

City of Jacksonville
Self-Insurance Program
Actuarial Review
As of September 30, 2018

Firm: **AMI Risk Consultants, Inc.**
1336 SW 146th Ct.
Miami, Florida 33184
(305) 273-1589

Contact: Bob Ingco, FCAS, MAAA, CPCU, ARM

Date: January 8, 2019

January 8, 2019

Ms. Bibinia Centeno, CGFO
Financial and Administrative Manager
City of Jacksonville
117 W. Duval St. Suite 335
Jacksonville, FL 32202

VIA E-MAIL
BCenteno@coj.net


Dear Ms. Centeno:

We are pleased to submit to you our final report on the Actuarial Review for City of Jacksonville's Self-Insurance Program as of September 30, 2018.

We appreciate the cooperation and courtesies extended to us during the course of the engagement. Should further questions about the report arise, please do not hesitate to contact us.

Thank you for the opportunity to work with you on this project.

Sincerely,



Bob Ingco, FCAS, MAAA, CPCU, ARM
President

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Section I – Actuarial Report

Self-Insurance Program

Actuarial Review

September 30, 2018

Purpose

The City of Jacksonville (“the City”) has engaged the services of AMI Risk Consultants, Inc. (“AMI”) to perform the following for its self-insurance program:

- Estimate the funding requirement for ***outstanding loss and loss adjustment expense (“LAE”) liabilities*** at September 30, 2018 to comply with Government Accounting Standards Board Statement Number 10 (“GASB 10”).
 - Estimate the funding requirement for ***new claims*** that will occur during prospective fiscal years 2018/2019 and 2019/2020.
 - Estimate ***paid losses*** for prospective fiscal years 2018/2019, 2019/2020, 2020/2021, 2021/2022, 2022/2023, and 2023/2024.
-

Terminology

The *funding requirement* for an accident period is the liability retained for claims that occur during that period. The funding requirement for *outstanding claim liabilities* includes:

- Case reserves for reported claims; and
- Incurred but not reported (“IBNR”) reserves.

For this report the term "*losses*" means losses and *allocated loss adjustment expense* (“ALAE”), unless otherwise indicated.

Funding for outstanding *unallocated loss adjustment expenses* (“ULAE”) is estimated separately from losses and ALAE. This is a provision for expenses that cannot be associated with a specific claim.

The term “*reserves*” or “*loss reserves*” is commonly used in the insurance industry to mean outstanding claim liability as of a given date, and may appear in this report with that meaning.

Discounting

Funding estimates are sometimes discounted to reflect expected investment income that will be earned on the assets backing claim liabilities before those liabilities are actually paid out.

Reserve estimates in this report are shown on a *discounted* basis. Projected losses for new claims occurring in future years are presented *undiscounted*.

Confidence Levels

Funding estimates sometimes include a margin to increase the likelihood that the estimated liability will be sufficient to cover the actual claims that emerge over time. Including such a margin is said to increase the “confidence level” of the estimate. Projected funding for the 2019/2020 year is presented at the following confidence levels: 55% (expected), 70%, 75%, 80%, 85% and 90%. This is the year currently under consideration in the City’s budgeting process.

**GASB 10
Affirmation**

We affirm the General Liability and Automobile Liability estimates contained in this report are consistent with GASB Statement No. 10.

The Workers' Compensation reserve estimates contained in this report provide for loss development through age 300 months (or 25 years). This development period was selected in accordance with the City's plan to gradually strengthen funding for tail liability. (Please see discussion of Loss Development Factors on Page 11.)

The City has continued to pursue their initiative, begun in 2014, to settle lifetime Workers' Compensation claims and to limit the number of such claims extending beyond age 20 years. Therefore it is likely that the current tail liability is actually less than historical factors would suggest. The full impact of this initiative on outstanding claim liabilities will become increasingly apparent over time.

**Acknowledgment
of Qualifications**

Aguedo M. (Bob) Ingco is a consulting actuary and President of AMI Risk Consultants, Inc. He is a Fellow of the Casualty Actuarial Society and a Member of the American Academy of Actuaries. Mr. Ingco meets the qualification standards of the American Academy of Actuaries to provide the estimates in this report.

**Distribution
and
Use**

This report is for the internal use of the management of City of Jacksonville and their independent auditors. We suggest that the user of this report review a complete copy as parts considered out of context might be misleading.

Conclusions***Funding for Outstanding Claim Liabilities at September 30, 2018***

We estimated the following funding for outstanding claim liabilities at September 30, 2018. This is the estimated amount needed to settle unpaid losses and LAE incurred on or before September 30, 2018. The estimates below are shown on a discounted basis. These estimates have been reduced by anticipated investment income.

**Funding for Outstanding Liabilities at Retention
As of September 30, 2018
Discounted at 4% – Expected Confidence Level
(‘000s)**

Program	Loss & ALAE Reserve	ULAE Reserve
Workers' Compensation	\$94,430	\$4,722
General Liability	9,120	1,824
Automobile Liability	3,630	726
GRAND TOTAL	\$107,180	\$7,271

**Conclusions
(continued)**

Funding for New Claims Occurring During Fiscal Years 2018/2019 and 2019/2020

Our estimated funding for prospective fiscal years 2018/2019 and 2019/2020 is as follows. These are the necessary amounts to fund the ultimate cost of new claims occurring in the next fiscal policy periods.

**Funding for New Claims
Undiscounted – Expected Confidence Level
('000s)**

Program	Retention	2018/2019	2019/2020
Workers' Compensation	\$1.25MM	\$22,431	\$23,455
General Liability	\$1.5MM	4,055	4,219
Automobile Liability	\$1.5MM	2,009	2,090
GRAND TOTAL		\$28,495	\$29,764

**Conclusions
(continued)**

Projected Paid Losses for Future Fiscal Years

The projected paid losses for fiscal years 2018/2019 to 2023/2024 are shown below. Further detail is shown in Page 16 of the report.

**Projected Paid Losses
Undiscounted – at Expected Confidence Levels
(‘000s)**

Program	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
Workers’ Compensation	18,988	19,147	19,478	20,123	20,854	21,456
General Liability	4,720	4,428	4,268	3,283	3,420	3,700
Automobile Liability	2,261	2,151	2,137	2,160	2,223	2,301
GRAND TOTAL	\$25,969	\$25,725	\$25,883	\$25,566	\$26,497	\$27,456

Background

The City administers a self-insured workers' compensation and liability program. The liability program includes general liability, automobile liability and other liability (law enforcement, contractual and other tort claims).

The self-insurance program includes the following **agencies**:

- City of Jacksonville (City)
- Jacksonville Electric Authority (JEA)
- Jacksonville Electric Authority-Water and Sewer (JEA-WS)
- Jacksonville Housing Authority (JHA)
- Jacksonville Port Authority (JPA)
- Jacksonville Aviation Authority (JAA)

For Workers' Compensation, the **City of Jacksonville** segregates historical claims into five components:

1. Sheriff Heart and Hypertension (HHS)
2. Fire Heart and Hypertension (HHF)
3. Sheriff Non-Heart and Hypertension (CTS)
4. Fire Non-Heart and Hypertension (CTF)
5. Other City Non-Heart and Hypertension (CTY).

Effective October 1, 2018, The City created **additional segregations** for the Workers, Compensation program:

1. PTSD Fire (INSPTF)
2. PTSD Sheriff (INSPTS)
3. PTSD Aviation Sheriff (INSPTA)
4. Heart and Hypertension Aviation Sheriff (INSHHA)
5. Other Claims Aviation Sheriff (INSAVS)

For General Liability and Automobile Liability, the **City of Jacksonville** segregates claims into three components:

1. Fire
2. Sheriff
3. Other City.

The City has historically handled litigation and claims management internally. ALAE and ULAE were not recorded in the underlying loss experience.

Effective 10/1/12, however, the City began using outside attorneys for Worker's Compensation. ALAE for Workers' Compensation is therefore included in the loss experience since that date.

Estimates of ULAE in this report include the City's internal legal expenses for Liability, but exclude any allowance for internal legal expenses for Workers' Compensation.

**Background
(continued)**

Since the inception of self-insurance, excess coverage has been purchased for Workers' Compensation, with the self-insured retentions shown below.

Workers' Compensation Self-Insured Retentions

Claim Period	Per Occurrence Self-Insured Retention
10/01/77 to 09/30/80	\$500,000
10/01/80 to 09/30/82	\$1,000,000
10/01/82 to 10/31/86	\$250,000
11/01/86 to 09/30/02	\$1,000,000
10/01/02 to 9/30/13	\$1,200,000
10/01/13 to 9/30/18	\$1,250,000

The City retains losses excess of \$1,500,000 up to a \$500,000 annual aggregate.

Liability claims for municipalities are statutorily limited in Florida as follows:

Statutory Limits – Liability Claims

Claim Period	Per Person / Per Occurrence Limits
Prior to 10/1/81	\$50,000/\$100,000
10/1/81 to 9/30/11	\$100,000/\$200,000
10/1/11 and later	\$200,000/\$300,000

These limits are not applicable, however, to actions brought in federal courts or to claims relief bills approved by the Florida legislature. The City purchases excess coverage to limit its liability in these instances.

For General Liability, the self-insured retentions are as follows:

General Liability Self-Insured Retentions

Claim Period	Per Occurrence Self-Insured Retention
10/01/77 to 09/30/80	\$500,000
10/01/80 to 09/30/82	\$1,000,000
10/01/82 to 10/31/86	\$250,000
11/01/86 to 09/30/02	\$1,000,000
10/01/02 to 09/30/11	\$5,000,000
10/01/11 to 9/30/13	Group A - \$2,500,000
	Group B and Fungi/Bacteria - \$5,000,000
10/1/13 to 9/30/18	\$1,500,000

Historically the Automobile Liability retention has followed the Workers' Compensation retention shown above. Effective 10/1/13, however, the liability self-insured retention became \$1,500,000.

Reliance and Limitations

In performing the analysis, we relied without audit or verification on the following information furnished by the City:

- Incurred and paid losses by accident year and agency as of September 30, 2018 for the following coverages:
 1. Workers' Compensation
 2. General Liability
 3. Automobile Liability
- Exposure by fiscal year. For workers' compensation and general liability, the City provided payroll; for automobile liability, the City provided vehicle counts.

In addition we relied on loss development histories by coverage compiled by the City's prior actuary.

We also **reassigned the following claims** to City of Jacksonville from Jacksonville Housing Authority as corrected by Bibinia Centeno: 06 1167, 06 1776, 07 474, 07 1550, 08 579, 08 752, 08 1368, 08 1582, 08 1598, 08 1968, 09 587, 09 1063, 09 2105, 10 691, 10 1035, 10 1576, 12 347, 12 1220, and 1410 01111.

While performing the review, we spoke with Ms. Bibinia Centeno, Financial and Administrative Manager for the City, Mr. Mitchell Perin, and Mr. Twane Duckworth, Chief of Risk Management.

Calculations of reserves are subject to potential errors of estimation because the ultimate liability for claims is subject to the outcome of events yet to occur, e.g., jury decisions and attitudes of claimants with respect to settlements. In projecting loss emergence, we assumed that historical loss development patterns are predictive of future patterns. We have not anticipated any extraordinary changes in the legal, social or economic environment that might affect the ultimate cost of claims.

We cannot reasonably estimate the uncertainties that ultimate liabilities are subject to. Therefore, while we believe our assumptions and methods are reasonable, we cannot guarantee that actual results will not differ, perhaps substantially, from our estimates.

Section II – Actuarial Approach

**Actuarial
Approach**

Funding for Outstanding Claim Liabilities at September 30, 2018

To estimate the total reserves as of September 30, 2018, we first estimated ultimate losses by accident period. Cumulative paid losses were subtracted from ultimate losses to estimate total loss reserves.

To estimate ultimate losses we used the following actuarial approaches. These approaches were applied separately by accident period and by coverage.

- *Incurred Loss Development Approach (ILDA)*
- *Paid Loss Development Approach (PLDA)*
- *Bornhuetter-Ferguson Incurred Loss Approach (BFILA)*
- *Bornhuetter-Ferguson Paid Loss Approach (BFPLA)*
- *Loss Rate Approach (LRA)*

*Description of
the methods we
used to estimate
the reserves as
of September
30, 2018*

Incurred Loss Development Approach (ILDA)

Under the ILDA, we multiplied incurred losses to date by the appropriate loss development factors to estimate ultimate losses.

Paid Loss Development Approach (PLDA)

The PLDA is similar to the ILDA. Instead of multiplying incurred losses by loss development factors, we multiplied paid losses by the appropriate loss development factors to estimate ultimate losses.

Bornhuetter-Ferguson Incurred Loss Approach (BFILA)

Under the BFILA, we summed actual incurred losses and expected unreported losses to estimate projected ultimate losses.

Bornhuetter-Ferguson Paid Loss Approach (BFPLA)

Under the BFPLA, we summed actual paid losses and expected unpaid losses to estimate projected ultimate losses.

These approaches were applied to losses and ALAE net of specific excess recoveries.

The initial ultimate loss assumptions for the BFILA and BFPLA were determined using a selected loss rate for each coverage. The loss rates were selected from those indicated by the ILDA and PLDA.

**Actuarial
Approach
(continued)**

Loss Rate Approach (LRA) – Most Recent Accident Period

To react to the immaturity of the paid and incurred losses for the most recent accident period, we used the Loss Rate Approach (“LRA”) **in lieu of the BFILA and BFPLA**. Under the LRA, a loss rate is estimated for the most recent accident period by trending ultimate losses divided by exposures of prior accident periods. This loss rate is multiplied by the exposure of the most recent accident period to estimate that period’s ultimate losses.

Loss Development Factors

Loss development factors for all coverages are based on the City’s own history.

The selected Workers’ Compensation loss development factors assume no development beyond age 300 months (or 25 years). As agreed with the City, factors beyond that age will be phased-in over time.

Allocation of Reserves to Agencies

Worker’s Compensation reserves for each accident period were allocated to non-City agencies based on the distribution of case reserves. Liability reserves were allocated to the City and to non-City agencies in the same manner.

**Actuarial
Approach
(continued)**

*The steps we
used to estimate
the funding for
future fiscal
years*

***Funding for New Claims Occurring During Fiscal Years 2018/2019 and
2019/2020***

To estimate the ultimate losses for prospective fiscal years 2018/2019 and 2019/2020 by coverage, we followed these steps:

- Estimated the historical loss rates by accident year. Loss rates are selected ultimate losses divided by the appropriate exposures.
 - Extrapolated the historical loss rates to 2018/2019 and 2019/2020, including any adjustments required for changes in retention.
 - Multiplied the extrapolated loss rates by the projected exposures for those years.
-

Section III – Results and Calculations

**Results of
Calculations**

Funding for Outstanding Claim Liabilities at September 30, 2018 – By Agency and Program

We estimated the following funding for outstanding claim liabilities at September 30, 2018.

**Funding for Outstanding Liabilities at Retention
As of September 30, 2018
Discounted at 4%– Expected Confidence Level
(‘000s)**

Agency	Program	Loss & ALAE Reserve	ULAE Reserve
(A) City	(i) Workers’ Compensation		
	(a1) Sheriff H&H	\$27,658	\$1,383
	(b1) Fire H&H	30,102	1,505
	(a2) Sheriff PTSD	0	0
	(b2) Fire PTSD	0	0
	(c) Sheriff Non-H&H Non-PTSD	14,590	729
	(d) Fire Non-H&H Non-PTSD	11,688	584
	(e) Other Non-H&H Non-PTSD	6,725	336
	(ii) General liability		
	(a) Sheriff	2,399	480
	(b) Fire	30	6
	(c) Other City	5,196	1,039
	(iii) Automobile Liability		
(a) Sheriff	1,845	369	
(b) Fire	475	95	
(c) Other City	530	106	
(B) JEA	(i) Workers’ Compensation	2,072	104
	(ii) General liability	532	106
	(iii) Automobile Liability	778	156
(C) JEA-WS	(i) Workers’ Compensation	396	20
	(ii) General liability	820	164
	(iii) Automobile Liability	0	0
(D) JHA	(i) Workers’ Compensation	404	20
	(ii) General liability	139	28
	(iii) Automobile Liability	0	0
(E) JPA	(i) Workers’ Compensation	259	13
	(ii) General liability	4	1
	(iii) Automobile Liability	2	0
(F) JAA	(i) Workers’ Compensation		
	(a) H&H Aviation Sheriff	0	0
	(b) PTSD Aviation Sheriff	0	0
	(c) Other Aviation	536	27
	(ii) General liability	0	0
	(iii) Automobile Liability	0	0
(G) Total Sum of (A) to (F)	(i) Workers’ Compensation	94,430	4,722
	(ii) General liability	9,120	1,824
	(iii) Automobile Liability	3,630	726
GRAND TOTAL		\$107,180	\$7,271

**Results of
Calculations
(continued)**

The ULAE reserves are based on the following factors, stated as a percentage of loss reserves:

Worker's Compensation	5.0%
Liability	20.0%

**Results of
Calculations
(continued)**

**Funding for New Claims Occurring During Fiscal Years 2018/2019 and
2019/2020– By Agency and Program**

Our estimated funding for the next two fiscal years is as follows.

**Funding for New Claims
Undiscounted – Expected Confidence Level
(*000s)**

Agency	Program	Retention	2018/2019	2019/2020
(A) City	(i) Workers' Compensation	\$1.25MM		
	(a1) Sheriff H&H		6,686	6,990
	(b1) Fire H&H		4,396	4,596
	(a2) Sheriff PTSD		100	105
	(b2) Fire PTSD		66	69
	(c) Sheriff Non-H&H Non-PTSD		4,174	4,364
	(d) Fire Non-H&H Non-PTSD		2,830	2,959
	(e) Other Non-H&H Non-PTSD		2,529	2,644
	(ii) General liability	\$1.5 MM		
	(a) Sheriff		934	972
	(b) Fire		29	30
	(c) Other City		2,096	2,181
	(iii) Automobile Liability	\$1.5 MM		
	(a) Sheriff		1,148	1,195
(b) Fire		303	315	
(c) Other City		318	331	
(B) JEA	(i) Workers' Compensation	\$1.25MM	912	949
	(ii) General liability	\$1.5MM	455	473
	(iii) Automobile Liability	\$1.5MM	236	245
(C) JEA-WS	(i) Workers' Compensation	\$1.25MM	140	145
	(ii) General liability	\$1.5MM	465	484
	(iii) Automobile Liability	\$1.5MM	0	0
(D) JHA	(i) Workers' Compensation	\$1.25MM	171	178
	(ii) General liability	\$1.5MM	61	63
	(iii) Automobile Liability	\$1.5MM	2	2
(E) JPA	(i) Workers' Compensation	\$1.25MM	91	94
	(ii) General liability	\$1.5MM	15	16
	(iii) Automobile Liability	\$1.5MM	1	1
(F) JAA	(i) Workers' Compensation	\$1.25MM		
	(a) H&H Aviation Sheriff		5	5
	(b) PTSD Aviation Sheriff		0	0
	(c) Other Aviation			357
	(ii) General liability	\$1.5MM	0	0
	(iii) Automobile Liability	\$1.5MM	1	1
(G) Total Sum of (A) to (F)	(i) Workers' Compensation	\$1.25MM	22,431	23,455
	(ii) General liability	\$1.5MM	4,055	4,219
	(iii) Automobile Liability	\$1.5MM	2,009	2,090
GRAND TOTAL			\$28,495	\$29,764

**Results of
Calculations
(continued)**

For budgeting purposes we also estimated the funding for prospective fiscal year 2019/2020 at various confidence levels.

**Funding for New Claims
Undiscounted – at Various Confidence Levels
Fiscal Year 2019/2020
('000s)**

Agency	Program**	55%	70%	75%	80%	85%	90%
(A) City	(i) Workers' Compensation						
	(a1) Sheriff H&H	6,990	8,352	8,784	9,209	9,750	10,511
	(b1) Fire H&H	4,596	5,491	5,775	6,054	6,410	6,911
	(a2) Sheriff PTSD	105	125	132	138	146	158
	(b2) Fire PTSD	69	82	87	91	96	104
	(c) Sheriff Non-H&H Non-PTSD	4,364	4,842	5,002	5,185	5,379	5,671
	(d) Fire Non-H&H Non-PTSD	2,959	3,283	3,391	3,515	3,647	3,845
	(e) Other Non-H&H Non-PTSD	2,644	2,933	3,030	3,141	3,258	3,435
	(ii) General liability						
	(a) Sheriff	972	1,129	1,180	1,244	1,319	1,425
	(b) Fire	30	35	36	38	41	44
	(c) Other City	2,181	2,533	2,647	2,791	2,959	3,198
	(iii) Automobile Liability						
	(a) Sheriff	1,195	1,437	1,513	1,597	1,704	1,860
	(b) Fire	315	364	383	405	432	471
(c) Other City	331	383	403	425	454	495	
(B) JEA	(i) Workers' Compensation	949	1,053	1,088	1,127	1,170	1,233
	(ii) General liability	473	549	574	605	642	693
	(iii) Automobile Liability	245	283	298	315	336	367
(C) JEA-WS	(i) Workers' Compensation	145	161	166	172	179	188
	(ii) General liability	484	562	588	619	657	710
	(iii) Automobile Liability	0	0	0	0	0	0
(D) JHA	(i) Workers' Compensation	178	197	204	211	219	231
	(ii) General liability	63	73	76	81	85	92
	(iii) Automobile Liability	2	2	2	3	3	3
(E) JPA	(i) Workers' Compensation	94	104	108	112	116	122
	(ii) General liability	16	19	19	20	22	23
	(iii) Automobile Liability	1	1	1	1	1	1
(F) JAA	(i) Workers' Compensation						
	(a) H&H Aviation Sheriff	5	6	6	6	7	7
	(b) PTSD Aviation Sheriff	0	0	0	0	0	0
	(c) Other Aviation	357	396	409	424	440	464
	(ii) General liability	0	0	0	0	0	0
(iii) Automobile Liability	1	1	1	1	1	1	
(G) Total Sum of (A) to (F)	(i) Workers' Compensation	23,455	27,026	28,181	29,386	30,818	32,880
	(ii) General liability	4,219	4,900	5,120	5,398	5,725	6,185
	(iii) Automobile Liability	2,090	2,471	2,601	2,747	2,931	3,198
GRAND TOTAL		\$29,764	\$34,397	\$35,902	\$37,531	\$39,474	\$42,263

** Assumed WC retention \$1.25MM; Assumed Liability retention \$1.5MM.

**Results of
Calculations
(continued)**

Projected Paid Losses for Future Fiscal Years

We also estimated the projected paid losses for fiscal years 2018/2019 to 2023/2024 at expected confidence level.

**Projected Paid Losses
Undiscounted - at Expected Confidence Level
(*000s)**

Agency	Program	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
(A) City	(i) Workers' Compensation						
	(a) Sheriff H&H	4,215	4,500	4,717	4,948	5,223	5,428
	(b) Fire H&H	4,707	4,257	4,009	4,039	4,063	4,031
	(a2) Sheriff PTSD	0	0	0	0	0	0
	(b2) Fire PTSD	0	0	0	0	0	0
	(c) Sheriff Non-H&H Non-PTSD	3,764	3,845	3,959	4,121	4,283	4,445
	(d) Fire Non-H&H Non-PTSD	2,525	2,676	2,745	2,788	2,880	2,954
	(e) Other Non-H&H Non-PTSD	2,265	2,318	2,441	2,558	2,665	2,787
	(ii) General liability						
	(a) Sheriff	1,118	993	769	593	585	610
	(b) Fire	18	38	43	30	36	39
	(c) Other City	2,807	2,542	2,522	1,668	1,749	1,945
	(iii) Automobile Liability						
	(a) Sheriff	1,218	1,152	1,169	1,212	1,261	1,313
(b) Fire	295	303	311	321	333	346	
(c) Other City	343	323	330	338	351	364	
(B) JEA	(i) Workers' Compensation	835	842	884	926	962	1,006
	(ii) General liability	301	330	406	447	473	503
	(iii) Automobile Liability	402	371	323	284	274	272
(C) JEA-WS	(i) Workers' Compensation	90	123	145	151	158	165
	(ii) General liability	403	446	456	469	498	518
	(iii) Automobile Liability	0	0	0	0	0	0
(D) JHA	(i) Workers' Compensation	167	163	169	172	180	188
	(ii) General liability	68	70	61	62	64	68
	(iii) Automobile Liability	0	1	1	2	2	2
(E) JPA	(i) Workers' Compensation	122	109	95	95	99	97
	(ii) General liability	5	8	10	13	15	16
	(iii) Automobile Liability	1	1	1	1	1	1
(F) JAA	(i) Workers' Compensation						
	(a) H&H Aviation Sheriff	0	0	0	0	0	0
	(b) PTSD Aviation Sheriff	0	0	0	0	0	0
	(c) Other Aviation	298	315	313	324	341	355
	(ii) General liability	0	0	0	0	0	0
(iii) Automobile Liability	0	1	1	1	2	2	
(G) Total Sum of (A) to (F)	(i) Workers' Compensation	18,988	19,147	19,478	20,123	20,854	21,456
	(ii) General liability	4,720	4,428	4,268	3,283	3,420	3,700
	(iii) Automobile Liability	2,261	2,151	2,137	2,160	2,223	2,301
GRAND TOTAL		\$25,969	\$25,725	\$25,883	\$25,566	\$26,497	\$27,456

Section IV – Description of Attached Exhibits

Attached Exhibits

The Summary Exhibit has seven pages.

- Page 1- shows the estimated discounted loss and LAE reserves as of September 30, 2018 at the expected confidence level.
- Page 2 shows the summary of undiscounted funding for fiscal years 2018/2019 and 2019/2020 at the expected confidence level.
- Page 3 shows the summary of undiscounted funding for fiscal year 2019/2020 at various confidence levels.
- Page 4 shows the summary of projected paid losses for fiscal years 2018/2019, 2019/2020, 2020/2021, 2021/2022, 2022/2023 and 2023/2024
- Page 5 shows the calculation of the ULAE ratio for Workers' Compensation.
- Page 6 shows the calculation of the ULAE ratio for Liability.
- Page 7 shows the reconciliation of estimated undiscounted reserves as of September 30, 2017 with AMI's reserve as of September 30, 2018.

We also prepared the following exhibits:

The City's Workers' compensation analysis is divided into separate components.

- Exhibit I - Sheriff Heart and Hypertension
- Exhibit II - Fire Heart and Hypertension
- Exhibit III - Sheriff Non-Heart and Hypertension
- Exhibit IV - Fire Non-Heart and Hypertension
- Exhibit V - Other City (non-sheriff and non-fire) Non-Heart and Hypertension
- Exhibit VI - Non-City Agencies Non-Heart and Hypertension.

The Liability coverages are Exhibits VII and VIII:

- Exhibit VII – General Liability
- Exhibit VIII – Automobile Liability.

We prepared Exhibit IX to show the calculation of the discount factors using an assumed annual rate of return for investments maturing during the expected claim payout period.

Exhibit X shows calculation of the loss reserves on a discounted basis.

Exhibit XI shows the calculation of workers' compensation paid loss cash flow for fiscal year 2016/2017.

Exhibit XII shows the calculation of expected incurred losses between 9/30/2016 and 9/30/2017 for the workers' compensation coverage.

**Attached
Exhibits
(continued)**

Exhibits I to V have 8 pages. Each page relates to the following:

- Page 1 shows how we estimated the undiscounted loss reserves at September 30, 2018 at the expected confidence level.
 - Page 2 shows calculation of ultimate losses using the ILDA and PLDA.
 - Page 3 shows the calculation of ultimate losses using the BFILA and BFPLA.
 - Page 4 shows the selection of initial loss rate for the Bornhuetter-Ferguson Approaches.
 - Pages 5A through 5D show the calculation of historical incurred loss development factors; pages 5E through 5H show the calculation of historical paid loss development factors; 5I and 5J shows the calculation of historical reported claim count development factors.
 - Page 6 shows the calculation of ultimate claim frequency and ultimate claim severity.
 - Page 7A shows the calculation of projected ultimate losses for fiscal years 2018/2019 and 2019/2020 on an undiscounted basis, and at various confidence levels.
 - Page 7B shows the calculation of projected paid losses for the next ten fiscal years.
 - Page 8A reconciles the undiscounted reserves as of September 30, 2018 with the undiscounted reserves as of September 30, 2017. It quantifies each component that impacts the change in reserve between periods, and thereby allows you to easily analyze what caused reserve increases or decreases. The components shown are: (1) payments made against the prior reserve, (2) any change in the estimate of ultimate losses for prior years, (3) estimated ultimate losses for the new accident period less payments already made.
-

**Attached
Exhibits
(continued)**

- Page 8B shows the comparison of ultimate losses between September 30, 2018 and September 30, 2017.
- Page 8C shows the comparison of paid losses between September 30, 2018 and September 30, 2017.

Exhibits VI, VII and VIII have 7 pages. Each relates to the following.

- Page 1 shows how we estimated the undiscounted loss reserves at September 30, 2018 at the expected confidence level.
 - Page 2 shows calculation of ultimate losses using the ILDA and PLDA.
 - Page 3 shows the calculation of ultimate losses using the BFILA and BFPLA.
 - Page 4 shows the selection of initial loss rate for the Bornhuetter-Ferguson Approaches.
 - Pages 5A through 5D show the calculation of historical incurred loss development factors; pages 5E through 5H show the calculation of historical paid loss development factors; 5I and 5J shows the calculation of historical reported claim count development factors.
 - Page 6 shows the calculation of ultimate claim frequency and ultimate claim severity.
 - Page 7A reconciles the undiscounted reserves as of September 30, 2018 with the undiscounted reserves as of September 30, 2017.
 - Page 7B shows the comparison of ultimate losses between September 30, 2018 and September 30, 2017.
 - Page 7C shows the comparison of paid losses between September 30, 2018 and September 30, 2017.
-

**Attached
Exhibits
(continued)**

Exhibits VI has the following subsections:

- VI-A - JEA
- VI-B - JEA-WS
- VI-C - JHA
- VI-D - JPA
- VI-E - JAA

Exhibits VII and VIII have the following subsections:

- VII-A and VIII-A – Other City
- VII-B and VIII-B – Sheriff
- VII-C and VIII-C – Fire
- VII-D and VIII-D – J EA
- VII-E and VIII-E - JEA-WS
- VII-G and VIII-F - JHA
- VII-G and VIII-G - JPA
- VII-H and VIII-H - JAA

For these subsections, there are 3 pages. Each relates to the following:

- Page 1 shows the allocation of undiscounted reserves at the expected confidence level.
 - Page 2A shows the calculation of projected ultimate losses for fiscal years 2018/2019 and 2019/2020 on an undiscounted basis.
 - Page 2B shows the calculation of projected paid losses for the next ten fiscal years.
 - Page 3A reconciles the undiscounted reserves as of September 30, 2018 with the undiscounted reserves as of September 30, 2017.
 - Page 3B shows the comparison of ultimate losses between September 30, 2018 and September 30, 2017.
 - Page 3C shows the comparison of paid losses between September 30, 2018 and September 30, 2017.
-

**Attached
Exhibits
(continued)**

Appendices

Appendices A and B show eleven (11) years of historical loss development information including ultimate limited losses, limited paid losses, and limited reported incurred losses for Workers' Compensation, and Liability (General and Automobile combined), respectively.

Appendices C and D show historical loss development information including ultimate limited losses, limited paid losses, and limited reported incurred losses for Workers' Compensation (twenty-three years of development information), and Liability (General and Automobile combined, twenty-one years of development information), respectively.

Appendix E shows the list of large claims with incurred loss greater than \$150,000.

Section V – Summary Exhibit

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ESTIMATED LOSS AND LAE RESERVES
DISCOUNTED AT 4%
ALL COVERAGES COMBINED
LIMITED TO RETENTION
(AMTS IN THOUSANDS)**

AGENCY	PROGRAM	DISCOUNTED at 4% EXPECTED CONFIDENCE LEVEL	
		LOSS & ALAE RESERVE (1)	ULAE RESERVE (2)
(A) CITY	(i) Workers compensation		
	<i>(a1) Sheriff H&H</i>	\$27,658	\$1,383
	<i>(b1) Fire H&H</i>	30,102	1,505
	H&H Subtotal	57,760	2,888
	<i>(a2) Sheriff PTSD</i>	0	0
	<i>(b2) Fire PTSD</i>	0	0
	PTSD Subtotal	0	0
	<i>(c) Sheriff Non-H&H Non-PTSD</i>	14,590	729
	<i>(d) Fire Non-H&H Non-PTSD</i>	11,688	584
	<i>(e) Other Non-H&H Non-PTSD</i>	6,725	336
	Non H&H Non-PTSD Subtotal	33,002	1,650
	WC Subtotal	90,762	4,538
	(ii) General liability		
	<i>(a) Sheriff</i>	2,399	480
	<i>(b) Fire</i>	30	6
<i>(c) Other City</i>	5,196	1,039	
(iii) Automobile liability			
<i>(a) Sheriff</i>	1,845	369	
<i>(b) Fire</i>	475	95	
<i>(c) Other City</i>	530	106	
Liability Subtotal	10,475	2,095	
TOTAL	\$101,237	\$6,633	
(B) JEA	(i) Workers compensation	2,072	104
	(ii) General liability	532	106
	(iii) Automobile liability	778	156
	Liability Subtotal	1,309	262
TOTAL	\$3,382	\$365	
(C) JEA-WS	(i) Workers compensation	396	20
	(ii) General liability	820	164
	(iii) Automobile liability	0	0
	Liability Subtotal	820	164
TOTAL	\$1,216	\$184	
(D) JHA	(i) Workers compensation	404	20
	(ii) General liability	139	28
	(iii) Automobile liability	0	0
	Liability Subtotal	139	28
TOTAL	\$544	\$48	
(E) JPA	(i) Workers compensation	259	13
	(ii) General liability	4	1
	(iii) Automobile liability	2	0
	Liability Subtotal	6	1
TOTAL	\$265	\$14	
(F) JAA	(i) Workers compensation		
	<i>(a) H&H Aviation Sheriff</i>	0	0
	<i>(b) PTSD Aviation Sheriff</i>	0	0
	<i>(c) Other Aviation</i>	536	27
	WC Subtotal	536	27
	(ii) General liability	0	0
	(iii) Automobile liability	0	0
Liability Subtotal	0	0	
TOTAL	\$536	\$27	
(G) TOTAL (A)-(F)	(i) Workers compensation	94,430	4,722
	(ii) General liability	9,120	1,824
	(iii) Automobile liability	3,630	726
	Liability Subtotal	12,750	2,550
GRAND TOTAL	\$107,180	\$7,271	

Notes:

(1) = Per Exhibit X:

Pages 1 to 5, Column (3) for Workers' Compensation - City.

Page 6, Columns (5) to (9) for Workers' Compensation - Non-City.

Pages 7 to 8, Columns (5) to (13) for General and Automobile Liability.

(2) = (1) x ULAE Factors from Summary Exhibit, Pages 5 and 6.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
SUMMARY OF FUNDING FOR NEW CLAIMS FOR FUTURE FISCAL YEARS
EXPECTED CONFIDENCE LEVEL
(\$AMOUNTS IN THOUSANDS)

RETENTION: WORKER'S COMPENSATION \$1.25MM; LIABILITY \$1.5MM			
AGENCY	PROGRAM	FUNDING FOR NEW CLAIMS - UNDISCOUNTED EXPECTED CONFIDENCE LEVEL	
		2018/2019	2019/2020
(A) CITY	(i) Workers compensation		
	(a) Sheriff H&H	6,686	6,990
	(b) Fire H&H	4,396	4,596
	H&H Subtotal	11,081	11,586
	(a2) Sheriff PTSD	100	105
	(b2) Fire PTSD	66	69
	PTSD Subtotal	166	174
	(c) Sheriff Non-H&H Non-PTSD	4,174	4,364
	(d) Fire Non-H&H Non-PTSD	2,830	2,959
	(e) Other Non-H&H Non-PTSD	2,529	2,644
	Non H&H Non-PTSD Subtotal	9,533	9,967
	WC Subtotal	20,781	21,726
	(ii) General liability		
	(a) Sheriff	934	972
	(b) Fire	29	30
	(c) Other City	2,096	2,181
	(iii) Automobile liability		
(a) Sheriff	1,148	1,195	
(b) Fire	303	315	
(c) Other City	318	331	
Liability Subtotal	4,828	5,024	
TOTAL		\$25,609	\$26,750
(B) JEA	(i) Workers compensation	912	949
	(ii) General liability	455	473
	(iii) Automobile liability	236	245
	Liability Subtotal	691	718
TOTAL		\$1,603	\$1,667
(C) JEA-WS	(i) Workers compensation	140	145
	(ii) General liability	465	484
	(iii) Automobile liability	0	0
	Liability Subtotal	465	484
TOTAL		\$605	\$629
(D) JHA	(i) Workers compensation	171	178
	(ii) General liability	61	63
	(iii) Automobile liability	2	2
	Liability Subtotal	63	65
TOTAL		\$234	\$243
(E) JPA	(i) Workers compensation	91	94
	(ii) General liability	15	16
	(iii) Automobile liability	1	1
	Liability Subtotal	16	17
TOTAL		\$107	\$111
(F) JAA	(i) Workers compensation		
	(a) H&H Aviation Sheriff	5	5
	(b) PTSD Aviation Sheriff	0	0
	(c) Other Aviation	331	357
	WC Subtotal	336	363
	(ii) General liability	0	0
	(iii) Automobile liability	1	1
Liability Subtotal	1	1	
TOTAL		\$337	\$364
(G) TOTAL (A)-(F)	(i) Workers compensation	22,431	23,455
	(ii) General liability	4,055	4,219
	(iii) Automobile liability	2,009	2,090
	Liability Subtotal	6,064	6,309
GRAND TOTAL		\$28,495	\$29,764

Notes:

All estimates shown at the expected confidence level.

Workers' Compensation - City - per Exhibits I-V, Page 8A.

Workers' Compensation - Non-City - per Exhibit VI-A - VI-E, Page 2A.

General Liability - per Exhibit VII-B - VII-F, Page 2A.

For GL - City: Exhibit VII-A, Page 2A for Other than Fire and Sheriff, Page 4A for Sheriff claims, and Page 6A for Fire claims.

Automobile Liability - per Exhibit VIII-A - VIII-F, Page 2A.

For AL - City: Exhibit VIII-A, Page 2A for Other than Fire and Sheriff, Page 4A for Sheriff claims, and Page 6A for Fire claims.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
SUMMARY OF FUNDING FOR NEW CLAIMS FOR FISCAL YEAR 2019/2020
AT VARIOUS CONFIDENCE LEVELS
(SAMOUNTS IN THOUSANDS)

AGENCY	PROGRAM	FUNDING FOR NEW CLAIMS FOR FISCAL YEAR 2019/2020 - UNDISCOUNTED					
		55%	70%	75%	80%	85%	90%
(A) CITY	(i) Workers compensation						
	(a) Sheriff H&H	6,990	8,352	8,784	9,209	9,750	10,511
	(b) Fire H&H	4,596	5,491	5,775	6,054	6,410	6,911
	H&H Subtotal	11,586	13,842	14,559	15,263	16,160	17,422
	(a2) Sheriff PTSD	105	125	132	138	146	158
	(b2) Fire PTSD	69	82	87	91	96	104
	PTSD Subtotal	174	208	218	229	242	261
	(c) Sheriff Non-H&H Non-PTSD	4,364	4,842	5,002	5,185	5,379	5,671
	(d) Fire Non-H&H Non-PTSD	2,959	3,283	3,391	3,515	3,647	3,845
	(e) Other Non-H&H Non-PTSD	2,644	2,933	3,030	3,141	3,258	3,435
	Non H&H Non-PTSD Subtotal	9,967	11,058	11,423	11,841	12,284	12,951
	WC Subtotal	21,726	25,108	26,200	27,333	28,687	30,634
	(ii) General liability						
	(a) Sheriff	972	1,129	1,180	1,244	1,319	1,425
	(b) Fire	30	35	36	38	41	44
	(c) Other City	2,181	2,533	2,647	2,791	2,959	3,198
	(iii) Automobile liability						
	(a) Sheriff	1,195	1,437	1,513	1,597	1,704	1,860
	(b) Fire	315	364	383	405	432	471
	(c) Other City	331	383	403	425	454	495
Liability Subtotal	5,024	5,881	6,162	6,500	6,909	7,493	
TOTAL		\$26,750	\$30,989	\$32,362	\$33,833	\$35,596	\$38,127
(B) JEA	(i) Workers compensation	949	1,053	1,088	1,127	1,170	1,233
	(ii) General liability	473	549	574	605	642	693
	(iii) Automobile liability	245	283	298	315	336	367
	Liability Subtotal	718	832	872	920	978	1,060
TOTAL		\$1,667	\$1,885	\$1,960	\$2,047	\$2,148	\$2,293
(C) JEA-WS	(i) Workers compensation	145	161	166	172	179	188
	(ii) General liability	484	562	588	619	657	710
	(iii) Automobile liability	0	0	0	0	0	0
	Liability Subtotal	484	562	588	619	657	710
TOTAL		\$629	\$723	\$754	\$791	\$836	\$898
(D) JHA	(i) Workers compensation	178	197	204	211	219	231
	(ii) General liability	63	73	76	81	85	92
	(iii) Automobile liability	2	2	2	3	3	3
	Liability Subtotal	65	75	78	84	88	95
TOTAL		\$243	\$272	\$282	\$295	\$307	\$326
(E) JPA	(i) Workers compensation	94	104	108	112	116	122
	(ii) General liability	16	19	19	20	22	23
	(iii) Automobile liability	1	1	1	1	1	1
	Liability Subtotal	17	20	20	21	23	24
TOTAL		\$111	\$124	\$128	\$133	\$139	\$146
(F) JAA	(i) Workers compensation						
	(a) H&H Aviation Sheriff	5	6	6	6	7	7
	(b) PTSD Aviation Sheriff	0	0	0	0	0	0
	(c) Other Aviation	357	396	409	424	440	464
	WC Subtotal	363	402	416	431	447	471
	(ii) General liability	0	0	0	0	0	0
	(iii) Automobile liability	1	1	1	1	1	1
	Liability Subtotal	1	1	1	1	1	1
TOTAL		\$364	\$403	\$417	\$432	\$448	\$472
(G) TOTAL	(i) Workers compensation	23,455	27,026	28,181	29,386	30,818	32,880
	(ii) General liability	4,219	4,900	5,120	5,398	5,725	6,185
	(iii) Automobile liability	2,090	2,471	2,601	2,747	2,931	3,198
	Liability Subtotal	6,309	7,371	7,721	8,145	8,656	9,383
GRAND TOTAL		\$29,764	\$34,397	\$35,902	\$37,531	\$39,474	\$42,263

Notes:

Workers' Compensation - City - per Exhibits I-V, Page 8A.

Workers' Compensation - Non-City - per Exhibit VI-A - VI-E, Page 2A.

General Liability - per Exhibit VII-B - VII-F, Page 2A.

For GL - City: Exhibit VII-A, Page 2A for Other than Fire and Sheriff, Page 4A for Sheriff claims, and Page 6A for Fire claims.

Automobile Liability - per Exhibit VIII-B - VIII-F, Page 2A.

For AL - City: Exhibit VIII-A, Page 2A for Other than Fire and Sheriff, Page 4A for Sheriff claims, and Page 6A for Fire claims.

