				Salar	у						
Under 25	0	0	0	0	0	0	0	0			
25 to 29	0	0	0	0	0	0	0	0			
30 to 34	0	0	0	0	0	0	0	0			
35 to 39	0	0	0	0	0	0	0	0			
40 to 44	0	0	0	57,070	67,567	0	0	124,637			
45 to 49	0	0	0	200,327	115,894	0	0	316,221			
50 to 54	0	0	101,115	41,678	183,427	195,566	66,824	588,610			
55 to 59	0	0	0	62,525	326,550	665,678	182,471	1,237,224			
60 to 64	0	0	0	67,444	759,081	486,371	911,843	2,224,739			
65 & Up	0	0	0	30,267	130,261	165,398	437,867	763,793			
Total	0	0	101,115	459,311	1,582,780	1,513,013	1,599,005	5,255,224			

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				Years of Se	ervice			
	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 & Up	Total
Age			A	Average Comp	ensation			
Under 25	0	0	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0
40 to 44	0	0	0	57,070	67,567	0	0	62,319
45 to 49	0	0	0	66,776	57,947	0	0	63,244
50 to 54	0	0	50,558	41,678	61,142	65,189	66,824	58,861
55 to 59	0	0	0	62,525	65,310	66,568	60,824	65,117
60 to 64	0	0	0	67,444	69,007	81,062	70,142	71,766
65 & Up	0	0	0	30,267	65,131	55,133	87,573	69,436
Total	0	0	50,558	57,414	65,949	68,773	72,682	67,375

TABLE C-2 (CONTINUED)SUMMARY OF ACTIVE PARTICIPANTS AS OF JANUARY 1, 2017

HISTORICAL SUMMARY

	2011	2012	2013	2014	2015	2016	2017
Not Vested:	0	0	0	0	0	0	0
Partially Vested:	0	0	0	0	0	0	0
Fully Vested:	<u>169</u>	<u>155</u>	<u>140</u>	<u>128</u>	<u>113</u>	<u>95</u>	<u>78</u> 78
Total:	169	155	140	128	113	95	78
Total Compensation:	\$10,399,205	\$9,582,235	\$8,834,557	\$8,202,862	\$7,306,661	\$6,191,383	\$5,255,224
Average Rate of Pay:	\$61,534	\$61,821	\$63,104	\$64,085	\$64,661	\$65,172	\$67,375
Average Service:	23.0	24.2	24.7	25.3	25.7	25.9	26.5
Average Age:	56.8	57.5	57.9	58.6	59.0	59.3	59.3

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TABLE C-3SUMMARY OF DEFERRED VESTED AND DEFERRED DISABLED PARTICIPANTSAS OF JANUARY 1, 2017

Age	Number	Total Annual Benefit	Average Monthly Benefit
30-34	0	\$ 0	\$ 0
35-39	0	0	0
40-44	1	8,328	694
45-49	2	19,884	829
50-54	9	75,816	702
55-59	38	365,460	801
60-64	42	454,104	901
65 & Up	<u>2</u>	17,292	721
Total	94	\$ 940,884	\$ 834

HISTORICAL SUMMARY

	2011	2012	2013	2014	2015	2016	2017
Deferred Vested							
Number: Total Annual	134	135	128	120	112	102	93
Benefit: Average Monthly	\$1,308,605	\$1,402,476	\$1,320,218	\$1,162,402	\$1,123,187	\$1,046,364	\$927,624
Benefit:	\$814	\$866	\$860	\$807	\$836	\$855	\$831
Average Age:	56.2	57.0	57.6	58.0	58.4	59.0	59.3
Deferred Disabled							
Number: Total Annual	1	1	1	1	1	1	1
Benefit: Average Monthly	\$13,260	\$13,260	\$13,260	\$13,260	\$13,260	\$13,260	\$13,260
Benefit:	\$1,105	\$1,105	\$1,105	\$1,105	\$1,105	\$1,105	\$1,105
Average Age:	54.0	55.0	56.0	57.0	58.0	59.0	60.0

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City of Fort Collins General Employees' Retirement Plan

TABLE C-4 Summary of Healthy Retirees, Disabled Retirees, and Beneficiaries as of January 1, 2017