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
SUMMARY OF PROJECTED PAID LOSS
EXPECTED CONFIDENCE LEVEL
(\$AMOUNTS IN THOUSANDS)**

AGENCY	PROGRAM	PROJECTED PAID LOSSES EXPECTED CONFIDENCE LEVEL					
		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
(A) CITY	(i) Workers compensation						
	(a) Sheriff H&H	4,215	4,500	4,717	4,948	5,223	5,428
	(b) Fire H&H	4,707	4,257	4,009	4,039	4,063	4,031
	H&H Subtotal	8,922	8,756	8,726	8,987	9,286	9,459
	(a2) Sheriff PTSD	0	0	0	0	0	0
	(b2) Fire PTSD	0	0	0	0	0	0
	PTSD Subtotal	0	0	0	0	0	0
	(c) Sheriff Non-H&H Non-PTSD	3,764	3,845	3,959	4,121	4,283	4,445
	(d) Fire Non-H&H Non-PTSD	2,525	2,676	2,745	2,788	2,880	2,954
	(e) Other Non-H&H Non-PTSD	2,265	2,318	2,441	2,558	2,665	2,787
	Non H&H Non-PTSD Subtotal	8,553	8,839	9,146	9,468	9,828	10,186
	WC Subtotal	17,476	17,595	17,872	18,455	19,114	19,645
	(ii) General liability						
	(a) Sheriff	1,118	993	769	593	585	610
	(b) Fire	18	38	43	30	36	39
	(c) Other City	2,807	2,542	2,522	1,668	1,749	1,945
	(iii) Automobile liability						
	(a) Sheriff	1,218	1,152	1,169	1,212	1,261	1,313
	(b) Fire	295	303	311	321	333	346
	(c) Other City	343	323	330	338	351	364
Liability Subtotal	5,800	5,351	5,144	4,163	4,313	4,618	
TOTAL		\$23,275	\$22,946	\$23,016	\$22,618	\$23,427	\$24,263
(B) JEA	(i) Workers compensation	835	842	884	926	962	1,006
	(ii) General liability	301	330	406	447	473	503
	(iii) Automobile liability	402	371	323	284	274	272
	Liability Subtotal	703	700	729	732	748	775
	TOTAL		\$1,538	\$1,543	\$1,613	\$1,657	\$1,710
(C) JEA-WS	(i) Workers compensation	90	123	145	151	158	165
	(ii) General liability	403	446	456	469	498	518
	(iii) Automobile liability	0	0	0	0	0	0
	Liability Subtotal	403	446	456	469	498	518
	TOTAL		\$493	\$570	\$602	\$620	\$657
(D) JHA	(i) Workers compensation	167	163	169	172	180	188
	(ii) General liability	68	70	61	62	64	68
	(iii) Automobile liability	0	1	1	2	2	2
	Liability Subtotal	69	71	63	64	66	71
	TOTAL		\$236	\$234	\$232	\$236	\$246
(E) JPA	(i) Workers compensation	122	109	95	95	99	97
	(ii) General liability	5	8	10	13	15	16
	(iii) Automobile liability	1	1	1	1	1	1
	Liability Subtotal	6	9	11	14	16	17
	TOTAL		\$669	\$657	\$634	\$645	\$672
(F) JAA	(i) Workers compensation						
	(a) H&H Aviation Sheriff	0	0	0	0	0	0
	(b) PTSD Aviation Sheriff	0	0	0	0	0	0
	(c) Other Aviation	298	315	313	324	341	355
	WC Subtotal	298	315	313	324	341	355
	(ii) General liability	0	0	0	0	0	0
	(iii) Automobile liability	0	1	1	1	2	2
	Liability Subtotal	0	1	1	1	2	2
TOTAL		\$298	\$315	\$314	\$326	\$343	\$357
(G) TOTAL (A)-(F)	(i) Workers compensation	18,988	19,147	19,478	20,123	20,854	21,456
	(ii) General liability	4,720	4,428	4,268	3,283	3,420	3,700
	(iii) Automobile liability	2,261	2,151	2,137	2,160	2,223	2,301
	Liability Subtotal	6,981	6,579	6,405	5,443	5,643	6,000
	GRAND TOTAL		\$25,969	\$25,725	\$25,883	\$25,566	\$26,497

Notes:

All estimates shown at the expected confidence level.
 Workers' Compensation - City - per Exhibits I-V, Page 8B.
 Workers' Compensation - Non-City - per Exhibit VI-A - VI-F, Page 2B.
 General Liability - per Exhibit VII-B - VII-F, Page 2B.
 For GL - City: Exhibit VII- A, Page 2B for Other than Fire and Sheriff, Page 4B for Sheriff claims, and Page 6B for Fire claims.
 Automobile Liability - per Exhibit VIII-B - VIII-F, Page 2B.
 For AL - City: Exhibit VIII- A, Page 2B for Other than Fire and Sheriff, Page 4B for Sheriff claims, and Page 6B for Fire claims.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF ULAE RATIOS
WORKERS' COMPENSATION
LIMITED TO RETENTION
(AMTS IN THOUSANDS)

FISCAL YEAR	PAID LOSS	PAID ULAE LEGAL	PAID ULAE EXCLUDING LEGAL	ULAE RATIO
	(1)	(1A)	(2)	(3)
2004	\$12,556	\$327	\$1,606	0.125
2005	12,934	327	1,635	0.123
2006	11,339	327	1,570	0.135
2007	11,277	327	1,569	0.135
2008	12,881	327	1,786	0.135
2009	12,834	327	1,940	0.147
2010	15,909	327	1,734	0.107
2011	16,495	327	1,871	0.111
2012	13,827	327	1,788	0.126
2013	18,381	0	1,812	0.099
2014	18,306	0	1,749	0.096
2015	25,261	0	1,960	0.078
2016	20,677	0	1,952	0.094
2017	19,943	0	1,974	0.099
2018	23,262	0	1,916	0.082
WTD. AVERAGE 3 YR AVG. EXCL. HI LO				0.109 0.092 0.113
SELECTED				0.100

(4) Estimated Total Loss Reserves	\$94,430
(5) Case Reserves (Limited to Retention)	51,431
(6) Estimated ULAE Reserve	4,937
(7) ULAE Ratio to Total Reserves	5.2%
 (8) Selected Ratio ULAE to Total Reserves	 5.0%

Note:

- (1), (1A), (2) & (5) - Per CITY OF JACKSONVILLE. Paid losses are gross of excess and other recoveries.
Paid ULAE is Other Operating expenses excluding legal. Legal expenses included with losses effective 10/1/12.
(3) = (2) / [(1) + (1A)].
(4) - Summary Exhibit, Page 1.
(6) - Selected Ratio in (3) x (estimated pure IBNR + 50% of case reserves).
Assuming Pure IBNR = 10% x ((4) - (5)).
(7) = (6) / (5).
(8) - Selected

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF ULAE RATIOS
GENERAL LIABILITY AND AUTOMOBILE LIABILITY
LIMITED TO RETENTION
(AMTS IN THOUSANDS)**

FISCAL YEAR	PAID LOSS (1)	PAID ULAE (2)	ULAE RATIO (3)
2005	\$4,722	1,562	0.331
2006	4,132	1,648	0.399
2007	3,804	1,708	0.449
2008	4,529	1,911	0.422
2009	4,526	2,044	0.452
2010	3,387	2,087	0.616
2011	4,483	2,032	0.453
2012	3,628	1,871	0.516
2013	4,028	1,892	0.470
2014	4,630	1,973	0.426
2015	6,094	2,066	0.339
2016	6,854	2,012	0.294
2017	7,883	2,035	0.258
2018	6,201	2,087	0.337
WTD. AVERAGE			0.391
3 YR AVG.			0.296
EXCL. HI LO			0.407
SELECTED			0.350

(4) Estimated Total Loss Reserves	\$12,750
(5) Case Reserves (Limited to Retention)	4,935
(6) Estimated ULAE Reserve	2,320
(7) ULAE Ratio to Total Reserves	18.2%
(8) Selected Ratio ULAE to Total Reserves	20.0%

Note:

(1), (2) & (5) - Per CITY OF JACKSONVILLE. Paid losses are gross of excess and other recoveries.
Paid ULAE is General Operating expenses including legal.

(3) = (2) / (1).

(4) - Summary Exhibit, Page 1.

(6) - Selected Ratio in (3) x (estimated pure IBNR + 50% of (case reserves + case reserve shortfall portion of IBNR)).
Assuming Pure IBNR = 6.5% x ((4) - (5)).

(7) = (6) / (5).

(8) - Selected

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF NET DISCOUNTED RESERVE CHANGE INCLUDING ULAE
(AMTS IN THOUSANDS)
ALL COVERAGES COMBINED

1. Estimated discounted reserves including ULAE at 9/30/2017	\$109,832
2. Loss payments during 2018 for accident years 2017 and prior	(\$18,717)
3. Change in estimated ultimate losses for accidents years 2017 and prior due to re-evaluation at 9/30/2018	(\$3,709)
4. Estimated ultimate losses for accident year 2018	\$27,784
5. Loss payments during 2018 for accident year 2018	(\$5,366)
6. Change in undiscounted ULAE reserves during 10/1/2017 - 9/31/2018	(\$39)
7. Change in discount	\$4,665
8. Estimated discounted reserves including ULAE at 9/30/2018	\$114,451

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2)-(5) - Total from Exhibits I-V, Page 8A, and Exhibits VI-VIII, Page 7A.
- (6) - Undiscounted ULAE at 9/30/17 - ULAE at 9/30/2018.
- (7) - Total from Exhibit X, Column 4 plus the difference between undiscounted and discounted ULA
- (8) - Sum of (1) through (7).

Glossary of Terms

<i>Accident Year</i>	Attributing to a given year the total cost of losses which occur in that year.
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<i>Bornhuetter-Ferguson Approach (BFA)</i>	Approach which combines reported and paid losses with the expected unreported and unpaid losses to estimate ultimate losses.
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<i>Case Reserve</i>	Estimate of unpaid loss on reported claims.
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<i>Discount Reserve</i>	The present value, calculated at selected interest rates and payout patterns, of the payment of outstanding losses.
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<i>Expected Loss</i>	Exposures multiplied by the pure premium.
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<i>Exposure</i>	Extent of risk and/or possibility of loss (for general liability the exposure is expenditure in thousands, and for auto liability it is the number of vehicles).
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<i>Incurred Loss</i>	Paid loss plus the case reserve.
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<i>IBNR Reserve</i>	Reserve for claims incurred but not reported and for future changes to the case reserves.
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<i>Loss Adjustment Expenses (LAE)</i>	Loss adjustment expenses may be broken down into: Allocated and Unallocated loss adjustment expenses (ALAE and ULAE). ALAE expenses are expenses (other than in-house administrative) for claims handling which can be identified as pertaining to a specific claim (such as outside legal expense). ULAE expenses are general administrative expenses such as salaries of employees.
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<i>Loss Development Approach (LDA)</i>	Methods under which historical claim data are recorded and used to estimate the future development of existing claims. Loss development is the change in value of a body of claims from one valuation date to another valuation date.
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Glossary of Terms
(continued)

Paid Loss Amount paid on open and closed claims.

***Pure
Premium*** The value of losses per unit of exposure.

***Ultimate
Loss*** The incurred loss plus the IBNR reserve. The ultimate loss is the estimate of the total cost to settle all claims in the accident year.

Section VI – Exhibits

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1977	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1978	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0
1980	2	2	2	2	2	2	0
1981	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	0
1983	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1994	1	1	1	1	1	1	0
1995	0	0	0	0	0	0	0
1996	32	32	32	32	32	32	0
1997	174	174	174	174	174	174	0
1998	0	0	0	0	0	0	0
1999	2	2	2	2	2	2	0
2000	647	647	647	647	647	647	0
2001	3	3	3	3	3	3	0
2002	444	444	444	444	444	418	26
2003	1,926	1,926	1,926	1,926	1,926	1,654	272
2004	1,726	1,721	1,724	1,721	1,725	1,210	515
2005	1,381	1,374	1,383	1,374	1,382	908	474
2006	3,692	3,652	3,674	3,652	3,683	2,337	1,346
2007	3,416	3,382	3,361	3,201	3,388	2,268	1,120
2008	2,138	3,023	2,243	3,032	2,191	1,878	312
2009	1,571	1,864	1,918	2,631	1,745	1,070	674
2010	3,024	3,856	3,283	4,032	3,154	2,043	1,111
2011	1,379	1,750	2,263	3,303	1,821	851	970
2012	5,129	6,350	5,040	5,510	5,084	2,834	2,251
2013	3,486	3,820	4,047	4,587	3,767	1,564	2,202
2014	6,755	7,098	6,312	6,158	6,533	2,652	3,881
2015	7,072	8,358	6,597	6,768	6,834	2,683	4,151
2016	6,541	7,375	6,422	6,586	6,481	1,904	4,577
2017	6,564	6,278	6,651	6,622	6,608	1,108	5,500
2018	6,076	6,577	7,053	6,840	6,565	334	6,231
TOTAL	\$63,198	\$69,727	\$65,220	\$69,265	\$64,209	\$28,595	\$35,614

Notes:

- (1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit I, Pages 2 and 3.
- (5) = Selected based on (1), (2), (3) & (4).
- (6) - Per CITY OF JACKSONVILLE.
- (7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(1)	(1A)	(2)	(3)	(4)	(5)
1977	\$0		1.000	0	N/A	
1978	0		1.000	0	N/A	
1979	0		1.000	0	N/A	
1980	2		1.000	2	N/A	
1981	0		1.000	0	N/A	
1982	16		1.000	16	N/A	
1983	0		1.000	0	N/A	
1984	0		1.000	0	N/A	
1985	0		1.000	0	N/A	
1986	0		1.000	0	N/A	
1987	0		1.000	0	N/A	
1988	0		1.000	0	N/A	
1989	0		1.000	0	N/A	
1990	0		1.000	0	N/A	
1991	0		1.000	0	N/A	
1992	0		1.000	0	N/A	
1993	0		1.000	0	N/A	
1994	1		1.000	1	N/A	
1995	0		1.000	0	N/A	
1996	32		1.000	32	N/A	
1997	174		1.000	174	N/A	
1998	0		1.000	0	N/A	
1999	2		1.000	2	N/A	
2000	647		1.000	647	N/A	
2001	3		1.000	3	N/A	
2002	444		1.000	444	N/A	
2003	1,926		1.000	1,926	N/A	
2004	1,721		1.003	1,726	116,865	0.015
2005	1,374		1.006	1,381	134,969	0.010
2006	3,652		1.011	3,692	137,826	0.027
2007	3,201		1.067	3,416	147,222	0.023
2008	1,890		1.131	2,138	153,840	0.014
2009	1,310		1.199	1,571	164,709	0.010
2010	2,376		1.273	3,024	171,283	0.018
2011	1,020		1.352	1,379	175,841	0.008
2012	3,573		1.436	5,129	163,299	0.031
2013	2,287		1.524	3,486	159,681	0.022
2014	4,172		1.619	6,755	160,139	0.042
2015	3,888		1.819	7,072	158,286	0.045
2016	3,139		2.084	6,541	155,726	0.042
2017	2,208		2.973	6,564	155,525	0.042
2018	1,602			6,076	157,499	0.039
TOTAL	\$40,660			\$63,198		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(6)	(6A)	(7)	(8)	(9)	(10)
1977	\$0		1.000	0	N/A	
1978	0		1.000	0	N/A	
1979	0		1.000	0	N/A	
1980	2		1.000	2	N/A	
1981	0		1.000	0	N/A	
1982	16		1.000	16	N/A	
1983	0		1.000	0	N/A	
1984	0		1.000	0	N/A	
1985	0		1.000	0	N/A	
1986	0		1.000	0	N/A	
1987	0		1.000	0	N/A	
1988	0		1.000	0	N/A	
1989	0		1.000	0	N/A	
1990	0		1.000	0	N/A	
1991	0		1.000	0	N/A	
1992	0		1.000	0	N/A	
1993	0		1.000	0	N/A	
1994	1		1.000	1	N/A	
1995	0		1.000	0	N/A	
1996	32		1.000	32	N/A	
1997	174		1.000	174	N/A	
1998	0		1.000	0	N/A	
1999	2		1.000	2	N/A	
2000	647		1.000	647	N/A	
2001	3		1.000	3	N/A	
2002	418		1.050	444	N/A	
2003	1,654		1.117	1,926	N/A	
2004	1,210		1.196	1,721	116,865	0.015
2005	908		1.280	1,374	134,969	0.010
2006	2,337		1.381	3,652	137,826	0.026
2007	2,268		1.491	3,382	147,222	0.023
2008	1,878		1.609	3,023	153,840	0.020
2009	1,070		1.741	1,864	164,709	0.011
2010	2,043		1.887	3,856	171,283	0.023
2011	851		2.056	1,750	175,841	0.010
2012	2,834		2.241	6,350	163,299	0.039
2013	1,564		2.443	3,820	159,681	0.024
2014	2,652		2.677	7,098	160,139	0.044
2015	2,683		3.115	8,358	158,286	0.053
2016	1,904		3.873	7,375	155,726	0.047
2017	1,108		5.666	6,278	155,525	0.040
2018	334			6,577	157,499	0.042
TOTAL	\$28,595			\$69,727		

Notes:
(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.
(2) & (7) - Per City's historical loss patterns.
(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).
For the most recent year, we used the Loss Rate Approach.
(5) = (3) / (4); (10) = (8) / (9). For the most recent year, it is the average of prior years.
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH							
ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$'000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	INCURRED LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1977	N/A	0	0.0%	0	0	0	0
1978	N/A	0	0.0%	0	0	0	0
1979	N/A	0	0.0%	0	0	0	0
1980	N/A	2	0.0%	0	2	2	2
1981	N/A	0	0.0%	0	0	0	0
1982	N/A	16	0.0%	0	16	16	16
1983	N/A	0	0.0%	0	0	0	0
1984	N/A	0	0.0%	0	0	0	0
1985	N/A	0	0.0%	0	0	0	0
1986	N/A	0	0.0%	0	0	0	0
1987	N/A	0	0.0%	0	0	0	0
1988	N/A	0	0.0%	0	0	0	0
1989	N/A	0	0.0%	0	0	0	0
1990	N/A	0	0.0%	0	0	0	0
1991	N/A	0	0.0%	0	0	0	0
1992	N/A	0	0.0%	0	0	0	0
1993	N/A	0	0.0%	0	0	1	1
1994	N/A	1	0.0%	0	1	1	1
1995	N/A	0	0.0%	0	0	0	0
1996	N/A	32	0.0%	0	32	32	32
1997	N/A	174	0.0%	0	174	174	174
1998	N/A	0	0.0%	0	0	0	0
1999	N/A	2	0.0%	0	2	2	2
2000	N/A	647	0.0%	0	647	647	647
2001	N/A	3	0.0%	0	3	3	3
2002	N/A	444	0.0%	0	444	444	444
2003	N/A	1,926	0.0%	0	1,926	1,926	1,926
2004	0.010	116,865	1,169	0.3%	2	1,721	1,721
2005	0.012	134,969	1,681	0.6%	10	1,374	1,383
2006	0.015	137,826	2,054	1.1%	22	3,652	3,674
2007	0.017	147,222	2,555	6.3%	161	3,201	3,361
2008	0.020	153,840	3,046	11.0%	353	1,890	2,243
2009	0.022	164,709	3,665	16.0%	608	1,310	1,918
2010	0.025	171,283	4,231	21.4%	907	2,376	3,283
2011	0.027	175,841	4,774	26.0%	1,243	1,020	2,263
2012	0.030	163,299	4,834	30.3%	1,467	3,573	5,040
2013	0.032	159,681	5,118	34.4%	1,761	2,287	4,047
2014	0.035	160,139	5,597	38.2%	2,140	4,172	6,312
2015	0.038	158,286	6,016	45.0%	2,709	3,888	6,597
2016	0.041	155,726	6,312	52.0%	3,283	3,139	6,422
2017	0.043	155,525	6,695	66.4%	4,443	2,208	6,651
2018	0.046	157,499	7,177	76.0%	5,451	1,602	7,053
TOTAL					\$24,560	\$40,660	\$65,220

BORNHUETTER-FERGUSON PAID LOSS APPROACH							
ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$'000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	PAID LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1977	N/A	0	0.0%	0	0	0	0
1978	N/A	0	0.0%	0	0	0	0
1979	N/A	0	0.0%	0	0	0	0
1980	N/A	2	0.0%	0	2	2	2
1981	N/A	0	0.0%	0	0	0	0
1982	N/A	16	0.0%	0	16	16	16
1983	N/A	0	0.0%	0	0	0	0
1984	N/A	0	0.0%	0	0	0	0
1985	N/A	0	0.0%	0	0	0	0
1986	N/A	0	0.0%	0	0	0	0
1987	N/A	0	0.0%	0	0	0	0
1988	N/A	0	0.0%	0	0	0	0
1989	N/A	0	0.0%	0	0	0	0
1990	N/A	0	0.0%	0	0	0	0
1991	N/A	0	0.0%	0	0	0	0
1992	N/A	0	0.0%	0	0	0	0
1993	N/A	0	0.0%	0	0	0	0
1994	N/A	1	0.0%	0	1	1	1
1995	N/A	0	0.0%	0	0	0	0
1996	N/A	32	0.0%	0	32	32	32
1997	N/A	174	0.0%	0	174	174	174
1998	N/A	0	0.0%	0	0	0	0
1999	N/A	2	0.0%	0	2	2	2
2000	N/A	647	0.0%	0	647	647	647
2001	N/A	3	0.0%	0	3	3	3
2002	N/A	444	4.3%	21	418	444	444
2003	N/A	1,926	10.4%	201	1,654	1,926	1,926
2004	0.010	116,865	1,169	16.4%	191	1,210	1,721
2005	0.012	134,969	1,681	21.9%	368	908	1,374
2006	0.015	137,826	2,054	27.6%	567	2,337	3,652
2007	0.017	147,222	2,555	32.9%	841	2,268	3,201
2008	0.020	153,840	3,046	37.9%	1,154	1,878	3,032
2009	0.022	164,709	3,665	42.6%	1,560	1,070	2,631
2010	0.025	171,283	4,231	47.0%	1,989	2,043	4,032
2011	0.027	175,841	4,774	51.4%	2,452	851	3,303
2012	0.030	163,299	4,834	55.4%	2,677	2,854	5,510
2013	0.032	159,681	5,118	59.1%	3,022	1,564	4,867
2014	0.035	160,139	5,597	62.6%	3,506	2,652	6,158
2015	0.038	158,286	6,016	67.9%	4,085	2,683	6,768
2016	0.041	155,726	6,312	74.2%	4,682	1,904	6,586
2017	0.043	155,525	6,695	82.4%	5,514	1,108	6,622
2018	0.046	157,499	7,177	90.7%	6,506	334	6,840
TOTAL					\$39,337	\$28,595	\$69,265

Notes:
 (2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
 (1) & (8) - See Exhibit I, Page 4, Column (8).
 (3) = (1) x (2); (10) = (8) x (9).
 (4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).
 (5) = (3) x (4); (12) = (10) x (11).
 (7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
 *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUETT-FERGUSON APPROACHES
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	ADJUSTMENT TO CURRENT RETENTION		PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$647	\$647	\$1,000	1.057	N/A			
2001	3	3	1,000	1.057	N/A			
2002	444	444	1,000	1.057	N/A			
2003	1,926	1,926	1,200	1.029	N/A			
2004	1,726	1,721	1,200	1.029	116,865	1.52%	1.03%	1.00%
2005	1,381	1,374	1,200	1.029	134,969	1.05%	1.28%	1.25%
2006	3,692	3,652	1,200	1.029	137,826	2.74%	1.53%	1.49%
2007	3,416	3,382	1,200	1.029	147,222	2.37%	1.79%	1.74%
2008	2,138	3,023	1,200	1.029	153,840	1.73%	2.04%	1.98%
2009	1,571	1,864	1,200	1.029	164,709	1.07%	2.29%	2.23%
2010	3,024	3,856	1,200	1.029	171,283	2.07%	2.54%	2.47%
2011	1,379	1,750	1,200	1.029	175,841	0.92%	2.79%	2.72%
2012	5,129	6,350	1,200	1.029	163,299	3.62%	3.05%	2.96%
2013	3,486	3,820	1,200	1.029	159,681	2.35%	3.30%	3.21%
2014	6,755	7,098	1,250	1.016	160,139	4.39%	3.55%	3.49%
2015	7,072	8,358	1,500	1.000	158,286	4.87%	3.80%	3.80%
2016	6,541	7,375	1,500	1.000	155,726	4.47%	4.05%	4.05%
2017	6,564	6,278	1,500	1.000	155,525	4.13%	4.31%	4.31%
2018	6,076	6,278	1,500	1.000	154,411	4.00%	4.56%	4.56%
2019			1,500	1.000	157,499		4.56%	4.56%

Average	2.75%
Weighted Average	2.68%
Selected	based on fitted

Notes:

- (1) - Per Exhibit I, Page 2, Column (3).
- (1) - Per Exhibit I, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
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CALCULATION OF THE LOSS DEVELOPMENT FACTORS
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(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16	16
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	8	16	1
1995	0	0	0	0	0	0	0	0	0
1996	10	10	10	10	10	10	10	17	36
1997	172	172	172	172	172	173	173	173	174
1998	0	0	0	0	0	0	0	0	0
1999	2	2	2	2	2	2	2	2	0
2000	58	66	216	549	598	618	647		
2001	3	3	3	3	3	3			
2002	280	449	444	444	444				
2003	2,048	2,048	2,048	2,091					
2004	1,645	1,661	1,721						
2005	1,365	1,374							
2006	3,652								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264
1979									
1980									
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983									
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985									
1986									
1987									
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990									
1991									
1992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1993									
1994									
1995							1.938	0.091	1.000
1996	1.000	1.000	1.000	1.000	0.976	1.000	1.769	2.072	0.890
1997	1.000	1.000	1.000	1.001	1.007	1.001	1.000	1.001	1.000
1998									
1999	1.000	0.967	1.000	1.000	1.000	1.000	1.000	1.000	
2000	1.129	3.290	2.547	1.090	1.033	1.046			
2001	1.000	1.000	1.000	1.000	1.000				
2002	1.605	0.989	1.000	1.000					
2003	1.000	1.000	1.021						
2004	1.009	1.036							
2005	1.006								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.075	1.228	1.157	1.009	1.002	1.005	1.171	1.016	
3 YR AVG	1.005	1.008	1.007	1.030	1.011	1.015	1.000	1.358	0.963
10-YR AVERAGE EXCL III LO	1.018	1.003	1.003	1.000	1.001	1.000	1.096	1.000	
5 YR AVG X III LO	1.005	1.012	1.007	1.000	1.002	1.000	1.256	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY									1.017
SELECTED	1.005	1.003	1.003	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.011	1.006	1.003	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

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UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16	16
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0.0941
1990	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0.375	0	0	0
1993	0	0	0	0	0	0	0	0	0
1994	1	1	1	1	0	0	0	0	0
1995	0	0	0	1	0	0	0	0	0
1996	32	32	0	0	0	0	0	0	0
1997	174	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1979									
1980									
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983									
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985									
1986									
1987									
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990									
1991									
1992	1.000	1.000	1.000	1.000	1.000				
1993									
1994	1.000	1.000	1.000						
1995									
1996	1.000								
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									
10-YR AVERAGE									
5 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL HI LO									
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.016	1.014	1.014	1.013	1.012	1.012	1.011	1.011	1.010
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

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INCURRED LOSS DEVELOPMENT ACCIDENT YEAR*	DEVELOPMENT MONTHS							
	372	384	396	408	420	432	444	456
1979	0	0	0	0	0	0	0	0
1980	0	0	2	2	2	2	2	2
1981	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16
1983	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
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2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018								

LOSS DEVELOPMENT FACTORS ACCIDENT YEAR*	372	384	396	408	420	432	444	456
	TO	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	ULT	ULT	ULT
1979								
1980			1.000	1.000	1.000	1.000		
1981	1.000	1.000	1.000	1.000	1.000	1.000		
1982	1.000	1.000	1.000	1.000	1.000			
1983								
1984	1.000	1.000	1.000	1.000				
1985								
1986								
1987								
1988								
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								
1998								
1999								
2000								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
10-YR AVERAGE								
3 YR AVG.								
10-YR AVERAGE EXCL HI LO	1.000	1.000	1.000	1.000	1.000			
5 YR AVG X HI LO								
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.010	1.009	1.009	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

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WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
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PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS													
	12	24	36	48	60	72	84	96	108	120	132	144		
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	
1982	14	16	16	16	16	16	16	16	16	16	16	16	16	
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	
1987	0	0	0	0	0	0	0	0	0	0	0	0	0	
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	
1993	0	0	0	0	0	0	0	0	0	0	0	0	0	
1994	0	0	0	0	0	0	0	0	0	0	0	0	0	
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	
1996	0	9	9	9	9	9	9	10	10	10	10	10	10	
1997	0	5	140	164	172	172	172	172	172	172	172	172	172	
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	
1999	1	1	1	1	1	1	1	1	2	2	2	2	2	
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	3	3	3	3	3	3	
2002	10	15	21	26	32	54	60	64	70	77	94	137	137	
2003	215	380	539	554	559	567	574	588	793	854	935	1,145	1,145	
2004	276	325	347	374	407	426	470	750	871	969	1,067	1,142	1,142	
2005	106	155	174	209	224	252	288	363	443	573	721	781	781	
2006	116	358	454	547	689	828	1,071	1,244	1,433	1,662	2,054	2,171	2,171	
2007	241	805	1,017	1,160	1,261	1,329	1,425	1,673	1,905	2,011	2,090	2,268	2,268	
2008	211	392	413	539	653	809	871	1,497	1,903	1,900	1,905	1,905	1,905	
2009	371	494	573	619	760	789	931	966	1,003	1,070				
2010	243	391	514	1,147	1,653	1,810	1,878	1,952	2,043					
2011	213	348	606	665	745	779	795	851						
2012	776	1,204	1,550	2,137	2,491	2,635	2,834							
2013	364	477	852	1,004	1,117	1,564								
2014	546	1,143	1,801	2,144	2,652									
2015	740	1,307	2,065	2,683										
2016	557	1,478	1,904											
2017	475	1,108												
2018	334													

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156	
1979													
1980													
1981		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.076	1.000	1.008	1.000	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983													
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985													
1986													
1987													
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990													
1991													
1992													1.000
1993													
1994													
1995													
1996		1.000	1.000	1.000	1.000	1.000	1.040	1.025	1.000	1.000	1.000	1.000	1.000
1997		25.934	1.173	1.051	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
1998													
1999	1.000	1.000	1.000	1.000	1.237	1.000	1.000	2.000	1.000	1.000	1.000	1.000	1.000
2000													
2001	1.000	1.000						1.000	1.000	1.000	1.000	0.913	0.913
2002	1.520	1.418	1.238	1.231	1.688	1.111	1.067	1.094	1.100	1.221	1.452	1.619	1.619
2003	1.768	1.418	1.028	1.009	1.014	1.012	1.024	1.349	1.077	1.095	1.224	1.139	1.139
2004	1.178	1.068	1.078	1.088	1.047	1.103	1.596	1.161	1.113	1.101	1.070	1.018	1.018
2005	1.462	1.123	1.201	1.072	1.125	1.143	1.260	1.219	1.295	1.258	1.083	1.085	1.085
2006	3.086	1.268	1.205	1.260	1.202	1.293	1.161	1.152	1.160	1.236	1.057	1.076	1.076
2007	3.340	1.263	1.141	1.087	1.054	1.073	1.174	1.139	1.056	1.039	1.085	1.085	1.085
2008	1.858	1.054	1.305	1.212	1.238	1.077	1.719	1.271	0.999	1.002			
2009	1.332	1.160	1.080	1.229	1.038	1.180	1.038	1.038	1.067				
2010	1.609	1.315	2.232	1.441	1.095	1.038	1.039	1.047					
2011	1.634	1.741	1.099	1.120	1.045	1.021	1.070						
2012	1.552	1.287	1.379	1.165	1.058	1.075							
2013	1.310	1.785	1.178	1.113	1.401								
2014	2.095	1.576	1.191	1.237									
2015	1.766	1.580	1.299										
2016	2.651	1.288											
2017	2.334												
10-YR AVERAGE	1.814	1.405	1.311	1.194	1.130	1.102	1.215	1.147	1.087	1.095	1.097	1.085	1.085
3 YR AVG.	2.250	1.481	1.223	1.172	1.168	1.045	1.049	1.119	1.041	1.092	1.075	1.060	1.060
10-YR AVERAGE EXCL HI LO	1.773	1.401	1.225	1.178	1.108	1.089	1.176	1.140	1.072	1.087	1.065	1.040	1.040
5 YR AVG X HI LO	2.065	1.481	1.223	1.174	1.066	1.063	1.094	1.113	1.094	1.125	1.079	1.100	1.100
PRIOR SELECTED (9/30/2017)	1.878	1.465	1.243	1.162	1.093	1.090	1.085	1.085	1.085	1.080	1.080	1.080	1.080
FACTORS FROM TAIL FACTOR STUDY													
SELECTED	1.888	1.463	1.244	1.164	1.096	1.090	1.090	1.089	1.084	1.082	1.080	1.079	1.079
CUMULATIVE	10.696	5.666	3.873	3.115	2.677	2.443	2.241	2.056	1.887	1.741	1.609	1.491	1.491

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16	16
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	1	1
1995	0	0	0	0	0	0	0	0	0
1996	10	10	10	10	10	10	10	10	31
1997	172	172	172	172	172	173	173	173	174
1998	0	0	0	0	0	0	0	0	0
1999	2	2	2	2	2	2	2	2	
2000	4	14	46	302	379	405	647		
2001	3	3	3	3	3	3			
2002	221	398	407	412	418				
2003	1,304	1,413	1,530	1,654					
2004	1,162	1,180	1,210						
2005	847	908							
2006	2,337								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1979									
1980									
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983									
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985									
1986									
1987									
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990									
1991									
1992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1994								1.000	1.000
1995									
1996	1.000	1.000	1.000	1.000	0.976	1.000	1.057	3.005	1.028
1997	1.000	1.000	1.000	1.001	1.007	1.001	1.000	1.001	1.000
1998				1.000	1.000	1.000	1.000	1.000	
1999	1.000	0.967	1.000	1.000	1.000	1.000	1.000		
2000	3.599	3.227	6.498	1.254	1.071	1.596			
2001	1.000	1.000	1.000	1.000	1.000				
2002	1.801	1.022	1.013	1.014					
2003	1.084	1.083	1.081						
2004	1.016	1.025							
2005	1.072								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.357	1.232	1.559	1.027	1.005	1.060	1.006	1.201	
3 YR AVG	1.057	1.043	1.031	1.089	1.024	1.199	1.000	1.669	1.009
10-YR AVERAGE EXCL HILO	1.122	1.016	1.012	1.002	1.001	1.000	1.000	1.000	
5 YR AVG X HILO	1.057	1.043	1.031	1.004	1.002	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.077	1.069	1.068	1.067	1.055	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY									1.033
SELECTED	1.079	1.071	1.071	1.063	1.050	1.000	1.000	1.000	1.000
CUMULATIVE	1.381	1.280	1.196	1.117	1.050	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16	16
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0
1994	1	1	1	1					
1995	0	0	0						
1996	32	32							
1997	174								
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1979									
1980									
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983									
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985									
1986									
1987									
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990									
1991									
1992	1.000	1.000	1.000	1.000	1.000				
1993	1.000	1.000	1.000						
1994									
1995									
1996	1.000								
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									
10-YR AVERAGE									
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL HI/LO									
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.031	1.029	1.028	1.027	1.025	1.025	1.024	1.023	1.022
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS							
	372	384	396	408	420	432	444	456
1979	0	0	0	0	0	0	0	0
1980	0	0	2	2	2	2	2	2
1981	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	0
1983	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								
1998								
1999								
2000								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018								

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444	456
	TO	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	456	ULT
1979								
1980			1.000	1.000	1.000	1.000	1.000	
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1983								
1984	1.000	1.000	1.000	1.000				
1985								
1986								
1987								
1988								
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								
1998								
1999								
2000								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
10-YR AVERAGE								
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000		
10-YR AVERAGE EXCL HI LO								
5 YR AVG X HI LO								
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.022	1.021	1.021	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1977												11
1994											0	0
1995										0	0	1
1996									3	3	3	3
1997								1	1	1	1	1
1998							0	0	0	1	1	1
1999						3	3	4	4	4	4	4
2000					0	0	0	0	0	0	0	0
2001				5	5	5	5	6	6	6	6	6
2002			13	14	14	14	14	14	14	14	16	16
2003		44	44	44	44	44	44	44	44	46	46	47
2004	46	47	48	48	48	48	48	50	51	51	51	51
2005	37	38	40	41	41	41	41	42	42	42	42	42
2006	69	74	75	75	75	75	76	76	76	76	76	76
2007	87	89	89	89	90	91	91	91	91	92	92	92
2008	46	48	51	51	52	52	52	52	52	52	52	
2009	41	41	42	43	43	44	44	44	44	44		
2010	49	49	54	54	54	55	55	55	55			
2011	31	34	34	34	34	34	35	35				
2012	75	76	77	77	77	77	77					
2013	32	34	38	38	39	39						
2014	46	47	48	48	48							
2015	67	65	65	65								
2016	47	48	48									
2017	63	65										
2018	43											

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156
1977												1.000
1994												
1995												
1996									1.000	1.000	1.000	1.000
1997								1.000	1.000	1.000	1.000	1.000
1998									1.000	1.000	1.000	1.000
1999						1.000	1.333	1.000	1.000	1.000	1.000	1.000
2000												
2001				1.000	1.000	1.000	1.200	1.000	1.000	1.000	1.000	1.000
2002			1.077	1.000	1.000	1.000	1.000	1.000	1.000	1.143	1.000	1.063
2003		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.045	1.000	1.022	1.000
2004	1.022	1.021	1.000	1.000	1.000	1.000	1.042	1.020	1.000	1.000	1.000	1.000
2005	1.027	1.053	1.025	1.000	1.000	1.000	1.024	1.000	1.000	1.000	1.000	1.000
2006	1.072	1.014	1.000	1.000	1.000	1.013	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.023	1.000	1.000	1.011	1.011	1.000	1.000	1.000	1.011	1.000	1.000	
2008	1.043	1.063	1.000	1.020	1.000	1.000	1.000	1.000	1.000	1.000		
2009	1.000	1.024	1.024	1.000	1.023	1.000	1.000	1.000	1.000			
2010	1.000	1.102	1.000	1.000	1.019	1.000	1.000	1.000				
2011	1.097	1.000	1.000	1.000	1.000	1.029	1.000					
2012	1.013	1.013	1.000	1.000	1.000	1.000						
2013	1.063	1.118	1.000	1.026	1.000							
2014	1.022	1.021	1.000	1.000								
2015	0.970	1.000	1.000									
2016	1.021	1.000										
2017	1.032											
AVERAGE	1.029	1.031	1.009	1.004	1.004	1.003	1.050	1.002	1.005	1.012	1.002	1.006
3 YR AVG.	1.008	1.007	1.000	1.009	1.000	1.010	1.000	1.000	1.004	1.000	1.000	1.000
EXCL HI LO	1.028	1.026	1.004	1.003	1.003	1.001	1.027	1.000	1.001	1.000	1.000	1.000
5 YR AVG X HI/LO	1.019	1.011	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.030	1.031	1.007	1.005	1.002	1.001	1.003	1.000	1.001	1.002	1.000	1.000
SELECTED	1.021	1.019	1.003	1.004	1.003	1.004	1.019	1.000	1.002	1.003	1.001	1.001
CUMULATIVE	1.083	1.061	1.041	1.038	1.034	1.031	1.027	1.008	1.007	1.005	1.002	1.001

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	156	168	180	192	204	216	228	240	252	264
1977	11	11	11	11	11	11	11	12	12	12
1994	0	0	0	0	0	0	1	1	1	1
1995	0	0	0	0	0	0	0	0	0	1
1996	3	3	3	3	3	3	3	4	4	4
1997	1	1	1	1	1	2	2	2	2	2
1998	1	1	1	1	1	1	1	1	1	
1999	4	4	4	4	4	4	4	4		
2000	1	1	1	1	2	2	2			
2001	6	6	6	6	6	6				
2002	17	17	17	17	17					
2003	47	47	47	47						
2004	51	51	52							
2005	42	42								
2006	76									
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	ULT.
1977	1.000	1.000	1.000	1.000	1.000	1.000	1.091	1.000	1.000	
1994							1.000	1.000	1.000	
1995										
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.333	1.000	1.000	
1997	1.000	1.000	1.000	1.000	2.000	1.000	1.000	1.000	1.000	
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2000	1.000	1.000	1.000	2.000	1.000	1.000				
2001	1.000	1.000	1.000	1.000	1.000					
2002	1.000	1.000	1.000	1.000						
2003	1.000	1.000	1.000							
2004	1.000	1.020								
2005	1.000									
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
AVERAGE	1.000	1.002	1.000	1.125	1.143	1.000	1.071	1.000	1.000	
3 YR AVG.	1.000	1.007	1.000	1.333	1.000	1.000	1.000	1.000	1.000	
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.023	1.000	1.000	
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	52	1.000	52	\$1,725	\$116,865	0.4	\$33,172
2005	42	1.000	42	1,382	134,969	0.3	32,912
2006	76	1.000	76	3,683	137,826	0.6	48,457
2007	92	1.001	92	3,388	147,222	0.6	36,779
2008	52	1.002	52	2,191	153,840	0.3	42,045
2009	44	1.005	44	1,745	164,709	0.3	39,457
2010	55	1.007	55	3,154	171,283	0.3	56,925
2011	35	1.008	35	1,821	175,841	0.2	51,628
2012	77	1.027	79	5,084	163,299	0.5	64,296
2013	39	1.031	40	3,767	159,681	0.3	93,710
2014	48	1.034	50	6,533	160,139	0.3	131,635
2015	65	1.038	67	6,834	158,286	0.4	101,300
2016	48	1.041	50	6,481	155,726	0.3	129,666
2017	65	1.061	69	6,608	155,525	0.4	95,827
2018	43	1.083	47	6,565	154,411	0.3	140,972
TOTAL	612		568	\$27,939			\$49,155

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit I, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES (1)	RETENTION LIMIT (2)	PAYROLL (IN \$000'S) (3)	LOSS RATE (4)
1977	0	500	N/A	
1978	0	500	N/A	
1979	0	500	N/A	
1980	2	500	N/A	
1981	0	1000	N/A	
1982	16	1000	N/A	
1983	0	250	N/A	
1984	0	250	N/A	
1985	0	250	N/A	
1986	0	250	N/A	
1987	0	1000	N/A	
1988	0	1000	N/A	
1989	0	1000	N/A	
1990	0	1000	N/A	
1991	0	1000	N/A	
1992	0	1000	N/A	
1993	0	1000	N/A	
1994	1	1,000	N/A	
1995	0	1,000	N/A	
1996	32	1,000	N/A	
1997	174	1,000	N/A	
1998	0	1,000	N/A	
1999	2	1,000	N/A	
2000	647	1,000	N/A	
2001	3	1,000	N/A	
2002	444	1,000	N/A	
2003	1,926	1,200	N/A	
2004	1,725	1,200	116,865	0.015
2005	1,382	1,200	134,969	0.010
2006	3,683	1,200	137,826	0.027
2007	3,388	1,200	147,222	0.023
2008	2,191	1,200	153,840	0.014
2009	1,745	1,200	164,709	0.011
2010	3,154	1,200	171,283	0.018
2011	1,821	1,200	175,841	0.010
2012	5,084	1,200	163,299	0.031
2013	3,767	1,200	159,681	0.024
2014	6,533	1,250	160,139	0.041
2015	6,834	1,500	158,286	0.043
2016	6,481	1,500	155,726	0.042
2017	6,608	1,500	155,525	0.042
2018	6,565	1,500	154,411	0.043
(PROJ.) 2018/2019	6,686	1,500	157,499	0.042
(PROJ.) 2019/2020	6,990	1,500	160,649	0.044
(PROJ.) 2020/2021	7,308	1,500	163,862	0.045
(PROJ.) 2021/2022	7,640	1,500	167,139	0.046
(PROJ.) 2022/2023	7,988	1,500	170,482	0.047
(PROJ.) 2023/2024	8,352	1,500	173,892	0.048

*Accident years are 12-month periods ending 9/30 of the stated year.

*Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR	55% LEVEL (5)	70% LEVEL (6)	75% LEVEL (7)	80% LEVEL (8)	85% LEVEL (9)	90% LEVEL (10)
2018/2019	6,686	7,988	8,402	8,808	9,326	10,054
2019/2020	6,990	8,352	8,784	9,209	9,750	10,511
2020/2021	7,308	8,732	9,184	9,628	10,194	10,989
2021/2022	7,640	9,129	9,601	10,066	10,657	11,489
2022/2023	7,988	9,544	10,038	10,524	11,142	12,012
2023/2024	8,352	9,979	10,495	11,003	11,649	12,559

Notes:

(1) - Exhibit I, Page 1, Column (5). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected years, it is selected based on prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Effective Date	Retention
10/1/1977	500
10/1/1980	1,000
10/1/1982	250
11/1/1986	1,000
10/1/2002	1,200

*Accident years are 12-month periods ending 9/30 of the stated year.

*Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	9.3%	17.6%	25.8%	32.1%	37.4%	40.9%	44.6%	48.6%	53.0%	57.4%	62.1%
INCREMENTAL LOSS PAYOUT PATTERN	9.3%	8.3%	8.2%	6.3%	5.3%	3.6%	3.7%	4.0%	4.4%	4.4%	4.7%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		9.2%	9.0%	6.9%	5.8%	3.9%	4.1%	4.4%	4.8%	4.9%	5.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	9.3%	8.3%	8.2%	6.3%	5.3%	3.6%	3.7%	4.0%	4.4%	4.4%	4.7%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	1	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	32	0	0	0	0	0	0	0	0	0	0	0	0
1997	174	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	2	0	0	0	0	0	0	0	0	0	0	0	0
2000	647	0	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0	0
2002	444	26	26	0	0	0	0	0	0	0	0	0	0
2003	1,926	272	148	124	0	0	0	0	0	0	0	0	0
2004	1,725	515	187	179	150	0	0	0	0	0	0	0	0
2005	1,382	474	120	129	123	103	0	0	0	0	0	0	0
2006	3,683	1,346	279	269	289	277	232	0	0	0	0	0	0
2007	3,388	1,120	181	195	188	202	193	162	0	0	0	0	0
2008	2,191	312	41	44	47	45	49	47	39	0	0	0	0
2009	1,745	674	75	78	84	91	87	94	90	75	0	0	0
2010	3,154	1,111	105	111	117	125	135	130	140	134	112	0	0
2011	1,821	970	82	84	89	93	100	108	104	112	107	90	0
2012	5,084	2,251	163	177	180	191	201	216	232	224	241	231	194
2013	3,767	2,202	137	150	162	166	176	185	198	213	206	221	389
2014	6,533	3,881	222	228	248	270	275	292	307	329	354	342	1,015
2015	6,834	4,151	321	219	225	245	266	271	288	303	324	350	1,339
2016	6,481	4,577	388	324	221	227	247	268	274	291	305	327	1,704
2017	6,608	5,500	546	420	351	239	246	268	291	296	314	330	2,198
2018	6,565	6,231	571	561	432	361	246	253	276	299	305	324	2,603
2019	6,686		625	555	546	420	351	239	246	268	291	297	2,846
2020	6,990			654	580	571	440	367	250	258	280	304	3,286
2021	7,308				683	607	597	460	384	262	269	293	3,754
2022	7,640					714	634	624	480	402	273	282	4,231
2023	7,988						747	663	653	502	420	286	4,718
2024	8,352							781	693	682	525	439	5,231
2025	8,689								812	721	710	546	5,899
2026	9,040									845	750	738	6,706
2027	9,405										879	781	7,745
2028	9,785											915	8,870
TOTAL	\$146,093	\$35,614	\$4,215	\$4,500	\$4,717	\$4,948	\$5,223	\$5,428	\$5,758	\$6,216	\$6,669	\$7,096	\$62,728

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$34,532
2. Loss payments during 2018 for the accident years 2017 and prior	(\$3,855)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$1,294)
4. Estimated ultimate losses for accident year 2018	\$6,565
5. Loss payments during 2018 for the accident year 2018	(\$334)
6. Estimated net undiscounted reserves at 9/30/2018	\$35,614

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit I, Page 8C, Column (3).
- (3) - Total from Exhibit I, Page 8B, Column (3).
- (4) - See Exhibit I, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$21	\$21	\$0
1995	0	0	0
1996	32	32	0
1997	174	174	0
1998	0	0	0
1999	2	2	0
2000	565	647	82
2001	3	3	(0)
2002	454	444	(10)
2003	1,873	1,926	54
2004	1,625	1,725	100
2005	1,317	1,382	66
2006	3,467	3,683	216
2007	3,097	3,388	292
2008	2,746	2,191	(555)
2009	2,038	1,745	(294)
2010	3,585	3,154	(432)
2011	2,229	1,821	(408)
2012	5,506	5,084	(422)
2013	3,541	3,767	225
2014	6,276	6,533	258
2015	7,166	6,834	(332)
2016	7,120	6,481	(639)
2017	6,102	6,608	506
TOTAL	\$58,938	\$57,644	(\$1,294)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit I, Page 1, Column (5).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$21	\$21	\$0
1995	0	0	0
1996	32	32	0
1997	174	174	0
1998	0	0	0
1999	2	2	0
2000	405	647	242
2001	3	3	0
2002	412	418	6
2003	1,530	1,654	124
2004	1,180	1,210	30
2005	847	908	61
2006	2,171	2,337	166
2007	2,090	2,268	178
2008	1,874	1,878	5
2009	1,003	1,070	67
2010	1,952	2,043	91
2011	795	851	56
2012	2,635	2,834	198
2013	1,117	1,564	447
2014	2,144	2,652	508
2015	2,065	2,683	618
2016	1,478	1,904	426
2017	475	1,108	633
TOTAL	\$24,407	\$28,261	\$3,855

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit I, Page 1, Column (6).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1977	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1978	358	358	358	358	358	358	0
1979	5	5	5	5	5	5	0
1980	505	505	505	505	505	505	0
1981	1,507	1,460	1,507	1,507	1,484	1,460	23
1982	1,625	1,625	1,625	1,625	1,625	1,625	0
1983	1,694	1,694	1,694	1,694	1,694	1,694	0
1984	1,891	1,891	1,891	1,891	1,891	1,891	0
1985	906	906	906	906	906	906	0
1986	1,034	984	1,034	1,034	1,009	984	25
1987	94	94	94	94	94	94	0
1988	2,401	2,401	2,401	2,401	2,401	2,401	0
1989	3,471	3,237	3,471	3,471	3,354	3,237	117
1990	2,208	2,002	2,208	2,208	2,105	2,002	103
1991	1,995	1,735	1,995	1,995	1,865	1,735	130
1992	698	437	698	698	567	437	130
1993	651	547	651	651	599	547	52
1994	2,745	2,668	2,745	2,745	2,706	2,668	38
1995	4,071	3,369	4,066	4,016	3,693	3,278	415
1996	9,464	8,546	9,451	9,204	8,875	8,079	796
1997	4,715	4,818	4,718	4,814	4,816	4,418	397
1998	4,933	4,029	4,895	4,520	4,275	3,578	697
1999	3,652	2,903	3,606	3,203	3,053	2,491	562
2000	6,172	4,526	6,039	5,179	4,853	3,747	1,105
2001	9,543	6,622	9,255	7,663	7,143	5,206	1,936
2002	4,721	3,849	4,620	3,960	3,904	2,869	1,035
2003	4,547	2,615	4,275	3,265	2,940	1,827	1,113
2004	3,675	2,127	3,421	2,467	2,297	1,391	906
2005	4,005	3,008	3,820	3,202	3,105	1,840	1,265
2006	1,926	1,114	2,622	2,192	1,653	632	1,020
2007	764	540	2,165	2,116	1,328	284	1,044
2008	2,721	2,797	2,316	2,333	2,565	1,362	1,203
2009	1,098	890	1,698	1,636	1,263	401	862
2010	2,622	2,237	2,684	2,527	2,382	934	1,448
2011	2,160	1,328	2,597	2,299	1,814	514	1,300
2012	5,086	3,817	3,820	3,298	4,005	1,366	2,639
2013	3,757	3,124	3,431	3,203	3,379	1,035	2,343
2014	1,751	1,279	3,103	3,025	2,290	391	1,899
2015	12,982	9,867	6,802	5,542	7,705	2,565	5,140
2016	3,933	3,435	3,960	3,858	3,796	722	3,075
2017	3,968	2,061	4,065	3,785	3,470	311	3,159
2018	3,881	2,988	4,245	4,051	3,791	164	3,628
TOTAL	\$129,933	\$104,437	\$125,462	\$115,145	\$111,560	\$71,954	\$39,606

Notes:

- (1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit II, Pages 2 and 3.
- (5) = Selected based on (1), (2), (3) & (4).
- (6) - Per CITY OF JACKSONVILLE.
- (7) = (5) - (6).
- *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.
- *Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(1)	(1A)	(2)	(3)	(4)	(5)
1977	80		1.000	0	N/A	
1978	358		1.000	358	N/A	
1979	5		1.000	5	N/A	
1980	505		1.000	505	N/A	
1981	1,507		1.000	1,507	N/A	
1982	1,625		1.000	1,625	N/A	
1983	1,694		1.000	1,694	N/A	
1984	1,891		1.000	1,891	N/A	
1985	906		1.000	906	N/A	
1986	1,034		1.000	1,034	N/A	
1987	94		1.000	94	N/A	
1988	2,401		1.000	2,401	N/A	
1989	3,471		1.000	3,471	N/A	
1990	2,208		1.000	2,208	N/A	
1991	1,995		1.000	1,995	N/A	
1992	698		1.000	698	N/A	
1993	651		1.000	651	N/A	
1994	2,745		1.000	2,745	N/A	
1995	4,016		1.014	4,071	N/A	
1996	9,204		1.028	9,464	N/A	
1997	4,516		1.044	4,715	N/A	
1998	4,520		1.091	4,933	N/A	
1999	3,203		1.140	3,652	N/A	
2000	5,179		1.192	6,172	N/A	
2001	7,663		1.245	9,543	49,323	0.193
2002	3,627		1.301	4,721	51,475	0.092
2003	3,265		1.392	4,547	54,736	0.083
2004	2,467		1.490	3,675	56,264	0.065
2005	2,513		1.594	4,005	67,634	0.059
2006	1,129		1.706	1,926	67,158	0.029
2007	419		1.825	764	71,897	0.011
2008	1,393		1.953	2,721	74,955	0.036
2009	526		2.090	1,098	77,831	0.014
2010	1,173		2.236	2,622	84,047	0.031
2011	903		2.392	2,160	80,441	0.027
2012	1,987		2.560	5,086	75,531	0.067
2013	1,372		2.739	3,757	74,599	0.050
2014	592		2.958	1,751	79,498	0.022
2015	4,027		3.224	12,982	79,710	0.163
2016	1,115		3.529	3,933	78,664	0.050
2017	836		4.746	3,988	81,051	0.049
2018	626			3,881	82,002	0.047
TOTAL	\$90,056			\$129,933		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(6)	(6A)	(7)	(8)	(9)	(10)
1977	80		1.000	0	N/A	
1978	358		1.000	358	N/A	
1979	5		1.000	5	N/A	
1980	505		1.000	505	N/A	
1981	1,460		1.000	1,460	N/A	
1982	1,625		1.000	1,625	N/A	
1983	1,694		1.000	1,694	N/A	
1984	1,891		1.000	1,891	N/A	
1985	906		1.000	906	N/A	
1986	984		1.000	984	N/A	
1987	94		1.000	94	N/A	
1988	2,401		1.000	2,401	N/A	
1989	3,237		1.000	3,237	N/A	
1990	2,002		1.000	2,002	N/A	
1991	1,735		1.000	1,735	N/A	
1992	437		1.000	437	N/A	
1993	547		1.000	547	N/A	
1994	2,668		1.000	2,668	N/A	
1995	3,278		1.028	3,369	N/A	
1996	8,079		1.058	8,546	N/A	
1997	4,418		1.090	4,818	N/A	
1998	3,578		1.126	4,029	N/A	
1999	2,491		1.166	2,903	N/A	
2000	3,747		1.208	4,526	N/A	
2001	5,206		1.272	6,622	49,323	0.134
2002	2,869		1.341	3,849	51,475	0.075
2003	1,827		1.431	2,615	54,736	0.048
2004	1,391		1.529	2,127	56,264	0.038
2005	1,840		1.635	3,008	67,634	0.044
2006	632		1.761	1,114	67,158	0.017
2007	284		1.902	540	71,897	0.008
2008	1,362		2.054	2,797	74,955	0.037
2009	401		2.218	890	77,831	0.011
2010	934		2.396	2,237	84,047	0.027
2011	514		2.587	1,328	80,441	0.017
2012	1,366		2.794	3,817	75,531	0.051
2013	1,035		3.017	3,124	74,599	0.042
2014	391		3.271	1,279	79,498	0.016
2015	2,565		3.847	9,867	79,710	0.124
2016	722		4.759	3,435	78,664	0.044
2017	311		6.636	2,061	81,051	0.025
2018	164			2,988	82,002	0.036
TOTAL	\$71,954			\$104,437		

Notes:
 (1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.
 (2) & (7) - Per City's historical loss patterns.
 (3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).
 For the most recent year, we used the Loss Rate Approach.
 (5) = (3) / (4); (10) = (8) / (9). For the most recent year, it is the average of prior years.
 *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.
 *Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (1)	PAYROLL (\$'000s) (2)	EXPECTED ULTIMATE LOSSES (3)	EXPECTED % OF LOSSES UNREPORTED (4)	IBNR RESERVES (5)	INCURRED LOSSES @9/30/2018 (6)	ULTIMATE INCURRED LOSSES (7)
1977		N/A	0	0.0%	0	\$0	\$0
1978		N/A	358	0.0%	0	358	358
1979		N/A	5	0.0%	0	5	5
1980		N/A	505	0.0%	0	505	505
1981		N/A	1,484	0.0%	0	1,507	1,507
1982		N/A	1,625	0.0%	0	1,625	1,625
1983		N/A	1,694	0.0%	0	1,694	1,694
1984		N/A	1,891	0.0%	0	1,891	1,891
1985		N/A	906	0.0%	0	906	906
1986		N/A	1,009	0.0%	0	1,034	1,034
1987		N/A	94	0.0%	0	94	94
1988		N/A	2,401	0.0%	0	2,401	2,401
1989		N/A	3,354	0.0%	0	3,471	3,471
1990		N/A	2,105	0.0%	0	2,208	2,208
1991		N/A	1,865	0.0%	0	1,995	1,995
1992		N/A	567	0.0%	0	698	698
1993		N/A	599	0.0%	0	651	651
1994		N/A	2,706	0.0%	0	2,745	2,745
1995		N/A	3,720	1.3%	50	4,016	4,066
1996		N/A	9,005	2.8%	248	9,204	9,451
1997		N/A	4,767	4.2%	202	4,516	4,718
1998		N/A	4,481	8.4%	375	4,520	4,895
1999		N/A	3,278	12.3%	403	3,203	3,606
2000		N/A	5,349	16.1%	860	5,179	6,039
2001	0.164	49,323	8,083	19.7%	1,592	7,663	9,255
2002	0.083	51,475	4,285	23.2%	992	3,627	4,620
2003	0.065	54,736	3,581	28.2%	1,009	3,265	4,275
2004	0.052	56,264	2,901	32.9%	954	2,467	3,421
2005	0.052	67,634	3,507	37.3%	1,307	2,513	3,820
2006	0.054	67,158	3,609	41.4%	1,493	1,129	2,622
2007	0.054	71,897	3,863	45.2%	1,747	419	2,165
2008	0.025	74,955	1,892	48.8%	923	1,393	2,316
2009	0.029	77,831	2,249	52.1%	1,173	526	1,698
2010	0.033	84,047	2,735	55.3%	1,512	1,173	2,684
2011	0.036	80,441	2,910	58.2%	1,694	903	2,597
2012	0.040	75,531	3,008	60.9%	1,833	1,987	3,820
2013	0.043	74,599	3,243	63.5%	2,059	1,372	3,431
2014	0.048	79,498	3,794	66.2%	2,512	592	3,103
2015	0.050	79,710	4,023	69.0%	2,775	4,027	6,802
2016	0.050	78,664	3,970	71.7%	2,845	1,115	3,960
2017	0.050	81,051	4,091	78.9%	3,229	836	4,065
2018	0.050	83,642	4,222	85.7%	3,620	626	4,245
TOTAL					\$35,406	\$90,056	\$125,462

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (8)	PAYROLL (\$'000s) (9)	EXPECTED ULTIMATE LOSSES (10)	EXPECTED % OF LOSSES UNPAID (11)	LOSS RESERVES (12)	PAID LOSSES @9/30/2018 (13)	ULTIMATE INCURRED LOSSES (14)
1977		N/A	0	0.0%	0	\$0	\$0
1978		N/A	358	0.0%	0	358	358
1979		N/A	5	0.0%	0	5	5
1980		N/A	505	0.0%	0	505	505
1981		N/A	1,484	0.0%	0	1,460	1,507
1982		N/A	1,625	0.0%	0	1,625	1,625
1983		N/A	1,694	0.0%	0	1,694	1,694
1984		N/A	1,891	0.0%	0	1,891	1,891
1985		N/A	906	0.0%	0	906	906
1986		N/A	1,009	0.0%	0	984	1,034
1987		N/A	94	0.0%	0	94	94
1988		N/A	2,401	0.0%	0	2,401	2,401
1989		N/A	3,354	0.0%	0	3,237	3,471
1990		N/A	2,105	0.0%	0	2,002	2,208
1991		N/A	1,865	0.0%	0	1,735	1,995
1992		N/A	567	0.0%	0	437	698
1993		N/A	599	0.0%	0	547	651
1994		N/A	2,706	0.0%	0	2,668	2,745
1995		N/A	3,720	2.7%	101	3,278	4,016
1996		N/A	9,005	5.5%	492	8,079	9,204
1997		N/A	4,767	8.3%	395	4,418	4,814
1998		N/A	4,481	11.2%	502	3,578	4,520
1999		N/A	3,278	14.2%	466	2,491	3,203
2000		N/A	5,349	17.2%	920	3,747	5,179
2001	0.164	49,323	8,083	21.4%	1,728	5,206	7,663
2002	0.083	51,475	4,285	25.5%	1,091	2,869	3,960
2003	0.065	54,736	3,581	30.1%	1,079	1,827	3,265
2004	0.052	56,264	2,901	34.0%	1,004	1,391	2,467
2005	0.052	67,634	3,507	38.8%	1,361	1,840	3,202
2006	0.054	67,158	3,609	43.2%	1,559	632	2,192
2007	0.054	71,897	3,863	47.4%	1,832	284	2,116
2008	0.025	74,955	1,892	51.3%	971	1,362	2,333
2009	0.029	77,831	2,249	54.9%	1,235	401	1,636
2010	0.033	84,047	2,735	58.3%	1,593	934	2,527
2011	0.036	80,441	2,910	61.3%	1,785	514	2,299
2012	0.040	75,531	3,008	64.2%	1,931	1,366	3,298
2013	0.043	74,599	3,243	66.9%	2,168	1,035	3,203
2014	0.048	79,498	3,794	69.4%	2,634	391	3,025
2015	0.050	79,710	4,023	74.0%	2,977	2,565	5,542
2016	0.050	78,664	3,970	79.0%	3,136	722	3,858
2017	0.050	81,051	4,091	84.9%	3,475	511	3,785
2018	0.050	83,642	4,222	92.1%	3,888	164	4,051
TOTAL					\$38,324	\$71,954	\$115,145

Notes:
(2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
(1) & (8) - Exhibit II, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit II, Page 2 loss rates.
(3) = (1) x (2); (10) = (8) x (9). For years with no exposure, (3) & (10) are the average of the ILDA and PLDA ultimates.
(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).
(5) = (3) x (4); (12) = (10) x (11).
(7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
* Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUETTER-FERGUSON APPROACHES
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$6,172	\$4,526	\$1,000	1.057	N/A			
2001	9,543	6,622	1,000	1.057	49,323	17.32%		
2002	4,721	3,849	1,000	1.057	51,475	8.80%		
2003	4,547	2,615	1,200	1.029	54,736	6.73%		
2004	3,675	2,127	1,200	1.029	56,264	5.30%		
2005	4,005	3,008	1,200	1.029	67,634	5.33%		
2006	1,926	1,114	1,200	1.029	67,158	2.33%	1.85%	1.80%
2007	764	540	1,200	1.029	71,897	0.93%	2.22%	2.16%
2008	2,721	2,797	1,200	1.029	74,955	3.79%	2.60%	2.52%
2009	1,098	890	1,200	1.029	77,831	1.31%	2.97%	2.89%
2010	2,622	2,237	1,200	1.029	84,047	2.97%	3.35%	3.25%
2011	2,160	1,328	1,200	1.029	80,441	2.23%	3.72%	3.62%
2012	5,086	3,817	1,200	1.029	75,531	6.06%	4.10%	3.98%
2013	3,757	3,124	1,200	1.029	74,599	4.74%	4.47%	4.35%
2014	1,751	1,279	1,250	1.016	79,498	1.94%	4.85%	4.77%
2015	12,982	9,867	1,250	1.000	79,710	14.33%	5.22%	5.22%
2016	3,933	3,435	1,250	1.000	78,664	4.68%	5.60%	5.60%
2017	3,968	2,061	1,250	1.000	81,051	3.72%	5.97%	5.97%
2018	3,881	2,988	1,250	1.000	82,002	4.19%	6.35%	6.35%
2019			1,250	1.000	83,642		6.72%	6.72%

Average	5.37%
Weighted Average	5.05%
Selected	fitted

Notes:

- (1) - Per Exhibit II, Page 2, Column (3).
- (1) - Per Exhibit II, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	230	361	361	362	403	358	358	358	358
1979	5	5	5	5	5	5	5	5	5
1980	195	205	235	297	297	362	396	396	396
1981	602	602	630	606	606	582	591	656	656
1982	559	564	614	617	831	831	931	931	931
1983	1,585	1,585	1,634	2,082	2,086	2,063	2,246	2,340	2,402
1984	1,150	1,243	1,493	1,563	1,633	1,628	1,665	1,871	2,244
1985	1,141	1,500	1,500	1,470	1,486	1,523	1,495	1,480	1,453
1986	275	357	357	357	331	345	350	444	538
1987	97	97	127	94	94	94	94	94	94
1988	1,565	1,565	1,433	1,332	1,544	1,538	1,598	2,066	2,071
1989	474	511	531	531	561	556	580	632	583
1990	1,255	1,442	1,453	1,623	1,738	1,658	1,708	1,933	2,003
1991	322	322	322	497	1,000	1,390	1,442	1,442	1,483
1992	159	159	184	218	223	216	216	216	366
1993	315	357	391	396	423	423	438	613	613
1994	1,756	2,645	2,645	2,775	2,779	2,799	2,799	2,864	2,889
1995	2,785	2,840	2,971	3,071	3,089	3,275	3,359	3,757	4,186
1996	6,136	6,734	6,792	7,324	7,517	7,678	8,324	8,981	9,240
1997	4,034	4,194	4,469	4,669	4,869	4,613	4,978	5,011	5,011
1998	3,296	3,841	4,145	4,292	5,458	5,698	5,880	5,877	6,127
1999	2,449	2,554	2,552	2,804	3,189	3,186	3,155	3,362	
2000	3,579	3,873	4,220	4,517	4,744	4,757	5,179		
2001	5,453	6,084	7,056	8,555	9,678	9,882			
2002	3,350	3,418	3,428	3,604	3,849				
2003	2,452	2,991	3,086	3,265					
2004	2,113	2,153	2,467						
2005	2,612	2,640							
2006	1,129								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.569	1.000	1.001	1.113	0.888	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.051	1.149	1.263	1.000	1.219	1.092	1.000	1.000	1.000
1981	1.000	1.046	0.962	1.000	0.961	1.015	1.110	1.000	1.000
1982	1.009	1.089	1.005	1.348	1.000	1.000	1.120	1.000	1.017
1983	1.000	1.031	1.274	1.002	0.989	1.088	1.042	1.027	1.005
1984	1.081	1.201	1.047	1.045	0.997	1.023	1.124	1.199	0.975
1985	1.315	1.000	0.980	1.011	1.025	0.982	0.990	0.982	1.004
1986	1.297	1.000	1.000	0.927	1.041	1.016	1.268	1.212	1.118
1987	1.000	1.309	0.743	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.000	0.916	0.929	1.159	0.996	1.039	1.293	1.002	1.243
1989	1.078	1.039	1.000	1.057	0.992	1.043	1.090	0.921	1.207
1990	1.150	1.007	1.117	1.071	0.954	1.030	1.132	1.036	1.224
1991	1.000	1.000	1.544	2.013	1.389	1.037	1.000	1.028	1.072
1992	1.000	1.157	1.183	1.023	0.968	1.000	1.000	1.694	1.003
1993	1.134	1.096	1.013	1.069	1.000	1.035	1.400	1.000	1.111
1994	1.506	1.000	1.049	1.001	1.007	1.000	1.023	1.009	1.086
1995	1.020	1.046	1.034	1.006	1.060	1.026	1.118	1.114	1.030
1996	1.097	1.009	1.078	1.026	1.021	1.084	1.079	1.029	1.007
1997	1.040	1.066	1.045	1.043	0.947	1.079	1.007	1.000	1.020
1998	1.165	1.079	1.035	1.272	1.044	1.032	0.999	1.043	
1999	1.043	0.999	1.099	1.137	0.999	0.990	1.066		
2000	1.082	1.090	1.070	1.050	1.003	1.089			
2001	1.116	1.160	1.212	1.131	1.021				
2002	1.020	1.003	1.051	1.068					
2003	1.220	1.032	1.058						
2004	1.019	1.146							
2005	1.011								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.081	1.063	1.073	1.080	1.007	1.037	1.082	1.087	1.100
3 YR AVG.	1.083	1.060	1.107	1.083	1.008	1.037	1.024	1.024	1.019
10-YR AVERAGE EXCL HI LO	1.073	1.059	1.061	1.066	1.008	1.037	1.053	1.032	1.095
5 YR AVG X HI/LO	1.052	1.089	1.076	1.112	1.008	1.065	1.051	1.027	1.045
PRIOR SELECTED (9/30/2017)	1.070	1.070	1.070	1.070	1.045	1.045	1.045	1.045	1.045
FACTORS FROM TAIL FACTOR STUDY									1.017
SELECTED	1.070	1.070	1.070	1.070	1.045	1.045	1.045	1.045	1.045
CUMULATIVE	1.706	1.594	1.490	1.392	1.301	1.245	1.192	1.140	1.091

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	358	358	358	358	358	358	358	358	358
1979	5	5	5	5	5	5	5	5	5
1980	396	396	396	493	528	528	550	550	599
1981	655	666	671	678	738	724	779	924	924
1982	946	946	1,046	1,062	1,063	1,408	1,428	1,428	1,498
1983	2,415	2,429	2,405	2,649	2,707	2,994	2,816	2,866	2,866
1984	2,188	2,213	2,257	2,277	2,577	2,588	2,588	2,760	2,844
1985	1,460	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466
1986	601	606	742	742	742	742	944	1,293	1,309
1987	94	94	94	94	94	94	94	94	94
1988	2,574	2,574	2,656	2,656	2,757	2,765	2,818	2,894	2,894
1989	703	703	753	784	788	963	963	1,187	4,015
1990	2,452	2,632	2,822	2,984	2,996	2,996	3,101	3,069	
1991	1,589	1,643	1,649	1,657	1,816	1,816	2,166		
1992	367	374	373	373	373	698			
1993	681	686	686	716	651				
1994	3,138	3,178	3,278	3,265					
1995	4,310	4,322	4,355						
1996	9,306	10,309							
1997	5,110								
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.245	1.071	1.000	1.042	1.000	1.090	0.994
1981	1.017	1.008	1.010	1.088	0.981	1.076	1.185	1.000	1.000
1982	1.000	1.106	1.015	1.000	1.325	1.014	1.000	1.049	1.000
1983	1.006	0.990	1.101	1.022	1.106	0.941	1.018	1.000	0.975
1984	1.011	1.020	1.009	1.132	1.004	1.000	1.066	1.030	0.986
1985	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.008	1.224	1.000	1.000	1.000	1.272	1.370	1.012	1.115
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.000	1.032	1.000	1.038	1.003	1.019	1.027	1.000	1.065
1989	1.000	1.071	1.041	1.005	1.222	1.000	1.233	3.381	
1990	1.073	1.072	1.057	1.004	1.000	1.035	0.990		
1991	1.034	1.004	1.005	1.096	1.000	1.193			
1992	1.020	0.996	1.000	1.000	1.871				
1993	1.008	1.000	1.044	0.909					
1994	1.013	1.031	0.996						
1995	1.003	1.008							
1996	1.108								
1997									
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2016									
2017									
10-YR AVERAGE	1.026	1.044	1.014	1.018	1.121	1.047	1.089	1.256	1.014
3 YR AVG.	1.041	1.013	1.013	1.002	1.290	1.076	1.083	1.794	1.060
10-YR AVERAGE EXCL HI LO	1.019	1.027	1.011	1.018	1.042	1.033	1.066	1.023	1.006
5 YR AVG X HI LO	1.014	1.004	1.016	1.003	1.075	1.018	1.087	1.004	1.022
PRIOR SELECTED (9/30/2017)	1.016	1.014	1.014	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.016	1.014	1.014	1.013	1.012	1.012	1.011	1.011	1.010
SELECTED	1.016	1.014	1.014	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.044	1.028	1.014	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS										
	372	384	396	408	420	432	444	456	468	480	492
1978	358	358	358	358	358	358	358	358	358	358	358
1979	5	5	5	5	5	5	5	5	5	5	5
1980	596	596	596	596	596	596	596	596	596	596	596
1981	924	924	1,068	1,206	1,603	1,603	1,613	1,613	1,613		
1982	1,498	1,545	1,566	1,630	1,630	1,625	1,625				
1983	2,795	2,797	2,805	2,805	2,805	2,810					
1984	2,803	2,750	2,750	2,750	2,790						
1985	1,466	1,466	1,466	1,466							
1986	1,459	1,459	1,949								
1987	94	94									
1988	3,081										
1989											
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2017											
2018											

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444	456	468	480	492
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	456	468	480	492	ULT
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.156	1.130	1.329	1.000	1.006	1.000				
1982	1.032	1.013	1.041	1.000	0.997	1.000					
1983	1.001	1.003	1.000	1.000	1.002						
1984	0.981	1.000	1.000	1.015							
1985	1.000	1.000	1.000								
1986	1.000	1.337									
1987	1.000										
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2017											
10-YR AVERAGE	1.001										
3 YR AVG.	1.000	1.112	1.000	1.005	1.000	1.002	1.000	1.000			
10-YR AVERAGE EXCL HI LO	1.000										
5 YR AVG X HI LO	1.000	1.005	1.014	1.005	1.000	1.000					
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
FACTORS FROM TAIL FACTOR STUDY	1.010	1.009	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	156	168	180	192	204	216	228	240	252	
1978	165	179	194	287	358	358	358	358	358	358
1979	5	5	5	5	5	5	5	5	5	5
1980	159	172	186	198	212	226	241	256	271	271
1981	459	464	502	506	508	515	521	575	580	580
1982	412	436	461	481	509	535	559	689	719	719
1983	1,358	1,398	1,445	1,562	1,686	1,782	1,918	2,004	2,097	2,097
1984	957	988	1,095	1,194	1,280	1,418	1,467	1,584	2,032	2,032
1985	1,005	1,060	1,104	1,155	1,200	1,255	1,303	1,349	1,453	1,453
1986	150	174	199	216	230	246	267	350	373	373
1987	67	92	94	94	94	94	94	94	94	94
1988	846	956	1,187	1,244	1,307	1,415	1,563	1,690	1,765	1,765
1989	408	422	437	481	515	529	546	563	576	576
1990	869	926	1,008	1,113	1,343	1,461	1,533	1,601	1,684	1,684
1991	290	296	303	316	620	655	688	725	763	763
1992	138	147	159	167	174	183	191	199	205	205
1993	294	304	310	317	323	329	344	428	486	486
1994	1,234	1,335	1,443	1,565	1,673	1,776	1,885	2,075	2,207	2,207
1995	1,952	2,054	2,158	2,331	2,462	2,594	2,751	2,878	3,101	3,101
1996	3,810	4,084	4,390	4,850	5,215	5,560	5,917	6,427	7,360	7,360
1997	3,184	3,416	3,560	3,708	3,951	4,083	4,281	4,580	4,663	4,663
1998	1,858	2,686	2,882	3,174	3,521	3,900	4,231	4,454	4,761	4,761
1999	1,395	1,488	1,653	1,910	2,109	2,300	2,398	2,523		
2000	2,279	2,470	2,721	2,986	3,258	3,434	3,747			
2001	3,096	3,577	4,175	5,226	6,505	7,040				
2002	2,315	2,479	2,760	2,937	3,042					
2003	1,320	1,640	1,740	1,827						
2004	970	1,074	1,391							
2005	1,710	1,840								
2006	632									
2007										
2008										
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2010										
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2014										
2015										
2016										
2017										
2018										

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264	
1978	1.081	1.083	1.482	1.246	1.001	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.084	1.077	1.067	1.071	1.064	1.067	1.064	1.059	1.055	1.055
1981	1.010	1.084	1.007	1.005	1.013	1.011	1.104	1.008	1.015	1.015
1982	1.059	1.058	1.044	1.056	1.052	1.046	1.231	1.044	1.039	1.039
1983	1.030	1.034	1.081	1.079	1.057	1.077	1.045	1.046	1.020	1.020
1984	1.033	1.109	1.091	1.071	1.108	1.034	1.080	1.283	1.013	1.013
1985	1.054	1.042	1.046	1.039	1.046	1.039	1.035	1.078	1.004	1.004
1986	1.160	1.142	1.085	1.064	1.072	1.083	1.313	1.066	1.051	1.051
1987	1.385	1.019	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.130	1.242	1.048	1.050	1.083	1.105	1.082	1.044	1.032	1.032
1989	1.033	1.036	1.101	1.072	1.028	1.031	1.033	1.023	1.021	1.021
1990	1.065	1.089	1.105	1.206	1.088	1.049	1.044	1.052	1.102	1.102
1991	1.022	1.024	1.041	1.963	1.057	1.050	1.054	1.052	1.151	1.151
1992	1.066	1.084	1.049	1.044	1.050	1.044	1.042	1.033	1.049	1.049
1993	1.034	1.020	1.022	1.019	1.017	1.048	1.243	1.135	1.020	1.020
1994	1.082	1.081	1.085	1.069	1.062	1.061	1.101	1.063	1.069	1.069
1995	1.052	1.051	1.080	1.056	1.054	1.061	1.046	1.077	1.044	1.044
1996	1.072	1.075	1.105	1.075	1.066	1.064	1.086	1.145	1.045	1.045
1997	1.073	1.042	1.042	1.065	1.033	1.049	1.070	1.018	1.031	1.031
1998	1.446	1.073	1.101	1.109	1.107	1.085	1.053	1.069		
1999	1.067	1.111	1.156	1.105	1.090	1.043	1.052			
2000	1.084	1.101	1.098	1.091	1.054	1.091				
2001	1.155	1.167	1.252	1.245	1.082					
2002	1.071	1.113	1.064	1.036						
2003	1.242	1.061	1.050							
2004	1.107	1.296								
2005	1.076									
2006										
2007										
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2017										
10-YR AVERAGE	1.139	1.109	1.103	1.087	1.062	1.060	1.079	1.067	1.056	1.056
3 YR AVG.	1.142	1.157	1.124	1.075	1.075	1.058	1.077	1.077	1.040	1.040
10-YR AVERAGE EXCL HI LO	1.110	1.094	1.092	1.076	1.061	1.058	1.063	1.063	1.049	1.049
5 YR AVG X HI LO	1.113	1.127	1.106	1.102	1.075	1.066	1.058	1.070	1.040	1.040
PRIOR SELECTED (9/30/2017)	1.077	1.069	1.068	1.067	1.055	1.053	1.036	1.035	1.033	1.033
FACTORS FROM TAIL FACTOR STUDY										1.033
SELECTED	1.077	1.069	1.068	1.067	1.055	1.053	1.036	1.035	1.033	1.033
CUMULATIVE	1.761	1.635	1.529	1.431	1.341	1.272	1.208	1.166	1.126	1.126

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	358	358	358	358	358	358	358	358	358
1979	5	5	5	5	5	5	5	5	5
1980	286	303	342	400	421	455	475	496	595
1981	589	599	620	629	651	676	691	740	768
1982	748	792	858	953	965	1,213	1,314	1,336	1,379
1983	2,139	2,176	2,221	2,343	2,402	2,455	2,524	2,551	2,600
1984	2,058	2,078	2,113	2,131	2,314	2,335	2,361	2,410	2,509
1985	1,460	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466
1986	392	408	426	446	471	497	597	987	1,033
1987	94	94	94	94	94	94	94	94	94
1988	1,822	1,899	1,949	2,025	2,175	2,274	2,405	2,463	2,569
1989	588	602	611	723	731	791	806	994	3,770
1990	1,856	1,989	2,551	2,633	2,666	2,774	2,840	2,863	
1991	879	953	999	1,078	1,209	1,532	1,762		
1992	216	228	242	254	264	437			
1993	495	511	533	540	547				
1994	2,360	2,486	2,800	2,925					
1995	3,238	3,365	3,483						
1996	7,692	9,106							
1997	4,806								
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1999									
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2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.059	1.129	1.168	1.054	1.079	1.045	1.044	1.200	1.001
1981	1.018	1.035	1.014	1.036	1.038	1.023	1.070	1.038	1.019
1982	1.059	1.084	1.110	1.013	1.257	1.084	1.017	1.032	1.009
1983	1.017	1.020	1.055	1.025	1.022	1.028	1.011	1.019	1.012
1984	1.009	1.017	1.008	1.086	1.009	1.011	1.021	1.041	1.050
1985	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.041	1.044	1.046	1.056	1.056	1.200	1.554	1.047	1.215
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.042	1.027	1.039	1.074	1.046	1.057	1.024	1.043	1.077
1989	1.023	1.015	1.183	1.012	1.081	1.020	1.233	3.792	
1990	1.072	1.283	1.032	1.013	1.041	1.024	1.008		
1991	1.084	1.048	1.079	1.122	1.267	1.150			
1992	1.059	1.058	1.050	1.039	1.657				
1993	1.032	1.042	1.015	1.012					
1994	1.053	1.126	1.045						
1995	1.039	1.035							
1996	1.184								
1997									
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2017									
2018									
10-YR AVERAGE	1.059	1.068	1.049	1.041	1.118	1.057	1.104	1.321	1.038
3 YR AVG.	1.092	1.068	1.037	1.058	1.322	1.065	1.088	1.945	1.097
10-YR AVERAGE EXCL HI LO	1.051	1.049	1.038	1.037	1.065	1.047	1.048	1.053	1.021
5 YR AVG X HI/LO	1.050	1.049	1.042	1.021	1.131	1.034	1.088	1.030	1.042
PRIOR SELECTED (9/30/2017)	1.031	1.029	1.028	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.031	1.029	1.028	1.027	1.025	1.025	1.024	1.023	1.022
SELECTED	1.031	1.029	1.028	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.090	1.058	1.028	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
(UNLIMITED LOSSES)**

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS										
	372	384	396	408	420	432	444	456	468	480	492
1978	358	358	358	358	358	358	358	358	358	358	358
1979	5	5	5	5	5	5	5	5	5	5	5
1980	596	596	596	596	596	596	596	596	596	596	596
1981	783	801	846	965	1,401	1,419	1,438	1,460	1,460	1,460	1,460
1982	1,394	1,408	1,427	1,445	1,456	1,456	1,456	1,456	1,456	1,456	1,456
1983	2,633	2,657	2,678	2,698	2,716	2,738	2,738	2,738	2,738	2,738	2,738
1984	2,635	2,662	2,674	2,682	2,738	2,738	2,738	2,738	2,738	2,738	2,738
1985	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466	1,466
1986	1,255	1,300	1,348	1,348	1,348	1,348	1,348	1,348	1,348	1,348	1,348
1987	94	94	94	94	94	94	94	94	94	94	94
1988	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767
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2018											

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444	456	468	480	492
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.023	1.181	1.020	1.452	1.012	1.013	1.016	1.000	1.000	1.000	1.000
1982	1.012	1.014	1.013	1.007	1.116	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.009	1.008	1.007	1.007	1.008	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.010	1.005	1.003	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.036	1.037	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
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2017											
2018											
10-YR AVERAGE	1.009	1.014	1.003	1.012	1.045	1.004	1.005	1.000	1.000	1.000	1.000
3 YR AVG.	1.012	1.014	1.003	1.012	1.045	1.004	1.005	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL. H/L O	1.007	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X-BEHD	1.006	1.009	1.008	1.012	1.007	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.022	1.021	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	1	1	1	1	1	1	1	1	1
1979	1	1	1	1	1	1	1	1	1
1980	2	2	2	2	2	2	2	2	2
1981	4	4	4	4	4	4	4	4	4
1982	6	6	6	6	6	6	6	6	6
1983	13	13	13	13	13	13	13	13	13
1984	30	30	30	30	30	30	30	30	30
1985	11	11	11	11	11	11	11	11	11
1986	6	6	6	6	6	6	6	6	6
1987	1	1	1	1	1	1	1	1	1
1988	6	6	6	6	6	6	6	6	6
1989	6	6	6	6	6	6	6	6	6
1990	6	6	6	6	6	6	6	6	6
1991	4	4	4	4	4	4	4	4	4
1992	4	4	4	4	4	4	4	4	4
1993	5	5	5	5	5	5	5	5	5
1994	18	18	18	18	18	18	18	18	18
1995	30	30	30	30	30	30	30	30	30
1996	46	46	46	46	46	46	46	46	46
1997	38	38	38	38	38	38	38	38	38
1998	41	41	41	41	41	41	41	41	41
1999	39	39	39	39	39	39	39	39	39
2000	77	78	78	78	78	78	78	78	78
2001	72	72	72	72	72	72	72	72	72
2002	42	42	42	42	42	42	42	42	42
2003	77	77	77	77	77	77	77	77	77
2004	55	55	55	55	55	55	55	55	55
2005	40	40	40	40	40	40	40	40	40
2006	30	30	30	30	30	30	30	30	30
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1991	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.056	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000	1.013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									
10-YR AVERAGE	1.001	1.000	1.000	1.000	1.000	1.000	1.006	1.000	1.000
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.001	1.000	1.000	1.000	1.000	1.000	1.005	1.000	1.000
SELECTED	1.001	1.000	1.000	1.000	1.000	1.000	1.005	1.000	1.000
CUMULATIVE	1.007	1.005	1.005	1.005	1.005	1.005	1.005	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	264	276	288	300	312	324	336	348	360	
1978	1	1	1	1	1	1	1	1	1	
1979	1	1	1	1	1	1	1	1	1	
1980	2	2	2	2	2	2	2	2	2	
1981	4	4	4	4	4	4	4	4	4	
1982	6	6	6	6	6	6	6	6	6	
1983	13	13	13	13	13	13	13	13	13	
1984	30	30	30	30	30	30	30	30	30	
1985	11	11	11	11	11	11	11	11	11	
1986	6	6	6	6	6	6	6	6	6	
1987	1	1	1	1	1	1	1	1	1	
1988	6	6	6	6	6	6	6	6	6	
1989	6	6	6	6	6	6	6	6	10	
1990	6	6	6	6	6	6	6	6		
1991	4	4	4	4	4	4	5			
1992	4	4	4	4	4	5				
1993	5	5	5	5	5					
1994	19	19	19	19						
1995	30	30								
1996	46	47	30							
1997	38									
1998										
1999										
2000										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.667	
1990	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1991	1.000	1.000	1.000	1.000	1.000	1.250			
1992	1.000	1.000	1.000	1.000	1.250				
1993	1.000	1.000	1.000	1.000					
1994	1.000	1.000	1.000						
1995	1.000	1.000							
1996	1.022								
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.002	1.000	1.000	1.000	1.025	1.025	1.000	1.067	1.000
3 YR AVG.	1.007	1.000	1.000	1.000	1.083	1.083	1.000	1.222	1.000
10-YR AVERAGE EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	1	1	1	1	1	1	1
1979	1	1	1	1	1	1	1
1980	2	2	2	2	2	2	2
1981	4	4	4	4	4	4	4
1982	6	6	6	6	6	6	6
1983	13	13	13	13	13	13	13
1984	30	30	30	30	30	30	30
1985	11	11	11	11	11	11	11
1986	6	6	6	6	6	6	6
1987	1	1	1	1	1	1	1
1988	6	6	6	6	6	6	6
1989							
1990							
1991							
1992							
1993							
1994							
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2010							
2011							
2012							
2013							
2014							
2015							
2016							
2017							
2018							

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO 384	TO 396	TO 408	TO 420	TO 432	TO 444	TO ULT
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988							
1989							
1990							
1991							
1992							
1993							
1994							
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2005							
2006							
2007							
2008							
2009							
2010							
2011							
2012							
2013							
2014							
2015							
2016							
2017							
10-YR AVERAGE	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	55	1.005	55	\$2,297	\$56,264	1.0	\$41,538
2005	40	1.005	40	3,105	67,634	0.6	77,201
2006	30	1.007	30	1,653	67,158	0.4	54,726
2007	30	1.007	30	1,328	71,897	0.4	43,959
2008	26	1.009	26	2,565	74,955	0.4	97,759
2009	36	1.010	36	1,263	77,831	0.5	34,724
2010	45	1.017	46	2,382	84,047	0.5	52,063
2011	21	1.017	21	1,814	80,441	0.3	84,909
2012	28	1.017	28	4,005	75,531	0.4	140,631
2013	23	1.017	23	3,379	74,599	0.3	144,428
2014	22	1.017	22	2,290	79,498	0.3	102,327
2015	38	1.018	39	7,705	79,710	0.5	199,194
2016	27	1.018	27	3,796	78,664	0.3	138,141
2017	21	1.018	21	3,470	81,051	0.3	162,330
2018	26	1.046	27	3,791	82,002	0.3	139,454
TOTAL	356		360	\$26,079			\$72,464

Notes:

(1) & (5) - Per CITY OF JACKSONVILLE.

(2) - Per CITY OF JACKSONVILLE's historical loss patterns.

(3) = (1) x (2). For the most recent year, we used the average of prior years.

(4) = Exhibit II, Page 1, Column (5).

(6) = [(3) / (5)] x 1000.

(7) = [(4) / (3)] x 1000.

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

*Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL (IN \$000'S)	LOSS RATE
	(1)	(2)	(3)	(4)
1977	0	500	N/A	
1978	358	500	N/A	
1979	5	500	N/A	
1980	505	500	N/A	
1981	1,484	1000	N/A	
1982	1,625	1000	N/A	
1983	1,694	250	N/A	
1984	1,891	250	N/A	
1985	906	250	N/A	
1986	1,009	250	N/A	
1987	94	1000	N/A	
1988	2,401	1000	N/A	
1989	3,354	1000	N/A	
1990	2,105	1000	N/A	
1991	1,865	1000	N/A	
1992	567	1000	N/A	
1993	599	1000	N/A	
1994	2,706	1,000	N/A	
1995	3,693	1,000	N/A	
1996	8,875	1,000	N/A	
1997	4,816	1,000	N/A	
1998	4,275	1,000	N/A	
1999	3,053	1,000	N/A	
2000	4,853	1,000	N/A	
2001	7,143	1,000	49,323	0.145
2002	3,904	1,000	51,475	0.076
2003	2,940	1,200	54,736	0.054
2004	2,297	1,200	56,264	0.041
2005	3,105	1,200	67,634	0.046
2006	1,653	1,200	67,158	0.025
2007	1,328	1,200	71,897	0.018
2008	2,565	1,200	74,955	0.034
2009	1,263	1,200	77,831	0.016
2010	2,382	1,200	84,047	0.028
2011	1,814	1,200	80,441	0.023
2012	4,005	1,200	75,531	0.053
2013	3,379	1,200	74,599	0.045
2014	2,290	1,250	79,498	0.029
2015	7,705	1,250	79,710	0.097
2016	3,796	1,250	78,664	0.048
2017	3,470	1,250	81,051	0.043
2018	3,791	1,250	82,002	0.046
(PROJ.) 2018/2019	4,396	1,250	83,642	0.053
(PROJ.) 2019/2020	4,596	1,250	85,315	0.054
(PROJ.) 2020/2021	4,805	1,250	87,021	0.055
(PROJ.) 2021/2022	5,023	1,250	88,761	0.057
(PROJ.) 2022/2023	5,252	1,250	90,537	0.058
(PROJ.) 2023/2024	5,491	1,250	92,347	0.059
(PROJ.) 2024/2025	5,741	1,250	94,194	0.061
(PROJ.) 2025/2026	6,002	1,250	96,078	0.062
(PROJ.) 2026/2027	6,275	1,250	98,000	0.064
(PROJ.) 2027/2028	6,560	1,250	99,960	0.066

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$4,396	\$5,252	\$5,524	\$5,791	\$6,131	\$6,610
2019/2020	4,596	5,491	5,775	6,054	6,410	6,911
2020/2021	4,805	5,741	6,038	6,330	6,702	7,225
2021/2022	5,023	6,002	6,313	6,618	7,007	7,554
2022/2023	5,252	6,275	6,600	6,919	7,326	7,898
2023/2024	5,491	6,561	6,900	7,234	7,659	8,257

Notes:

- (1) - Exhibit II, Page 1, Column (5). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is selected based on prior years.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Effective Date	Retention
10/1/1977	500
10/1/1980	1,000
10/1/1982	250
11/1/1986	1,000
10/1/2002	1,200

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTIONS

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	7.9%	15.1%	21.0%	26.0%	30.6%	33.1%	35.8%	38.7%	41.7%	45.1%	48.7%
INCREMENTAL LOSS PAYOUT PATTERN	7.9%	7.2%	5.9%	5.0%	4.6%	2.6%	2.7%	2.9%	3.1%	3.3%	3.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		7.8%	6.5%	5.4%	5.0%	2.8%	2.9%	3.1%	3.3%	3.6%	3.9%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	7.9%	7.2%	5.9%	5.0%	4.6%	2.6%	2.7%	2.9%	3.1%	3.3%	3.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1977	\$20,462	\$581	\$116	\$116	\$116	\$116	\$116	\$0	\$0	\$0	\$0	\$0	\$0
1994	2,706	38	38	0	0	0	0	0	0	0	0	0	0
1995	3,693	415	415	0	0	0	0	0	0	0	0	0	0
1996	8,875	796	402	394	0	0	0	0	0	0	0	0	0
1997	4,816	397	136	132	130	0	0	0	0	0	0	0	0
1998	4,275	697	181	176	172	168	0	0	0	0	0	0	0
1999	3,053	562	119	115	112	109	107	0	0	0	0	0	0
2000	4,853	1,105	193	193	187	182	177	174	0	0	0	0	0
2001	7,143	1,936	378	272	272	264	256	250	245	0	0	0	0
2002	3,904	1,035	166	170	122	122	118	115	112	110	0	0	0
2003	2,940	1,113	173	150	154	111	111	107	104	102	100	0	0
2004	2,297	906	116	123	107	109	79	79	76	74	71	71	0
2005	3,105	1,265	138	145	153	133	136	98	98	95	92	90	88
2006	1,653	1,020	104	100	105	111	96	99	71	71	69	67	129
2007	1,328	1,044	93	97	93	98	103	90	92	66	66	64	183
2008	2,565	1,203	91	99	103	99	104	110	96	98	70	70	263
2009	1,263	862	57	61	66	69	66	70	74	64	66	47	223
2010	2,382	1,448	83	90	97	105	109	105	111	116	101	104	428
2011	1,814	1,300	65	71	76	83	89	93	90	94	99	86	453
2012	4,005	2,639	118	127	137	148	160	173	181	174	183	193	1,046
2013	3,379	2,343	93	100	108	117	126	137	147	154	148	156	1,056
2014	2,290	1,899	70	73	78	84	91	99	107	115	120	116	946
2015	7,705	5,140	318	178	184	199	214	232	250	270	292	305	2,696
2016	3,796	3,075	194	178	100	103	111	120	130	140	152	164	1,682
2017	3,470	3,159	221	185	170	96	99	107	115	124	134	145	1,764
2018	3,791	3,628	282	234	196	180	101	104	113	121	132	142	2,022
2019	4,396		348	314	261	219	201	113	117	126	135	147	2,414
2020	4,596			364	329	273	229	210	118	122	132	141	2,677
2021	4,805				380	344	286	239	220	123	127	138	2,947
2022	5,023					398	359	299	250	230	129	133	3,225
2023	5,252						416	376	312	262	241	135	3,511
2024	5,491							435	393	326	274	251	3,812
2025	5,741								454	411	341	286	4,248
2026	6,002									475	429	357	4,741
2027	6,275										497	449	5,329
2028	6,560											519	6,041
TOTAL	\$165,700	\$39,606	\$4,707	\$4,257	\$4,009	\$4,039	\$4,063	\$4,031	\$4,074	\$4,065	\$4,201	\$4,376	\$51,925

Notes:

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$39,643
2. Loss payments during 2018 for accident years 2017 and prior	(\$7,144)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$3,479
4. Estimated ultimate losses for accident year 2018	\$3,791
5. Loss payments during 2018 for accident year 2018	(\$164)
6. Estimated net undiscounted reserves at 9/30/2018	\$39,606

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit II, Page 8C, Column (3).
- (3) - Total from Exhibit II, Page 8B, Column (3).
- (4) - See Exhibit II, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$21,338	\$23,168	\$1,830
1995	3,893	3,693	(201)
1996	8,141	8,875	733
1997	4,851	4,816	(35)
1998	4,475	4,275	(201)
1999	3,361	3,053	(308)
2000	5,205	4,853	(352)
2001	8,264	7,143	(1,121)
2002	4,381	3,904	(476)
2003	3,656	2,940	(716)
2004	2,615	2,297	(318)
2005	3,627	3,105	(522)
2006	1,528	1,653	125
2007	883	1,328	444
2008	2,628	2,565	(63)
2009	1,120	1,263	143
2010	2,346	2,382	36
2011	1,734	1,814	79
2012	2,858	4,005	1,147
2013	2,653	3,379	726
2014	1,920	2,290	369
2015	4,821	7,705	2,883
2016	3,608	3,796	188
2017	4,381	3,470	(911)
TOTAL	\$104,290	\$107,769	\$3,479

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit II, Page 1, Column (5).