	H	ealthy Retiree	s	Dis	Disabled Retirees			Beneficiaries			Total		
Age	Number	Annual Benefit	Average Monthly Benefit	Number	Annual Benefit	Average Monthly Benefit	Number	Annual Benefit	Average Monthly Benefit	Number	Annual Benefit	Average Monthly Benefit	
55-59	2	\$28,310	\$1,180	0	\$0	\$0	0	\$0	\$0	2	\$28,310	\$1,180	
60-64	14	227,263	1,353	0	0	0	2	10,276	428	16	237,539	1,237	
65-69	82	1,455,297	1,479	1	29,956	2,496	3	27,957	777	86	1,513,210	1,466	
70-74	43	688,933	1,335	1	24,054	2,005	2	14,081	587	46	727,068	1,317	
75-79	33	382,443	966	2	21,960	915	3	15,561	432	38	419,964	921	
80-84	21	184,072	730	1	11,258	938	3	7,576	210	25	202,906	676	
Above 85	<u>13</u>	<u>108,384</u>	695	<u>0</u>	<u>0</u>	0	<u>12</u>	<u>101,679</u>	706	<u>25</u>	<u>210,063</u>	700	
Total	208	\$3,074,702	\$1,232	5	\$87,228	\$1,454	25	\$177,130	\$590	238	\$3,339,060	\$1,169	

HISTORICAL SUMMARY

	2011	2012	2013	2014	2015	2016	2017
Healthy Retirees							
Number:	141	143	157	163	179	193	208
Total Annual Benefit:	\$1,551,801	\$1,553,258	\$1,836,582	\$2,057,107	\$2,363,969	\$2,734,731	\$3,074,702
Average Monthly Benefit:	\$917	\$905	\$975	\$1,052	\$1,101	\$1,181	\$1,232
Average Age:	72.4	72.5	72.6	72.8	72.7	72.6	72.6
Disabled Retirees							
Number:	6	6	5	6	5	5	5
Total Annual Benefit:	\$76,483	\$76,483	\$61,091	\$91,047	\$87,228	\$87,228	\$87,228
Average Monthly Benefit:	\$1,062	\$1,062	\$1,018	\$1,265	\$1,454	\$1,454	\$1,454
Average Age:	72.5	73.5	72.4	72.2	73.8	74.8	75.8
Beneficiaries							
Number:	23	22	23	21	21	24	25
Total Annual Benefit:	\$147,516	\$140,353	\$160,626	\$151,954	\$157,192	\$172,028	\$177,130
Average Monthly Benefit:	\$534	\$532	\$582	\$603	\$624	\$597	\$590
Average Age:	81.3	81.6	82.4	82.1	82.6	82.7	81.7

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		Retire	ement*			Benef	iciaries*		Disability**					
		Male		Female		Male		Female		Male		Female		All
Year	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
1986	67	250,103			7	14,058							74	264,161
1987	72	267,262			6	12,904							78	280,166
1988	70	264,467			6	9,299							76	273,766
1989	75	355,402			5	15,931							80	371,333
1990	65	370,147	19	38,437	2	3,561	3	12,370	2	2,041	0	0	91	426,556
1991	64	370,359	17	42,832	3	4,736	3	14,349	2	2,041	0	0	89	434,317
1992	65	375,014	18	51,214	3	4,736	4	15,640	2	2,041	1	5,692	93	454,337
1993	67	393,340	22	79,136	3	4,736	7	35,056	3	18,485	1	5,692	103	536,445
1994	60	394,223	17	75,333	1	3,099	8	39,381	3	21,369	2	10,884	91	544,287
1995	55	359,659	17	77,358	1	3,099	11	55,120	4	25,825	2	10,884	90	531,945
1996	66	466,177	18	84,593	1	3,099	10	50,512	4	25,825	2	10,884	101	641,090
1997	68	477,993	21	104,091	1	3,099	10	50,512	5	35,717	2	10,884	107	682,296
1998	70	547,160	23	121,654	1	3,099	11	53,600	6	40,722	2	10,884	113	777,119
1999	74	593,649	23	133,013	1	3,099	12	61,432	5	32,577	2	10,884	117	834,654
2000	74	650,175	22	136,795	1	3,572	13	71,763	5	34,506	2	11,825	117	908,636
2001	74	656,815	23	143,199	1	3,572	13	71,763	6	45,764	2	11,825	119	932,938
2002	73	691,385	29	194,447	1	3,572	12	68,051	6	45,764	2	11,825	123	1,015,044
2003	75	750,807	31	214,130	2	9,855	12	70,742	6	45,764	1	5,543	127	1,096,841
2004	77	807,941	33	215,275	2	9,855	13	80,089	6	45,764	1	5,543	132	1,164,467
2005	78	809,581	33	215,275	2	9,855	14	87,665	6	45,764	1	5,543	134	1,173,683
2006	83	889,557	36	241,760	2	9,855	14	87,665	7	63,995	1	5,543	143	1,298,375
2007	90	1,080,910	43	310,359	2	9,855	16	97,728	7	63,994	1	5,543	159	1,568,389
2008	90	1,050,492	47	338,564	2	9,855	17	114,736	7	63,995	0	0	163	1,577,642
2009	92	1,160,329	49	384,191	2	9,855	20	128,436	8	88,050	0	0	171	1,770,861
2010	90	1,151,934	51	399,867	3	18,484	20	129,032	6	76,483	0	0	170	1,775,800
2011	90	1,141,103	53	412,155	3	18,484	19	121,869	6	76,483	0	0	171	1,770,094
2012	101	1,382,769	56	453,813	3	18,484	20	142,142	5	61,091	0	0	185	2,058,299
2013	103	1,512,466	60	544,641	2	12,201	19	139,753	6	91,047	0	0	190	2,300,108
2014	115	1,764,025	64	599,944	1	3,572	20	153,620	5	87,228	0	0	205	2,608,389
2015	122	2,024,794	71	709,937	1	3,572	23	168,456	5	87,228	0	0	222	2,993,987
2016	128	2,178,732	80	895,970	1	3,572	24	173,558	5	87,228	0	0	238	3,339,060

TABLE C-5

*

Male and female splits are not available prior to 1990. Retirement and disability splits are not available prior to 1990. **

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City of Fort Collins General Employees' Retirement Plan

TABLE C-6 SCHEDULE OF MEMBERS ELIGIBLE FOR NORMAL OR DELAYED RETIREMENT IN THE NEXT FIVE YEARS

Normal Retirement Date

Current Status

12/1/2009	Active
1/1/2012	Active
1/1/2013	Active
1/1/2013	Active
3/1/2014	Active
4/1/2014	Active
3/1/2016	Active
4/1/2016	Deferred Vested
10/1/2016	Active
10/1/2016	Active
12/1/2016	Active
12/1/2016	Deferred Vested
1/1/2017	Active
2/1/2017	Deferred Vested
3/1/2017	Deferred Vested
4/1/2017	Active
5/1/2017	Deferred Vested
7/1/2017	Deferred Vested
8/1/2017	Active
10/1/2017	Active
11/1/2017	Active
11/1/2017 12/1/2017	Active Deferred Vested
12/1/2017	Deferred Vested
1/1/2018	Deferred Vested
1/1/2018	Deferred Vested
2/1/2018	Deferred Vested
2/1/2018	Active
4/1/2018	Deferred Vested
5/1/2018	Active
6/1/2018	Deferred Vested
7/1/2018	Deferred Vested
8/1/2018	Active
8/1/2018	Deferred Vested
9/1/2018	Deferred Vested
9/1/2018	Active
9/1/2018	Active
10/1/2018	Deferred Vested
10/1/2018	Active
11/1/2018	Active
1/1/2019	Active
2/1/2019	Deferred Vested

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Normal Retirement Date

Kelirement Date	Current Status
3/1/2019	Deferred Vested
3/1/2019	Active
3/1/2019	Deferred Vested
4/1/2019	Deferred Vested
4/1/2019	Active
4/1/2019	Deferred Vested
5/1/2019	Deferred Vested
5/1/2019	Active
5/1/2019	Active
6/1/2019	Deferred Vested
7/1/2019	Active
10/1/2019	Deferred Vested
11/1/2019	Deferred Vested
11/1/2019	Deferred Vested
2/1/2020	Deferred Vested
3/1/2020	Active
4/1/2020	Deferred Vested
5/1/2020	Active
5/1/2020	Deferred Vested
6/1/2020	Active
7/1/2020	Active
7/1/2020	Deferred Vested
8/1/2020	Deferred Vested
10/1/2020	Deferred Vested
10/1/2020	Deferred Vested
11/1/2020	Active
11/1/2020	Active
12/1/2020	Deferred Vested
12/1/2020	Deferred Vested
2/1/2021	Active
3/1/2021	Deferred Vested
3/1/2021	Deferred Vested
5/1/2021	Active
6/1/2021	Deferred Vested
6/1/2021	Active
6/1/2021	Active
7/1/2021	Active
7/1/2021	Deferred Vested
8/1/2021	Deferred Vested
10/1/2021	Deferred Vested
12/1/2021	Deferred Vested
12/1/2021	Active

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Current Status

January 1, 2017 Actuarial Valuation

City of Fort Collins General Employees' Retirement Plan