(3) = (2) - (1).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$20,379	\$22,549	\$2,170
1995	3,223	3,278	55
1996	6,664	8,079	1,414
1997	4,337	4,418	81
1998	3,350	3,578	228
1999	2,398	2,491	93
2000	3,434	3,747	313
2001	4,883	5,206	323
2002	2,818	2,869	51
2003	1,740	1,827	87
2004	1,074	1,391	318
2005	1,710	1,840	130
2006	609	632	24
2007	249	284	35
2008	1,360	1,362	1
2009	325	401	76
2010	865	934	69
2011	390	514	124
2012	876	1,366	491
2013	750	1,035	285
2014	379	391	12
2015	2,035	2,565	530
2016	629	722	93
2017	168	311	142
TOTAL	\$64,646	\$71,791	\$7,144

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit II, Page 1, Column (6).

(3) = (2) - (1).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF SELECTED ULTIMATE LOSSES
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1978 and Prior	\$797	\$797	\$797	\$797	\$797	\$797	\$0
1979	1,461	1,461	1,461	1,461	1,461	1,461	0
1980	934	934	934	934	934	934	0
1981	690	690	690	690	690	690	0
1982	1,309	1,309	1,309	1,309	1,309	1,309	0
1983	619	620	619	620	620	619	0
1984	968	970	968	970	969	968	1
1985	1,031	940	1,031	1,031	1,008	938	70
1986	559	560	559	560	559	559	1
1987	1,649	1,658	1,649	1,658	1,653	1,649	5
1988	1,036	1,046	1,036	1,046	1,041	1,036	5
1989	1,080	1,092	1,080	1,092	1,086	1,078	8
1990	3,754	3,803	3,755	3,802	3,779	3,739	39
1991	2,673	2,713	2,673	2,713	2,693	2,657	36
1992	1,242	1,263	1,242	1,262	1,252	1,232	20
1993	4,157	4,129	4,157	4,129	4,143	4,012	131
1994	1,284	1,310	1,284	1,310	1,297	1,268	29
1995	935	956	935	956	945	922	24
1996	945	964	945	963	954	925	29
1997	740	760	740	760	750	727	23
1998	562	525	562	551	550	500	50
1999	2,236	2,232	2,236	2,232	2,234	2,117	117
2000	3,392	3,091	3,388	3,302	3,293	2,921	372
2001	3,267	3,089	3,264	3,159	3,195	2,907	287
2002	3,217	3,231	3,218	3,230	3,224	2,996	228
2003	4,244	3,869	4,234	4,023	4,092	3,501	591
2004	2,703	2,654	2,677	2,614	2,662	2,343	319
2005	2,564	2,633	2,578	2,649	2,606	2,268	338
2006	4,265	3,934	4,137	3,873	4,052	3,305	747
2007	1,946	1,841	2,073	2,077	1,984	1,509	475
2008	4,347	4,516	4,231	4,287	4,345	3,612	733
2009	3,241	3,289	3,304	3,380	3,303	2,552	751
2010	3,344	3,534	3,439	3,635	3,488	2,643	846
2011	3,745	4,209	3,815	4,187	3,989	3,017	972
2012	3,182	3,636	3,316	3,726	3,465	2,490	976
2013	3,567	3,638	3,638	3,735	3,645	2,372	1,273
2014	2,492	2,985	2,835	3,378	2,922	1,854	1,069
2015	2,987	3,501	3,257	3,745	3,373	2,038	1,334
2016	3,910	4,388	3,957	4,256	4,107	2,384	1,723
2017	6,540	6,914	5,959	5,513	5,736	3,374	2,362
2018	3,827	4,205	5,632	4,687	4,588	1,631	2,957
TOTAL	\$97,440	\$99,886	\$99,614	\$100,300	\$98,794	\$79,853	\$18,941

Notes:

(1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit III, Pages 2 and 3.

(5) = Selected based on (1), (2), (3) & (4).

(6) - Per CITY OF JACKSONVILLE.

(7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018 (1)	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (1A)	LOSS DEVELOPMENT FACTORS (2)	ULTIMATE INCURRED LOSSES (3)	PAYROLL (IN \$000'S) (4)	ESTIMATED LOSS RATE (5)
1978 and Prior	\$797		1.000	\$797	N/A	
1979	1,461		1.000	1,461	N/A	
1980	934		1.000	934	N/A	
1981	690		1.000	690	N/A	
1982	1,309		1.000	1,309	N/A	
1983	619		1.000	619	N/A	
1984	968		1.000	968	N/A	
1985	1,031		1.000	1,031	N/A	
1986	559		1.000	559	N/A	
1987	1,649		1.000	1,649	N/A	
1988	1,036		1.000	1,036	N/A	
1989	1,078		1.002	1,080	N/A	
1990	3,739		1.004	3,754	N/A	
1991	2,657		1.006	2,673	N/A	
1992	1,232		1.008	1,242	N/A	
1993	4,114		1.010	4,157	N/A	
1994	1,268		1.012	1,284	N/A	
1995	922		1.014	935	N/A	
1996	930		1.016	945	N/A	
1997	727		1.018	740	N/A	
1998	551		1.021	562	N/A	
1999	2,183		1.024	2,236	N/A	
2000	3,302		1.027	3,392	N/A	
2001	3,159		1.034	3,267	N/A	
2002	3,081		1.044	3,217	N/A	
2003	4,023		1.055	4,244	N/A	
2004	2,526		1.070	2,703	116,865	0.023
2005	2,364		1.085	2,564	134,969	0.019
2006	3,873		1.101	4,265	137,826	0.031
2007	1,741		1.118	1,946	147,222	0.013
2008	3,832		1.134	4,347	153,840	0.028
2009	2,787		1.163	3,241	164,709	0.020
2010	2,806		1.192	3,344	171,283	0.020
2011	3,066		1.222	3,745	175,841	0.021
2012	2,605		1.222	3,182	163,299	0.019
2013	2,845		1.254	3,567	159,681	0.022
2014	1,934		1.289	2,492	160,139	0.016
2015	2,253		1.326	2,987	158,286	0.019
2016	2,949		1.326	3,910	155,726	0.025
2017	4,932		1.326	6,540	155,525	0.042
2018	4,462			3,827	154,411	0.025
TOTAL	\$88,992			\$97,440		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018 (6)	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (6A)	LOSS DEVELOPMENT FACTORS (7)	ULTIMATE INCURRED LOSSES (8)	PAYROLL (IN \$000'S) (9)	ESTIMATED LOSS RATE (10)
1978 and Prior	\$797		1.000	\$797	N/A	
1979	1,461		1.000	1,461	N/A	
1980	934		1.000	934	N/A	
1981	690		1.000	690	N/A	
1982	1,309		1.000	1,309	N/A	
1983	619		1.002	620	N/A	
1984	968		1.003	970	N/A	
1985	938		1.003	940	N/A	
1986	559		1.003	560	N/A	
1987	1,649		1.006	1,658	N/A	
1988	1,036		1.009	1,046	N/A	
1989	1,078		1.013	1,092	N/A	
1990	3,739		1.017	3,803	N/A	
1991	2,657		1.021	2,713	N/A	
1992	1,232		1.025	1,263	N/A	
1993	4,012		1.029	4,129	N/A	
1994	1,268		1.033	1,310	N/A	
1995	922		1.037	956	N/A	
1996	925		1.042	964	N/A	
1997	727		1.046	760	N/A	
1998	500		1.050	525	N/A	
1999	2,117		1.054	2,232	N/A	
2000	2,921		1.058	3,091	N/A	
2001	2,907		1.062	3,089	N/A	
2002	2,996		1.078	3,231	N/A	
2003	3,501		1.105	3,869	N/A	
2004	2,343		1.133	2,654	116,865	0.023
2005	2,268		1.161	2,633	134,969	0.020
2006	3,305		1.190	3,934	137,826	0.029
2007	1,509		1.220	1,841	147,222	0.013
2008	3,612		1.250	4,516	153,840	0.029
2009	2,552		1.288	3,289	164,709	0.020
2010	2,643		1.337	3,534	171,283	0.021
2011	3,017		1.395	4,209	175,841	0.024
2012	2,490		1.461	3,636	163,299	0.022
2013	2,372		1.534	3,638	159,681	0.023
2014	1,854		1.610	2,985	160,139	0.019
2015	2,038		1.718	3,501	158,286	0.022
2016	2,384		1.841	4,388	155,726	0.028
2017	3,374		2.049	6,914	155,525	0.044
2018	1,631			4,205	154,411	0.027
TOTAL	\$79,853			\$99,886		

Notes:

- (1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.
- (2) & (7) - Per City's historical loss patterns.
- (3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1). For the most recent year, we used the Loss Rate Approach.
- (5) = (3) / (4); (10) = (8) / (9). For the most recent year, it is the average of prior years.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (1)	PAYROLL (\$ '000s) (2)	EXPECTED ULTIMATE LOSSES (3)	EXPECTED % OF LOSSES UNREPORTED (4)	IBNR RESERVES (5)	INCURRED LOSSES @9/30/2018 (6)	ULTIMATE INCURRED LOSSES (7)
1978 and Prior		N/A	\$797	0.0%	0	\$797	\$797
1979		N/A	1,461	0.0%	0	1,461	1,461
1980		N/A	934	0.0%	0	934	934
1981		N/A	690	0.0%	0	690	690
1982		N/A	1,309	0.0%	0	1,309	1,309
1983		N/A	620	0.0%	0	619	619
1984		N/A	969	0.0%	0	968	968
1985		N/A	985	0.0%	0	1,031	1,031
1986		N/A	559	0.0%	0	559	559
1987		N/A	1,653	0.0%	0	1,649	1,649
1988		N/A	1,041	0.0%	0	1,036	1,036
1989		N/A	1,086	0.2%	2	1,078	1,080
1990		N/A	3,779	0.4%	15	3,739	3,755
1991		N/A	2,693	0.6%	16	2,657	2,673
1992		N/A	1,252	0.8%	10	1,232	1,242
1993		N/A	4,143	1.0%	42	4,114	4,157
1994		N/A	1,297	1.2%	16	1,268	1,284
1995		N/A	945	1.4%	13	922	935
1996		N/A	954	1.6%	15	930	945
1997		N/A	750	1.8%	14	727	740
1998		N/A	543	2.1%	11	551	562
1999		N/A	2,234	2.4%	53	2,187	2,236
2000		N/A	3,241	2.8%	86	3,155	3,388
2001		N/A	3,178	3.3%	105	3,159	3,264
2002		N/A	3,224	4.2%	137	3,081	3,218
2003		N/A	4,056	5.2%	211	4,023	4,234
2004	0.020	116,865	2,315	6.5%	151	2,526	2,677
2005	0.020	134,969	2,745	7.8%	215	2,364	2,578
2006	0.021	137,826	2,875	9.2%	264	3,873	4,137
2007	0.021	147,222	3,149	10.5%	331	1,741	2,073
2008	0.022	153,840	3,371	11.8%	399	3,832	4,231
2009	0.022	164,709	3,696	14.0%	517	2,787	3,304
2010	0.023	171,283	3,934	16.1%	633	2,806	3,439
2011	0.023	175,841	4,131	18.1%	749	3,066	3,815
2012	0.024	163,299	3,922	18.1%	712	2,605	3,316
2013	0.025	159,681	3,919	20.2%	794	2,845	3,638
2014	0.025	160,139	4,023	22.4%	901	1,934	2,835
2015	0.026	158,286	4,084	24.6%	1,004	2,253	3,257
2016	0.026	155,726	4,100	24.6%	1,008	2,949	3,957
2017	0.027	155,525	4,177	24.6%	1,027	4,932	5,959
2018	0.027	154,411	4,229	27.7%	1,170	4,462	5,632
TOTAL					\$10,622	\$88,992	\$99,614

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (8)	PAYROLL (\$ '000s) (9)	EXPECTED ULTIMATE LOSSES (10)	EXPECTED % OF LOSSES UNPAID (11)	LOSS RESERVES (12)	PAID LOSSES @9/30/2018 (13)	ULTIMATE INCURRED LOSSES (14)
1978 and Prior		N/A	\$797	0.0%	0	\$797	\$797
1979		N/A	1,461	0.0%	0	1,461	1,461
1980		N/A	934	0.0%	0	934	934
1981		N/A	690	0.0%	0	690	690
1982		N/A	1,309	0.0%	0	1,309	1,309
1983		N/A	620	0.1%	1	619	620
1984		N/A	969	0.2%	2	968	970
1985		N/A	985	0.2%	2	938	1,031
1986		N/A	559	0.2%	1	559	560
1987		N/A	1,653	0.5%	9	1,649	1,658
1988		N/A	1,041	0.9%	9	1,036	1,046
1989		N/A	1,086	1.3%	14	1,078	1,092
1990		N/A	3,779	1.7%	63	3,739	3,802
1991		N/A	2,693	2.1%	55	2,657	2,713
1992		N/A	1,252	2.4%	31	1,232	1,262
1993		N/A	4,143	2.8%	118	4,012	4,129
1994		N/A	1,297	3.2%	42	1,268	1,310
1995		N/A	945	3.6%	34	922	956
1996		N/A	954	4.0%	38	925	963
1997		N/A	750	4.4%	33	727	760
1998		N/A	543	4.8%	26	500	551
1999		N/A	2,234	5.1%	115	2,117	2,252
2000		N/A	3,241	5.5%	178	2,921	3,302
2001		N/A	3,178	5.9%	186	2,907	3,159
2002		N/A	3,224	7.3%	234	2,996	3,230
2003		N/A	4,056	9.5%	386	3,501	4,023
2004	0.020	116,865	2,315	11.7%	271	2,343	2,614
2005	0.020	134,969	2,745	13.9%	381	2,268	2,649
2006	0.021	137,826	2,875	16.0%	459	3,305	3,873
2007	0.021	147,222	3,149	18.0%	568	1,509	2,077
2008	0.022	153,840	3,371	20.0%	675	3,612	4,287
2009	0.022	164,709	3,696	22.4%	828	2,552	3,380
2010	0.023	171,283	3,934	25.2%	993	2,643	3,635
2011	0.023	175,841	4,131	28.3%	1,170	3,017	4,187
2012	0.024	163,299	3,922	31.5%	1,237	2,490	3,726
2013	0.025	159,681	3,919	34.8%	1,364	2,372	3,735
2014	0.025	160,139	4,023	37.9%	1,524	1,854	3,378
2015	0.026	158,286	4,084	41.8%	1,706	2,038	3,745
2016	0.026	155,726	4,100	45.7%	1,873	2,384	4,256
2017	0.027	155,525	4,177	51.2%	2,139	3,374	5,513
2018	0.027	154,411	4,229	72.2%	3,056	1,631	4,687
TOTAL					\$19,820	\$79,853	\$100,300

Notes:

- (2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
- (1) & (8) - Exhibit III, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit III Page 2 loss rates.
- (3) = (1) x (2); (10) = (8) x (9).
- (4) = (1 - (1/PLDF)); (11) = (1 - (1/PLDF)).
- (5) = (3) x (4); (12) = (10) x (11).
- (7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUEFTER-FERGUSON APPROACHES
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$3,392	\$3,091	\$1,000	1.016	N/A			
2001	3,267	3,089	1,000	1.016	N/A			
2002	3,217	3,231	1,000	1.016	N/A			
2003	4,244	3,869	1,200	1.008	N/A			
2004	2,703	2,654	1,200	1.008	\$116,865	2.31%	2.00%	1.98%
2005	2,564	2,633	1,200	1.008	134,969	1.94%	2.05%	2.03%
2006	4,265	3,934	1,200	1.008	137,826	3.00%	2.10%	2.09%
2007	1,946	1,841	1,200	1.008	147,222	1.30%	2.16%	2.14%
2008	4,347	4,516	1,200	1.008	153,840	2.90%	2.21%	2.19%
2009	3,241	3,289	1,200	1.008	164,709	2.00%	2.26%	2.24%
2010	3,344	3,534	1,200	1.008	171,283	2.02%	2.32%	2.30%
2011	3,745	4,209	1,200	1.008	175,841	2.28%	2.37%	2.35%
2012	3,182	3,636	1,200	1.008	163,299	2.10%	2.42%	2.40%
2013	3,567	3,638	1,200	1.008	159,681	2.27%	2.47%	2.45%
2014	2,492	2,985	1,250	1.006	160,139	1.72%	2.53%	2.51%
2015	2,987	3,501	1,500	1.000	158,286	2.05%	2.58%	2.58%
2016	3,910	4,388	1,500	1.000	155,726	2.66%	2.63%	2.63%
2017	6,540	6,914	1,500	1.000	155,525	4.33%	2.69%	2.69%
2018	3,827	4,205	1,500	1.000	154,411	2.60%	2.74%	2.74%
2019			\$1,500	1.000	\$157,499		2.79%	2.79%

Average	2.37%
Weighted Average	2.36%
Selected	based on fitted

Notes:

- (1) - Per Exhibit III, Page 2, Column (3).
- (1) - Per Exhibit III, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	475	567	599	596	591	591	724	737	800
1979	944	943	943	943	943	943	1,160	1,305	1,305
1980	823	823	823	821	906	894	894	894	894
1981	554	564	578	688	735	708	708	708	708
1982	987	1,113	1,192	1,185	1,206	1,206	1,307	1,298	1,311
1983	513	539	549	558	608	608	608	608	617
1984	1,149	977	1,279	1,252	1,252	1,237	1,262	1,568	1,666
1985	1,485	1,771	1,772	1,834	1,826	1,834	1,999	2,241	2,287
1986	672	962	962	958	958	958	963	963	963
1987	734	744	744	794	968	1,018	1,065	1,068	1,081
1988	938	939	956	954	956	962	1,059	1,043	1,043
1989	1,038	1,032	1,046	1,046	1,039	1,034	1,084	1,078	1,078
1990	3,856	3,857	3,912	3,963	3,977	4,070	4,070	4,148	4,160
1991	1,833	1,948	1,998	2,105	2,430	2,452	3,195	3,218	3,218
1992	1,239	1,239	1,239	1,239	1,239	1,239	1,232	1,232	1,232
1993	4,147	4,158	4,158	4,208	4,453	4,453	4,453	4,453	4,463
1994	1,332	1,280	1,280	1,280	1,268	1,268	1,268	1,268	1,268
1995	922	922	922	922	922	922	922	922	922
1996	930	930	930	930	930	930	930	930	930
1997	727	727	727	727	727	727	727	727	727
1998	513	513	513	513	546	551	551	551	551
1999	1,891	2,141	2,141	2,269	2,187	2,183	2,183	2,183	2,183
2000	2,816	2,986	3,052	3,328	3,337	3,602	3,602		
2001	3,132	3,167	3,156	3,156	3,156	3,159			
2002	3,453	3,576	3,574	3,496	3,474				
2003	3,990	4,054	4,076	4,061					
2004	2,526	2,526							
2005	2,360	2,364							
2006	3,873								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.195	1.055	0.995	0.991	1.000	1.225	1.018	1.086	1.000
1979	0.999	1.000	1.000	1.000	1.000	1.230	1.125	1.000	1.000
1980	1.000	1.000	0.997	1.194	0.987	1.000	1.000	1.000	1.000
1981	1.018	1.025	1.191	1.067	0.963	1.000	1.000	1.000	1.000
1982	1.128	1.071	0.994	1.018	1.000	1.084	0.992	1.010	1.001
1983	1.052	1.017	1.017	1.090	1.000	1.000	1.000	1.013	1.000
1984	0.850	1.309	0.978	1.000	0.988	1.020	1.243	1.062	1.000
1985	1.193	1.001	1.035	0.996	1.005	1.090	1.121	1.020	1.133
1986	1.432	1.000	0.996	1.001	1.000	1.005	1.000	1.000	1.324
1987	1.014	1.000	1.067	1.219	1.052	1.047	1.002	1.012	1.026
1988	1.001	1.018	0.998	1.002	1.007	1.100	0.985	1.001	1.000
1989	0.994	1.014	1.000	0.993	0.995	1.048	0.994	1.000	1.000
1990	1.000	1.014	1.013	1.004	1.023	1.000	1.019	1.003	1.052
1991	1.063	1.026	1.054	1.154	1.009	1.303	1.007	1.000	1.000
1992	1.000	1.000	1.000	1.000	1.000	0.994	1.000	1.000	1.000
1993	1.003	1.000	1.012	1.058	1.000	1.000	1.000	1.002	1.000
1994	0.961	1.000	1.000	0.991	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.000	0.999	1.064	1.009	1.000	1.000	1.000	
1999	1.132	1.000	1.060	0.964	0.998	1.000	1.000		
2000	1.060	1.022	1.090	1.002	1.080	1.000			
2001	1.011	0.996	1.000	1.000	1.001				
2002	1.036	0.999	0.978	0.994					
2003	1.016	1.005	0.996						
2004	1.000	1.000							
2005	1.001								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.026	1.002	1.012	1.007	1.009	1.030	1.003	1.001	1.005
3 YR AVG.	1.006	1.001	0.991	0.999	1.026	1.000	1.000	1.000	1.000
10-YR AVERAGE EXCL HI LO	1.016	1.001	1.007	1.006	1.001	1.000	1.001	1.000	1.000
5 YR AVG X HI/LO	1.009	1.001	1.019	0.999	1.003	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.015	1.014	1.014	1.010	1.010	1.007	1.003	1.003	1.003
FACTORS FROM TAIL FACTOR STUDY									1.014
SELECTED	1.015	1.014	1.014	1.010	1.010	1.007	1.003	1.003	1.003
CUMULATIVE	1.101	1.085	1.070	1.055	1.044	1.034	1.027	1.024	1.021

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	800	800	800	800	836	888	988	1,138	1,080
1979	1,305	1,325	1,305	1,305	1,305	1,358	1,391	1,469	1,471
1980	894	934	935	959	959	959	1,003	934	934
1981	708	708	708	690	690	690	690	690	690
1982	1,312	1,314	1,334	1,336	1,313	1,309	1,309	1,309	1,309
1983	617	612	612	652	619	619	619	619	619
1984	1,666	1,666	1,841	1,841	1,901	1,901	2,003	2,003	1,718
1985	2,590	2,755	3,154	3,354	3,978	4,093	4,773	5,197	5,212
1986	1,275	1,275	1,373	1,373	1,373	1,373	1,373	1,373	1,373
1987	1,109	1,093	1,093	1,108	1,702	1,741	1,741	1,831	1,831
1988	1,043	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036
1989	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078
1990	4,375	4,375	4,375	5,234	5,267	5,287	5,407	5,472	
1991	3,218	3,371	3,373	3,375	3,380	3,380	3,380		
1992	1,232	1,232	1,232	1,232	1,232	1,232			
1993	4,463	4,465	4,465	4,465	4,465				
1994	1,268	1,268	1,268	1,268					
1995	922	922	922						
1996	930	930							
1997	727								
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
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2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.000	1.000	1.000	1.045	1.062	1.113	1.152	0.949	1.012
1979	1.015	0.985	1.000	1.001	1.041	1.024	1.056	1.001	1.000
1980	1.044	1.002	1.026	1.000	1.000	1.046	0.931	1.000	1.000
1981	1.000	1.000	0.974	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.002	1.015	1.001	0.983	0.997	1.000	1.000	1.000	1.000
1983	0.993	1.000	1.065	0.949	1.000	1.000	1.000	1.000	1.000
1984	1.000	1.105	1.000	1.033	1.000	1.053	1.000	0.858	1.000
1985	1.064	1.145	1.063	1.186	1.029	1.166	1.089	1.003	1.027
1986	1.000	1.077	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	0.986	1.000	1.014	1.536	1.023	1.000	1.052	1.000	1.208
1988	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990	1.000	1.000	1.196	1.006	1.004	1.023	1.012		
1991	1.047	1.001	1.000	1.001	1.000	1.000			
1992	1.000	1.000	1.000	1.000	1.000				
1993	1.000	1.000	1.000	1.000					
1994	1.000	1.000	1.000						
1995	1.000	1.000							
1996	1.000								
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2014									
2015									
2016									
2017									
10-YR AVERAGE	1.003	1.008	1.027	1.076	1.006	1.024	1.015	0.986	1.024
3 YR AVG.	1.000	1.000	1.000	1.000	1.001	1.008	1.004	1.000	1.069
10-YR AVERAGE EXCL HI LO	0.999	1.000	1.010	1.028	1.003	1.010	1.008	1.000	1.003
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.004	1.000	1.009
PRIOR SELECTED (9/30/2017)	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
FACTORS FROM TAIL FACTOR STUDY	1.013	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
CUMULATIVE	1.018	1.016	1.014	1.012	1.010	1.008	1.006	1.004	1.002

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	1,092	1,501	1,501	1,623	1,623	1,658	1,658
1979	1,471	1,471	1,534	1,534	1,534	1,582	1,582
1980	934	934	934	934	934	934	934
1981	690	690	690	690	690	690	690
1982	1,309	1,309	1,309	1,309	1,309	1,309	1,309
1983	619	619	619	619	619	619	
1984	1,718	1,718	1,718	1,719	1,724		
1985	5,353	5,353	5,353	5,393			
1986	1,373	1,373	1,373				
1987	2,211	2,218					
1988	1,036						
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
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2012							
2013							
2014							
2015							
2016							
2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.374	1.000	1.081	1.000	1.022	1.000	
1979	1.000	1.043	1.000	1.000	1.031	1.000	
1980	1.000	1.000	1.000	1.000	1.000	1.000	
1981	1.000	1.000	1.000	1.000	1.000	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.000	
1983	1.000	1.000	1.000	1.000	1.000	1.000	
1984	1.000	1.000	1.000	1.003			
1985	1.000	1.000	1.008				
1986	1.000	1.000					
1987	1.003						
1988							
1989							
1990							
1991							
1992							
1993							
1994							
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2009							
2010							
2011							
2012							
2013							
2014							
2015							
2016							
2017							
10-YR AVERAGE	1.038						
3 YR AVG.	1.001	1.000	1.003	1.001	1.000	1.000	
10-YR AVERAGE EXCL HI LO	1.000						
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.000	
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	156	168	180	192	204	216	228	240	252	
1978	419	439	458	501	513	528	545	563	608	
1979	725	745	773	795	843	843	936	1,021	1,038	
1980	545	572	601	760	772	785	797	810	823	
1981	413	434	474	492	687	688	688	689	689	
1982	888	1,010	1,023	1,037	1,136	1,149	1,165	1,178	1,190	
1983	453	482	496	501	576	581	586	588	594	
1984	829	859	981	1,000	1,017	1,043	1,076	1,439	1,462	
1985	1,394	1,438	1,482	1,595	1,709	1,801	1,889	2,062	2,165	
1986	637	664	692	720	748	778	808	839	869	
1987	702	706	719	760	832	891	921	935	945	
1988	868	871	890	894	904	909	1,032	1,033	1,036	
1989	1,018	1,019	1,022	1,024	1,026	1,027	1,078	1,078	1,078	
1990	3,513	3,588	3,672	3,757	3,824	3,894	3,975	4,070	4,123	
1991	1,727	1,748	1,823	1,999	2,048	2,129	2,180	2,256	2,308	
1992	1,230	1,230	1,231	1,231	1,231	1,231	1,232	1,232	1,232	
1993	4,106	4,131	4,146	4,161	4,174	4,220	4,236	4,244	4,254	
1994	1,267	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	
1995	922	922	922	922	922	922	922	922	922	
1996	921	921	921	921	921	921	921	921	921	
1997	727	727	727	727	727	727	727	727	727	
1998	491	491	491	491	491	491	491	491	491	
1999	1,445	1,515	1,657	1,702	2,108	2,106	2,107	2,117	2,117	
2000	1,594	1,698	2,085	2,528	2,586	2,854	2,921			
2001	2,795	2,813	2,873	2,883	2,900	2,907				
2002	2,438	2,604	2,724	2,897	2,996					
2003	3,247	3,380	3,452	3,540						
2004	2,333	2,337	2,343							
2005	2,259	2,268								
2006	3,305									
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.048	1.044	1.095	1.024	1.029	1.032	1.033	1.079	1.043
1979	1.027	1.038	1.028	1.029	1.031	1.110	1.091	1.016	1.017
1980	1.049	1.049	1.265	1.017	1.016	1.016	1.016	1.016	1.017
1981	1.050	1.093	1.038	1.395	1.001	1.001	1.001	1.001	1.000
1982	1.137	1.013	1.014	1.096	1.011	1.014	1.011	1.010	1.015
1983	1.066	1.027	1.011	1.150	1.009	1.008	1.003	1.011	1.003
1984	1.037	1.141	1.020	1.017	1.025	1.032	1.338	1.016	1.038
1985	1.032	1.030	1.077	1.071	1.054	1.049	1.091	1.050	1.059
1986	1.042	1.042	1.040	1.040	1.039	1.039	1.037	1.037	1.035
1987	1.005	1.018	1.057	1.095	1.071	1.034	1.014	1.011	1.012
1988	1.004	1.021	1.005	1.011	1.005	1.136	1.004	1.004	1.000
1989	1.001	1.003	1.002	1.002	1.001	1.050	1.000	1.000	1.000
1990	1.021	1.023	1.023	1.018	1.021	1.021	1.024	1.013	1.013
1991	1.012	1.043	1.096	1.025	1.039	1.024	1.035	1.023	1.021
1992	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000
1993	1.006	1.004	1.003	1.003	1.011	1.004	1.002	1.002	1.005
1994	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.000	1.002	1.002	1.010	1.002	1.000	1.000	1.000
1999	1.048	1.094	1.027	1.239	0.999	1.000	1.005		
2000	1.065	1.228	1.212	1.023	1.104	1.023			
2001	1.007	1.021	1.003	1.006	1.003				
2002	1.068	1.046	1.064	1.034					
2003	1.041	1.021							
2004	1.001	1.003							
2005	1.004								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.023	1.041	1.033	1.031	1.013	1.005	1.007	1.004	1.004
3 YR AVG	1.015	1.023	1.031	1.021	1.035	1.008	1.002	1.000	1.000
10-YR AVERAGE EXCL HI LO	1.021	1.023	1.015	1.009	1.003	1.004	1.004	1.002	1.002
5 YR AVG X HI LO	1.017	1.029	1.039	1.021	1.004	1.001	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.025	1.025	1.025	1.025	1.015	1.004	1.004	1.004	1.004
FACTORS FROM TAIL FACTOR STUDY									
SELECTED	1.025	1.025	1.025	1.025	1.015	1.004	1.004	1.004	1.004
CUMULATIVE	1.190	1.161	1.133	1.105	1.078	1.062	1.058	1.054	1.050

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	634	654	685	731	762	823	868	915	1,002
1979	1,055	1,088	1,120	1,145	1,208	1,229	1,249	1,346	1,361
1980	837	851	867	883	897	911	927	934	934
1981	690	690	690	690	690	690	690	690	690
1982	1,207	1,223	1,236	1,251	1,263	1,309	1,309	1,309	1,309
1983	596	598	599	601	619	619	619	619	619
1984	1,518	1,563	1,590	1,613	1,637	1,667	1,690	1,711	1,718
1985	2,293	2,512	2,762	2,990	3,454	3,841	4,319	4,817	4,900
1986	900	933	963	993	1,023	1,054	1,084	1,114	1,145
1987	956	971	1,003	1,042	1,188	1,245	1,271	1,390	1,466
1988	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036
1989	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078
1990	4,177	4,205	4,217	4,399	4,494	4,583	4,663	5,472	
1991	2,357	2,412	2,468	2,525	2,595	2,655	2,728		
1992	1,232	1,232	1,232	1,232	1,232	1,232			
1993	4,276	4,299	4,317	4,339	4,362				
1994	1,268	1,268	1,268	1,268					
1995	922	922	922						
1996	923	925							
1997	727								
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
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2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.033	1.047	1.067	1.043	1.080	1.055	1.055	1.095	1.037
1979	1.031	1.029	1.022	1.055	1.018	1.016	1.077	1.011	1.010
1980	1.017	1.018	1.018	1.016	1.016	1.017	1.007	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.013	1.011	1.012	1.010	1.036	1.000	1.000	1.000	1.000
1983	1.005	1.002	1.004	1.030	1.000	1.000	1.000	1.000	1.000
1984	1.029	1.017	1.015	1.015	1.018	1.014	1.012	1.005	1.000
1985	1.096	1.100	1.082	1.155	1.112	1.124	1.115	1.017	1.024
1986	1.036	1.032	1.031	1.031	1.030	1.029	1.028	1.027	1.026
1987	1.016	1.032	1.039	1.140	1.048	1.021	1.094	1.055	1.119
1988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1990	1.007	1.003	1.043	1.022	1.020	1.017	1.173		
1991	1.023	1.023	1.023	1.028	1.023	1.027			
1992	1.000	1.000	1.000	1.000	1.000				
1993	1.005	1.004	1.005	1.005					
1994	1.000	1.000	1.000						
1995	1.000	1.000							
1996	1.003								
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
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2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.005	1.009	1.022	1.040	1.025	1.023	1.042	1.010	1.018
3 YR AVG.	1.001	1.001	1.002	1.011	1.014	1.015	1.058	1.018	1.048
10-YR AVERAGE EXCL HI LO	1.004	1.008	1.018	1.030	1.017	1.014	1.031	1.006	1.008
5 YR AVG X HI LO	1.001	1.001	1.009	1.009	1.007	1.013	1.041	1.015	1.017
PRIOR SELECTED (9/30/2017)	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004
FACTORS FROM TAIL FACTOR STUDY	1.026	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004
CUMULATIVE	1.046	1.042	1.037	1.033	1.029	1.025	1.021	1.017	1.013

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	1,039	1,095	1,134	1,186	1,221	1,279	1,313
1979	1,374	1,388	1,402	1,415	1,429	1,443	1,456
1980	934	934	934	934	934	934	934
1981	690	690	690	690	690	690	690
1982	1,309	1,309	1,309	1,309	1,309	1,309	1,309
1983	619	619	619	619	619	619	619
1984	1,718	1,718	1,718	1,718	1,719	1,724	1,724
1985	5,017	5,028	5,037	5,126			
1986	1,175	1,206	1,238				
1987	1,640	2,218					
1988	1,036						
1989							
1990							
1991							
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2014							
2015							
2016							
2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.054	1.036	1.047	1.029	1.048	1.026	
1979	1.010	1.010	1.010	1.010	1.009	1.009	
1980	1.000	1.000	1.000	1.000	1.000	1.000	
1981	1.000	1.000	1.000	1.000	1.000	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.000	
1983	1.000	1.000	1.000	1.000	1.000	1.000	
1984	1.000	1.000	1.000	1.003			
1985	1.002	1.002	1.018				
1986	1.026	1.027					
1987	1.352						
1988							
1989							
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2011							
2012							
2013							
2014							
2015							
2016							
2017							
10-YR AVERAGE	1.044						
3 YR AVG.	1.127	1.010	1.006	1.001	1.000	1.000	
10-YR AVERAGE EXCL HI LO	1.012						
5 YR AVG X HI LO	1.009	1.001	1.000	1.000	1.000	1.003	
PRIOR SELECTED (9/30/2017)	1.003	1.003	1.000	1.000	1.001	1.002	
FACTORS FROM TAIL FACTOR STUDY	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.003	1.003	1.000	1.000	1.001	1.002	
CUMULATIVE	1.009	1.006	1.003	1.003	1.003	1.002	1.000

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	12	24	36	48	60	72	84	96	108	120	132	144	
1993 and Prior													7,628
1994												786	786
1995											775	775	775
1996									844	844	844	844	844
1997								738	738	738	738	738	738
1998							735	735	735	735	735	735	735
1999						689	689	689	689	689	689	688	688
2000					662	662	662	662	662	662	662	662	662
2001				756	756	757	757	757	757	757	757	757	757
2002			761	761	762	762	762	762	762	762	762	762	763
2003		644	645	646	646	646	646	646	646	646	646	646	646
2004	876	877	883	883	883	883	883	883	883	883	883	883	883
2005	769	784	784	784	784	785	785	785	785	785	785	785	785
2006	796	799	800	801	801	801	801	802	802	802	802	802	802
2007	602	614	614	614	614	614	615	615	615	615	615	615	615
2008	621	642	642	643	643	643	643	643	643	643	643	643	643
2009	607	627	627	627	627	627	627	627	627	627	627	627	627
2010	599	607	607	607	607	606	606	606	606	606	606	606	606
2011	566	579	581	581	581	581	581	581	581	581	581	581	581
2012	527	537	536	536	537	537	537	537	537	537	537	537	537
2013	624	810	814	815	815	815	815	815	815	815	815	815	815
2014	587	587	592	592	592	592	592	592	592	592	592	592	592
2015	524	529	531	531	531	531	531	531	531	531	531	531	531
2016	564	573	575	575	575	575	575	575	575	575	575	575	575
2017	448	464	464	464	464	464	464	464	464	464	464	464	464
2018	541	541	541	541	541	541	541	541	541	541	541	541	541

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156	
1993 and Prior													1.000
1994												1.000	1.000
1995										1.000	1.000	1.000	1.000
1996									1.000	1.000	1.000	1.000	1.000
1997								1.000	1.000	1.000	1.000	1.000	1.000
1998							1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999						1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000
2000					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001				1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002			1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000
2003		1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004	1.001	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.020	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.004	1.001	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.020	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.034	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.033	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010	1.013	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011	1.023	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012	1.019	0.998	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013	1.298	1.005	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014	1.000	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015	1.010	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016	1.016	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2017	1.036	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AVERAGE	1.038	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.021	1.005	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.019	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.021	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.025	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.025	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.027	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS													
	156	168	180	192	204	216	228	240	252	264	276	288	300	312
1993 and Prior	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629
1994	786	786	786	786	786	786	786	786	786	786	786	786	786	786
1995	775	775	775	775	775	775	775	775	775	775	775	775	775	775
1996	844	844	844	844	844	844	844	844	844	844	844	844	844	844
1997	738	738	738	738	738	738	738	738	738	738	738	738	738	738
1998	735	735	735	735	735	735	735	735	735	735	735	735	735	735
1999	688	688	688	688	688	688	688	688	688	688	688	688	688	688
2000	662	662	662	662	662	662	662	662	662	662	662	662	662	662
2001	757	757	757	757	757	757	757	757	757	757	757	757	757	757
2002	763	763	763	763	763	763	763	763	763	763	763	763	763	763
2003	646	646	646	646	646	646	646	646	646	646	646	646	646	646
2004	883	883	883	883	883	883	883	883	883	883	883	883	883	883
2005	785	785	785	785	785	785	785	785	785	785	785	785	785	785
2006	802	802	802	802	802	802	802	802	802	802	802	802	802	802
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	312	ULT.
1993 and Prior	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
AVERAGE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	883	1.000	883	\$2,662	\$116,865	7.6	\$3,015
2005	785	1.000	785	2,606	134,969	5.8	3,320
2006	802	1.000	802	4,052	137,826	5.8	5,053
2007	615	1.000	615	1,984	147,222	4.2	3,226
2008	643	1.000	643	4,345	153,840	4.2	6,758
2009	627	1.000	627	3,303	164,709	3.8	5,268
2010	606	1.000	606	3,488	171,283	3.5	5,756
2011	581	1.000	581	3,989	175,841	3.3	6,866
2012	537	1.000	537	3,465	163,299	3.3	6,452
2013	815	1.000	815	3,645	159,681	5.1	4,471
2014	592	1.000	592	2,922	160,139	3.7	4,936
2015	531	1.000	531	3,373	158,286	3.4	6,351
2016	575	1.001	576	4,107	155,726	3.7	7,135
2017	464	1.002	465	5,736	155,525	3.0	12,340
2018	541	1.027	556	4,588	154,411	3.6	8,259
TOTAL	6,894		6,894	\$33,541			

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit III, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL (IN \$000'S)	LOSS RATE
	(1)	(2)	(3)	(4)
1978	797	500		
1979	1,461	500		
1980	934	500		
1981	690	1000		
1982	1,309	1000		
1983	620	250		
1984	969	250		
1985	1,008	250		
1986	559	250		
1987	1,653	1000		
1988	1,041	1000		
1989	1,086	1000		
1990	3,779	1000		
1991	2,693	1000		
1992	1,252	1000		
1993	4,143	1000		
1994	1,297	1,000	N/A	
1995	945	1,000	N/A	
1996	954	1,000	N/A	
1997	750	1,000	N/A	
1998	550	1,000	N/A	
1999	2,234	1,000	N/A	
2000	3,293	1,000	N/A	
2001	3,195	1,000	N/A	
2002	3,224	1,000	N/A	
2003	4,092	1,200	N/A	
2004	2,662	1,200	116,865	0.023
2005	2,606	1,200	134,969	0.019
2006	4,052	1,200	137,826	0.029
2007	1,984	1,200	147,222	0.013
2008	4,345	1,200	153,840	0.028
2009	3,303	1,200	164,709	0.020
2010	3,488	1,200	171,283	0.020
2011	3,989	1,200	175,841	0.023
2012	3,465	1,200	163,299	0.021
2013	3,645	1,200	159,681	0.023
2014	2,922	1,250	160,139	0.018
2015	3,373	1,250	158,286	0.021
2016	4,107	1,250	155,726	0.026
2017	5,736	1,250	155,525	0.037
2018	4,588	1,250	154,411	0.030
(PROJ.) 2018/2019	\$4,174	1,250	157,499	0.027
(PROJ.) 2019/2020	\$4,364	1,250	160,649	0.027
(PROJ.) 2020/2021	\$4,563	1,250	163,862	0.028
(PROJ.) 2021/2022	\$4,770	1,250	167,139	0.029
(PROJ.) 2022/2023	\$4,988	1,250	170,482	0.029
(PROJ.) 2023/2024	\$5,214	1,250	173,892	0.030
(PROJ.) 2023/2024	\$5,452	1,250	177,370	0.031
(PROJ.) 2024/2025	\$5,700	1,250	180,917	0.032
(PROJ.) 2025/2026	\$5,959	1,250	184,535	0.032
(PROJ.) 2026/2027	\$6,230	1,250	188,226	0.033

*Accident years are 12-month periods ending 9/30 of the stated year.

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$4,174	\$4,631	\$4,784	\$4,959	\$5,145	\$5,424
2019/2020	4,364	4,842	5,002	5,185	5,379	5,671
2020/2021	4,563	5,062	5,229	5,421	5,624	5,929
2021/2022	4,770	5,293	5,467	5,667	5,879	6,199
2022/2023	4,988	5,534	5,716	5,925	6,147	6,481
2023/2024	5,214	5,785	5,976	6,195	6,427	6,776

Notes:

(1) - Exhibit III, Page 1, Column (5). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is selected based on prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Effective Date	Retention
10/1/1977	500
10/1/1980	1,000
10/1/1982	250
11/1/1986	1,000
10/1/2002	1,200

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	27.8%	48.8%	54.3%	58.2%	62.1%	65.2%	68.5%	71.7%	74.8%	77.6%	80.0%
INCREMENTAL LOSS PAYOUT PATTERN	27.8%	21.0%	5.5%	3.9%	3.9%	3.1%	3.3%	3.2%	3.1%	2.8%	2.4%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		29.1%	7.6%	5.4%	5.4%	4.3%	4.5%	4.5%	4.3%	3.9%	3.3%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	27.8%	21.0%	5.5%	3.9%	3.9%	3.1%	3.3%	3.2%	3.1%	2.8%	2.4%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$23,993	\$316	\$43	\$44	\$44	\$44	\$44	\$37	\$33	\$0	\$0	\$11	\$17
1994	1,297	29	3	3	3	4	4	4	3	3	0	0	2
1995	945	24	3	3	3	3	3	3	3	2	0	0	2
1996	954	29	3	3	3	3	3	3	3	2	2	2	2
1997	750	23	2	2	2	2	2	2	2	2	2	2	3
1998	550	50	4	4	4	4	4	4	4	4	4	4	9
1999	2,234	117	9	9	9	9	9	9	9	9	9	9	29
2000	3,293	372	25	26	26	26	26	26	26	26	26	26	113
2001	3,195	287	18	18	19	19	19	19	19	19	19	19	101
2002	3,224	228	44	11	11	12	12	12	12	12	12	12	77
2003	4,092	591	141	86	23	23	24	24	24	24	24	24	176
2004	2,662	319	60	62	38	10	10	10	10	10	10	11	88
2005	2,606	338	52	54	55	34	9	9	9	9	9	9	88
2006	4,052	747	98	101	103	106	65	17	17	18	18	18	187
2007	1,984	475	54	55	57	58	60	37	10	10	10	10	115
2008	4,345	733	73	75	77	79	81	83	51	13	13	14	174
2009	3,303	751	79	67	69	70	72	74	76	47	12	12	172
2010	3,488	846	95	79	67	69	70	72	74	76	47	12	184
2011	3,989	972	106	98	81	69	70	72	74	76	78	48	201
2012	3,465	976	100	95	88	73	62	63	65	67	68	70	224
2013	3,645	1,273	119	118	113	104	86	73	75	77	79	81	348
2014	2,922	1,069	88	92	91	87	80	67	56	58	59	61	331
2015	3,373	1,334	124	99	104	103	98	91	75	64	65	67	443
2016	4,107	1,723	147	147	117	123	121	116	107	89	75	77	603
2017	5,736	2,362	255	180	179	143	150	148	142	131	109	92	832
2018	4,588	2,957	861	226	159	159	127	133	132	126	116	97	820
2019	4,174		1,159	879	231	162	162	130	136	134	129	119	935
2020	4,364			1,211	919	241	170	170	136	142	140	135	1,101
2021	4,563				1,266	960	252	178	177	142	149	147	1,292
2022	4,770					1,324	1,004	264	186	185	148	156	1,504
2023	4,988						1,384	1,050	276	194	194	155	1,735
2024	5,214							1,447	1,098	288	203	203	1,976
2025	5,452								1,513	1,147	301	212	2,278
2026	5,700									1,582	1,200	315	2,603
2027	5,959										1,654	1,254	3,051
2028	6,230											1,729	4,501
TOTAL	\$150,208	\$18,941	\$3,764	\$3,845	\$3,959	\$4,121	\$4,283	\$4,445	\$4,632	\$4,789	\$4,988	\$5,212	\$26,317

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$17,211
2. Loss payments during 2018 for accident years 2017 and prior	(\$2,089)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$863
4. Estimated ultimate losses for accident year 2018	\$4,588
5. Loss payments during 2018 for accident year 2018	(\$1,631)
6. Estimated net undiscounted reserves at 9/30/2018	\$18,941

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit III, Page 8C, Column (3).
- (3) - Total from Exhibit III, Page 8B, Column (3).
- (4) - See Exhibit III, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$26,064	\$25,290	(\$774)
1995	944	945	1
1996	953	954	2
1997	749	750	1
1998	559	550	(10)
1999	2,238	2,234	(4)
2000	3,375	3,293	(82)
2001	3,249	3,195	(54)
2002	3,250	3,224	(26)
2003	4,221	4,092	(129)
2004	2,727	2,662	(65)
2005	2,662	2,606	(56)
2006	4,044	4,052	9
2007	2,136	1,984	(152)
2008	4,190	4,345	156
2009	3,402	3,303	(98)
2010	3,498	3,488	(9)
2011	4,082	3,989	(93)
2012	3,408	3,465	57
2013	3,632	3,645	12
2014	2,951	2,922	(29)
2015	3,024	3,373	349
2016	3,850	4,107	257
2017	4,135	5,736	1,601
TOTAL	\$93,343	\$94,206	\$863

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit III, Page 1, Column (5).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$25,568	\$24,945	(\$623)
1995	922	922	0
1996	923	925	3
1997	727	727	0
1998	499	500	0
1999	2,107	2,117	10
2000	2,854	2,921	67
2001	2,900	2,907	8
2002	2,897	2,996	99
2003	3,413	3,501	88
2004	2,337	2,343	6
2005	2,259	2,268	9
2006	3,052	3,305	254
2007	1,447	1,509	62
2008	3,520	3,612	92
2009	2,534	2,552	18
2010	2,586	2,643	57
2011	2,993	3,017	25
2012	2,484	2,490	5
2013	2,340	2,372	32
2014	1,783	1,854	70
2015	1,930	2,038	109
2016	2,211	2,384	173
2017	1,849	3,374	1,525
TOTAL	\$76,132	\$78,221	\$2,089

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit III, Page 1, Column (6).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1978	\$509	\$509	\$509	\$509	\$509	\$509	\$0
1979	657	657	657	657	657	657	0
1980	745	745	745	745	745	745	0
1981	815	815	815	815	815	815	0
1982	687	687	687	687	687	687	0
1983	368	368	368	368	368	368	0
1984	668	668	668	668	668	668	0
1985	860	860	860	860	860	860	0
1986	902	891	902	902	899	891	8
1987	1,316	1,319	1,316	1,319	1,317	1,316	1
1988	1,914	1,904	1,914	1,914	1,912	1,899	13
1989	1,861	1,779	1,861	1,861	1,840	1,772	69
1990	589	578	589	589	586	575	11
1991	1,220	1,229	1,220	1,229	1,225	1,217	7
1992	1,662	1,680	1,662	1,680	1,671	1,655	16
1993	1,091	1,106	1,091	1,106	1,098	1,084	14
1994	2,254	2,150	2,253	2,232	2,222	2,097	125
1995	414	421	414	421	418	408	10
1996	534	522	534	523	528	501	27
1997	2,335	2,040	2,331	2,273	2,245	1,938	306
1998	1,208	1,254	1,208	1,253	1,231	1,175	55
1999	3,382	2,943	3,375	3,272	3,243	2,711	532
2000	1,479	1,526	1,480	1,523	1,502	1,381	122
2001	2,515	2,480	2,389	2,329	2,428	2,194	234
2002	3,090	2,948	2,910	2,790	2,934	2,549	386
2003	5,015	4,358	4,611	4,461	4,611	3,685	926
2004	2,322	2,243	2,210	2,097	2,218	1,846	372
2005	2,729	2,551	2,593	2,388	2,565	2,044	521
2006	1,217	1,308	1,299	1,406	1,307	1,017	290
2007	1,744	1,675	1,771	1,730	1,730	1,265	465
2008	1,855	1,852	1,885	1,897	1,872	1,346	527
2009	2,892	2,793	2,737	2,592	2,754	1,952	802
2010	4,094	3,938	3,710	3,411	3,788	2,646	1,142
2011	1,452	1,598	1,642	1,834	1,631	1,032	599
2012	1,603	1,798	1,750	1,938	1,772	1,106	666
2013	1,464	1,731	1,668	1,911	1,693	1,014	679
2014	1,799	1,979	1,973	2,141	1,973	1,105	868
2015	1,653	1,711	1,911	2,038	1,828	901	927
2016	3,065	2,923	2,820	2,661	2,867	1,452	1,415
2017	2,651	2,819	2,596	2,651	2,679	1,282	1,397
2018	2,208	2,321	3,170	2,801	2,625	918	1,707
TOTAL	\$70,834	\$69,677	\$71,101	\$70,478	\$70,523	\$55,281	\$15,242

Notes:

- (1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit IV, Pages 2 and 3.
- (5) = Selected based on (1), (2), (3) & (4).
- (6) - Per CITY OF JACKSONVILLE.
- (7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (1A)	LOSS DEVELOPMENT FACTORS (2)	ULTIMATE INCURRED LOSSES (3)	PAYROLL (IN \$000'S) (4)	ESTIMATED LOSS RATE (5)
1978	\$509		1.000	\$509	N/A	
1979	657		1.000	657	N/A	
1980	745		1.000	745	N/A	
1981	815		1.000	815	N/A	
1982	687		1.000	687	N/A	
1983	368		1.000	368	N/A	
1984	668		1.000	668	N/A	
1985	860		1.000	860	N/A	
1986	902		1.000	902	N/A	
1987	1,316		1.000	1,316	N/A	
1988	1,914		1.000	1,914	N/A	
1989	1,861		1.000	1,861	N/A	
1990	589		1.000	589	N/A	
1991	1,217		1.002	1,220	N/A	
1992	1,655		1.004	1,662	N/A	
1993	1,084		1.006	1,091	N/A	
1994	2,232		1.010	2,254	N/A	
1995	408		1.015	414	N/A	
1996	523		1.021	534	N/A	
1997	2,273		1.027	2,335	N/A	
1998	1,175		1.027	1,208	N/A	
1999	3,272		1.034	3,382	N/A	
2000	1,412		1.048	1,479	N/A	
2001	2,279		1.103	2,515	49,323	0.051
2002	2,790		1.108	3,090	51,475	0.060
2003	4,461		1.124	5,015	54,736	0.092
2004	2,035		1.141	2,322	36,264	0.041
2005	2,356		1.158	2,729	67,634	0.040
2006	1,030		1.181	1,217	67,158	0.018
2007	1,447		1.205	1,744	71,897	0.024
2008	1,510		1.229	1,855	74,955	0.025
2009	2,307		1.254	2,892	77,831	0.037
2010	3,201		1.279	4,094	84,047	0.049
2011	1,113		1.304	1,452	80,441	0.018
2012	1,182		1.356	1,603	75,531	0.021
2013	1,038		1.411	1,464	74,599	0.020
2014	1,226		1.467	1,799	79,498	0.023
2015	1,083		1.526	1,653	79,710	0.021
2016	1,931		1.587	3,065	78,664	0.039
2017	1,606		1.650	2,651	81,051	0.033
2018	2,022			2,208	82,002	0.027
TOTAL	\$61,756			\$70,834		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (6A)	LOSS DEVELOPMENT FACTORS (7)	ULTIMATE INCURRED LOSSES (8)	PAYROLL (IN \$000'S) (9)	ESTIMATED LOSS RATE (10)
1978	\$509		1.000	\$509	N/A	
1979	657		1.000	657	N/A	
1980	745		1.000	745	N/A	
1981	815		1.000	815	N/A	
1982	687		1.000	687	N/A	
1983	368		1.000	368	N/A	
1984	668		1.000	668	N/A	
1985	860		1.000	860	N/A	
1986	891		1.001	891	N/A	
1987	1,316		1.002	1,319	N/A	
1988	1,899		1.003	1,904	N/A	
1989	1,772		1.004	1,779	N/A	
1990	575		1.005	578	N/A	
1991	1,217		1.010	1,229	N/A	
1992	1,655		1.015	1,680	N/A	
1993	1,084		1.020	1,106	N/A	
1994	2,097		1.025	2,150	N/A	
1995	408		1.033	421	N/A	
1996	501		1.043	522	N/A	
1997	1,938		1.053	2,040	N/A	
1998	1,175		1.067	1,254	N/A	
1999	2,711		1.086	2,943	N/A	
2000	1,381		1.105	1,526	N/A	
2001	2,194		1.130	2,480	49,323	0.050
2002	2,549		1.156	2,948	51,475	0.057
2003	3,685		1.183	4,358	54,736	0.080
2004	1,846		1.215	2,243	36,264	0.040
2005	2,044		1.248	2,551	67,634	0.038
2006	1,017		1.285	1,308	67,158	0.019
2007	1,265		1.324	1,675	71,897	0.023
2008	1,346		1.376	1,852	74,955	0.025
2009	1,952		1.431	2,793	77,831	0.036
2010	2,646		1.488	3,938	84,047	0.047
2011	1,032		1.548	1,598	80,441	0.020
2012	1,106		1.625	1,798	75,531	0.024
2013	1,014		1.707	1,731	74,599	0.023
2014	1,105		1.792	1,979	79,498	0.025
2015	901		1.899	1,711	79,710	0.021
2016	1,452		2.013	2,923	78,664	0.037
2017	1,282		2.199	2,819	81,051	0.035
2018	918			2,321	82,002	0.028
TOTAL	\$55,281			\$69,677		

Notes:
(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.
(2) & (7) - Per City's historical loss patterns.
(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).
For the most recent year, we used the Loss Rate Approach.
(5) = (3) / (4), (10) = (8) / (9). For the most recent year, it is the average of prior years.
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTETTER-FERGUSON APPROACH
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (1)	PAYROLL (\$ '000s) (2)	EXPECTED ULTIMATE LOSSES (3)	EXPECTED % OF LOSSES UNREPORTED (4)	IBNR RESERVES (5)	INCURRED LOSSES @9/30/2018 (6)	ULTIMATE INCURRED LOSSES (7)
1978		N/A	5509	0.0%	0	5509	5509
1979		N/A	657	0.0%	0	657	657
1980		N/A	745	0.0%	0	745	745
1981		N/A	815	0.0%	0	815	815
1982		N/A	687	0.0%	0	687	687
1983		N/A	368	0.0%	0	368	368
1984		N/A	668	0.0%	0	668	668
1985		N/A	860	0.0%	0	860	860
1986		N/A	896	0.0%	0	902	902
1987		N/A	1,317	0.0%	0	1,316	1,316
1988		N/A	1,909	0.0%	0	1,914	1,914
1989		N/A	1,820	0.0%	0	1,861	1,861
1990		N/A	584	0.0%	0	589	589
1991		N/A	1,225	0.2%	3	1,217	1,220
1992		N/A	1,671	0.4%	7	1,655	1,662
1993		N/A	1,098	0.6%	7	1,084	1,091
1994		N/A	2,202	1.0%	22	2,232	2,253
1995		N/A	418	1.5%	6	408	414
1996		N/A	528	2.1%	11	523	534
1997		N/A	2,188	2.7%	58	2,273	2,331
1998		N/A	1,231	2.7%	33	1,175	1,208
1999		N/A	3,163	3.3%	103	3,272	3,375
2000		N/A	1,502	4.6%	69	1,412	1,480
2001	0.024	49,323	1,170	9.4%	110	2,279	2,389
2002	0.024	51,475	1,243	9.7%	121	2,790	2,910
2003	0.025	54,736	1,355	11.0%	150	4,461	4,611
2004	0.025	56,264	1,417	12.4%	175	2,035	2,210
2005	0.026	67,634	1,732	13.7%	237	2,356	2,593
2006	0.026	67,158	1,749	15.4%	268	1,030	1,299
2007	0.026	71,897	1,903	17.0%	324	1,447	1,771
2008	0.027	74,955	2,016	18.6%	376	1,510	1,885
2009	0.027	77,831	2,126	20.2%	430	2,307	2,737
2010	0.028	84,047	2,332	21.8%	508	3,201	3,710
2011	0.028	80,441	2,266	23.3%	529	1,113	1,642
2012	0.029	75,531	2,160	26.3%	568	1,182	1,750
2013	0.029	74,599	2,165	29.1%	630	1,038	1,668
2014	0.030	79,498	2,346	31.8%	747	1,226	1,973
2015	0.030	79,710	2,401	34.5%	827	1,083	1,911
2016	0.031	78,664	2,403	37.0%	889	1,931	2,820
2017	0.031	81,051	2,511	39.4%	990	1,606	2,596
2018	0.031	82,002	2,576	44.6%	1,148	2,022	3,170
TOTAL					99,346	561,756	571,101

BORNHUETTETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (8)	PAYROLL (\$ '000s) (9)	EXPECTED ULTIMATE LOSSES (10)	EXPECTED % OF LOSSES UNPAID (11)	LOSS RESERVES (12)	PAID LOSSES @9/30/2018 (13)	ULTIMATE INCURRED LOSSES (14)
1978			5509	0.0%	0	5509	5509
1979			657	0.0%	0	657	657
1980			745	0.0%	0	745	745
1981			815	0.0%	0	815	815
1982			687	0.0%	0	687	687
1983			368	0.0%	0	368	368
1984			668	0.0%	0	668	668
1985			860	0.0%	0	860	860
1986			896	0.1%	1	891	902
1987			1,317	0.2%	3	1,316	1,319
1988			1,909	0.3%	6	1,899	1,914
1989			1,820	0.4%	8	1,772	1,861
1990			584	0.5%	3	575	589
1991			1,225	1.0%	12	1,217	1,229
1992			1,671	1.5%	25	1,655	1,680
1993			1,098	2.0%	22	1,084	1,106
1994			2,202	2.4%	54	2,097	2,232
1995		N/A	418	3.2%	13	408	421
1996		N/A	528	4.1%	22	501	523
1997		N/A	2,188	5.0%	109	1,938	2,273
1998		N/A	1,231	6.3%	77	1,175	1,253
1999		N/A	3,163	7.9%	249	2,711	3,272
2000		N/A	1,502	9.5%	143	1,381	1,523
2001	0.024	49,323	1,170	11.5%	135	2,194	2,329
2002	0.024	51,475	1,243	13.5%	168	2,549	2,790
2003	0.025	54,736	1,355	15.4%	209	3,685	4,461
2004	0.025	56,264	1,417	17.7%	251	1,846	2,097
2005	0.026	67,634	1,732	19.9%	344	2,044	2,388
2006	0.026	67,158	1,749	22.2%	388	1,017	1,406
2007	0.026	71,897	1,903	24.5%	465	1,265	1,730
2008	0.027	74,955	2,016	27.3%	551	1,346	1,897
2009	0.027	77,831	2,126	30.1%	641	1,952	2,592
2010	0.028	84,047	2,332	32.8%	765	2,646	3,411
2011	0.028	80,441	2,266	35.4%	802	1,032	1,834
2012	0.029	75,531	2,160	38.5%	831	1,106	1,938
2013	0.029	74,599	2,165	41.4%	897	1,014	1,911
2014	0.030	79,498	2,346	44.2%	1,037	1,105	2,141
2015	0.030	79,710	2,401	47.4%	1,137	901	2,038
2016	0.031	78,664	2,403	50.3%	1,210	1,452	2,661
2017	0.031	81,051	2,511	54.5%	1,369	1,282	2,651
2018	0.031	82,002	2,576	73.1%	1,883	918	2,801
TOTAL					513,751	555,281	554,571

Notes:
 (2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
 (1) & (8) - Exhibit IV, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit IV Page 2 loss rates.
 (3) = (1) x (2); (10) = (8) x (9).
 (4) = (1 - (1/LDF)); (11) = (1 - (1/LDF)).
 (5) = (3) x (4); (12) = (10) x (11).
 (7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
 *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUETTER-FERGUSON APPROACHES
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$1,479	\$1,526	\$1,000	1.016	N/A			
2001	2,515	2,480	1,000	1.016	\$49,323	5.14%	2.41%	2.37%
2002	3,090	2,948	1,000	1.016	51,475	5.96%	2.45%	2.41%
2003	5,015	4,358	1,200	1.008	54,736	8.63%	2.50%	2.48%
2004	2,322	2,243	1,200	1.008	56,264	4.09%	2.54%	2.52%
2005	2,729	2,551	1,200	1.008	67,634	3.93%	2.58%	2.56%
2006	1,217	1,308	1,200	1.008	67,158	1.89%	2.63%	2.60%
2007	1,744	1,675	1,200	1.008	71,897	2.40%	2.67%	2.65%
2008	1,855	1,852	1,200	1.008	74,955	2.49%	2.71%	2.69%
2009	2,892	2,793	1,200	1.008	77,831	3.68%	2.75%	2.73%
2010	4,094	3,938	1,200	1.008	84,047	4.82%	2.80%	2.77%
2011	1,452	1,598	1,200	1.008	80,441	1.91%	2.84%	2.82%
2012	1,603	1,798	1,200	1.008	75,531	2.27%	2.88%	2.86%
2013	1,464	1,731	1,200	1.008	74,599	2.16%	2.93%	2.90%
2014	1,799	1,979	1,250	1.006	79,498	2.39%	2.97%	2.95%
2015	1,653	1,711	1,500	1.000	79,710	2.11%	3.01%	3.01%
2016	3,065	2,923	1,500	1.000	78,664	3.81%	3.06%	3.06%
2017	2,651	2,819	1,500	1.000	81,051	3.37%	3.10%	3.10%
2018	2,208	2,819	1,500	1.000	82,002	3.07%	3.14%	3.14%
2019			\$1,500	1.000	\$83,642		3.18%	3.18%

Average	2.96%
Weighted Average Selected	2.95%
	based on fitted

Notes:

- (1) - Per Exhibit IV, Page 2, Column (3).
- (1) - Per Exhibit IV, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	306	316	366	366	369	429	429	498	507
1979	745	745	747	748	748	657	657	657	657
1980	513	513	543	676	776	754	920	915	915
1981	636	660	667	697	699	832	832	832	815
1982	769	778	765	715	693	687	687	687	687
1983	363	364	378	372	372	372	372	372	372
1984	738	896	895	895	902	902	902	895	895
1985	1,047	1,490	1,488	1,488	1,488	1,691	1,691	1,691	1,791
1986	887	889	883	883	882	882	882	887	887
1987	1,402	1,412	1,417	1,256	1,257	1,265	1,267	1,396	1,297
1988	1,853	1,817	1,817	1,819	1,824	1,843	1,872	1,880	1,880
1989	2,302	2,331	2,465	2,504	2,553	3,134	3,571	3,591	3,662
1990	513	538	543	558	558	558	588	696	701
1991	1,005	1,120	1,120	1,130	1,374	1,375	1,375	1,375	1,375
1992	1,610	1,650	1,690	1,740	1,746	1,746	1,746	1,751	1,756
1993	1,066	1,136	1,136	1,084	1,086	1,084	1,084	1,084	1,084
1994	1,870	1,873	1,873	2,665	2,665	2,496	2,496	2,431	2,431
1995	426	426	426	426	426	426	426	426	428
1996	585	626	627	669	693	737	737	796	819
1997	1,465	1,670	1,704	1,704	1,704	1,724	2,709	2,710	2,713
1998	1,250	1,210	1,285	1,288	1,170	1,175	1,175	1,175	1,175
1999	3,362	3,424	3,460	3,460	3,897	3,899	3,899	3,902	
2000	1,307	1,319	1,327	1,354	1,377	1,382	1,412		
2001	2,318	2,318	2,318	2,279	2,279				
2002	3,193	3,457	3,524	4,034	4,054				
2003	4,487	4,492	4,497	4,587					
2004	1,991	1,996	2,035						
2005	2,546	2,356							
2006	1,030								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.033	1.158	1.000	1.007	1.165	1.000	1.160	1.017	1.009
1979	1.000	1.003	1.001	1.000	0.877	1.000	1.000	1.000	1.000
1980	1.000	1.058	1.244	1.148	0.972	1.220	0.994	1.000	1.023
1981	1.037	1.011	1.045	1.002	1.190	1.000	1.000	0.980	1.000
1982	1.013	0.983	0.935	0.969	0.991	1.000	1.000	1.000	1.000
1983	1.001	1.040	0.984	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.214	0.999	1.000	1.008	1.000	1.000	0.992	1.000	1.000
1985	1.423	0.999	1.000	1.000	1.137	1.000	1.000	1.059	0.917
1986	1.002	0.994	1.000	0.998	1.000	1.000	1.006	1.000	1.000
1987	1.007	1.004	0.886	1.001	1.007	1.001	1.102	0.930	1.011
1988	0.980	1.000	1.001	1.003	1.010	1.016	1.004	1.000	1.000
1989	1.013	1.058	1.016	1.019	1.228	1.139	1.006	1.020	1.001
1990	1.049	1.009	1.028	1.001	1.000	1.054	1.184	1.008	0.811
1991	1.114	1.000	1.009	1.216	1.001	1.000	1.000	1.000	1.000
1992	1.025	1.024	1.030	1.003	1.000	1.000	1.003	1.003	1.016
1993	1.066	1.000	0.953	1.002	0.998	1.000	1.000	1.000	1.000
1994	1.002	1.000	1.423	1.000	0.937	1.000	0.974	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.006	0.952
1996	1.070	1.002	1.067	1.036	1.063	1.000	1.080	1.030	1.000
1997	1.140	1.020	1.000	1.000	1.012	1.571	1.001	1.001	1.030
1998	0.968	1.062	1.003	0.908	1.004	1.000	1.000	1.000	
1999	1.018	1.011	1.000	1.126	1.001	1.000	1.001		
2000	1.009	1.006	1.020	1.017	1.004	1.022			
2001	1.000	1.000	0.983	1.000	1.000				
2002	1.083	1.020	1.145	1.005					
2003	1.001	1.001	1.020						
2004	1.003	1.019							
2005	0.926								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.022	1.014	1.066	1.009	1.002	1.059	1.024	1.007	0.981
3 YR AVG.	0.977	1.013	1.049	1.007	1.002	1.007	1.001	1.010	0.994
10-YR AVERAGE EXCL HI LO	1.019	1.010	1.032	1.008	1.002	1.003	1.011	1.005	0.996
5 YR AVG X HI LO	1.001	1.009	1.013	1.007	1.003	1.007	1.001	1.002	1.000
PRIOR SELECTED (9/30/2017)	1.020	1.015	1.015	1.015	1.004	1.053	1.014	1.006	1.000
FACTORS FROM TAIL FACTOR STUDY									1.005
SELECTED	1.020	1.015	1.015	1.015	1.004	1.053	1.014	1.006	1.000
CUMULATIVE	1.181	1.158	1.141	1.124	1.108	1.103	1.048	1.034	1.027

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	511	511	500	502	502	503	516	518	483
1979	657	657	657	657	657	657	657	657	657
1980	936	894	894	894	894	894	894	894	894
1981	815	815	815	815	815	815	815	815	815
1982	687	687	687	687	687	687	687	687	687
1983	372	372	372	372	372	372	372	372	372
1984	895	995	995	995	1,107	1,107	1,182	1,182	1,183
1985	1,643	1,535	1,535	1,535	1,535	1,535	1,535	1,535	1,535
1986	887	887	893	893	893	907	908	916	916
1987	1,312	1,303	1,303	1,325	1,325	1,326	1,316	1,316	1,316
1988	1,880	1,885	1,910	1,910	1,910	1,914	1,914	1,914	1,914
1989	3,665	3,775	3,834	4,229	4,353	4,373	4,402	4,480	1,861
1990	569	587	588	588	589	589	589	589	
1991	1,375	1,495	1,495	1,505	1,505	1,505	1,217		
1992	1,784	1,791	1,920	1,920	1,920	1,655			
1993	1,084	1,084	1,084	1,084	1,084				
1994	2,431	2,431	2,431	2,432					
1995	408	408	408						
1996	820	523							
1997	2,794								
1998									
1999									
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LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1978	1.000	0.978	1.003	1.000	1.003	1.025	1.005	0.931	1.004
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	0.955	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.988
1984	1.112	1.000	1.000	1.113	1.000	1.068	1.000	1.001	1.000
1985	0.935	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.006	1.000	1.000	1.016	1.001	1.008	1.000	1.000
1987	0.993	1.000	1.016	1.000	1.001	0.993	1.000	1.000	1.000
1988	1.003	1.013	1.000	1.000	1.002	1.000	1.000	1.000	1.000
1989	1.030	1.016	1.103	1.029	1.004	1.007	1.018	0.415	
1990	1.032	1.002	1.002	1.000	1.000	1.000	1.000		
1991	1.087	1.000	1.007	1.000	1.000	0.809			
1992	1.004	1.072	1.000	1.000	0.862				
1993	1.000	1.000	1.000	1.000					
1994	1.000	1.000	1.000						
1995	1.000	1.000							
1996	0.638								
1997									
1998									
1999									
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2017									
10-YR AVERAGE	0.979	1.011	1.013	1.014	0.989	0.988	1.003	0.942	0.999
3 YR AVG.	0.879	1.000	1.000	1.000	0.954	0.939	1.006	0.805	1.000
10-YR AVERAGE EXCL HI LO	1.008	1.005	1.003	1.004	1.001	1.000	1.001	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.001	1.000	1.001	0.998	1.003	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.006	1.006	1.005	1.004	1.002	1.002	1.002	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.005	1.005	1.004	1.004	1.004	1.004	1.003	1.003	1.003
SELECTED	1.006	1.006	1.005	1.004	1.002	1.002	1.002	1.000	1.000
CUMULATIVE	1.027	1.021	1.015	1.010	1.006	1.004	1.002	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	485	518	518	616	616	508	509
1979	657	657	657	657	657	657	657
1980	894	894	894	894	894	894	894
1981	815	815	815	815	815	815	815
1982	687	687	687	687	687	687	687
1983	368	368	368	368	368	368	
1984	1,183	1,183	1,183	1,183	1,183		
1985	1,535	1,535	1,535	1,535			
1986	916	916	916				
1987	1,316	1,316					
1988	1,914						
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2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.068	1.000	1.190	1.000	0.825	1.001	
1979	1.000	1.000	1.000	1.000	1.000	1.000	
1980	1.000	1.000	1.000	1.000	1.000	1.000	
1981	1.000	1.000	1.000	1.000	1.000	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.000	
1983	1.000	1.000	1.000	1.000	1.000	1.000	
1984	1.000	1.000	1.000	1.000			
1985	1.000	1.000	1.000				
1986	1.000	1.000					
1987	1.000						
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2017							
10-YR AVERAGE	1.007						
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	
10-YR AVERAGE EXCL HI LO	1.000						
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.000	
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 CALCULATION OF THE LOSS DEVELOPMENT FACTORS
 WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
 AS OF SEPTEMBER 30, 2018
 (AMTS IN THOUSANDS)
 UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	264	276	288	300	312	324	336	348	360	
1978	376	385	396	407	416	427	439	450	461	
1979	657	657	657	657	657	657	657	657	657	
1980	894	894	894	894	894	894	894	894	894	
1981	815	815	815	815	815	815	815	815	815	
1982	687	687	687	687	687	687	687	687	687	
1983	363	364	365	365	366	366	366	367	367	
1984	806	821	836	851	866	881	896	911	927	
1985	1,516	1,535	1,535	1,535	1,535	1,535	1,535	1,535	1,535	
1986	887	887	893	893	893	893	895	903	903	
1987	1,299	1,303	1,303	1,312	1,312	1,313	1,316	1,316	1,316	
1988	1,864	1,867	1,869	1,871	1,875	1,884	1,887	1,887	1,893	
1989	3,138	3,336	3,424	3,697	3,797	3,971	4,146	4,271	4,772	
1990	568	568	569	570	574	574	575	575	575	
1991	1,340	1,362	1,373	1,380	1,389	1,406	1,417			
1992	1,718	1,731	1,756	1,778	1,785	1,655				
1993	1,084	1,084	1,084	1,084	1,084					
1994	1,952	2,012	2,066	2,128						
1995	408	408	408							
1996	709	501								
1997	1,938									
1998										
1999										
2000										
2001										
2002										
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2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.024	1.029	1.028	1.022	1.026	1.028	1.025	1.025	1.022
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.002	1.002	1.001	1.002	1.000	1.002	1.002	1.001	1.001
1984	1.019	1.019	1.018	1.018	1.018	1.017	1.016	1.017	1.016
1985	1.012	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.006	1.000	1.000	1.000	1.002	1.009	1.000	1.001
1987	1.003	1.000	1.006	1.000	1.001	1.002	1.000	1.000	1.000
1988	1.001	1.001	1.001	1.002	1.005	1.001	1.000	1.003	1.003
1989	1.063	1.026	1.080	1.027	1.046	1.044	1.030	0.415	
1990	1.001	1.002	1.002	1.007	1.000	1.000	1.001		
1991	1.017	1.008	1.005	1.007	1.012	0.866			
1992	1.008	1.015	1.012	1.004	0.927				
1993	1.000	1.000	1.000	1.000					
1994	1.031	1.027	1.030						
1995	1.000	1.000							
1996	0.707								
1997									
1998									
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2015									
2016									
2017									
10-YR AVERAGE	0.983	1.009	1.014	1.007	1.001	0.993	1.006	0.944	1.002
3 YR AVG.	0.913	1.009	1.014	1.004	0.980	0.970	1.010	0.806	1.001
10-YR AVERAGE EXCL HI LO	1.008	1.007	1.007	1.005	1.005	1.003	1.004	1.001	1.001
5 YR AVG X HI LO	1.003	1.008	1.006	1.006	1.006	1.001	1.003	1.000	1.001
PRIOR SELECTED (9/30/2017)	1.010	1.009	1.008	1.005	1.005	1.005	1.004	1.001	1.001
FACTORS FROM TAIL FACTOR STUDY	1.009	1.009	1.008	1.008	1.007	1.007	1.006	1.006	1.006
SELECTED	1.010	1.009	1.008	1.005	1.005	1.005	1.004	1.001	1.001
CUMULATIVE	1.053	1.043	1.033	1.025	1.020	1.015	1.010	1.005	1.004

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	472	478	488	497	505	508	509
1979	657	657	657	657	657	657	657
1980	894	894	894	894	894	894	894
1981	815	815	815	815	815	815	815
1982	687	687	687	687	687	687	687
1983	368	368	368	368	368	368	368
1984	942	956	972	988	1,001		
1985	1,535	1,535	1,535	1,535			
1986	904	904	905				
1987	1,316	1,316					
1988	1,899						
1989							
1990							
1991							
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2015							
2016							
2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.014	1.020	1.018	1.016	1.008	1.001	
1979	1.000	1.000	1.000	1.000	1.000	1.000	
1980	1.000	1.000	1.000	1.000	1.000	1.000	
1981	1.000	1.000	1.000	1.000	1.000	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.000	
1983	1.000	1.000	1.000	1.000	1.000	1.000	
1984	1.015	1.016	1.017	1.013			
1985	1.000	1.000	1.000				
1986	1.000	1.000	1.000				
1987	1.000						
1988							
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2017							
10-YR AVERAGE	1.003						
3 YR AVG.	1.000	1.005	1.006	1.004	1.000	1.000	
10-YR AVERAGE EXCL HI LO	1.002						
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.000	
PRIOR SELECTED (9/30/2017)	1.001	1.001	1.001	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.001	1.001	1.001	1.000	1.000	1.000	
CUMULATIVE	1.003	1.002	1.001	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
UNLIMITED LOSSES

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	12	24	36	48	60	72	84	96	108	120	132	144	
1993 and Prior													5,318
1994											289		289
1995										390			390
1996									339				339
1997								356					356
1998							344						344
1999						336							336
2000					334								334
2001				351									351
2002			264										263
2003		273											272
2004	265												266
2005	411	418											418
2006	365	368											367
2007	373	379											380
2008	265	267											268
2009	425	426											426
2010	338	343											344
2011	364	366											366
2012	284	291											289
2013	312	322											328
2014	301	301											303
2015	391	398											398
2016	278	283											285
2017	235	242											240
2018	240												240

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156	
1993 and Prior													1.000
1994													1.000
1995										1.000			1.000
1996									1.000				1.000
1997								1.000					1.000
1998							1.000						1.000
1999						1.000							1.000
2000					1.000								1.000
2001				1.000									1.000
2002			1.000										0.996
2003		1.000											1.000
2004	1.004												1.000
2005	1.017												1.000
2006	1.008	0.997											1.000
2007	1.016	1.000											1.000
2008	1.008	1.000											1.004
2009	1.002	1.000											1.000
2010	1.015	1.000											1.000
2011	1.005	1.000											1.000
2012	1.025	1.000											0.997
2013	1.032	1.009											1.000
2014	1.000	1.010											0.997
2015	1.018	1.000											1.000
2016	1.018	1.007											1.000
2017	1.030												1.000
AVERAGE	1.014	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.022	1.006	1.003	0.999	1.000	0.999	1.000	1.000	1.000	1.001	1.000	1.000	1.000
EXCL HI LO	1.014	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.022	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
UNLIMITED LOSSES

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS													
	156	168	180	192	204	216	228	240	252	264	276	288	300	312
1993 and Prior	5,318	5,318	5,318	5,318	5,318	5,318	5,318	5,319	5,317	5,317	5,317	5,317	5,317	5,310
1994	289	289	289	289	289	289	289	288	288	288	288	288	288	
1995	390	390	390	390	390	390	390	390	390	390	390	390		
1996	339	339	339	339	339	339	339	339	339	339	338			
1997	356	356	356	356	356	356	356	356	356	356				
1998	344	344	344	344	344	344	344	344	344					
1999	336	336	336	336	336	336	336	336						
2000	334	333	333	333	333	333	333							
2001	351	351	351	351	351	351								
2002	263	263	263	263	263									
2003	272	273	273	273										
2004	266	266	266											
2005	418	418												
2006	367													
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
1993 and Prior	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.999
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.997			
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
2000	0.997	1.000	1.000	1.000	1.000	1.000								
2001	1.000	1.000	1.000	1.000	1.000									
2002	1.000	1.000	1.000	1.000										
2003	1.004	1.000	1.000											
2004	1.000	1.000												
2005	1.000													
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
AVERAGE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999
3 YR AVG.	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000			
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	266	1.000	266	\$2,218	56,264	4.7	\$8,339
2005	418	1.000	418	2,565	67,634	6.2	6,138
2006	367	1.000	367	1,307	67,158	5.5	3,562
2007	380	1.000	380	1,730	71,897	5.3	4,554
2008	268	1.000	268	1,872	74,955	3.6	6,988
2009	426	1.000	426	2,754	77,831	5.5	6,465
2010	344	1.000	344	3,788	84,047	4.1	11,014
2011	366	1.000	366	1,631	80,441	4.5	4,458
2012	289	1.000	289	1,772	75,531	3.8	6,133
2013	328	1.000	328	1,693	74,599	4.4	5,164
2014	303	1.000	303	1,973	79,498	3.8	6,513
2015	398	1.000	398	1,828	79,710	5.0	4,594
2016	285	1.000	285	2,867	78,664	3.6	10,062
2017	242	1.000	242	2,679	81,051	3.0	11,072
2018	240	1.011	243	2,679	82,002	3.0	11,038
TOTAL	3,755		3,754	\$23,305			

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit IV, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES (1)	RETENTION LIMIT (2)	PAYROLL (IN \$000'S) (3)	LOSS RATE (4)
1978	\$509	\$500	N/A	
1979	657	500	N/A	
1980	745	500	N/A	
1981	815	1000	N/A	
1982	687	1000	N/A	
1983	368	250	N/A	
1984	668	250	N/A	
1985	860	250	N/A	
1986	899	250	N/A	
1987	1,317	1000	N/A	
1988	1,912	1000	N/A	
1989	1,840	1000	N/A	
1990	586	1000	N/A	
1991	1,225	1000	N/A	
1992	1,671	1000	N/A	
1993	1,098	1000	N/A	
1994	2,222	1,000	N/A	
1995	418	1,000	N/A	
1996	528	1,000	N/A	
1997	2,245	1,000	N/A	
1998	1,231	1,000	N/A	
1999	3,243	1,000	N/A	
2000	1,502	1,000	N/A	
2001	2,428	1,000	\$49,323	0.049
2002	2,934	1,000	51,475	0.057
2003	4,611	1,200	54,736	0.084
2004	2,218	1,200	56,264	0.039
2005	2,565	1,200	67,634	0.038
2006	1,307	1,200	67,158	0.019
2007	1,730	1,200	71,897	0.024
2008	1,872	1,200	74,955	0.025
2009	2,754	1,200	77,831	0.035
2010	3,788	1,200	84,047	0.045
2011	1,631	1,200	80,441	0.020
2012	1,772	1,200	75,531	0.023
2013	1,693	1,200	74,599	0.023
2014	1,973	1,250	79,498	0.025
2015	1,828	1,250	79,710	0.023
2016	2,867	1,250	78,664	0.036
2017	2,679	1,250	81,051	0.033
2018	2,625	1,250	82,002	0.032
(PROJ.) 2018/2019	\$2,830	\$1,250	\$83,642	0.034
(PROJ.) 2019/2020	2,959	1,250	85,315	0.035
(PROJ.) 2020/2021	3,094	1,250	87,021	0.036
(PROJ.) 2021/2022	3,234	1,250	88,761	0.036
(PROJ.) 2022/2023	3,382	1,250	90,537	0.037
(PROJ.) 2023/2024	3,535	1,250	92,347	0.038
(PROJ.) 2023/2024	3,678	1,250	94,194	0.039
(PROJ.) 2024/2025	3,827	1,250	96,078	0.040
(PROJ.) 2025/2026	3,981	1,250	98,000	0.041
(PROJ.) 2026/2027	4,142	1,250	99,960	0.041

*Accident years are 12-month periods ending 9/30 of the stated year.

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR	55% LEVEL (5)	70% LEVEL (6)	75% LEVEL (7)	80% LEVEL (8)	85% LEVEL (9)	90% LEVEL (10)
2018/2019	\$2,830	\$3,140	\$3,244	\$3,362	\$3,488	\$3,678
2019/2020	2,959	3,283	3,391	3,515	3,647	3,845
2020/2021	3,094	3,432	3,545	3,675	3,813	4,020
2021/2022	3,234	3,588	3,707	3,842	3,986	4,203
2022/2023	3,382	3,752	3,875	4,017	4,168	4,394
2023/2024	3,535	3,922	4,052	4,200	4,357	4,594

Notes:

(1) - Exhibit IV, Page 1, Column (5). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is selected based on prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Effective Date	Retention
10/1/1977	500
10/1/1980	1,000
10/1/1982	250
11/1/1986	1,000
10/1/2002	1,200

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	26.9%	45.5%	49.7%	52.6%	55.8%	58.6%	61.5%	64.6%	67.2%	69.9%	72.7%
INCREMENTAL LOSS PAYOUT PATTERN	26.9%	18.6%	4.2%	3.0%	3.2%	2.8%	2.9%	3.1%	2.6%	2.7%	2.8%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.4%	5.7%	4.1%	4.3%	3.8%	4.0%	4.2%	3.5%	3.7%	3.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	26.9%	18.6%	4.2%	3.0%	3.2%	2.8%	2.9%	3.1%	2.6%	2.7%	2.8%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING											
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT	
1993 and Prior	\$15,857	\$140	\$35	\$37	\$31	\$6	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$21
1994	2,222	125	24	25	27	22	5	7	0	0	0	0	0	15
1995	418	10	2	1	2	2	1	0	0	0	0	0	0	1
1996	528	27	6	5	3	3	3	3	1	1	0	0	0	2
1997	2,245	306	56	55	45	28	30	32	27	6	9	0	0	18
1998	1,231	55	11	8	8	6	4	4	5	4	1	1	3	3
1999	3,243	532	108	86	61	61	50	31	33	35	29	6	30	30
2000	1,502	122	21	21	16	12	12	9	6	6	7	6	7	7
2001	2,428	234	41	33	33	26	19	18	15	9	10	11	20	20
2002	2,934	386	57	58	46	46	36	26	26	21	13	14	43	43
2003	4,611	926	115	119	122	97	96	77	55	54	44	28	119	119
2004	2,218	372	47	40	42	43	34	34	27	19	19	15	51	51
2005	2,565	521	57	59	50	52	53	42	42	33	24	24	83	83
2006	1,307	290	30	28	29	25	26	27	21	21	17	12	53	53
2007	1,730	465	43	44	41	43	36	38	39	31	31	24	95	95
2008	1,872	527	55	44	45	42	44	37	38	39	31	31	121	121
2009	2,754	802	74	76	60	62	58	60	51	53	54	43	210	210
2010	3,788	1,142	94	97	100	79	81	75	79	67	69	71	331	331
2011	1,631	599	44	46	47	49	38	39	37	38	32	34	195	195
2012	1,772	666	53	45	47	48	50	39	40	37	39	33	234	234
2013	1,693	679	48	50	42	44	46	47	37	38	35	37	253	253
2014	1,973	868	55	58	60	51	53	55	56	45	46	43	348	348
2015	1,828	927	62	55	57	60	51	53	55	56	44	45	389	389
2016	2,867	1,415	84	89	78	82	87	73	76	79	81	64	624	624
2017	2,679	1,397	108	76	81	72	75	79	66	69	72	74	627	627
2018	2,625	1,707	434	98	70	74	65	68	72	60	63	65	638	638
2019	2,830		761	526	119	84	89	79	83	87	73	76	853	853
2020	2,959			796	550	124	88	93	83	87	91	76	971	971
2021	3,094				832	575	130	92	98	86	91	95	1,095	1,095
2022	3,234					870	601	136	96	102	90	95	1,244	1,244
2023	3,382						909	628	142	101	107	94	1,400	1,400
2024	3,535							951	657	148	105	112	1,562	1,562
2025	3,678								989	683	154	110	1,742	1,742
2026	3,827									1,029	161	161	1,926	1,926
2027	3,981										1,071	740	2,171	2,171
2028	4,142											1,114	3,028	3,028
TOTAL	\$105,186	\$15,242	\$2,525	\$2,676	\$2,745	\$2,788	\$2,880	\$2,954	\$3,050	\$3,146	\$3,263	\$3,353	\$20,525	\$20,525

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$15,746
2. Loss payments during 2018 for the accident years 2017 and prior	\$1,461
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$3,673)
4. Estimated ultimate losses for accident year 2018	\$2,625
5. Loss payments during 2018 for accident year 2018	(\$918)
6. Estimated net undiscounted reserves at 9/30/2018	\$15,242

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit IV, Page 8C, Column (3).
- (3) - Total from Exhibit IV, Page 8B, Column (3).
- (4) - See Exhibit IV, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$21,048	\$18,079	(\$2,969)
1995	421	418	(3)
1996	812	528	(284)
1997	2,173	2,245	72
1998	1,245	1,231	(15)
1999	3,243	3,243	0
2000	1,538	1,502	(36)
2001	2,459	2,428	(31)
2002	2,949	2,934	(15)
2003	4,577	4,611	34
2004	2,204	2,218	13
2005	2,732	2,565	(167)
2006	1,344	1,307	(37)
2007	1,636	1,730	94
2008	1,900	1,872	(28)
2009	2,751	2,754	2
2010	3,808	3,788	(19)
2011	1,689	1,631	(57)
2012	2,203	1,772	(431)
2013	1,736	1,693	(43)
2014	2,022	1,973	(49)
2015	2,080	1,828	(251)
2016	2,673	2,867	194
2017	2,327	2,679	352
TOTAL	\$71,571	\$67,898	(\$3,673)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit IV, Page 1, Column (5).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIM
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$20,382	\$17,814	(\$2,568)
1995	408	408	0
1996	709	501	(208)
1997	1,874	1,938	65
1998	1,175	1,175	0
1999	2,591	2,711	120
2000	1,373	1,381	7
2001	2,193	2,194	1
2002	2,530	2,549	19
2003	3,618	3,685	67
2004	1,780	1,846	66
2005	2,014	2,044	30
2006	1,014	1,017	4
2007	1,077	1,265	188
2008	1,316	1,346	30
2009	1,924	1,952	27
2010	2,563	2,646	83
2011	1,009	1,032	23
2012	1,360	1,106	(253)
2013	1,012	1,014	2
2014	1,091	1,105	13
2015	883	901	18
2016	1,276	1,452	176
2017	654	1,282	628
TOTAL	\$55,825	\$54,363	(\$1,461)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit IV, Page 1, Column (6).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1978 and Prior	\$426	\$426	\$426	\$426	\$426	\$410	\$16
1979	902	902	902	902	902	902	0
1980	2,945	2,945	2,945	2,945	2,945	2,945	0
1981	2,118	2,067	2,118	2,118	2,105	2,067	38
1982	2,132	2,082	2,132	2,132	2,120	2,061	58
1983	1,457	1,465	1,457	1,465	1,461	1,449	12
1984	4,416	4,460	4,416	4,460	4,438	4,408	31
1985	1,905	1,882	1,905	1,899	1,898	1,858	40
1986	1,425	1,438	1,425	1,438	1,431	1,419	13
1987	2,963	2,991	2,963	2,991	2,977	2,948	29
1988	4,947	4,963	4,947	4,963	4,955	4,887	68
1989	2,469	2,486	2,469	2,485	2,477	2,446	31
1990	4,387	4,431	4,387	4,431	4,409	4,357	52
1991	3,409	3,400	3,409	3,400	3,404	3,341	63
1992	3,563	3,450	3,563	3,537	3,528	3,388	140
1993	2,518	2,547	2,518	2,547	2,533	2,498	35
1994	1,881	1,902	1,881	1,902	1,891	1,864	28
1995	1,247	1,266	1,247	1,266	1,257	1,232	25
1996	2,244	2,287	2,244	2,286	2,265	2,210	55
1997	1,278	1,309	1,278	1,308	1,293	1,255	38
1998	1,334	1,370	1,334	1,369	1,352	1,305	47
1999	1,779	1,722	1,778	1,736	1,754	1,629	125
2000	1,670	1,729	1,670	1,728	1,699	1,625	74
2001	2,218	2,286	2,219	2,283	2,251	2,132	119
2002	2,539	2,484	2,538	2,486	2,512	2,299	213
2003	1,745	1,825	1,747	1,821	1,784	1,675	109
2004	1,692	1,779	1,679	1,746	1,724	1,614	110
2005	1,823	1,838	1,812	1,814	1,822	1,648	174
2006	1,457	1,356	1,471	1,395	1,419	1,198	221
2007	1,153	1,233	1,198	1,308	1,223	1,075	148
2008	1,636	1,693	1,660	1,729	1,679	1,456	224
2009	2,924	2,876	2,853	2,765	2,855	2,439	416
2010	1,683	1,529	1,739	1,639	1,647	1,278	369
2011	1,172	1,243	1,321	1,446	1,295	1,024	272
2012	3,487	3,560	3,307	3,300	3,414	2,887	527
2013	2,285	2,388	2,258	2,331	2,316	1,902	414
2014	2,088	2,237	2,081	2,195	2,150	1,736	414
2015	2,475	2,559	2,387	2,418	2,460	1,909	550
2016	2,333	2,403	2,367	2,430	2,383	1,524	859
2017	1,866	2,326	2,039	2,462	2,173	1,222	951
2018	2,361	2,567	2,690	2,738	2,589	810	1,779
TOTAL	\$90,350	\$91,702	\$90,780	\$92,044	\$91,219	\$82,334	\$8,885

Notes:

- (1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit V, Pages 2 and 3.
- (5) = Selected based on (1), (2), (3) & (4).
- (6) - Per CITY OF JACKSONVILLE.
- (7) = (5) - (6).
- *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.
- *Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES- LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(1)	(1A)	(2)	(3)	(4)	(5)
1978 and Prior	\$426		1.000	\$426	N/A	
1979	902		1.000	902	N/A	
1980	2,945		1.000	2,945	N/A	
1981	2,118		1.000	2,118	N/A	
1982	2,132		1.000	2,132	N/A	
1983	1,456		1.001	1,457	N/A	
1984	4,408		1.002	4,416	N/A	
1985	1,899		1.003	1,905	N/A	
1986	1,419		1.004	1,425	N/A	
1987	2,948		1.005	2,963	N/A	
1988	4,917		1.006	4,947	N/A	
1989	2,453		1.006	2,469	N/A	
1990	4,357		1.007	4,387	N/A	
1991	3,386		1.007	3,409	N/A	
1992	3,537		1.007	3,563	N/A	
1993	2,498		1.008	2,518	N/A	
1994	1,864		1.009	1,881	N/A	
1995	1,232		1.012	1,247	N/A	
1996	2,210		1.015	2,244	N/A	
1997	1,255		1.018	1,278	N/A	
1998	1,305		1.022	1,334	N/A	
1999	1,736		1.025	1,779	N/A	
2000	1,625		1.028	1,670	N/A	
2001	2,151		1.031	2,218	N/A	
2002	2,451		1.036	2,539	N/A	
2003	1,675		1.042	1,745	N/A	
2004	1,614		1.048	1,692	159,436	0.011
2005	1,730		1.054	1,823	169,833	0.011
2006	1,370		1.063	1,457	169,448	0.009
2007	1,075		1.072	1,153	172,338	0.007
2008	1,510		1.083	1,636	175,789	0.009
2009	2,656		1.101	2,924	184,392	0.016
2010	1,502		1.120	1,683	180,592	0.009
2011	1,029		1.139	1,172	187,761	0.006
2012	3,005		1.160	3,487	164,250	0.021
2013	1,935		1.181	2,285	152,157	0.015
2014	1,736		1.203	2,088	142,034	0.015
2015	2,013		1.230	2,475	133,098	0.019
2016	1,794		1.301	2,333	158,635	0.015
2017	1,434		1.301	1,866	161,636	0.012
2018	1,743			2,361	157,945	0.015
TOTAL	\$85,452			\$90,350		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LARGE LOSSES EXCLUDED FROM DEVELOPMENT	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(6)	(6A)	(7)	(8)	(9)	(10)
1978 and Prior	\$410		1.000	\$426	N/A	
1979	902		1.000	902	N/A	
1980	2,945		1.000	2,945	N/A	
1981	2,067		1.000	2,067	N/A	
1982	2,061		1.010	2,082	N/A	
1983	1,449		1.011	1,465	N/A	
1984	4,408		1.012	4,460	N/A	
1985	1,858		1.013	1,882	N/A	
1986	1,419		1.014	1,438	N/A	
1987	2,948		1.015	2,991	N/A	
1988	4,887		1.016	4,963	N/A	
1989	2,446		1.016	2,486	N/A	
1990	4,357		1.017	4,431	N/A	
1991	3,341		1.018	3,400	N/A	
1992	3,388		1.018	3,450	N/A	
1993	2,498		1.020	2,547	N/A	
1994	1,864		1.021	1,902	N/A	
1995	1,232		1.028	1,266	N/A	
1996	2,210		1.035	2,287	N/A	
1997	1,255		1.042	1,309	N/A	
1998	1,305		1.050	1,370	N/A	
1999	1,629		1.057	1,722	N/A	
2000	1,625		1.064	1,729	N/A	
2001	2,152		1.072	2,286	N/A	
2002	2,299		1.081	2,484	N/A	
2003	1,675		1.089	1,825	N/A	
2004	1,614		1.102	1,779	159,436	0.011
2005	1,648		1.116	1,838	169,833	0.011
2006	1,198		1.131	1,356	169,448	0.008
2007	1,075		1.147	1,233	172,338	0.007
2008	1,456		1.163	1,693	175,789	0.010
2009	2,439		1.179	2,876	184,392	0.016
2010	1,278		1.196	1,529	180,592	0.008
2011	1,024		1.214	1,243	187,761	0.007
2012	2,887		1.233	3,560	164,250	0.022
2013	1,902		1.256	2,388	152,157	0.016
2014	1,736		1.289	2,237	142,034	0.016
2015	1,909		1.340	2,559	133,098	0.019
2016	1,524		1.576	2,403	158,635	0.015
2017	1,222		1.903	2,326	161,636	0.014
2018	810			2,567	157,945	0.016
TOTAL	\$82,334			\$91,702		

Notes:

(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.

(2) & (7) - Per City's historical loss patterns.

(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).

For the most recent year, we used the Loss Rate Approach.

(5) = (3) / (4), (10) = (8) / (9). For the most recent year, it is the average of prior years.

* Accident years prior to 2018 are 12-month periods ending 9/30 of the started year.

* Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$ '000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	INCURRED LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1978 and Prior		N/A	\$426	0.0%	\$0	\$426	\$426
1979		N/A	902	0.0%	0	902	902
1980		N/A	2,945	0.0%	0	2,945	2,945
1981		N/A	2,093	0.0%	0	2,118	2,118
1982		N/A	2,107	0.0%	0	2,132	2,132
1983		N/A	1,461	0.1%	1	1,456	1,457
1984		N/A	4,438	0.2%	9	4,408	4,416
1985		N/A	1,893	0.3%	6	1,899	1,905
1986		N/A	1,431	0.4%	6	1,419	1,425
1987		N/A	2,977	0.5%	15	2,948	2,963
1988		N/A	4,955	0.6%	30	4,917	4,947
1989		N/A	2,477	0.6%	16	2,453	2,469
1990		N/A	4,409	0.7%	30	4,357	4,387
1991		N/A	3,404	0.7%	23	3,386	3,409
1992		N/A	3,506	0.7%	26	3,537	3,563
1993		N/A	2,533	0.8%	20	2,498	2,518
1994		N/A	1,891	0.9%	17	1,864	1,881
1995		N/A	1,257	1.2%	15	1,232	1,247
1996		N/A	2,265	1.5%	34	2,210	2,244
1997		N/A	1,293	1.8%	23	1,255	1,278
1998		N/A	1,352	2.1%	29	1,305	1,334
1999		N/A	1,750	2.4%	42	1,736	1,778
2000		N/A	1,699	2.7%	46	1,625	1,670
2001		N/A	2,252	3.0%	68	2,151	2,219
2002		N/A	2,512	3.5%	87	2,451	2,538
2003		N/A	1,785	4.0%	72	1,675	1,747
2004	0.009	159,436	1,421	4.6%	65	1,614	1,679
2005	0.009	169,833	1,607	5.1%	83	1,730	1,812
2006	0.010	169,448	1,696	5.9%	101	1,370	1,471
2007	0.011	172,338	1,819	6.7%	123	1,075	1,198
2008	0.011	175,789	1,952	7.7%	150	1,510	1,660
2009	0.012	184,392	2,149	9.2%	197	2,656	2,853
2010	0.012	180,592	2,203	10.7%	236	1,502	1,739
2011	0.013	187,761	2,394	12.2%	292	1,029	1,321
2012	0.013	164,250	2,184	13.8%	302	3,005	3,307
2013	0.014	152,157	2,107	15.3%	323	1,935	2,258
2014	0.014	142,034	2,049	16.8%	345	1,736	2,081
2015	0.015	133,098	2,005	18.7%	374	2,013	2,387
2016	0.016	158,635	2,477	23.1%	573	1,794	2,367
2017	0.016	161,636	2,613	23.1%	604	1,434	2,039
2018	0.017	157,945	2,641	35.9%	947	1,743	2,690
TOTAL					\$5,328	\$85,452	\$90,780

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$ '000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	PAID LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1978 and Prior		N/A	\$426	0.0%	\$0	\$410	\$426
1979		N/A	902	0.0%	0	902	902
1980		N/A	2,945	0.0%	0	2,945	2,945
1981		N/A	2,093	0.0%	0	2,067	2,118
1982		N/A	2,107	1.0%	21	2,061	2,132
1983		N/A	1,461	1.1%	16	1,449	1,465
1984		N/A	4,438	1.2%	53	4,408	4,460
1985		N/A	1,893	1.3%	24	1,858	1,899
1986		N/A	1,431	1.3%	19	1,419	1,438
1987		N/A	2,977	1.4%	43	2,948	2,991
1988		N/A	4,955	1.5%	76	4,887	4,963
1989		N/A	2,477	1.6%	40	2,446	2,485
1990		N/A	4,409	1.7%	74	4,357	4,431
1991		N/A	3,404	1.7%	59	3,341	3,409
1992		N/A	3,506	1.8%	63	3,388	3,537
1993		N/A	2,533	1.9%	49	2,498	2,547
1994		N/A	1,891	2.0%	38	1,864	1,902
1995		N/A	1,257	2.7%	34	1,232	1,266
1996		N/A	2,265	3.4%	76	2,210	2,286
1997		N/A	1,293	4.1%	53	1,255	1,308
1998		N/A	1,352	4.7%	64	1,305	1,369
1999		N/A	1,750	5.4%	95	1,629	1,736
2000		N/A	1,699	6.0%	103	1,625	1,728
2001		N/A	2,252	6.7%	151	2,132	2,283
2002		N/A	2,512	7.5%	187	2,299	2,486
2003		N/A	1,785	8.2%	146	1,675	1,821
2004	0.009	159,436	1,421	9.3%	132	1,614	1,746
2005	0.009	169,833	1,607	10.4%	166	1,648	1,814
2006	0.010	169,448	1,696	11.6%	197	1,198	1,395
2007	0.011	172,338	1,819	12.8%	233	1,075	1,308
2008	0.011	175,789	1,952	14.0%	273	1,456	1,729
2009	0.012	184,392	2,149	15.2%	326	2,439	2,765
2010	0.012	180,592	2,203	16.4%	361	1,278	1,639
2011	0.013	187,761	2,394	17.6%	422	1,024	1,446
2012	0.013	164,250	2,184	18.9%	413	2,887	3,300
2013	0.014	152,157	2,107	20.4%	429	1,902	2,331
2014	0.014	142,034	2,049	22.4%	459	1,736	2,195
2015	0.015	133,098	2,005	25.4%	509	1,909	2,418
2016	0.016	158,635	2,477	36.6%	906	1,524	2,430
2017	0.016	161,636	2,613	47.5%	1,240	1,222	2,462
2018	0.017	157,945	2,641	73.0%	1,928	810	2,738
TOTAL					\$9,477	\$82,334	\$92,044

Notes:

- (2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
- (1) & (8) - Exhibit V, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit V Page 2 loss rates.
- (3) = (1) x (2); (10) = (8) x (9).
- (4) = (1 - (1/LDF)); (11) = (1 - (1/PLDF)).
- (5) = (3) x (4); (12) = (10) x (11).
- (7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
- * Accident year prior to 2018 are 12-month periods ending 9/30 of the stated year.
- * Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INITIAL LOSS RATE FOR BORNHUETTER-FERGUSON APPROACHES
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$1,670	\$1,729	\$1,000	1.016	N/A			
2001	2,218	2,286	1,000	1.016	N/A			
2002	2,539	2,484	1,000	1.016	N/A			
2003	1,745	1,825	1,200	1.008	N/A			
2004	1,692	1,779	1,200	1.008	159,436	1.10%	0.90%	0.89%
2005	1,823	1,838	1,200	1.008	169,833	1.09%	0.95%	0.95%
2006	1,457	1,356	1,200	1.008	169,448	0.84%	1.01%	1.00%
2007	1,153	1,233	1,200	1.008	172,338	0.70%	1.06%	1.06%
2008	1,636	1,693	1,200	1.008	175,789	0.95%	1.12%	1.11%
2009	2,924	2,876	1,200	1.008	184,392	1.59%	1.17%	1.17%
2010	1,683	1,529	1,200	1.008	180,592	0.90%	1.23%	1.22%
2011	1,172	1,243	1,200	1.008	187,761	0.65%	1.29%	1.27%
2012	3,487	3,560	1,200	1.008	164,250	2.16%	1.34%	1.33%
2013	2,285	2,388	1,200	1.008	152,157	1.55%	1.40%	1.38%
2014	2,088	2,237	1,250	1.006	142,034	1.53%	1.45%	1.44%
2015	2,475	2,559	1,500	1.000	133,098	1.89%	1.51%	1.51%
2016	2,333	2,403	1,500	1.000	158,635	1.49%	1.56%	1.56%
2017	1,866	2,326	1,500	1.000	161,636	1.30%	1.62%	1.62%
2018	2,361	2,567	1,500	1.000	157,945	1.56%	1.67%	1.67%
2019			1,500	1.000	161,104		1.73%	1.73%

Average	1.29%
Weighted Average	1.26%
Selected	based on fitted

Notes:

- (1) - Per Exhibit V, Page 2, Column (3).
- (1) - Per Exhibit V, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978 and Prior	315	325	325	325	325	335	335	335	375
1979	678	678	678	678	678	678	742	742	745
1980	1,857	1,874	1,958	2,066	2,479	2,772	3,189	3,189	3,179
1981	2,049	2,074	2,059	2,077	2,127	2,121	2,126	2,127	2,073
1982	1,274	1,389	1,505	1,681	1,811	1,811	1,811	1,829	1,759
1983	1,692	1,651	1,627	1,763	1,808	1,832	1,900	2,013	2,013
1984	1,988	1,902	2,321	2,339	2,339	2,406	2,500	2,651	2,651
1985	2,194	2,124	2,122	2,171	2,156	2,156	2,116	2,118	2,126
1986	1,680	1,680	1,679	1,659	1,663	1,671	1,671	1,693	1,693
1987	2,785	2,565	2,739	2,789	2,791	2,791	2,804	2,924	2,924
1988	4,594	4,601	4,583	4,623	4,621	4,714	4,649	4,685	4,694
1989	2,315	2,456	2,512	2,486	2,491	2,672	2,468	2,398	2,399
1990	3,996	4,134	4,072	4,085	4,139	4,256	4,263	4,378	4,400
1991	3,394	3,329	3,337	3,340	3,341	3,347	3,347	3,329	3,372
1992	3,242	3,280	3,387	3,299	3,431	3,434	3,465	3,449	3,450
1993	2,206	2,206	2,524	2,524	2,518	2,518	2,518	2,586	2,586
1994	1,662	1,662	1,662	2,260	2,260	2,360	2,362	2,467	2,475
1995	1,189	1,229	1,309	1,232	1,232	1,232	1,232	1,232	1,232
1996	2,109	2,453	2,458	2,345	2,394	2,444	2,236	2,236	2,210
1997	1,264	1,264	1,264	1,264	1,264	1,264	1,264	1,264	1,264
1998	1,305	1,305	1,305	1,305	1,305	1,305	1,305	1,305	1,305
1999	1,641	1,669	1,654	1,654	1,736	1,736	1,736	1,736	1,736
2000	2,165	2,105	1,625	1,625	1,625	1,625	1,625		
2001	2,161	2,161	2,154	2,154	2,154	2,151			
2002	2,358	2,358	2,358	2,442	2,451				
2003	1,675	1,675	1,675	1,675					
2004	1,639	1,639	1,614						
2005	1,729	1,730							
2006	1,370								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.032	1.000	1.000	1.000	1.031	1.000	1.000	1.117	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.095	1.000	1.004	1.000
1980	1.009	1.045	1.055	1.200	1.118	1.150	1.000	0.997	0.915
1981	1.012	0.992	1.009	1.024	0.997	1.003	1.000	0.975	0.988
1982	1.090	1.083	1.117	1.077	1.000	1.000	1.010	0.962	1.051
1983	0.976	0.985	1.084	1.025	1.014	1.037	1.059	1.000	1.005
1984	0.956	1.220	1.008	1.000	1.029	1.039	1.060	1.000	1.014
1985	0.968	0.999	1.023	0.993	1.000	0.982	1.001	1.003	1.000
1986	1.000	1.000	0.988	1.002	1.005	1.001	1.013	1.000	1.003
1987	0.921	1.068	1.018	1.001	1.000	1.005	1.043	1.000	1.000
1988	1.001	0.996	1.009	1.000	1.020	0.986	1.008	1.002	1.032
1989	1.061	1.023	0.990	1.002	1.073	0.924	0.972	1.000	1.000
1990	1.035	0.985	1.003	1.013	1.028	1.001	1.027	1.005	1.036
1991	0.981	1.003	1.001	1.000	1.002	1.000	0.994	1.013	1.000
1992	1.012	1.033	0.974	1.040	1.001	1.009	0.995	1.000	1.001
1993	1.009	1.144	1.000	0.998	1.000	1.000	1.027	1.000	1.000
1994	1.000	1.000	1.360	1.000	1.044	1.001	1.044	1.003	1.008
1995	1.034	1.065	0.941	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.163	1.002	0.954	1.021	1.021	0.915	1.000	0.988	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.993
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1999	1.017	0.991	1.000	1.049	1.000	1.000	1.000		
2000	0.972	0.772	1.000	1.000	1.000	1.000			
2001	1.000	0.997	1.000	1.000	0.999				
2002	1.000	1.000	1.036	1.004					
2003	1.000	1.000	1.000						
2004	1.000	0.985							
2005	1.000								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.015	0.981	1.029	1.007	1.007	0.993	1.009	1.001	1.007
3 YR AVG.	1.000	0.995	1.012	1.001	1.000	1.000	0.996	0.998	
10-YR AVERAGE EXCL HI LO	1.002	0.997	0.999	1.003	1.003	1.000	1.006	1.001	1.005
5 YR AVG X HI/LO	1.000	0.994	1.000	1.001	1.000	1.000	1.000	1.000	1.000
SELECTED (9/30/2017)	1.008	1.006	1.006	1.006	1.005	1.003	1.003	1.003	1.003
FACTORS FROM TAIL FACTOR STUDY									1.001
SELECTED	1.008	1.006	1.006	1.006	1.005	1.003	1.003	1.003	1.003
CUMULATIVE	1.063	1.054	1.048	1.042	1.036	1.031	1.028	1.025	1.022

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978 and Prior	375	375	375	375	375	375	375	375	375
1979	745	770	770	775	775	790	790	842	842
1980	2,908	2,898	2,987	2,993	2,975	3,029	3,024	3,026	3,260
1981	2,049	2,050	2,054	2,056	2,138	2,064	2,065	2,072	2,073
1982	1,848	1,851	1,853	1,875	1,910	1,915	1,915	1,915	1,974
1983	2,023	2,073	1,996	1,996	1,996	1,996	1,996	1,996	1,996
1984	2,688	2,691	2,741	2,751	3,248	3,248	3,808	3,808	3,835
1985	2,126	2,175	2,175	2,297	2,302	2,532	2,532	2,565	2,565
1986	1,698	1,698	1,698	1,698	1,698	1,698	1,698	1,642	1,642
1987	2,924	2,975	2,975	2,977	2,977	2,978	3,079	3,025	3,025
1988	4,846	4,906	5,212	5,217	5,225	5,002	4,993	4,998	4,998
1989	2,399	2,499	2,504	2,525	2,446	2,452	2,453	2,453	2,453
1990	4,559	4,559	4,645	4,649	4,832	4,977	5,006	4,973	
1991	3,372	3,374	3,385	3,385	3,393	3,393	3,386		
1992	3,453	3,532	3,537	3,537	3,537	3,537			
1993	2,586	2,682	2,682	2,682	2,498				
1994	2,495	2,495	2,495	2,495					
1995	1,232	1,232	1,232						
1996	2,210	2,210							
1997	1,255								
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LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.033	1.000	1.007	1.000	1.019	1.000	1.066	1.000	1.119
1980	0.997	1.031	1.002	0.994	1.018	0.998	1.001	1.077	1.002
1981	1.001	1.002	1.001	1.040	0.965	1.001	1.004	1.000	0.994
1982	1.002	1.001	1.012	1.019	1.003	1.000	1.000	1.031	1.000
1983	1.025	0.963	1.000	1.000	1.000	1.000	1.000	1.000	1.001
1984	1.001	1.019	1.004	1.181	1.000	1.172	1.000	1.007	1.000
1985	1.023	1.000	1.056	1.002	1.100	1.000	1.013	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	0.967	1.000	1.000	1.000
1987	1.017	1.000	1.001	1.000	1.000	1.034	0.982	1.000	1.000
1988	1.012	1.062	1.001	1.002	0.957	0.998	1.001	1.000	0.997
1989	1.042	1.002	1.008	0.969	1.002	1.001	1.000	1.000	
1990	1.000	1.019	1.001	1.039	1.030	1.006	0.993		
1991	1.001	1.003	1.000	1.002	1.000	0.998			
1992	1.023	1.001	1.000	1.000	1.000				
1993	1.037	1.000	1.000	0.931					
1994	1.000	1.000	1.000						
1995	1.000	1.000							
1996	1.000								
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10-YR AVERAGE	1.013	1.009	1.007	1.013	1.009	1.018	0.999	1.012	1.011
3 YR AVG.	1.000	1.000	1.000	0.978	1.010	1.002	0.998	1.000	0.999
10-YR AVERAGE EXCL HI LO	1.011	1.003	1.001	1.002	1.004	1.005	1.000	1.005	1.000
5 YR AVG X HI/LO	1.008	1.000	1.000	0.990	1.001	1.002	0.998	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.003	1.003	1.003	1.001	1.001	1.001	1.000	1.000	1.000
FACTORS FROM TAIL FACTOR STUDY	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
SELECTED	1.003	1.003	1.003	1.001	1.001	1.001	1.000	1.000	1.000
CUMULATIVE	1.018	1.015	1.012	1.009	1.008	1.007	1.007	1.007	1.006

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978 and Prior	375	425	425	425	425	426	426
1979	942	942	943	943	1,222	1,225	1,228
1980	3,265	3,265	3,375	3,428	3,379	3,333	3,569
1981	2,060	2,061	2,112	2,118	2,118	2,118	2,118
1982	1,974	1,976	1,978	2,069	2,179	2,135	2,132
1983	1,997	1,997	1,998	1,998	1,998	1,998	
1984	3,835	4,751	4,751	4,751	4,751		
1985	2,565	2,565	2,765	2,765			
1986	1,642	1,642	1,642				
1987	3,025	2,988					
1988	4,985						
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2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.133	1.000	1.000	1.000	1.003	1.001	
1979	1.000	1.001	1.000	1.295	1.003	1.003	
1980	1.000	1.034	1.016	0.986	0.986	1.071	
1981	1.000	1.025	1.003	1.000	1.000	1.000	
1982	1.001	1.001	1.046	1.053	0.980	0.999	
1983	1.000	1.000	1.000	1.000	1.000		
1984	1.239	1.000	1.000	1.000			
1985	1.000	1.078	1.000				
1986	1.000	1.000					
1987	0.988						
1988							
1989							
1990							
1991							
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2016							
2017							
10-YR AVERAGE	1.036						
3 YR AVG.	0.996	1.026	1.000	1.018	0.993	1.023	
10-YR AVERAGE EXCL HI LO	1.017						
5 YR AVG X HI LO	1.000	1.000	1.001	1.000	0.995	1.001	
PRIOR SELECTED (9/30/2017)	1.001	1.001	1.001	1.001	1.001	1.001	
FACTORS FROM TAIL FACTOR STUDY	1.001	1.001	1.001	1.001	1.001	1.001	1.000
SELECTED	1.001	1.001	1.001	1.001	1.001	1.001	
CUMULATIVE	1.006	1.005	1.004	1.003	1.002	1.001	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978 and Prior	314	316	316	321	323	326	330	331	335
1979	529	538	547	556	567	583	598	608	619
1980	1,588	1,642	1,784	1,897	2,043	2,186	2,319	2,451	2,595
1981	1,734	1,793	1,839	1,862	1,886	1,917	1,927	1,937	1,945
1982	1,010	1,091	1,320	1,355	1,389	1,423	1,457	1,511	1,569
1983	1,324	1,353	1,380	1,408	1,467	1,597	1,853	1,937	1,950
1984	1,626	1,749	1,809	1,909	1,954	2,001	2,253	2,307	2,338
1985	1,957	1,969	1,982	1,993	2,033	2,044	2,053	2,063	2,074
1986	1,453	1,457	1,462	1,467	1,479	1,504	1,532	1,558	1,584
1987	2,244	2,448	2,543	2,606	2,631	2,658	2,697	2,724	2,751
1988	3,924	4,095	4,201	4,269	4,337	4,418	4,483	4,544	4,606
1989	2,059	2,191	2,220	2,265	2,292	2,328	2,353	2,372	2,386
1990	3,767	3,830	3,894	3,965	4,049	4,127	4,201	4,255	4,317
1991	3,282	3,291	3,302	3,307	3,309	3,316	3,318	3,318	3,320
1992	3,176	3,200	3,229	3,255	3,262	3,274	3,284	3,294	3,304
1993	2,129	2,154	2,179	2,206	2,232	2,258	2,286	2,314	2,345
1994	1,355	1,399	1,442	1,489	1,605	1,691	1,760	1,930	2,021
1995	1,079	1,094	1,161	1,232	1,232	1,232	1,232	1,232	1,232
1996	1,458	1,537	1,628	1,942	2,035	2,122	2,143	2,144	2,210
1997	1,264	1,264	1,264	1,264	1,264	1,264	1,264	1,264	1,264
1998	1,305	1,305	1,305	1,305	1,305	1,305	1,305	1,305	1,305
1999	1,536	1,560	1,566	1,572	1,591	1,604	1,617	1,629	
2000	1,556	1,615	1,625	1,625	1,625	1,625	1,625		
2001	2,074	2,121	2,130	2,131	2,131	2,132			
2002	2,253	2,269	2,284	2,291	2,299				
2003	1,675	1,675	1,675	1,675					
2004	1,550	1,555	1,614						
2005	1,643	1,648							
2006	1,198								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.005	1.000	1.015	1.006	1.010	1.012	1.004	1.011	1.007
1979	1.017	1.016	1.017	1.019	1.029	1.025	1.016	1.017	1.026
1980	1.034	1.087	1.063	1.077	1.070	1.061	1.057	1.059	1.022
1981	1.034	1.025	1.013	1.013	1.016	1.005	1.005	1.004	1.005
1982	1.080	1.210	1.026	1.026	1.024	1.024	1.037	1.038	1.015
1983	1.022	1.020	1.020	1.042	1.089	1.160	1.046	1.006	1.006
1984	1.076	1.034	1.055	1.024	1.024	1.126	1.024	1.013	1.027
1985	1.006	1.006	1.006	1.020	1.005	1.005	1.005	1.005	1.005
1986	1.002	1.004	1.004	1.008	1.017	1.018	1.017	1.017	1.011
1987	1.091	1.039	1.025	1.010	1.010	1.015	1.010	1.010	1.010
1988	1.044	1.026	1.016	1.016	1.018	1.015	1.014	1.013	1.011
1989	1.065	1.013	1.020	1.012	1.016	1.011	1.008	1.006	1.003
1990	1.017	1.017	1.018	1.021	1.019	1.018	1.013	1.015	1.010
1991	1.003	1.003	1.001	1.000	1.002	1.001	1.000	1.000	1.000
1992	1.008	1.009	1.008	1.002	1.004	1.003	1.003	1.003	1.005
1993	1.011	1.012	1.012	1.012	1.012	1.012	1.012	1.014	1.012
1994	1.032	1.031	1.033	1.078	1.054	1.041	1.097	1.047	1.028
1995	1.014	1.061	1.061	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.054	1.059	1.193	1.048	1.043	1.010	1.000	1.031	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.993
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1999	1.016	1.004	1.004	1.012	1.008	1.008	1.007		
2000	1.038	1.006	1.000	1.000	1.000	1.000			
2001	1.022	1.004	1.000	1.000	1.000				
2002	1.007	1.006	1.003	1.003					
2003	1.000	1.000	1.000						
2004	1.003	1.038							
2005	1.003								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.014	1.018	1.029	1.015	1.012	1.008	1.013	1.012	1.006
3 YR AVG.	1.002	1.015	1.001	1.001	1.003	1.003	1.002	1.010	0.998
10-YR AVERAGE EXCL HI LO	1.011	1.015	1.013	1.009	1.008	1.004	1.004	1.009	1.005
5 YR AVG X HI/LO	1.004	1.005	1.001	1.001	1.000	1.003	1.000	1.010	1.004
PRIOR SELECTED (9/30/2017)	1.014	1.012	1.012	1.008	1.008	1.007	1.007	1.007	1.007
FACTORS FROM TAIL FACTOR STUDY									1.004
SELECTED	1.014	1.012	1.012	1.008	1.008	1.007	1.007	1.007	1.007
CUMULATIVE	1.131	1.116	1.102	1.089	1.081	1.072	1.064	1.057	1.050

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	264	276	288	300	312	324	336	348	360	
1978 and Prior	337	342	344	344	347	351	357	359	361	
1979	635	649	661	677	694	707	725	743	763	
1980	2,651	2,703	2,790	2,818	2,827	2,857	2,870	2,910	2,924	
1981	1,956	1,965	1,973	1,982	1,991	2,028	2,035	2,041	2,048	
1982	1,593	1,616	1,638	1,664	1,689	1,708	1,726	1,746	1,765	
1983	1,962	1,974	1,985	1,985	1,986	1,987	1,987	1,987	1,989	
1984	2,402	2,435	2,535	2,578	2,613	2,653	3,161	3,267	3,459	
1985	2,083	2,093	2,101	2,115	2,138	2,366	2,382	2,401	2,443	
1986	1,602	1,605	1,608	1,611	1,637	1,638	1,642	1,642	1,642	
1987	2,778	2,806	2,836	2,865	2,895	2,928	2,959	2,988	3,025	
1988	4,657	4,718	4,781	4,846	4,918	4,965	4,968	4,998	4,968	
1989	2,393	2,397	2,402	2,430	2,432	2,438	2,453	2,439	2,446	
1990	4,360	4,409	4,458	4,498	4,679	4,977	4,840	4,879		
1991	3,320	3,332	3,334	3,334	3,393	3,338	3,341			
1992	3,319	3,330	3,347	3,537	3,373	3,388				
1993	2,374	2,411	2,682	2,474	2,498					
1994	2,078	2,124	2,164	2,207						
1995	1,232	1,232	1,232							
1996	2,210	2,210								
1997	1,255									
1998										
1999										
2000										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1978	1.013	1.008	1.000	1.009	1.010	1.019	1.007	1.005	1.009
1979	1.022	1.019	1.024	1.024	1.019	1.025	1.025	1.026	1.026
1980	1.019	1.032	1.010	1.003	1.011	1.005	1.014	1.005	1.011
1981	1.005	1.004	1.005	1.004	1.019	1.003	1.003	1.003	1.002
1982	1.015	1.013	1.016	1.015	1.011	1.011	1.012	1.011	1.011
1983	1.006	1.006	1.000	1.000	1.000	1.000	1.000	1.001	1.001
1984	1.014	1.041	1.017	1.014	1.015	1.191	1.034	1.059	1.039
1985	1.004	1.004	1.007	1.011	1.107	1.007	1.008	1.017	1.013
1986	1.002	1.002	1.002	1.016	1.001	1.002	1.000	1.000	1.000
1987	1.010	1.011	1.010	1.010	1.011	1.011	1.010	1.012	0.988
1988	1.013	1.013	1.013	1.015	1.010	1.001	1.006	0.994	0.997
1989	1.002	1.002	1.012	1.001	1.002	1.006	0.994	1.003	
1990	1.011	1.011	1.009	1.040	1.064	0.972	1.008		
1991	1.004	1.000	1.000	1.018	0.984	1.001			
1992	1.003	1.005	1.057	0.954	1.004				
1993	1.016	1.113	0.922	1.010					
1994	1.022	1.019	1.020						
1995	1.000	1.000							
1996	1.000								
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004									
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2007									
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2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	1.008	1.018	1.005	1.009	1.020	1.020	1.008	1.011	1.009
3 YR AVG.	1.007	1.044	1.000	0.994	1.017	0.993	1.003	1.003	0.995
10-YR AVERAGE EXCL HI LO	1.007	1.008	1.009	1.012	1.013	1.005	1.006	1.007	1.008
5 YR AVG X HI/LO	1.006	1.008	1.010	1.010	1.005	1.003	1.005	1.005	1.003
PRIOR SELECTED (9/30/2017)	1.007	1.007	1.007	1.001	1.001	1.001	1.001	1.001	1.001
FACTORS FROM TAIL FACTOR STUDY	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002
SELECTED	1.007	1.007	1.007	1.001	1.001	1.001	1.001	1.001	1.001
CUMULATIVE	1.042	1.035	1.028	1.021	1.020	1.018	1.018	1.017	1.016

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978 and Prior	365	384	395	395	395	396	402
1979	783	808	838	866	910	951	998
1980	2,957	2,973	2,991	3,028	3,048	3,136	3,569
1981	2,052	2,054	2,058	2,061	2,063	2,118	2,066
1982	1,783	1,802	1,824	1,847	2,179	2,053	2,061
1983	1,990	1,991	1,991	1,998	1,991	1,991	
1984	3,595	4,751	4,751	4,751	4,751		
1985	2,474	2,565	2,510	2,530			
1986	1,642	1,642	1,642				
1987	2,988	2,988					
1988	4,955						
1989							
1990							
1991							
1992							
1993							
1994							
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2014							
2015							
2016							
2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT
1978	1.052	1.029	1.000	1.000	1.004	1.014	
1979	1.032	1.037	1.034	1.050	1.046	1.049	
1980	1.005	1.006	1.012	1.007	1.029	1.138	
1981	1.001	1.002	1.001	1.001	1.027	0.975	
1982	1.011	1.012	1.013	1.180	0.942	1.004	
1983	1.000	1.000	1.004	0.997	1.000		
1984	1.322	1.000	1.000	1.000			
1985	1.037	0.978	1.008				
1986	1.000	1.000					
1987	1.000						
1988							
1989							
1990							
1991							
1992							
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2013							
2014							
2015							
2016							
2017							
10-YR AVERAGE	1.046						
3 YR AVG.	1.012	0.993	1.004	1.059	0.990	1.039	
10-YR AVERAGE EXCL HI LO	1.017						
5 YR AVG X HI/LO	1.012	1.000	1.004	1.003	1.019	1.022	
PRIOR SELECTED (9/30/2017)	1.001	1.001	1.001	1.001	1.001	1.001	
FACTORS FROM TAIL FACTOR STUDY	1.002	1.002	1.002	1.002	1.002	1.002	1.000
SELECTED	1.001	1.001	1.001	1.001	1.001	1.001	
CUMULATIVE	1.016	1.015	1.014	1.013	1.012	1.011	1.010

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
UNLIMITED LOSSES

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	12	24	36	48	60	72	84	96	108	120	132	144	
1993 and Prior													15,299
1994												838	838
1995											738	738	738
1996										710	710	710	710
1997									647	647	647	647	647
1998							648	648	648	648	648	648	648
1999						514	514	514	514	514	514	514	514
2000					512	512	512	512	512	512	512	512	512
2001				607	607	607	607	607	607	607	607	607	607
2002			678	679	678	678	677	677	677	677	677	677	677
2003		698	698	698	698	699	699	699	699	699	699	699	699
2004	695	700	696	696	697	697	697	697	697	697	697	697	697
2005	750	745	746	745	745	745	745	745	745	745	745	745	745
2006	643	639	642	636	636	636	636	636	636	636	636	636	636
2007	531	535	525	525	525	525	525	525	525	525	525	525	523
2008	573	560	560	560	559	559	559	559	559	559	559	558	
2009	477	482	482	482	482	483	483	483	483	483	481		
2010	477	478	478	477	477	478	478	478	478	478			
2011	444	442	443	443	443	443	443	441					
2012	408	411	411	411	411	411	411						
2013	381	385	375	370	370	367							
2014	356	355	347	347	347								
2015	361	359	359	359									
2016	376	384	383										
2017	244	242											
2018	272												

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156	
1993 and Prior													1.000
1994													1.000
1995													1.000
1996													1.000
1997													1.000
1998													1.000
1999													1.000
2000													1.000
2001													1.000
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2007													1.000
2008													1.000
2009													1.000
2010													1.000
2011													1.000
2012													1.000
2013													1.000
2014													1.000
2015													1.000
2016													1.000
2017													1.000
AVERAGE	1.001	0.995	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.002	0.991	0.996	1.000	0.997	1.000	0.998	1.000	0.999	0.999	0.999	1.000	1.000
EXCL HI LO	1.001	0.996	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI LO	1.000	0.991	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
UNLIMITED LOSSES

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS													
	156	168	180	192	204	216	228	240	252	264	276	288	300	312
1993 and Prior	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,299	15,273
1994	838	838	838	838	838	838	838	838	838	838	838	838	838	838
1995	738	738	738	738	738	738	738	738	738	738	738	738	738	738
1996	710	710	710	710	710	710	710	710	710	710	710	710	710	710
1997	647	647	647	647	647	647	647	647	647	647	647	647	647	647
1998	648	648	648	648	648	648	648	648	648	644	644	644	644	644
1999	515	515	515	515	515	515	515	515	514	514	514	514	514	514
2000	512	512	512	512	512	512	512	512	509	509	509	509	509	509
2001	607	607	607	607	607	604	604	604	604	604	604	604	604	604
2002	677	677	677	677	677	677	677	677	677	677	677	677	677	677
2003	699	699	699	699	696	696	696	696	696	696	696	696	696	696
2004	697	697	697	697	697	697	697	697	697	697	697	697	697	697
2005	745	738	738	738	738	738	738	738	738	738	738	738	738	738
2006	636	636	636	636	636	636	636	636	636	636	636	636	636	636
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	312	ULT.
1993 and Prior	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.994	0.994	0.994	0.994	0.994
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	0.998	0.998	0.998	0.998	0.998	0.998
2000	1.000	1.000	1.000	1.000	1.000	1.000	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994
2001	1.000	1.000	1.000	1.000	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995
2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003	1.000	1.000	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996
2004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
AVERAGE	0.999	1.000	1.000	1.000	0.999	0.999	1.000	0.999	0.998	1.000	1.000	1.000	1.000	0.998
3 YR AVG.	0.997	1.000	0.999	1.000	0.998	0.998	0.999	0.998	0.997	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	697	1.000	697	\$1,724	\$159,436	4.4	\$2,474
2005	738	1.000	738	1,822	169,833	4.3	2,469
2006	636	1.000	636	1,419	169,448	3.8	2,232
2007	523	1.000	523	1,223	172,338	3.0	2,339
2008	558	1.000	558	1,679	175,789	3.2	3,010
2009	481	1.000	481	2,855	184,392	2.6	5,935
2010	478	1.000	478	1,647	180,592	2.6	3,446
2011	441	1.000	441	1,295	187,761	2.3	2,937
2012	411	1.000	411	3,414	164,250	2.5	8,305
2013	367	1.000	367	2,316	152,157	2.4	6,310
2014	347	1.000	347	2,150	142,034	2.4	6,197
2015	359	1.000	359	2,460	133,098	2.7	6,851
2016	383	1.000	383	2,383	158,635	2.4	6,223
2017	242	1.000	242	2,173	161,636	1.5	8,982
2018	272	1.001	272	2,173	157,945	1.7	7,985
TOTAL	5,677		6,933	\$30,734			

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit V, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.
- *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.
- *Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES (1)	RETENTION LIMIT (2)	PAYROLL (IN \$000'S) (3)	LOSS RATE (4)
1978 and Prior	\$426	\$500	N/A	
1979	902	500	N/A	
1980	2,945	500	N/A	
1981	2,105	1000	N/A	
1982	2,120	1000	N/A	
1983	1,461	250	N/A	
1984	4,438	250	N/A	
1985	1,898	250	N/A	
1986	1,431	250	N/A	
1987	2,977	1000	N/A	
1988	4,955	1000	N/A	
1989	2,477	1000	N/A	
1990	4,409	1000	N/A	
1991	3,404	1000	N/A	
1992	3,528	1000	N/A	
1993	2,533	1000	N/A	
1994	1,891	1000	N/A	
1995	1,257	1000	N/A	
1996	2,265	1000	N/A	
1997	1,293	1000	N/A	
1998	1,352	1000	N/A	
1999	1,754	1,000	N/A	
2000	1,699	1,000	N/A	
2001	2,251	1,000	N/A	
2002	2,512	1,000	N/A	
2003	1,784	1,200	N/A	
2004	1,724	1,200	\$159,436	0.011
2005	1,822	1,200	169,833	0.011
2006	1,419	1,200	169,448	0.008
2007	1,223	1,200	172,338	0.007
2008	1,679	1,200	175,789	0.010
2009	2,855	1,200	184,392	0.015
2010	1,647	1,200	180,592	0.009
2011	1,295	1,200	187,761	0.007
2012	3,414	1,200	164,250	0.021
2013	2,316	1,200	152,157	0.015
2014	2,150	1,250	142,034	0.015
2015	2,460	1,250	133,098	0.018
2016	2,383	1,250	158,635	0.015
2017	2,173	1,250	161,636	0.013
2018	2,589	1,250	157,945	0.016
2018/2019	\$2,529	\$1,250	\$161,104	0.016
2019/2020	2,644	1,250	164,326	0.016
2020/2021	2,764	1,250	167,613	0.016
2021/2022	2,890	1,250	170,965	0.017
2022/2023	3,021	1,250	174,384	0.017
2023/2024	3,159	1,250	177,872	0.018
2023/2024	3,302	1,250	181,429	0.018
2024/2025	3,453	1,250	185,058	0.019
2025/2026	3,610	1,250	188,759	0.019
2026/2027	3,774	1,250	192,534	0.020

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR	55% LEVEL (5)	70% LEVEL (6)	75% LEVEL (7)	80% LEVEL (8)	85% LEVEL (9)	90% LEVEL (10)
2018/2019	\$2,529	\$2,806	\$2,898	\$3,004	\$3,117	\$3,286
2019/2020	2,644	2,933	3,030	3,141	3,258	3,435
2020/2021	2,764	3,067	3,168	3,284	3,407	3,592
2021/2022	2,890	3,206	3,312	3,433	3,562	3,755
2022/2023	3,021	3,352	3,462	3,589	3,724	3,926
2023/2024	3,159	3,505	3,620	3,753	3,893	4,104

Notes:

(1) - Exhibit V, Page 1, Column (5). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the average of prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Effective Date	Retention
10/1/1977	500
10/1/1980	1,000
10/1/1982	250
11/1/1986	1,000
10/1/2002	1,200

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	27.0%	52.5%	63.4%	74.6%	77.6%	79.6%	81.1%	82.4%	83.6%	84.8%	86.0%
INCREMENTAL LOSS PAYOUT PATTERN	27.0%	25.6%	10.9%	11.2%	3.0%	2.0%	1.4%	1.3%	1.3%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		35.0%	14.9%	15.3%	4.1%	2.8%	2.0%	1.8%	1.7%	1.6%	1.6%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	27.0%	25.6%	10.9%	11.2%	3.0%	2.0%	1.4%	1.3%	1.3%	1.2%	1.2%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$42,010	\$626	\$47	\$17	\$18	\$27	\$19	\$32	\$32	\$18	\$32	\$31	\$353
1994	1,891	28	1	2	1	1	1	1	1	1	1	1	16
1995	1,257	25	6	1	1	0	1	1	1	1	1	1	12
1996	2,265	55	11	11	1	2	1	1	1	1	2	2	22
1997	1,293	38	7	6	6	1	1	0	1	1	1	1	13
1998	1,352	47	7	7	7	7	1	1	1	1	1	1	15
1999	1,754	125	15	15	16	16	16	2	3	1	1	2	37
2000	1,699	74	8	8	8	9	8	8	1	2	1	1	21
2001	2,251	119	12	11	12	12	13	12	12	1	3	1	31
2002	2,512	213	21	19	18	19	19	20	19	19	2	4	51
2003	1,784	109	10	10	9	9	9	9	9	9	9	1	26
2004	1,724	110	13	9	9	8	8	8	8	8	8	8	24
2005	1,822	174	18	18	13	13	11	11	11	11	12	11	45
2006	1,419	221	24	21	21	14	14	12	12	13	13	13	64
2007	1,223	148	14	14	12	12	9	9	8	7	8	8	47
2008	1,679	224	19	19	20	17	17	12	12	10	10	11	76
2009	2,855	416	33	33	33	34	29	29	21	21	18	18	148
2010	1,647	369	27	27	27	27	28	24	24	17	17	15	136
2011	1,295	272	19	18	18	18	19	19	17	17	12	12	103
2012	3,414	527	36	35	33	33	33	34	34	30	30	21	208
2013	2,316	414	29	26	25	24	24	24	25	25	22	22	167
2014	2,150	414	38	27	24	23	22	22	22	22	23	20	172
2015	2,460	550	65	44	31	28	27	26	26	26	26	27	225
2016	2,383	859	263	70	48	34	30	29	28	28	28	28	272
2017	2,173	951	218	224	60	41	29	26	25	24	24	24	257
2018	2,589	1,779	623	265	273	73	49	35	32	31	29	29	341
2019	2,529		682	646	275	283	75	51	37	33	32	30	384
2020	2,644			713	676	288	296	79	54	38	34	33	433
2021	2,764				746	706	301	309	82	56	40	36	487
2022	2,890					780	739	315	323	86	59	42	547
2023	3,021						815	772	329	338	90	61	615
2024	3,159							852	807	344	353	94	707
2025	3,302								891	844	360	370	838
2026	3,453									932	883	376	1,262
2027	3,610										974	923	1,713
2028	3,774											1,019	2,756
TOTAL	\$122,364	\$8,885	\$2,265	\$2,318	\$2,441	\$2,558	\$2,665	\$2,787	\$2,909	\$3,016	\$3,155	\$3,293	\$12,622

Notes:
*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$10,817
2. Loss payments during 2018 for accident years 2017 and prior	(\$1,070)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$2,641)
4. Estimated ultimate losses for accident year 2018	\$2,589
5. Loss payments during 2018 for accident year 2018	(\$810)
6. Estimated net undiscounted reserves at 9/30/2018	\$8,885

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit V, Page 8C, Column (3).
- (3) - Total from Exhibit V, Page 8B, Column (3).
- (4) - See Exhibit V, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$44,114	\$43,901	(\$213)
1995	1,264	1,257	(8)
1996	2,279	2,265	(13)
1997	1,310	1,293	(17)
1998	1,360	1,352	(8)
1999	1,758	1,754	(4)
2000	1,710	1,699	(11)
2001	2,270	2,251	(18)
2002	2,524	2,512	(12)
2003	1,803	1,784	(19)
2004	1,713	1,724	11
2005	1,832	1,822	(10)
2006	1,359	1,419	61
2007	1,241	1,223	(18)
2008	1,772	1,679	(92)
2009	2,903	2,855	(48)
2010	1,672	1,647	(24)
2011	1,349	1,295	(54)
2012	3,488	3,414	(74)
2013	2,381	2,316	(65)
2014	2,313	2,150	(163)
2015	2,888	2,460	(429)
2016	2,984	2,383	(600)
2017	2,986	2,173	(813)
TOTAL	\$91,271	\$88,630	(\$2,641)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit V, Page 1, Column (5).

(3) = (2) - (1).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
KERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CL.
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$43,200	\$43,247	\$48
1995	1,232	1,232	0
1996	2,210	2,210	0
1997	1,264	1,255	(8)
1998	1,305	1,305	(0)
1999	1,617	1,629	12
2000	1,625	1,625	(0)
2001	2,132	2,132	1
2002	2,291	2,299	8
2003	1,675	1,675	(0)
2004	1,555	1,614	59
2005	1,643	1,648	5
2006	1,184	1,198	15
2007	1,075	1,075	0
2008	1,459	1,456	(3)
2009	2,432	2,439	7
2010	1,258	1,278	20
2011	1,024	1,024	(0)
2012	2,857	2,887	30
2013	1,887	1,902	15
2014	1,741	1,736	(4)
2015	1,874	1,909	35
2016	1,380	1,524	144
2017	535	1,222	688
TOTAL	\$80,454	\$81,524	\$1,070

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit V, Page 1, Column (6).

(3) = (2) - (1).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES (1)	PLDA ULTIMATE LOSSES (2)	BFILA ULTIMATE LOSSES (3)	BFPLA ULTIMATE LOSSES (4)	SELECTED ULTIMATE LOSSES (5)	PAID LOSSES @9/30/2018 (6)	LOSS RESERVES @9/30/2018 (7)
1978 and Prior	\$537	\$537	\$537	\$537	\$537	\$537	\$0
1979	680	680	680	680	680	680	0
1980	1,105	1,073	1,105	1,105	1,097	1,073	24
1981	3,095	3,095	3,095	3,095	3,095	3,095	0
1982	819	827	819	827	819	819	0
1983	2,180	2,070	2,180	2,180	2,152	2,047	105
1984	1,136	1,149	1,136	1,149	1,136	1,136	0
1985	1,516	1,535	1,516	1,535	1,516	1,516	0
1986	1,101	1,116	1,101	1,116	1,101	1,101	0
1987	3,166	3,198	3,166	3,198	3,182	3,150	32
1988	2,604	2,647	2,604	2,646	2,604	2,604	0
1989	1,602	1,558	1,602	1,601	1,591	1,532	59
1990	2,622	2,666	2,622	2,666	2,618	2,618	0
1991	2,320	2,359	2,320	2,359	2,314	2,314	0
1992	2,756	2,803	2,756	2,803	2,747	2,747	0
1993	1,598	1,625	1,598	1,625	1,590	1,590	0
1994	1,445	1,466	1,440	1,449	1,450	1,432	18
1995	1,942	1,918	1,929	1,921	1,927	1,862	66
1996	1,807	1,763	1,796	1,781	1,787	1,701	86
1997	1,444	1,478	1,437	1,462	1,417	1,417	0
1998	1,219	1,250	1,218	1,247	1,191	1,191	0
1999	667	685	682	715	649	649	0
2000	694	714	690	739	673	673	0
2001	804	829	798	817	776	776	0
2002	2,150	2,221	2,094	2,116	2,068	2,068	0
2003	1,710	1,670	1,672	1,639	1,673	1,546	127
2004	1,141	955	1,129	1,089	1,078	879	200
2005	862	862	861	861	861	788	73
2006	726	627	742	687	695	570	126
2007	945	775	955	890	891	698	194
2008	1,021	897	1,036	955	977	800	178
2009	1,521	1,542	1,498	1,502	1,516	1,361	155
2010	538	567	591	648	495	495	0
2011	458	484	533	596	418	418	0
2012	1,416	1,425	1,407	1,410	1,414	1,214	201
2013	1,116	994	1,150	1,064	1,081	836	245
2014	1,975	1,848	1,925	1,796	1,886	1,525	361
2015	1,247	1,125	1,284	1,203	1,215	905	310
2016	1,675	1,802	1,672	1,765	1,729	1,355	373
2017	1,581	1,655	1,610	1,683	1,632	972	661
2018	1,531	1,554	1,391	1,643	1,530	410	1,120
TOTAL	\$60,471	\$60,048	\$60,378	\$60,799	\$59,810	\$55,098	\$4,712

Notes:

(1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit VI, Pages 2 and 3.

(5) = Selected based on (1), (2), (3) & (4).

(6) - Per CITY OF JACKSONVILLE.

(7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

*Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018 (1)	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (1A)	LOSS DEVELOPMENT FACTORS (2)	ULTIMATE INCURRED LOSSES (3)	PAYROLL (IN \$000'S) (4)	ESTIMATED LOSS RATE (5)
1978 and Prior	\$537		1.000	\$537	N/A	
1979	680		1.000	680	N/A	
1980	1,105		1.000	1,105	N/A	
1981	3,095		1.000	3,095	N/A	
1982	819		1.000	819	N/A	
1983	2,180		1.000	2,180	N/A	
1984	1,136		1.000	1,136	N/A	
1985	1,516		1.000	1,516	N/A	
1986	1,101		1.000	1,101	N/A	
1987	3,166		1.000	3,166	N/A	
1988	2,604		1.000	2,604	N/A	
1989	1,601		1.001	1,602	N/A	
1990	2,618		1.002	2,622	N/A	
1991	2,314		1.003	2,320	N/A	
1992	2,747		1.004	2,756	N/A	
1993	1,590		1.005	1,598	N/A	
1994	1,435		1.007	1,445	71,983	0.020
1995	1,921		1.011	1,942	73,556	0.026
1996	1,781		1.015	1,807	104,530	0.017
1997	1,417		1.019	1,444	109,428	0.013
1998	1,191		1.023	1,219	117,461	0.010
1999	649		1.027	667	124,584	0.005
2000	673		1.031	694	114,512	0.006
2001	776		1.035	804	123,079	0.007
2002	2,068		1.040	2,150	127,417	0.017
2003	1,639		1.044	1,710	137,397	0.012
2004	1,089		1.048	1,141	148,054	0.008
2005	819		1.052	862	137,486	0.006
2006	687		1.056	726	161,143	0.005
2007	890		1.061	945	170,460	0.006
2008	955		1.069	1,021	184,267	0.006
2009	1,412		1.077	1,521	170,772	0.009
2010	495		1.086	538	167,276	0.003
2011	418		1.097	458	173,778	0.003
2012	1,278		1.108	1,416	172,037	0.008
2013	997		1.119	1,116	181,197	0.006
2014	1,744		1.132	1,975	190,785	0.010
2015	1,079		1.156	1,247	181,533	0.007
2016	1,418		1.181	1,675	191,761	0.009
2017	1,259		1.256	1,581	194,920	0.008
2018	731			1,531	193,625	0.008
TOTAL	\$57,630			\$60,471		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018 (6)	LARGE LOSSES EXCLUDED FROM DEVELOPMENT (6A)	LOSS DEVELOPMENT FACTORS (7)	ULTIMATE INCURRED LOSSES (8)	PAYROLL (IN \$000'S) (9)	ESTIMATED LOSS RATE (10)
1978 and Prior	\$537		1.000	\$537	N/A	
1979	680		1.000	680	N/A	
1980	1,073		1.000	1,073	N/A	
1981	3,095		1.000	3,095	N/A	
1982	819		1.010	827	N/A	
1983	2,047		1.011	2,070	N/A	
1984	1,136		1.012	1,149	N/A	
1985	1,516		1.013	1,535	N/A	
1986	1,101		1.014	1,116	N/A	
1987	3,150		1.015	3,198	N/A	
1988	2,604		1.016	2,647	N/A	
1989	1,532		1.017	1,558	N/A	
1990	2,618		1.018	2,666	N/A	
1991	2,314		1.020	2,359	N/A	
1992	2,747		1.021	2,803	N/A	
1993	1,590		1.022	1,625	N/A	
1994	1,432		1.024	1,466	71,983	0.020
1995	1,862		1.030	1,918	73,556	0.026
1996	1,701		1.036	1,763	104,530	0.017
1997	1,417		1.043	1,478	109,428	0.014
1998	1,191		1.049	1,250	117,461	0.011
1999	649		1.056	685	124,584	0.006
2000	673		1.061	714	114,512	0.006
2001	776		1.068	829	123,079	0.007
2002	2,068		1.074	2,221	127,417	0.017
2003	1,546		1.080	1,670	137,397	0.012
2004	879		1.087	955	148,054	0.006
2005	788		1.093	862	137,486	0.006
2006	570		1.102	627	161,143	0.004
2007	698		1.111	775	170,460	0.005
2008	800		1.122	897	184,267	0.005
2009	1,361		1.133	1,542	170,772	0.009
2010	495		1.144	567	167,276	0.003
2011	418		1.159	484	173,778	0.003
2012	1,214		1.174	1,425	172,037	0.008
2013	856		1.189	994	181,197	0.005
2014	1,525		1.212	1,848	190,785	0.010
2015	905		1.243	1,125	181,533	0.006
2016	1,355		1.330	1,802	191,761	0.009
2017	972		1.703	1,655	194,920	0.008
2018	410			1,554	193,625	0.008
TOTAL	\$55,098			\$60,048		

Notes:
(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.
(2) & (7) - Per City's historical loss patterns.
(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).
For the most recent year, we used the Loss Rate Approach.
(5) = (3) / (4), (10) = (8) / (9). For the most recent year, it is the average of prior years.
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUTTER-FERGUSON APPROACH
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUTTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (1)	PAYROLL (\$ '000s) (2)	EXPECTED ULTIMATE LOSSES (3)	EXPECTED % OF LOSSES UNREPORTED (4)	IBNR RESERVES (5)	INCURRED LOSSES @9/30/2018 (6)	ULTIMATE INCURRED LOSSES (7)
1978 and Prior	0.010	N/A	5537	0.0%	80	5537	5537
1979	0.010	N/A	680	0.0%	0	680	680
1980	0.010	N/A	1,089	0.0%	0	1,105	1,105
1981	0.010	N/A	3,095	0.0%	0	3,095	3,095
1982	0.010	N/A	823	0.0%	0	819	819
1983	0.010	N/A	2,125	0.0%	0	2,180	2,180
1984	0.010	N/A	1,143	0.0%	0	1,136	1,136
1985	0.010	N/A	1,526	0.0%	0	1,516	1,516
1986	0.010	N/A	1,109	0.0%	0	1,101	1,101
1987	0.010	N/A	3,182	0.0%	0	3,166	3,166
1988	0.010	N/A	2,626	0.0%	0	2,604	2,604
1989	0.010	N/A	1,580	0.1%	2	1,601	1,602
1990	0.010	N/A	2,644	0.2%	4	2,618	2,622
1991	0.010	N/A	2,339	0.3%	6	2,314	2,320
1992	0.010	N/A	2,780	0.4%	10	2,747	2,756
1993	0.010	N/A	1,611	0.5%	7	1,590	1,598
1994	0.010	71,963	721	0.7%	5	1,435	1,440
1995	0.010	73,556	737	1.1%	8	1,921	1,929
1996	0.010	104,530	1,047	1.5%	15	1,781	1,796
1997	0.010	109,428	1,096	1.9%	21	1,417	1,437
1998	0.010	117,461	1,177	2.3%	27	1,191	1,218
1999	0.010	124,584	1,248	2.7%	33	649	682
2000	0.005	114,512	575	3.0%	17	673	690
2001	0.005	123,079	645	3.4%	22	776	798
2002	0.005	127,417	695	3.8%	26	2,068	2,094
2003	0.006	137,397	785	4.2%	33	1,639	1,672
2004	0.006	148,054	878	4.6%	40	1,089	1,129
2005	0.006	137,486	846	5.0%	42	819	861
2006	0.006	161,143	1,026	5.3%	55	687	742
2007	0.007	170,460	1,123	5.8%	65	890	955
2008	0.007	184,267	1,254	6.4%	81	955	1,036
2009	0.007	170,772	1,199	7.2%	86	1,412	1,498
2010	0.007	167,276	1,211	8.0%	96	495	591
2011	0.007	173,778	1,296	8.9%	115	418	533
2012	0.008	172,037	1,321	9.8%	129	1,278	1,407
2013	0.008	181,197	1,431	10.7%	152	997	1,150
2014	0.008	190,785	1,551	11.7%	181	1,744	1,925
2015	0.008	181,533	1,525	13.5%	206	1,079	1,284
2016	0.009	191,761	1,653	15.3%	254	1,418	1,672
2017	0.009	194,920	1,723	20.4%	351	1,259	1,610
2018	0.009	193,625	1,754	37.6%	660	731	1,391
TOTAL					\$2,749	\$57,630	\$60,378

BORNHUTTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE (8)	PAYROLL (\$ '000s) (9)	EXPECTED ULTIMATE LOSSES (10)	EXPECTED % OF LOSSES UNPAID (11)	LOSS RESERVES (12)	PAID LOSSES @9/30/2018 (13)	ULTIMATE INCURRED LOSSES (14)
1978 and Prior	0.010	N/A	5537	0.0%	80	5537	5537
1979	0.010	N/A	680	0.0%	0	680	680
1980	0.010	N/A	1,089	0.0%	0	1,073	1,105
1981	0.010	N/A	3,095	0.0%	0	3,095	3,095
1982	0.010	N/A	823	1.0%	8	819	827
1983	0.010	N/A	2,125	1.1%	23	2,047	2,180
1984	0.010	N/A	1,143	1.2%	13	1,136	1,149
1985	0.010	N/A	1,526	1.3%	19	1,516	1,535
1986	0.010	N/A	1,109	1.4%	16	1,101	1,116
1987	0.010	N/A	3,182	1.5%	48	3,150	3,198
1988	0.010	N/A	2,626	1.6%	42	2,604	2,646
1989	0.010	N/A	1,580	1.7%	27	1,532	1,601
1990	0.010	N/A	2,644	1.8%	47	2,618	2,666
1991	0.010	N/A	2,339	1.9%	45	2,314	2,359
1992	0.010	N/A	2,780	2.0%	56	2,747	2,803
1993	0.010	N/A	1,611	2.1%	35	1,590	1,625
1994	0.010	71,963	721	2.4%	17	1,432	1,449
1995	0.010	73,556	737	2.9%	22	1,862	1,921
1996	0.010	104,530	1,047	3.5%	37	1,701	1,781
1997	0.010	109,428	1,096	4.1%	45	1,417	1,462
1998	0.010	117,461	1,177	4.7%	55	1,191	1,247
1999	0.010	124,584	1,248	5.3%	66	649	715
2000	0.010	114,512	575	5.8%	66	673	739
2001	0.005	123,079	645	6.3%	41	776	817
2002	0.005	127,417	695	6.9%	48	2,068	2,116
2003	0.006	137,397	785	7.4%	58	1,546	1,639
2004	0.006	148,054	878	8.0%	70	879	1,089
2005	0.006	137,486	846	8.5%	72	788	861
2006	0.006	161,143	1,026	9.2%	95	570	687
2007	0.007	170,460	1,123	10.0%	112	698	890
2008	0.007	184,267	1,254	10.9%	136	800	955
2009	0.007	170,772	1,199	11.7%	141	1,361	1,502
2010	0.007	167,276	1,211	12.6%	153	495	648
2011	0.007	173,778	1,296	13.7%	178	418	596
2012	0.008	172,037	1,321	14.8%	196	1,214	1,410
2013	0.008	181,197	1,431	15.9%	228	836	1,064
2014	0.008	190,785	1,551	17.5%	271	1,525	1,796
2015	0.008	181,533	1,525	19.6%	298	905	1,203
2016	0.009	191,761	1,653	24.8%	410	1,355	1,765
2017	0.009	194,920	1,723	41.3%	711	972	1,683
2018	0.009	193,625	1,754	70.3%	1,233	410	1,643
TOTAL					\$5,139	\$55,098	\$60,799

Notes:
 (2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.
 (1) & (8) - Exhibit VI, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit VI Page 2 loss rates.
 (3) = (1) x (2); (10) = (8) x (9).
 (4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).
 (5) = (3) x (4); (12) = (10) x (11).
 (7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).
 *Accident years are 12-month periods ending 9/30 of the stated year.
 *Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INITIAL LOSS RATE FOR BORNHUETTER-FERGUSON APPROACHES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$694	\$714	\$1,000	1.016	\$114,512	0.62%	0.51%	0.50%
2001	804	829	1,000	1.016	123,079	0.67%	0.53%	0.52%
2002	2,150	2,221	1,000	1.016	127,417	1.74%	0.55%	0.55%
2003	1,710	1,670	1,200	1.008	137,397	1.24%	0.58%	0.57%
2004	1,141	955	1,200	1.008	148,054	0.71%	0.60%	0.59%
2005	862	862	1,200	1.008	137,486	0.63%	0.62%	0.62%
2006	726	627	1,200	1.008	161,143	0.42%	0.64%	0.64%
2007	945	775	1,200	1.008	170,460	0.51%	0.66%	0.66%
2008	1,021	897	1,200	1.008	184,267	0.52%	0.69%	0.68%
2009	1,521	1,542	1,200	1.008	170,772	0.90%	0.71%	0.70%
2010	538	567	1,200	1.008	167,276	0.33%	0.73%	0.72%
2011	458	484	1,200	1.008	173,778	0.27%	0.75%	0.75%
2012	1,416	1,425	1,200	1.008	172,037	0.83%	0.77%	0.77%
2013	1,116	994	1,200	1.008	181,197	0.59%	0.80%	0.79%
2014	1,975	1,848	1,250	1.006	190,785	1.01%	0.82%	0.81%
2015	1,247	1,125	1,500	1.000	181,533	0.65%	0.84%	0.84%
2016	1,675	1,802	1,500	1.000	191,761	0.91%	0.86%	0.86%
2017	1,581	1,655	1,500	1.000	194,920	0.83%	0.88%	0.88%
2018	1,531	1,554	1,500	1.000	193,625	0.80%	0.91%	0.91%
2019			1,500	1.000	197,497		0.93%	0.93%

Average	0.75%
Weighted Average	0.74%
Selected	based on fitted

Notes:

- (1) - Per Exhibit VI, Page 2, Column (3).
- (1) - Per Exhibit VI, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	459	497	521	525	525	515	515	515	532
1979	588	588	589	589	584	584	636	641	631
1980	1,118	1,077	1,077	1,081	1,091	1,091	1,074	1,009	1,009
1981	1,641	1,732	1,746	1,858	2,388	2,386	2,446	2,418	2,417
1982	876	870	862	824	823	823	823	823	817
1983	1,703	1,713	1,715	1,760	1,770	1,778	1,786	1,786	1,894
1984	982	1,019	1,017	1,149	1,149	1,149	1,116	1,116	1,116
1985	1,307	1,280	1,280	1,280	1,280	1,278	1,315	1,385	1,531
1986	1,155	1,103	1,106	1,116	1,116	1,131	1,131	1,126	1,126
1987	2,489	2,520	2,512	2,777	2,904	2,918	3,166	3,142	2,994
1988	1,805	1,807	1,931	1,903	1,913	2,035	2,089	2,223	2,244
1989	1,190	1,246	1,256	1,256	1,281	1,311	1,316	1,365	1,375
1990	1,824	1,824	1,825	1,964	1,989	1,966	2,014	2,144	2,741
1991	2,704	2,693	2,703	2,769	2,769	2,890	2,945	2,945	2,988
1992	1,846	1,901	1,898	1,942	2,415	2,448	2,504	2,504	2,510
1993	1,451	1,463	1,469	1,474	1,481	1,474	1,474	1,500	1,518
1994	1,435	1,435	1,435	1,435	1,435	1,435	1,435	1,435	1,435
1995	1,997	1,974	1,969	1,839	1,839	1,855	1,843	1,848	1,870
1996	2,057	2,057	2,057	2,067	2,072	1,783	1,774	1,781	1,781
1997	1,423	1,423	1,429	1,408	1,408	1,408	1,408	1,408	1,408
1998	1,217	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191
1999	656	656	656	656	650	648	649	649	
2000	672	672	672	672	672	672	673		
2001	772	772	772	772	772	776			
2002	2,481	2,481	2,481	2,481	2,481				
2003	1,604	1,604	1,608	1,639					
2004	1,082	1,088	1,089						
2005	817	819							
2006	687								
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.083	1.048	1.007	1.000	0.982	1.000	1.000	1.033	0.986
1979	1.000	1.002	1.000	0.992	1.000	1.090	1.007	0.985	1.000
1980	0.963	1.000	1.004	1.009	1.000	0.984	0.940	1.000	1.000
1981	1.055	1.008	1.064	1.285	0.999	1.025	0.989	1.000	1.002
1982	0.993	0.990	0.957	0.998	1.000	1.000	1.000	0.992	1.000
1983	1.006	1.001	1.027	1.006	1.004	1.005	1.000	1.060	1.000
1984	1.038	0.998	1.129	1.000	1.000	0.971	1.000	1.000	1.000
1985	0.979	1.000	1.000	1.000	0.999	1.029	1.053	1.105	1.108
1986	0.955	1.003	1.009	1.000	1.013	1.000	0.996	1.000	1.004
1987	1.012	0.997	1.106	1.046	1.005	1.085	0.993	0.953	1.005
1988	1.001	1.069	0.985	1.005	1.064	1.027	1.064	1.009	1.155
1989	1.047	1.008	1.000	1.020	1.023	1.004	1.037	1.007	1.015
1990	1.000	1.001	1.076	1.013	0.989	1.024	1.065	1.279	1.049
1991	0.996	1.004	1.025	1.000	1.043	1.019	1.000	1.015	1.000
1992	1.030	0.998	1.023	1.244	1.014	1.023	1.000	1.002	1.147
1993	1.008	1.004	1.003	1.005	0.995	1.000	1.017	1.012	1.023
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	0.988	0.997	0.934	1.000	1.009	0.994	1.003	1.012	1.004
1996	1.000	1.000	1.005	1.002	0.860	0.995	1.004	1.000	1.000
1997	1.000	1.004	0.985	1.000	1.000	1.000	1.000	1.000	1.006
1998	0.979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1999	1.000	1.000	1.000	0.990	0.996	1.003	1.000		
2000	1.000	1.000	1.000	1.000	1.000				
2001	1.000	1.000	1.000	1.000	1.005				
2002	1.000	1.000	1.000	1.000					
2003	1.000	1.003	1.019						
2004	1.005	1.001							
2005	1.002								
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
10-YR AVERAGE	0.999	1.001	0.994	1.000	0.988	1.003	1.009	1.033	1.040
3-YR AVG.	1.002	1.001	1.006	1.000	1.000	1.001	1.000	1.000	1.003
10-YR AVERAGE EXCL HI LO	1.000	1.001	0.999	1.000	1.001	1.002	1.003	1.006	1.031
5-YR AVG X HI/LO	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.003
PRIOR SELECTED (9/30/2017)	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004
FACTORS FROM TAIL FACTOR STUDY									1.001
SELECTED	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004
CUMULATIVE	1.056	1.052	1.048	1.044	1.040	1.035	1.031	1.027	1.023

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	264	276	288	300	312	324	336	348	360
1978	525	525	525	525	525	525	525	525	575
1979	631	631	631	631	631	634	634	648	648
1980	1,009	1,009	1,009	1,009	1,029	1,029	1,029	1,029	1,029
1981	2,422	2,407	2,507	2,557	2,612	3,220	3,220	3,220	3,762
1982	817	817	817	817	817	817	817	817	817
1983	1,894	1,912	1,912	1,962	1,966	1,966	1,966	1,966	1,966
1984	1,116	1,116	1,126	1,145	1,145	1,145	1,145	1,145	1,145
1985	1,696	1,562	1,648	1,648	1,648	1,648	1,625	1,625	1,625
1986	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130
1987	3,009	3,241	3,368	3,627	4,854	4,876	4,897	4,897	4,772
1988	2,591	2,543	2,636	2,638	2,934	2,934	2,934	2,939	3,039
1989	1,395	1,395	1,395	1,479	1,479	1,479	1,599	1,601	1,601
1990	2,876	2,876	2,876	2,876	2,876	2,876	2,618	2,618	2,618
1991	2,988	3,032	3,037	3,037	3,040	3,040	2,965		
1992	2,880	2,882	2,882	2,935	3,013	3,040			
1993	1,552	1,552	1,589	1,589	1,590				
1994	1,435	1,435	1,435	1,435					
1995	1,878	1,921	1,921						
1996	1,781	1,781							
1997	1,417								
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
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LOSS DEVELOPMENT FACTORS ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO 276	TO 288	TO 300	TO 312	TO 324	TO 336	TO 348	TO 360	TO 372
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.095	1.000
1979	1.000	1.000	1.000	1.000	1.005	1.000	1.021	1.000	1.000
1980	1.000	1.000	1.000	1.020	1.000	1.000	1.000	1.000	1.000
1981	0.994	1.042	1.020	1.022	1.233	1.000	1.000	1.168	0.989
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.010	1.000	1.026	1.002	1.000	1.000	1.000	1.000	1.099
1984	1.000	1.009	1.016	1.000	1.000	1.000	1.000	1.000	1.000
1985	0.921	1.055	1.000	1.000	1.000	0.986	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.077	1.039	1.077	1.338	1.005	1.004	1.000	0.974	1.004
1988	0.981	1.037	1.001	1.112	1.000	1.000	1.002	1.034	1.004
1989	1.000	1.000	1.060	1.000	1.000	1.081	1.001	1.000	
1990	1.000	1.000	1.000	1.000	0.910	1.000	1.000		
1991	1.014	1.002	1.000	1.001	1.000	0.975			
1992	1.001	1.000	1.018	1.027	1.066				
1993	1.000	1.024	1.000	1.001					
1994	1.000	1.000	1.000						
1995	1.023	1.000							
1996	1.000								
1997									
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2017									
10-YR AVERAGE	1.010	1.010	1.016	1.048	0.998	1.005	1.000	1.018	1.010
3 YR AVG.	1.008	1.008	1.006	1.010	0.992	1.019	1.001	1.003	1.003
10-YR AVERAGE EXCL HI LO	1.005	1.008	1.010	1.018	1.001	0.999	1.000	1.004	1.001
5 YR AVG X HI/LO	1.000	1.001	1.000	1.001	1.000	1.001	1.000	1.000	1.001
PRIOR SELECTED (9/30/2017)	1.004	1.004	1.004	1.002	1.001	1.001	1.001	1.001	1.001
FACTORS FROM TAIL FACTOR STUDY	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
SELECTED	1.004	1.004	1.004	1.002	1.001	1.001	1.001	1.001	1.001
CUMULATIVE	1.019	1.015	1.011	1.007	1.005	1.004	1.003	1.002	1.001

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT							
ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	575	575	575	575	575	576	577
1979	648	648	748	748	748	748	748
1980	1,029	1,103	1,103	1,104	1,104	1,104	1,104
1981	3,720	3,720	3,842	3,896	3,896	3,834	3,834
1982	817	817	817	817	817	817	819
1983	2,159	2,181	2,181	2,181	2,181	2,183	
1984	1,145	1,145	1,145	1,145	1,145		
1985	1,625	1,625	1,625	1,625			
1986	1,130	1,130	1,130				
1987	4,792	4,794					
1988	3,052						
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LOSS DEVELOPMENT FACTORS							
ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT.
1978	1.000	1.000	1.000	1.000	1.002	1.002	
1979	1.000	1.154	1.000	1.000	1.000	1.000	
1980	1.072	1.000	1.001	1.000	1.000	1.000	
1981	1.000	1.033	1.014	1.000	0.984	1.000	
1982	1.000	1.000	1.000	1.000	1.000	1.003	
1983	1.010	1.000	1.000	1.000	1.001		
1984	1.000	1.000	1.000	1.000			
1985	1.000	1.000	1.000				
1986	1.000	1.000					
1987	1.001						
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2016							
2017							
10-YR AVERAGE	1.008						
3 YR AVG.	1.000	1.000	1.000	1.000	0.995	1.001	
10-YR AVERAGE EXCL HI LO	1.001						
5 YR AVG X HI LO	1.000	1.000	1.000	1.000	1.000	1.001	
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	
FACTORS FROM TAIL FACTOR STUDY	1.001	1.001	1.001	1.001	1.001	1.001	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS								
	156	168	180	192	204	216	228	240	252
1978	435	441	483	489	491	496	498	499	500
1979	495	502	510	517	524	531	538	545	551
1980	934	943	957	966	973	982	991	994	995
1981	1,248	1,306	1,379	1,446	1,554	1,623	1,779	1,829	1,892
1982	767	770	771	773	773	774	774	775	817
1983	1,669	1,673	1,676	1,688	1,701	1,718	1,732	1,748	1,767
1984	882	894	902	1,063	1,068	1,071	1,074	1,078	1,081
1985	1,170	1,173	1,178	1,191	1,197	1,201	1,226	1,297	1,317
1986	1,078	1,103	1,104	1,106	1,108	1,110	1,111	1,112	1,112
1987	1,812	1,938	2,029	2,142	2,299	2,400	2,507	2,624	2,759
1988	1,429	1,506	1,583	1,642	1,695	1,810	1,900	1,986	2,068
1989	1,146	1,204	1,210	1,213	1,221	1,240	1,245	1,267	1,288
1990	1,507	1,556	1,605	1,657	1,709	1,777	1,874	1,960	2,040
1991	2,679	2,684	2,701	2,715	2,722	2,833	2,840	2,851	2,861
1992	1,685	1,722	1,765	1,840	1,978	2,050	2,109	2,160	2,213
1993	1,429	1,451	1,458	1,461	1,465	1,469	1,471	1,473	1,478
1994	1,430	1,431	1,431	1,431	1,431	1,431	1,431	1,432	1,432
1995	1,673	1,720	1,777	1,830	1,832	1,833	1,840	1,842	1,844
1996	1,497	1,574	1,591	1,609	1,614	1,690	1,692	1,699	1,700
1997	1,397	1,398	1,398	1,408	1,408	1,408	1,408	1,408	1,408
1998	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191
1999	631	632	632	632	648	648	649	649	
2000	672	672	672	672	672	672	672	672	
2001	772	772	772	772	772	772	772	772	
2002	2,481	2,481	2,481	2,481	2,481				
2003	1,510	1,515	1,522	1,546					
2004	866	872	879						
2005	787	788							
2006	570								
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2018									

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252
	TO 168	TO 180	TO 192	TO 204	TO 216	TO 228	TO 240	TO 252	TO 264
1978	1.014	1.094	1.014	1.004	1.010	1.003	1.003	1.002	1.002
1979	1.014	1.016	1.014	1.013	1.014	1.013	1.013	1.012	1.012
1980	1.010	1.015	1.010	1.007	1.010	1.009	1.003	1.001	1.001
1981	1.047	1.055	1.049	1.075	1.044	1.096	1.028	1.034	1.057
1982	1.004	1.002	1.002	1.001	1.001	1.001	1.000	1.054	1.000
1983	1.002	1.002	1.007	1.008	1.010	1.008	1.009	1.011	1.005
1984	1.014	1.009	1.178	1.005	1.003	1.003	1.004	1.003	1.003
1985	1.003	1.004	1.011	1.005	1.004	1.020	1.058	1.015	1.114
1986	1.023	1.000	1.002	1.002	1.001	1.001	1.001	1.000	1.016
1987	1.070	1.047	1.056	1.073	1.044	1.045	1.047	1.051	1.048
1988	1.054	1.051	1.037	1.032	1.068	1.049	1.045	1.041	1.052
1989	1.051	1.005	1.003	1.007	1.015	1.005	1.017	1.017	1.004
1990	1.033	1.032	1.032	1.031	1.040	1.055	1.046	1.041	1.186
1991	1.002	1.006	1.005	1.003	1.041	1.002	1.004	1.004	1.004
1992	1.021	1.025	1.043	1.075	1.036	1.029	1.024	1.025	1.026
1993	1.016	1.005	1.002	1.002	1.003	1.002	1.002	1.003	1.014
1994	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.028	1.033	1.030	1.001	1.001	1.004	1.001	1.001	1.004
1996	1.051	1.011	1.011	1.003	1.047	1.001	1.004	1.001	1.000
1997	1.001	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.006
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1999	1.002	1.000	1.001	1.024	1.000	1.003	1.000		
2000	1.000	1.000	1.000	1.000	1.000	1.000			
2001	1.000	1.000	1.000	1.000	1.005				
2002	1.000	1.000	1.000						
2003	1.004	1.004	1.016						
2004	1.007	1.008							
2005	1.002								
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2017									
10-YR AVERAGE	1.007	1.006	1.007	1.003	1.009	1.004	1.008	1.009	1.030
3 YR AVG	1.004	1.004	1.005	1.000	1.002	1.001	1.000	1.000	1.003
10-YR AVERAGE EXCL HI LO	1.002	1.003	1.004	1.001	1.006	1.002	1.004	1.006	1.014
5 YR AVG X HI/LO	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.003
PRIOR SELECTED (9/30/2017)	1.007	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006
FACTORS FROM TAIL FACTOR STUDY									1.004
SELECTED	1.007	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006
CUMULATIVE	1.102	1.093	1.087	1.080	1.074	1.068	1.061	1.056	1.049

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS									
	264	276	288	300	312	324	336	348	360	
1978	501	503	504	506	510	514	516	519	522	
1979	558	565	572	578	585	595	602	609	616	
1980	996	998	1,000	1,003	1,005	1,007	1,010	1,011	1,017	
1981	2,000	2,079	2,145	2,244	2,343	2,474	2,557	2,669	2,890	
1982	817	817	817	817	817	817	817	817	817	
1983	1,775	1,791	1,801	1,821	1,844	1,865	1,877	1,888	1,903	
1984	1,084	1,088	1,091	1,145	1,145	1,145	1,145	1,145	1,145	
1985	1,468	1,473	1,614	1,617	1,620	1,625	1,625	1,625	1,625	
1986	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	1,130	
1987	2,891	3,009	3,195	3,354	3,506	3,643	3,741	3,741	4,262	
1988	2,175	2,408	2,489	2,550	2,602	2,654	2,654	2,762	2,837	
1989	1,293	1,305	1,309	1,389	1,425	1,425	1,469	1,514	1,532	
1990	2,420	2,459	2,500	2,543	2,543	2,618	2,618	2,618		
1991	2,872	2,889	2,907	2,907	2,934	2,950	2,965			
1992	2,270	2,337	2,337	2,502	2,722	2,783				
1993	1,499	1,499	1,589	1,589	1,590					
1994	1,432	1,432	1,432	1,432						
1995	1,851	1,858	1,862							
1996	1,700	1,701								
1997	1,417									
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LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	264	276	288	300	312	324	336	348	360
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	276	288	300	312	324	336	348	360	372
1978	1.003	1.001	1.006	1.007	1.008	1.004	1.005	1.006	1.002
1979	1.012	1.012	1.012	1.012	1.016	1.012	1.012	1.011	1.011
1980	1.002	1.002	1.003	1.002	1.001	1.003	1.001	1.006	1.008
1981	1.039	1.032	1.046	1.044	1.056	1.033	1.044	1.083	1.033
1982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.009	1.006	1.011	1.013	1.011	1.006	1.006	1.008	1.009
1984	1.003	1.003	1.049	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.004	1.095	1.002	1.002	1.003	1.000	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.041	1.062	1.050	1.045	1.039	1.027	1.000	1.139	1.012
1988	1.107	1.034	1.024	1.021	1.020	1.000	1.041	1.027	1.028
1989	1.009	1.003	1.062	1.026	1.000	1.030	1.031	1.012	
1990	1.016	1.017	1.017	1.000	1.030	1.000	1.000		
1991	1.006	1.006	1.000	1.009	1.005	1.005			
1992	1.029	1.000	1.071	1.088	1.022				
1993	1.000	1.060	1.000	1.001					
1994	1.000	1.000	1.000						
1995	1.004	1.002							
1996	1.000								
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10-YR AVERAGE	1.021	1.018	1.023	1.019	1.013	1.007	1.012	1.028	1.010
3 YR AVG	1.001	1.021	1.024	1.033	1.019	1.012	1.024	1.059	1.013
10-YR AVERAGE EXCL HI LO	1.013	1.015	1.019	1.013	1.011	1.005	1.010	1.017	1.009
5 YR AVG X HI/LO	1.001	1.003	1.006	1.012	1.016	1.011	1.010	1.013	1.004
PRIOR SELECTED (9/30/2017)	1.006	1.006	1.006	1.002	1.001	1.001	1.001	1.001	1.001
FACTORS FROM TAIL FACTOR STUDY	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002
SELECTED	1.006	1.006	1.006	1.002	1.001	1.001	1.001	1.001	1.001
CUMULATIVE	1.043	1.036	1.030	1.024	1.022	1.021	1.020	1.018	1.017

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS						
	372	384	396	408	420	432	444
1978	523	524	526	527	529	532	535
1979	622	629	635	642	649	655	655
1980	1,025	1,030	1,036	1,041	1,044	1,044	1,056
1981	2,986	3,059	3,148	3,316	3,316	3,458	3,503
1982	817	817	817	817	817	817	819
1983	1,920	1,944	1,944	2,018	2,035	2,051	
1984	1,145	1,145	1,145	1,145	1,145		
1985	1,625	1,625	1,625	1,625			
1986	1,130	1,130	1,130				
1987	4,315	4,370					
1988	2,917						
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2016							
2017							
2018							

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	372	384	396	408	420	432	444
	TO	TO	TO	TO	TO	TO	TO
	384	396	408	420	432	444	ULT.
1978	1.002	1.004	1.002	1.003	1.006	1.006	
1979	1.011	1.010	1.010	1.011	1.010	1.000	
1980	1.005	1.005	1.005	1.003	1.000	1.012	
1981	1.025	1.029	1.053	1.000	1.043	1.013	
1982	1.000	1.000	1.000	1.000	1.000	1.003	
1983	1.012	1.000	1.038	1.009	1.008		
1984	1.000	1.000	1.000	1.000			
1985	1.000	1.000	1.000				
1986	1.000	1.000					
1987	1.013						
1988							
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2017							
10-YR AVERAGE	1.007						
3 YR AVG.	1.004	1.000	1.013	1.003	1.017	1.009	
10-YR AVERAGE EXCL HI LO	1.005						
5 YR AVG X HI LO	1.004	1.000	1.013	1.001	1.006	1.007	
PRIOR SELECTED (9/30/2017)	1.001	1.001	1.001	1.001	1.001	1.001	
FACTORS FROM TAIL FACTOR STUDY	1.002	1.002	1.002	1.002	1.002	1.002	1.000
SELECTED	1.001	1.001	1.001	1.001	1.001	1.001	
CUMULATIVE	1.016	1.015	1.014	1.013	1.012	1.011	1.010

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1993 and Prior												10,024
1994											559	559
1995										486	486	486
1996									429	429	429	429
1997								344	344	344	344	344
1998							317	317	317	317	317	317
1999						249	249	249	249	249	249	249
2000					169	169	169	169	169	169	169	169
2001				209	209	209	209	209	209	209	209	209
2002			205	205	205	205	205	205	205	205	205	205
2003		267	267	267	267	267	267	267	267	267	267	267
2004	189	192	192	192	192	192	192	193	193	193	193	193
2005	196	208	208	208	208	208	208	208	208	208	208	208
2006	140	147	149	155	155	155	155	155	155	155	155	155
2007	154	159	169	170	170	170	171	171	171	171	171	173
2008	149	169	169	169	171	171	171	171	171	171	171	172
2009	210	214	214	214	214	214	214	214	214	216		
2010	227	234	235	235	235	235	235	235	235			
2011	220	227	227	227	227	227	227	229				
2012	236	237	237	237	238	238	238					
2013	189	195	195	196	196	199						
2014	174	174	175	175	176							
2015	146	148	148	148								
2016	152	158	158									
2017	121	128										
2018	70											

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	24	36	48	60	72	84	96	108	120	132	144	156
1993 and Prior												1.000
1994											1.000	1.000
1995										1.000	1.000	1.000
1996									1.000	1.000	1.000	1.000
1997								1.000	1.000	1.000	1.000	1.000
1998							1.000	1.000	1.000	1.000	1.000	1.000
1999						1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004	1.016	1.000	1.000	1.000	1.000	1.000	1.005	1.000	1.000	1.000	1.000	1.000
2005	1.061	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.050	1.014	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.032	1.063	1.006	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.012	
2008	1.134	1.000	1.000	1.012	1.000	1.000	1.000	1.000	1.000	1.006		
2009	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.009			
2010	1.031	1.004	1.000	1.000	1.000	1.000	1.000	1.000				
2011	1.032	1.000	1.000	1.000	1.000	1.000	1.009					
2012	1.004	1.000	1.000	1.004	1.000	1.000						
2013	1.032	1.000	1.005	1.000	1.015							
2014	1.000	1.006	1.000	1.006								
2015	1.014	1.000	1.000									
2016	1.039	1.000										
2017	1.058											
AVERAGE	1.037	1.006	1.004	1.002	1.001	1.000	1.001	1.000	1.001	1.000	1.001	1.000
3 YR AVG.	1.037	1.002	1.002	1.003	1.005	1.000	1.003	1.000	1.003	1.002	1.004	1.000
EXCL HI LO	1.032	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.028	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.032	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.032	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.038	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS													
	156	168	180	192	204	216	228	240	252	264	276	288	300	312
1993 and Prior	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,521
1994	559	559	559	559	559	559	559	559	559	559	559	559	559	559
1995	486	486	486	486	486	487	487	487	487	487	487	487	487	487
1996	429	429	429	429	429	429	429	429	429	429	429	429	429	429
1997	344	344	344	344	344	344	344	344	344	344	349			
1998	317	317	317	317	317	317	317	317	321					
1999	249	249	249	249	249	249	249	250						
2000	169	169	169	169	169	169	172							
2001	209	209	209	209	209	212								
2002	205	205	205	205	205									
2003	267	267	267	270										
2004	193	193	193											
2005	208	215												
2006	155													
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	312	ULT.
1993 and Prior	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.050	
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1995	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.015					
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.013						
1999	1.000	1.000	1.000	1.000	1.000	1.000	1.004							
2000	1.000	1.000	1.000	1.000	1.000	1.018								
2001	1.000	1.000	1.000	1.000	1.014									
2002	1.000	1.000	1.000	1.000										
2003	1.000	1.000	1.011											
2004	1.000	1.000												
2005	1.034													
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
AVERAGE	1.003	1.000	1.001	1.000	1.002	1.002	1.001	1.002	1.003	1.000	1.000	1.000	1.050	
3 YR AVG.	1.011	1.000	1.004	1.000	1.005	1.006	1.001	1.004	1.005	1.000	1.000			
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1					
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	193	1.000	193	\$1,078	\$148,054	1.3	\$5,587
2005	215	1.000	215	861	137,486	1.6	4,006
2006	155	1.000	155	695	161,143	1.0	4,487
2007	173	1.000	173	891	170,460	1.0	5,152
2008	172	1.000	172	977	184,267	0.9	5,681
2009	216	1.000	216	1,516	170,772	1.3	7,017
2010	235	1.000	235	495	167,276	1.4	2,107
2011	229	1.000	229	418	173,778	1.3	1,824
2012	238	1.000	238	1,414	172,037	1.4	5,942
2013	199	1.000	199	1,081	181,197	1.1	5,430
2014	176	1.000	176	1,886	190,785	0.9	10,715
2015	148	1.000	148	1,215	181,533	0.8	8,204
2016	158	1.002	158	1,729	191,761	0.8	10,915
2017	128	1.006	129	1,632	194,920	0.7	12,678
2018	70	1.038	73	1,530	193,625	0.4	21,060
TOTAL	2,705		2,709	\$17,419			

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit VI, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$4,797
2. Loss payments during 2018 for accident years 2017 and prior	(\$941)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$265)
4. Estimated ultimate losses for accident year 2018	\$1,530
5. Loss payments during 2018 for accident year 2018	(\$410)
6. Estimated net undiscounted reserves at 9/30/2018	\$4,712

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI, Page 7C, Column (3).
- (3) - Total from Exhibit VI, Page 7B, Column (3).
- (4) - See Exhibit VI, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$30,347	\$30,229	(\$118)
1995	1,932	1,927	(4)
1996	1,793	1,787	(6)
1997	1,408	1,417	8
1998	1,191	1,191	0
1999	649	649	0
2000	672	673	0
2001	772	776	4
2002	2,068	2,068	0
2003	1,648	1,673	25
2004	1,079	1,078	(1)
2005	864	861	(2)
2006	697	695	(2)
2007	896	891	(4)
2008	973	977	4
2009	1,524	1,516	(8)
2010	495	495	0
2011	417	418	1
2012	1,332	1,414	83
2013	1,085	1,081	(4)
2014	1,884	1,886	2
2015	1,243	1,215	(28)
2016	1,888	1,729	(159)
2017	1,687	1,632	(54)
TOTAL	\$58,545	\$58,280	(\$265)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI, Page 1, Column (5).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$29,889	\$29,991	\$102
1995	1,858	1,862	4
1996	1,700	1,701	0
1997	1,408	1,417	8
1998	1,191	1,191	0
1999	649	649	0
2000	672	673	0
2001	772	776	4
2002	2,068	2,068	0
2003	1,522	1,546	24
2004	872	879	7
2005	787	788	2
2006	565	570	4
2007	696	698	2
2008	775	800	25
2009	1,360	1,361	2
2010	495	495	0
2011	417	418	1
2012	1,126	1,214	88
2013	828	836	8
2014	1,444	1,525	81
2015	894	905	11
2016	1,225	1,355	131
2017	536	972	436
TOTAL	\$53,747	\$54,688	\$941

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI, Page 1, Column (6).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018 (1)	CASE RESERVES @9/30/2018 (2)	INCURRED LOSSES @9/30/2018 (3)	SELECTED ULTIMATE LOSSES (4)	LOSS RESERVES @9/30/2018 (5)
1978 and Prior	\$364	\$0	\$364	\$364	\$0
1979	176	0	176	176	0
1980	91	0	91	91	0
1981	349	0	349	349	0
1982	588	0	588	588	0
1983	914	132	1,046	1,018	105
1984	526	0	526	526	0
1985	770	0	770	770	0
1986	466	0	466	466	0
1987	501	16	517	532	32
1988	2,160	0	2,160	2,160	0
1989	1,092	40	1,131	1,126	34
1990	410	0	410	410	0
1991	1,796	0	1,796	1,796	0
1992	2,185	0	2,185	2,185	0
1993	555	0	555	555	0
1994	510	3	514	528	18
1995	537	59	596	602	66
1996	453	80	533	539	86
1997	984	0	984	984	0
1998	776	0	776	776	0
1999	300	0	300	300	0
2000	394	0	394	394	0
2001	158	0	158	158	0
2002	1,737	0	1,737	1,737	0
2003	1,177	93	1,270	1,304	127
2004	455	210	665	654	200
2005	349	31	380	422	73
2006	445	117	562	571	126
2007	388	18	406	406	18
2008	298	4	302	302	5
2009	789	0	789	789	0
2010	147	0	147	147	0
2011	119	0	119	119	0
2012	532	37	569	648	116
2013	498	52	550	577	79
2014	1,098	219	1,317	1,459	361
2015	614	83	697	761	147
2016	544	6	550	582	38
2017	688	247	935	1,256	568
2018	236	132	368	697	461
TOTAL	\$27,167	\$1,580	\$28,747	\$29,827	\$2,659

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VI, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1993 and Prior	\$13,113	**various	N/A	N/A
1994	528	1,000	61,766	0.0086
1995	602	1,000	63,095	0.0095
1996	539	1,000	67,224	0.0080
1997	984	1,000	69,156	0.0142
1998	776	1,000	74,665	0.0104
1999	300	1,000	79,194	0.0038
2000	394	1,000	69,876	0.0056
2001	158	1,000	78,920	0.0020
2002	1,737	1,000	84,291	0.0206
2003	1,304	1,200	87,189	0.0150
2004	654	1,200	95,138	0.0069
2005	422	1,200	80,545	0.0052
2006	571	1,200	100,553	0.0057
2007	406	1,200	106,527	0.0038
2008	302	1,200	117,539	0.0026
2009	789	1,200	107,365	0.0074
2010	147	1,200	106,026	0.0014
2011	119	1,200	115,431	0.0010
2012	648	1,200	111,318	0.0058
2013	577	1,200	115,771	0.0050
2014	1,459	1,250	122,387	0.0119
2015	761	1,250	117,037	0.0065
2016	582	1,250	122,973	0.0047
2017	1,256	1,250	124,989	0.0100
2018	697	1,250	121,146	0.0058
(PROJ.) 2018/2019	\$912	\$1,250	\$123,569	0.0074
(PROJ.) 2019/2020	949	1,250	126,040	0.0075
(PROJ.) 2020/2021	988	1,250	128,561	0.0077
(PROJ.) 2021/2022	1,028	1,250	131,132	0.0078
(PROJ.) 2022/2023	1,069	1,250	133,755	0.0080
(PROJ.) 2023/2024	1,112	1,250	136,430	0.0082
(PROJ.) 2024/2025	1,157	1,250	139,159	0.0083
(PROJ.) 2025/2026	1,204	1,250	141,942	0.0085
(PROJ.) 2026/2027	1,253	1,250	144,781	0.0087
(PROJ.) 2027/2028	1,303	1,250	147,676	0.0088

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$912	\$1,012	\$1,045	\$1,083	\$1,124	\$1,185
2019/2020	949	1,053	1,088	1,127	1,170	1,233
2020/2021	988	1,096	1,132	1,174	1,218	1,284
2021/2022	1,028	1,141	1,178	1,221	1,267	1,336
2022/2023	1,069	1,186	1,225	1,270	1,318	1,389
2023/2024	1,112	1,234	1,274	1,321	1,370	1,445

Notes:

- (1) - Exhibit VI-A, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years adjusted for changed in retention.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Claim Period	Retention Limit
10/01/77 - 09/30/80	500
10/01/80 - 09/30/82	1000
10/01/82 - 10/31/86	250
11/01/86 - 09/30/91	1000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	29.7%	58.7%	75.2%	80.4%	82.5%	84.1%	85.2%	86.3%	87.4%	88.3%	89.1%
INCREMENTAL LOSS PAYOUT PATTERN	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		41.3%	23.5%	7.4%	2.9%	2.3%	1.5%	1.6%	1.6%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$13,113	\$171	\$10	\$7	\$11	\$8	\$8	\$8	\$0	\$0	\$0	\$0	\$119
1994	528	18	2	1	1	1	1	1	1	0	0	0	12
1995	602	66	13	5	3	2	3	2	2	2	0	0	34
1996	539	86	14	14	5	3	2	3	2	2	2	0	37
1997	984	0	0	0	0	0	0	0	0	0	0	0	0
1998	776	0	0	0	0	0	0	0	0	0	0	0	0
1999	300	0	0	0	0	0	0	0	0	0	0	0	0
2000	394	0	0	0	0	0	0	0	0	0	0	0	0
2001	158	0	0	0	0	0	0	0	0	0	0	0	0
2002	1,737	0	0	0	0	0	0	0	0	0	0	0	0
2003	1,304	127	9	10	9	9	10	10	10	10	10	4	37
2004	654	200	13	14	14	13	13	14	14	15	14	15	59
2005	422	73	5	5	5	5	5	4	5	5	5	5	25
2006	571	126	9	8	7	8	8	7	7	8	8	8	48
2007	406	18	1	1	1	1	1	1	1	1	1	1	7
2008	302	5	0	0	0	0	0	0	0	0	0	0	2
2009	789	0	0	0	0	0	0	0	0	0	0	0	0
2010	147	0	0	0	0	0	0	0	0	0	0	0	0
2011	119	0	0	0	0	0	0	0	0	0	0	0	0
2012	648	116	9	9	7	7	7	6	5	4	4	4	54
2013	577	79	5	5	6	4	4	4	4	3	3	3	37
2014	1,459	361	33	22	23	23	18	18	18	16	14	12	165
2015	761	147	16	12	8	8	8	7	7	7	6	5	64
2016	582	38	8	3	2	2	2	2	1	1	1	1	14
2017	1,256	568	227	72	28	22	15	15	15	12	12	12	137
2018	697	461	190	108	34	14	10	7	7	7	6	6	71
2019	912		271	265	150	48	19	14	10	10	10	8	107
2020	949			282	275	157	50	20	15	10	10	11	120
2021	988				294	287	163	52	20	16	11	11	136
2022	1,028					305	298	170	54	21	16	11	152
2023	1,069						318	310	176	56	22	17	170
2024	1,112							330	323	183	58	23	195
2025	1,157								344	336	191	60	226
2026	1,204									358	349	199	299
2027	1,253										372	363	517
2028	1,303											387	916
TOTAL	\$40,802	\$2,659	\$835	\$842	\$884	\$926	\$962	\$1,006	\$1,043	\$1,084	\$1,127	\$1,166	\$3,760

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$3,011
2. Loss payments during 2018 for accident years 2017 and prior	(\$499)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$314)
4. Estimated ultimate losses for accident year 2018	\$697
5. Loss payments during 2018 for the accident year 2018	(\$236)
6. Estimated net undiscounted reserves at 9/30/2018	\$2,659

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI-A, Page 3C, Column (3).
- (3) - Total from Exhibit VI-A, Page 3B, Column (3).
- (4) - See Exhibit VI-A, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$13,739	\$13,641	(\$98)
1995	607	602	(4)
1996	544	539	(6)
1997	984	984	0
1998	776	776	0
1999	300	300	0
2000	394	394	0
2001	158	158	0
2002	1,737	1,737	0
2003	1,279	1,304	24
2004	655	654	(1)
2005	426	422	(4)
2006	573	571	(2)
2007	406	406	(0)
2008	303	302	(0)
2009	789	789	0
2010	147	147	0
2011	119	119	0
2012	569	648	79
2013	581	577	(4)
2014	1,462	1,459	(2)
2015	771	761	(10)
2016	824	582	(242)
2017	1,299	1,256	(43)
TOTAL	\$29,443	\$29,129	(\$314)

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-A, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND MARCH 31, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$13,399	\$13,453	\$53
1995	533	537	4
1996	452	453	0
1997	984	984	0
1998	776	776	0
1999	300	300	0
2000	394	394	0
2001	158	158	0
2002	1,737	1,737	0
2003	1,153	1,177	24
2004	448	455	7
2005	349	349	0
2006	440	445	4
2007	386	388	2
2008	295	298	3
2009	789	789	0
2010	147	147	0
2011	119	119	0
2012	492	532	40
2013	491	498	7
2014	1,022	1,098	77
2015	605	614	9
2016	577	544	(34)
2017	385	688	302
TOTAL	\$26,432	\$26,931	\$499

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-A, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018 (1)	CASE RESERVES @9/30/2018 (2)	INCURRED LOSSES @9/30/2018 (3)	SELECTED ULTIMATE LOSSES (4)	LOSS RESERVES @9/30/2018 (5)
1978 and Prior	\$163	\$0	\$163	\$163	\$0
1979	432	0	432	432	0
1980	384	0	384	384	0
1981	2,544	0	2,544	2,544	0
1982	54	0	54	54	0
1983	383	0	383	383	0
1984	486	0	486	486	0
1985	340	0	340	340	0
1986	505	0	505	505	0
1987	373	0	373	373	0
1988	201	0	201	201	0
1989	412	30	441	437	25
1990	2,109	0	2,109	2,109	0
1991	432	0	432	432	0
1992	436	0	436	436	0
1993	791	0	791	791	0
1994	894	0	894	894	0
1995	1,234	0	1,234	1,234	0
1996	151	0	151	151	0
1997	278	0	278	278	0
1998	42	0	42	42	0
1999	60	0	60	60	0
2000	46	0	46	46	0
2001	309	0	309	309	0
2002	45	0	45	45	0
2003	223	0	223	223	0
2004	195	0	195	195	0
2005	213	0	213	213	0
2006	7	0	7	7	0
2007	91	175	266	267	176
2008	375	151	526	548	173
2009	58	0	58	58	0
2010	268	0	268	268	0
2011	38	0	38	38	0
2012	28	0	28	28	0
2013	167	109	276	332	165
2014	48	0	48	48	0
2015	59	0	59	59	0
2016	127	0	127	127	0
2017	151	7	158	167	16
2018	21	1	23	26	5
TOTAL	\$15,172	\$473	\$15,645	\$15,733	\$560

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VI, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(SAMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1978 and Prior	\$10,070	**various	N/A	N/A
1994	894	1,000	N/A	N/A
1995	1,234	1,000	N/A	N/A
1996	151	1,000	22,225	0.0068
1997	278	1,000	22,892	0.0121
1998	42	1,000	23,579	0.0018
1999	60	1,000	25,266	0.0024
2000	46	1,000	22,786	0.0020
2001	309	1,000	21,663	0.0143
2002	45	1,000	23,137	0.0019
2003	223	1,200	23,933	0.0093
2004	195	1,200	26,115	0.0075
2005	213	1,200	27,733	0.0077
2006	7	1,200	31,025	0.0002
2007	267	1,200	32,868	0.0081
2008	548	1,200	36,266	0.0151
2009	58	1,200	33,116	0.0017
2010	268	1,200	32,703	0.0082
2011	38	1,200	26,096	0.0014
2012	28	1,200	28,608	0.0010
2013	332	1,200	32,698	0.0102
2014	48	1,250	34,218	0.0014
2015	59	1,250	30,345	0.0019
2016	127	1,250	31,884	0.0040
2017	167	1,250	31,826	0.0052
2018	26	1,250	34,676	0.0008
(PROJ.) 2018/2019	\$140	1,250	35,369	0.0039
(PROJ.) 2019/2020	145	1,250	36,077	0.0040
(PROJ.) 2020/2021	151	1,250	36,798	0.0041
(PROJ.) 2021/2022	157	1,250	37,534	0.0042
(PROJ.) 2022/2023	163	1,250	38,285	0.0043
(PROJ.) 2023/2024	170	1,250	39,051	0.0044

SECTION 2- FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$140	\$155	\$160	\$166	\$173	\$182
2019/2020	145	161	166	172	179	188
2020/2021	151	168	173	179	186	196
2021/2022	157	174	180	187	193	204
2022/2023	163	181	187	194	201	212
2023/2024	170	189	195	202	210	221

Notes:

- (1) - Exhibit VI-B, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years adjusted for changed in retention.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Claim Period	Retention Limit
10/01/77 - 09/30/80	500
10/01/80 - 09/30/82	1000
10/01/82 - 10/31/86	250
11/01/86 - 09/30/91	1000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	29.7%	58.7%	75.2%	80.4%	82.5%	84.1%	85.2%	86.3%	87.4%	88.3%	89.1%
INCREMENTAL LOSS PAYOUT PATTERN	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		41.3%	23.5%	7.4%	2.9%	2.3%	1.5%	1.6%	1.6%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT
1993 and Prior	\$10,070	\$25	\$1	\$1	\$2	\$1	\$1	\$0	\$0	\$0	\$0	\$0	\$19
1994	894	0	0	0	0	0	0	0	0	0	0	0	0
1995	1,234	0	0	0	0	0	0	0	0	0	0	0	0
1996	151	0	0	0	0	0	0	0	0	0	0	0	0
1997	278	0	0	0	0	0	0	0	0	0	0	0	0
1998	42	0	0	0	0	0	0	0	0	0	0	0	0
1999	60	0	0	0	0	0	0	0	0	0	0	0	0
2000	46	0	0	0	0	0	0	0	0	0	0	0	0
2001	309	0	0	0	0	0	0	0	0	0	0	0	0
2002	45	0	0	0	0	0	0	0	0	0	0	0	0
2003	223	0	0	0	0	0	0	0	0	0	0	0	0
2004	195	0	0	0	0	0	0	0	0	0	0	0	0
2005	213	0	0	0	0	0	0	0	0	0	0	0	0
2006	7	0	0	0	0	0	0	0	0	0	0	0	0
2007	267	176	13	12	10	9	10	10	9	9	10	10	73
2008	548	173	14	12	11	9	8	9	8	8	9	9	75
2009	58	0	0	0	0	0	0	0	0	0	0	0	0
2010	268	0	0	0	0	0	0	0	0	0	0	0	0
2011	38	0	0	0	0	0	0	0	0	0	0	0	0
2012	28	0	0	0	0	0	0	0	0	0	0	0	0
2013	332	165	11	11	12	9	9	9	8	7	6	6	77
2014	48	0	0	0	0	0	0	0	0	0	0	0	0
2015	59	0	0	0	0	0	0	0	0	0	0	0	0
2016	127	0	0	0	0	0	0	0	0	0	0	0	0
2017	167	16	6	2	1	1	0	0	0	0	0	0	4
2018	26	5	2	1	0	0	0	0	0	0	0	0	1
2019	140		42	41	23	7	3	2	2	2	2	1	16
2020	145			43	42	24	8	3	2	2	2	2	18
2021	151				45	44	25	8	3	2	2	2	21
2022	157					47	46	26	8	3	2	2	23
2023	163						48	47	27	9	3	3	26
2024	170							51	49	28	9	4	30
2025	177								53	51	29	9	35
2026	184									55	53	30	46
2027	192										57	56	79
2028	199											59	140
TOTAL	\$17,411	\$560	\$90	\$123	\$145	\$151	\$158	\$165	\$171	\$177	\$184	\$192	\$682

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$736
2. Loss payments during 2018 for accident years 2017 and prior	(\$177)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$3)
4. Estimated ultimate losses for accident year 2018	\$26
5. Loss payments during 2018 for accident year 2018	(\$21)
6. Estimated net undiscounted reserves at 9/30/2018	\$560

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI-B, Page 3C, Column (3).
- (3) - Total from Exhibit VI-B, Page 3B, Column (3).
- (4) - See Exhibit VI-B, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)**

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$10,987	\$10,964	(\$23)
1995	1,234	1,234	0
1996	151	151	0
1997	278	278	0
1998	42	42	0
1999	60	60	0
2000	46	46	0
2001	309	309	0
2002	45	45	0
2003	223	223	0
2004	195	195	0
2005	213	213	0
2006	7	7	0
2007	271	267	(4)
2008	547	548	1
2009	58	58	0
2010	268	268	0
2011	38	38	0
2012	28	28	0
2013	333	332	(1)
2014	48	48	0
2015	59	59	0
2016	119	127	8
2017	152	167	15
TOTAL	\$15,710	\$15,706	(\$3)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-B, Page 1 of 3, Column (4).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)**

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$10,898	\$10,939	\$41
1995	1,234	1,234	0
1996	151	151	0
1997	278	278	0
1998	42	42	0
1999	60	60	0
2000	46	46	0
2001	309	309	0
2002	45	45	0
2003	223	223	0
2004	195	195	0
2005	213	213	0
2006	7	7	0
2007	91	91	0
2008	356	375	19
2009	58	58	0
2010	268	268	0
2011	38	38	0
2012	28	28	0
2013	167	167	0
2014	48	48	0
2015	59	59	0
2016	87	127	41
2017	74	151	77
TOTAL	\$14,974	\$15,151	\$177

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-B, Page 1 of 3, Column (1).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1978 and Prior	\$0	\$0	\$0	\$0	\$0
1979	0	0	0	0	0
1980	38	0	38	38	0
1981	1	0	1	1	0
1982	92	0	92	92	0
1983	54	0	54	54	0
1984	44	0	44	44	0
1985	78	0	78	78	0
1986	12	0	12	12	0
1987	16	0	16	16	0
1988	47	0	47	47	0
1989	10	0	10	10	0
1990	35	0	35	35	0
1991	18	0	18	18	0
1992	21	0	21	21	0
1993	221	0	221	221	0
1994	18	0	18	18	0
1995	9	0	9	9	0
1996	1,078	0	1,078	1,078	0
1997	98	0	98	98	0
1998	94	0	94	94	0
1999	49	0	49	49	0
2000	22	0	22	22	0
2001	133	0	133	133	0
2002	139	0	139	139	0
2003	67	0	67	67	0
2004	71	0	71	71	0
2005	186	0	186	186	0
2006	64	0	64	64	0
2007	124	0	124	124	0
2008	89	0	89	89	0
2009	200	51	251	354	155
2010	62	0	62	62	0
2011	114	0	114	114	0
2012	277	0	277	277	0
2013	64	0	64	64	0
2014	109	0	109	109	0
2015	70	0	70	70	0
2016	324	39	363	553	229
2017	55	12	66	81	27
2018	78	32	110	190	112
TOTAL	\$4,281	\$133	\$4,414	\$4,803	\$522

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VI, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1993 and Prior	\$688	**various	N/A	N/A
1994	18	1,000	N/A	N/A
1995	9	1,000	N/A	N/A
1996	1,078	1,000	3,624	0.2976
1997	98	1,000	5,611	0.0175
1998	94	1,000	6,343	0.0148
1999	49	1,000	6,751	0.0072
2000	22	1,000	7,034	0.0031
2001	133	1,000	7,237	0.0183
2002	139	1,000	7,572	0.0184
2003	67	1,200	7,835	0.0085
2004	71	1,200	8,107	0.0087
2005	186	1,200	8,247	0.0225
2006	64	1,200	8,302	0.0078
2007	124	1,200	8,252	0.0150
2008	89	1,200	7,731	0.0115
2009	354	1,200	8,487	0.0418
2010	62	1,200	8,251	0.0075
2011	114	1,200	8,137	0.0140
2012	277	1,200	8,312	0.0333
2013	64	1,200	8,250	0.0078
2014	109	1,250	7,705	0.0141
2015	70	1,250	7,386	0.0094
2016	553	1,250	7,202	0.0768
2017	81	1,250	6,809	0.0120
2018	190	1,250	6,744	0.0282
(PROJ.) 2018/2019	\$171	\$1,250	\$6,879	0.0249
(PROJ.) 2019/2020	178	1,250	7,017	0.0254
(PROJ.) 2020/2021	185	1,250	7,157	0.0259
(PROJ.) 2021/2022	193	1,250	7,300	0.0264
(PROJ.) 2022/2023	201	1,250	7,446	0.0270
(PROJ.) 2023/2024	209	1,250	7,595	0.0275

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	50% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$171	\$190	\$196	\$203	\$211	\$222
2019/2020	178	197	204	211	219	231
2020/2021	185	205	212	220	228	240
2021/2022	193	214	221	229	238	251
2022/2023	201	223	230	239	248	261
2023/2024	209	232	240	248	258	272

Notes:

- (1) - Exhibit VI-C, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years adjusted for changed in retention.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Claim Period	Retention Limit
10/01/77 - 09/30/80	500
10/01/80 - 09/30/82	1000
10/01/82 - 10/31/86	250
11/01/86 - 09/30/91	1000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	29.7%	58.7%	75.2%	80.4%	82.5%	84.1%	85.2%	86.3%	87.4%	88.3%	89.1%
INCREMENTAL LOSS PAYOUT PATTERN	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		41.3%	23.5%	7.4%	2.9%	2.3%	1.5%	1.6%	1.6%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$688	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	18	0	0	0	0	0	0	0	0	0	0	0	0
1995	9	0	0	0	0	0	0	0	0	0	0	0	0
1996	1,078	0	0	0	0	0	0	0	0	0	0	0	0
1997	98	0	0	0	0	0	0	0	0	0	0	0	0
1998	94	0	0	0	0	0	0	0	0	0	0	0	0
1999	49	0	0	0	0	0	0	0	0	0	0	0	0
2000	22	0	0	0	0	0	0	0	0	0	0	0	0
2001	133	0	0	0	0	0	0	0	0	0	0	0	0
2002	139	0	0	0	0	0	0	0	0	0	0	0	0
2003	67	0	0	0	0	0	0	0	0	0	0	0	0
2004	71	0	0	0	0	0	0	0	0	0	0	0	0
2005	186	0	0	0	0	0	0	0	0	0	0	0	0
2006	64	0	0	0	0	0	0	0	0	0	0	0	0
2007	124	0	0	0	0	0	0	0	0	0	0	0	0
2008	89	0	0	0	0	0	0	0	0	0	0	0	0
2009	354	155	11	12	10	9	7	7	7	7	7	7	69
2010	62	0	0	0	0	0	0	0	0	0	0	0	0
2011	114	0	0	0	0	0	0	0	0	0	0	0	0
2012	277	0	0	0	0	0	0	0	0	0	0	0	0
2013	64	0	0	0	0	0	0	0	0	0	0	0	0
2014	109	0	0	0	0	0	0	0	0	0	0	0	0
2015	70	0	0	0	0	0	0	0	0	0	0	0	0
2016	553	229	48	19	15	10	10	10	8	8	8	7	85
2017	81	27	11	3	1	1	1	1	1	1	1	1	6
2018	190	112	46	26	8	3	3	2	2	2	1	1	17
2019	171		51	50	28	9	4	3	2	2	2	1	20
2020	178			53	52	29	9	4	3	2	2	2	22
2021	185				55	54	31	10	4	3	2	2	25
2022	193					57	56	32	10	4	3	2	29
2023	201						60	58	33	11	4	3	32
2024	209							62	61	34	11	4	37
2025	217								64	63	36	11	42
2026	226									67	66	37	56
2027	235										70	68	97
2028	245											73	172
TOTAL	\$6,863	\$522	\$167	\$163	\$169	\$172	\$180	\$188	\$195	\$204	\$212	\$221	\$711

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$604
2. Loss payments during 2018 for accident years 2017 and prior	(\$162)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$32)
4. Estimated ultimate losses for accident year 2018	\$190
5. Loss payments during 2018 for accident year 2018	(\$78)
6. Estimated net undiscounted reserves at 9/30/2018	\$522

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI-C, Page 3C, Column (3).
- (3) - Total from Exhibit VI-C, Page 3B, Column (3).
- (4) - See Exhibit VI-C, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$706	\$706	\$0
1995	9	9	0
1996	1,078	1,078	0
1997	90	98	8
1998	94	94	0
1999	49	49	0
2000	22	22	0
2001	129	133	4
2002	139	139	0
2003	67	67	0
2004	71	71	0
2005	184	186	2
2006	64	64	0
2007	124	124	0
2008	86	89	3
2009	362	354	(8)
2010	62	62	0
2011	113	114	1
2012	277	277	0
2013	63	64	1
2014	104	109	4
2015	70	70	0
2016	536	553	17
2017	147	81	(65)
TOTAL	\$4,645	\$4,613	(\$32)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-C, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$706	\$706	\$0
1995	9	9	0
1996	1,078	1,078	0
1997	90	98	8
1998	94	94	0
1999	49	49	0
2000	22	22	0
2001	129	133	4
2002	139	139	0
2003	67	67	0
2004	71	71	0
2005	184	186	2
2006	64	64	0
2007	124	124	0
2008	86	89	3
2009	198	200	2
2010	62	62	0
2011	113	114	1
2012	277	277	0
2013	63	64	1
2014	104	109	4
2015	70	70	0
2016	201	324	123
2017	41	55	14
TOTAL	\$4,041	\$4,203	\$162

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-C, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1978 and Prior	\$9	\$0	\$9	\$9	\$0
1979	15	0	15	15	0
1980	285	32	317	309	24
1981	24	0	24	24	0
1982	86	0	86	86	0
1983	696	0	696	696	0
1984	81	0	81	81	0
1985	25	0	25	25	0
1986	118	0	118	118	0
1987	1,017	0	1,017	1,017	0
1988	49	0	49	49	0
1989	19	0	19	19	0
1990	13	0	13	13	0
1991	34	0	34	34	0
1992	39	0	39	39	0
1993	24	0	24	24	0
1994	9	0	9	9	0
1995	25	0	25	25	0
1996	19	0	19	19	0
1997	35	0	35	35	0
1998	26	0	26	26	0
1999	134	0	134	134	0
2000	56	0	56	56	0
2001	6	0	6	6	0
2002	131	0	131	131	0
2003	38	0	38	38	0
2004	3	0	3	3	0
2005	1	0	1	1	0
2006	2	0	2	2	0
2007	33	0	33	33	0
2008	6	0	6	6	0
2009	85	0	85	85	0
2010	6	0	6	6	0
2011	29	0	29	29	0
2012	181	27	208	266	85
2013	1	0	1	1	0
2014	27	0	27	27	0
2015	61	0	61	61	0
2016	113	0	113	113	0
2017	50	20	70	96	46
2018	50	45	96	209	159
TOTAL	\$3,664	\$124	\$3,788	\$3,977	\$313

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VI, Page 1, Column (7), based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1993 and Prior	\$2,559	**various	N/A	N/A
1994	9	\$1,000	\$10,197	0.0009
1995	25	1,000	10,461	0.0024
1996	19	1,000	5,160	0.0038
1997	35	1,000	5,301	0.0066
1998	26	1,000	5,798	0.0045
1999	134	1,000	6,024	0.0223
2000	56	1,000	6,673	0.0084
2001	6	1,000	6,872	0.0009
2002	131	1,000	5,593	0.0234
2003	38	1,200	6,593	0.0057
2004	3	1,200	7,945	0.0003
2005	1	1,200	8,224	0.0001
2006	2	1,200	7,795	0.0003
2007	33	1,200	9,969	0.0033
2008	6	1,200	10,632	0.0006
2009	85	1,200	9,080	0.0093
2010	6	1,200	8,593	0.0007
2011	29	1,200	10,979	0.0026
2012	266	1,200	10,411	0.0255
2013	1	1,200	10,392	0.0001
2014	27	1,250	11,356	0.0024
2015	61	1,250	11,292	0.0054
2016	113	1,250	11,690	0.0096
2017	96	1,250	12,089	0.0080
2018	209	1,250	12,579	0.0166
(PROJ.) 2018/2019	\$91	\$1,250	\$12,831	0.0071
(PROJ.) 2019/2020	94	1,250	13,087	0.0072
(PROJ.) 2020/2021	98	1,250	13,349	0.0074
(PROJ.) 2021/2022	102	1,250	13,616	0.0075
(PROJ.) 2022/2023	106	1,250	13,888	0.0077
(PROJ.) 2023/2024	111	1,250	14,166	0.0078
(PROJ.) 2024/2025	115	1,250	14,449	0.0080
(PROJ.) 2025/2026	120	1,250	14,738	0.0081
(PROJ.) 2026/2027	125	1,250	15,033	0.0083
(PROJ.) 2027/2028	130	1,250	15,334	0.0085

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$91	\$101	\$104	\$108	\$112	\$118
2019/2020	94	104	108	112	116	122
2020/2021	98	109	112	116	121	127
2021/2022	102	113	117	121	126	133
2022/2023	106	118	121	126	131	138
2023/2024	111	123	127	132	137	144

Notes:

- (1) - Exhibit VI-D, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years adjusted for changed in retention.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Claim Period	Retention Limit
10/01/77 - 09/30/80	500
10/01/80 - 09/30/82	1000
10/01/82 - 10/31/86	250
11/01/86 - 09/30/91	1000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	29.7%	58.7%	75.2%	80.4%	82.5%	84.1%	85.2%	86.3%	87.4%	88.3%	89.1%
INCREMENTAL LOSS PAYOUT PATTERN	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		41.3%	23.5%	7.4%	2.9%	2.3%	1.5%	1.6%	1.6%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$2,559	\$24	\$5	\$5	\$5	\$5	\$5	\$0	\$0	\$0	\$0	\$0	\$0
1994	9	0	0	0	0	0	0	0	0	0	0	0	0
1995	25	0	0	0	0	0	0	0	0	0	0	0	0
1996	19	0	0	0	0	0	0	0	0	0	0	0	0
1997	35	0	0	0	0	0	0	0	0	0	0	0	0
1998	26	0	0	0	0	0	0	0	0	0	0	0	0
1999	134	0	0	0	0	0	0	0	0	0	0	0	0
2000	56	0	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0	0
2002	131	0	0	0	0	0	0	0	0	0	0	0	0
2003	38	0	0	0	0	0	0	0	0	0	0	0	0
2004	3	0	0	0	0	0	0	0	0	0	0	0	0
2005	1	0	0	0	0	0	0	0	0	0	0	0	0
2006	2	0	0	0	0	0	0	0	0	0	0	0	0
2007	33	0	0	0	0	0	0	0	0	0	0	0	0
2008	6	0	0	0	0	0	0	0	0	0	0	0	0
2009	85	0	0	0	0	0	0	0	0	0	0	0	0
2010	6	0	0	0	0	0	0	0	0	0	0	0	0
2011	29	0	0	0	0	0	0	0	0	0	0	0	0
2012	266	85	6	6	5	5	5	4	4	3	3	3	39
2013	1	0	0	0	0	0	0	0	0	0	0	0	0
2014	27	0	0	0	0	0	0	0	0	0	0	0	0
2015	61	0	0	0	0	0	0	0	0	0	0	0	0
2016	113	0	0	0	0	0	0	0	0	0	0	0	0
2017	96	46	18	6	2	2	1	1	1	1	1	1	11
2018	209	159	65	37	12	5	4	2	2	3	2	2	25
2019	91		27	26	15	5	2	1	1	1	1	1	11
2020	94			28	27	16	5	2	1	1	1	1	12
2021	98				29	28	16	5	2	2	1	1	13
2022	102					30	30	17	5	2	2	1	15
2023	106						31	31	17	6	2	2	17
2024	111							33	32	18	6	2	19
2025	115								34	33	19	6	22
2026	120									36	35	20	30
2027	125										37	36	52
2028	130											39	91
TOTAL	\$5,069	\$313	\$122	\$109	\$95	\$95	\$99	\$97	\$101	\$105	\$110	\$115	\$358

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$163
2. Loss payments during 2018 for the accident years 2017 and prior	(\$97)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$88
4. Estimated ultimate losses for accident year 2018	\$209
5. Loss payments during 2018 for the accident year 2018	(\$50)
6. Estimated net undiscounted reserves at 9/30/2018	\$313

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI-D, Page 3C, Column (3).
- (3) - Total from Exhibit VI-D, Page 3B, Column (3).
- (4) - See Exhibit VI-D, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$2,565	\$2,568	\$3
1995	25	25	0
1996	19	19	0
1997	35	35	0
1998	26	26	0
1999	134	134	0
2000	56	56	0
2001	6	6	0
2002	131	131	0
2003	38	38	0
2004	3	3	0
2005	1	1	0
2006	2	2	0
2007	33	33	0
2008	6	6	0
2009	85	85	0
2010	6	6	0
2011	29	29	0
2012	262	266	4
2013	1	1	0
2014	27	27	0
2015	61	61	(0)
2016	113	113	0
2017	15	96	81
TOTAL	\$3,680	\$3,768	\$88

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-D, Page 1 of 3, Column (4).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$2,536	\$2,544	\$8
1995	25	25	0
1996	19	19	0
1997	35	35	0
1998	26	26	0
1999	134	134	0
2000	56	56	0
2001	6	6	0
2002	131	131	0
2003	38	38	0
2004	3	3	0
2005	1	1	0
2006	2	2	0
2007	33	33	0
2008	6	6	0
2009	85	85	0
2010	6	6	0
2011	29	29	0
2012	133	181	48
2013	1	1	0
2014	27	27	0
2015	61	61	(0)
2016	113	113	0
2017	10	50	40
TOTAL	\$3,517	\$3,613	\$97

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-D, Page 1 of 3, Column (1).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1978 and Prior	\$0	\$0	\$0	\$0	\$0
1979	56	0	56	56	0
1980	274	0	274	274	0
1981	177	0	177	177	0
1982	0	0	0	0	0
1983	0	0	0	0	0
1984	0	0	0	0	0
1985	302	0	302	302	0
1986	0	0	0	0	0
1987	1,244	0	1,244	1,244	0
1988	147	0	147	147	0
1989	0	0	0	0	0
1990	51	0	51	51	0
1991	33	0	33	33	0
1992	66	0	66	66	0
1993	0	0	0	0	0
1994	0	0	0	0	0
1995	56	0	56	56	0
1996	0	0	0	0	0
1997	22	0	22	22	0
1998	253	0	253	253	0
1999	105	0	105	105	0
2000	154	0	154	154	0
2001	171	0	171	171	0
2002	15	0	15	15	0
2003	41	0	41	41	0
2004	156	0	156	156	0
2005	39	0	39	39	0
2006	51	0	51	51	0
2007	62	0	62	62	0
2008	32	0	32	32	0
2009	229	0	229	229	0
2010	12	0	12	12	0
2011	119	0	119	119	0
2012	195	0	195	195	0
2013	106	0	106	106	0
2014	244	0	244	244	0
2015	101	91	192	264	163
2016	247	18	265	354	107
2017	28	2	30	32	5
2018	24	110	134	407	383
TOTAL	\$4,814	\$221	\$5,035	\$5,471	\$657

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VI, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(SAMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1993 and Prior	\$2,350	various	N/A	N/A
1994	0	1,000	N/A	N/A
1995	56	1,000	N/A	N/A
1996	0	1,000	6,297	0.0000
1997	22	1,000	6,469	0.0034
1998	253	1,000	7,075	0.0358
1999	105	1,000	7,350	0.0144
2000	154	1,000	8,143	0.0189
2001	171	1,000	8,386	0.0203
2002	15	1,000	6,824	0.0022
2003	41	1,200	11,847	0.0035
2004	156	1,200	10,748	0.0145
2005	39	1,200	12,738	0.0031
2006	51	1,200	13,468	0.0038
2007	62	1,200	12,844	0.0048
2008	32	1,200	12,099	0.0026
2009	229	1,200	12,724	0.0180
2010	12	1,200	11,703	0.0010
2011	119	1,200	13,134	0.0091
2012	195	1,200	13,387	0.0146
2013	106	1,200	14,086	0.0075
2014	244	1,250	15,119	0.0161
2015	264	1,250	15,474	0.0170
2016	354	1,250	18,012	0.0196
2017	32	1,250	19,206	0.0017
2018	407	1,250	18,479	0.0220
(PROJ.) 2018/2019	\$331	\$1,250	18,849	0.0175
(PROJ.) 2019/2020	357	1,250	19,226	0.0186
(PROJ.) 2020/2021	372	1,250	19,610	0.0189
(PROJ.) 2021/2022	387	1,250	20,003	0.0193
(PROJ.) 2022/2023	402	1,250	20,403	0.0197
(PROJ.) 2023/2024	418	1,250	20,811	0.0201
(PROJ.) 2024/2025	435	1,250	21,227	0.0205
(PROJ.) 2025/2026	453	1,250	21,651	0.0209
(PROJ.) 2026/2027	471	1,250	22,085	0.0213
(PROJ.) 2027/2028	490	1,250	22,526	0.0218

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$331	\$367	\$379	\$393	\$408	\$430
2019/2020	357	396	409	424	440	464
2020/2021	372	413	426	442	458	483
2021/2022	387	429	444	460	477	503
2022/2023	402	446	461	478	495	522
2023/2024	418	464	479	497	515	543

Notes:

- (1) - Exhibit VI-E, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years adjusted for changed in retention.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.

**Retention for 1993 and Prior

Claim Period	Retention Limit
10/01/77 - 09/30/80	500
10/01/80 - 09/30/82	1000
10/01/82 - 10/31/86	250
11/01/86 - 09/30/91	1000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	29.7%	58.7%	75.2%	80.4%	82.5%	84.1%	85.2%	86.3%	87.4%	88.3%	89.1%
INCREMENTAL LOSS PAYOUT PATTERN	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		41.3%	23.5%	7.4%	2.9%	2.3%	1.5%	1.6%	1.6%	1.2%	1.2%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	29.7%	29.0%	16.5%	5.2%	2.1%	1.6%	1.1%	1.1%	1.1%	0.9%	0.9%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT
1993 and Prior	\$2,350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	56	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	22	0	0	0	0	0	0	0	0	0	0	0	0
1998	253	0	0	0	0	0	0	0	0	0	0	0	0
1999	105	0	0	0	0	0	0	0	0	0	0	0	0
2000	154	0	0	0	0	0	0	0	0	0	0	0	0
2001	171	0	0	0	0	0	0	0	0	0	0	0	0
2002	15	0	0	0	0	0	0	0	0	0	0	0	0
2003	41	0	0	0	0	0	0	0	0	0	0	0	0
2004	156	0	0	0	0	0	0	0	0	0	0	0	0
2005	39	0	0	0	0	0	0	0	0	0	0	0	0
2006	51	0	0	0	0	0	0	0	0	0	0	0	0
2007	62	0	0	0	0	0	0	0	0	0	0	0	0
2008	32	0	0	0	0	0	0	0	0	0	0	0	0
2009	229	0	0	0	0	0	0	0	0	0	0	0	0
2010	12	0	0	0	0	0	0	0	0	0	0	0	0
2011	119	0	0	0	0	0	0	0	0	0	0	0	0
2012	195	0	0	0	0	0	0	0	0	0	0	0	0
2013	106	0	0	0	0	0	0	0	0	0	0	0	0
2014	244	0	0	0	0	0	0	0	0	0	0	0	0
2015	264	163	17	13	9	9	9	7	7	7	6	6	71
2016	354	107	22	9	7	5	5	5	4	4	4	3	40
2017	32	5	2	1	0	0	0	0	0	0	0	0	1
2018	407	383	158	90	29	11	9	6	6	6	5	5	59
2019	331		98	96	55	17	7	5	4	4	4	3	39
2020	357			106	104	59	19	7	6	4	4	4	45
2021	372				111	108	61	19	8	6	4	4	51
2022	387					115	112	64	20	8	6	4	57
2023	402						119	117	66	21	8	6	64
2024	418							124	121	69	22	9	73
2025	435								129	126	72	23	85
2026	453									135	131	75	112
2027	471										140	137	194
2028	490											146	344
TOTAL	\$9,587	\$657	\$298	\$315	\$313	\$324	\$341	\$355	\$371	\$389	\$406	\$424	\$1,237

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$283
2. Loss payments during 2018 for accident years 2017 and prior	(\$6)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$3)
4. Estimated ultimate losses for accident year 2018	\$407
5. Loss payments during 2018 for accident year 2018	(\$24)
6. Estimated net undiscounted reserves at 9/30/2018	\$657

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VI-E, Page 3C, Column (3).
- (3) - Total from Exhibit VI-E, Page 3B, Column (3).
- (4) - See Exhibit VI-E, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$2,350	\$2,350	\$0
1995	56	56	0
1996	0	0	0
1997	22	22	0
1998	253	253	0
1999	105	105	0
2000	154	154	0
2001	171	171	0
2002	15	15	0
2003	41	41	0
2004	156	156	0
2005	39	39	0
2006	51	51	0
2007	62	62	0
2008	32	32	0
2009	229	229	0
2010	12	12	0
2011	119	119	0
2012	195	195	0
2013	106	106	0
2014	244	244	0
2015	282	264	(19)
2016	296	354	57
2017	74	32	(42)
TOTAL	\$5,067	\$5,064	(\$3)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-E, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1994 and Prior	\$2,350	\$2,350	\$0
1995	56	56	0
1996	0	0	0
1997	22	22	0
1998	253	253	0
1999	105	105	0
2000	154	154	0
2001	171	171	0
2002	15	15	0
2003	41	41	0
2004	156	156	0
2005	39	39	0
2006	51	51	0
2007	62	62	0
2008	32	32	0
2009	229	229	0
2010	12	12	0
2011	119	119	0
2012	195	195	0
2013	106	106	0
2014	244	244	0
2015	99	101	2
2016	246	247	1
2017	25	28	3
TOTAL	\$4,784	\$4,790	\$6

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VI-E, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	1,146	1,146	1,146	1,146	1,146	1,146	0
1995	1,211	1,211	1,211	1,211	1,211	1,211	0
1996	980	980	980	980	980	980	0
1997	1,437	1,437	1,437	1,437	1,437	1,437	0
1998	1,990	1,990	1,990	1,990	1,990	1,990	0
1999	1,426	1,426	1,426	1,426	1,426	1,426	0
2000	2,664	2,664	2,664	2,664	2,664	2,664	0
2001	1,762	1,762	1,762	1,762	1,762	1,762	0
2002	1,439	1,439	1,439	1,439	1,439	1,439	0
2003	2,034	2,034	2,034	2,034	2,034	2,034	0
2004	1,745	1,745	1,745	1,745	1,745	1,745	0
2005	3,124	3,123	3,123	3,123	3,123	3,120	3
2006	1,377	1,373	1,381	1,373	1,376	1,356	20
2007	1,471	1,471	1,483	1,483	1,459	1,459	0
2008	3,111	3,111	3,111	3,111	3,067	3,067	0
2009	2,452	2,451	2,467	2,467	2,459	2,403	56
2010	2,583	2,518	2,603	2,541	2,561	2,452	109
2011	6,473	6,274	6,383	6,274	6,351	5,773	578
2012	5,105	5,018	5,046	4,952	5,030	4,803	227
2013	3,950	3,779	3,933	3,779	3,860	3,458	402
2014	3,841	3,646	3,830	3,643	3,740	3,107	632
2015	4,090	4,117	4,079	4,079	4,091	3,190	901
2016	3,769	3,605	3,816	3,822	3,753	2,198	1,555
2017	3,845	4,013	3,944	4,178	3,995	1,710	2,285
2018	3,805	3,805	3,813	3,986	3,852	664	3,188
TOTAL	\$66,830	\$66,141	\$66,846	\$66,648	\$66,554	\$56,597	\$9,957

Notes:

(1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit VII, Pages 2 and 3.

(5) = Selected based on (1), (2), (3) & (4).

(6) - Per CITY OF JACKSONVILLE.

(7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(1)	(2)	(3)	(4)	(5)
1994	1,146	1.000	1,146	321,741	0.004
1995	1,211	1.000	1,211	338,553	0.004
1996	980	1.000	980	351,880	0.003
1997	1,437	1.000	1,437	359,378	0.004
1998	1,990	1.000	1,990	371,134	0.005
1999	1,426	1.000	1,426	389,066	0.004
2000	2,664	1.000	2,664	389,836	0.007
2001	1,762	1.000	1,762	402,964	0.004
2002	1,439	1.000	1,439	429,048	0.003
2003	2,034	1.000	2,034	455,924	0.004
2004	1,745	1.000	1,745	480,618	0.004
2005	3,121	1.001	3,124	509,922	0.006
2006	1,373	1.003	1,377	535,575	0.003
2007	1,459	1.009	1,471	561,917	0.003
2008	3,067	1.014	3,111	588,852	0.005
2009	2,403	1.020	2,452	597,703	0.004
2010	2,518	1.026	2,583	603,199	0.004
2011	6,274	1.032	6,473	617,821	0.010
2012	4,918	1.038	5,105	575,116	0.009
2013	3,779	1.045	3,950	575,116	0.007
2014	3,635	1.057	3,841	572,457	0.007
2015	3,778	1.083	4,090	609,089	0.007
2016	3,310	1.138	3,769	627,415	0.006
2017	3,013	1.276	3,845	634,789	0.006
2018	1,997		3,805	630,771	0.006
TOTAL	\$62,482		\$66,830		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	PAYROLL (IN \$000'S)	ESTIMATED LOSS RATE
	(6)	(7)	(8)	(9)	(10)
1994	1,146	1.000	1,146	321,741	0.004
1995	1,211	1.000	1,211	338,553	0.004
1996	980	1.000	980	351,880	0.003
1997	1,437	1.000	1,437	359,378	0.004
1998	1,990	1.000	1,990	371,134	0.005
1999	1,426	1.000	1,426	389,066	0.004
2000	2,664	1.000	2,664	389,836	0.007
2001	1,762	1.000	1,762	402,964	0.004
2002	1,439	1.000	1,439	429,048	0.003
2003	2,034	1.000	2,034	455,924	0.004
2004	1,745	1.000	1,745	480,618	0.004
2005	3,120	1.001	3,123	509,922	0.006
2006	1,356	1.003	1,373	535,575	0.003
2007	1,459	1.009	1,471	561,917	0.003
2008	3,067	1.014	3,111	588,852	0.005
2009	2,403	1.020	2,451	597,703	0.004
2010	2,452	1.027	2,518	603,199	0.004
2011	5,773	1.035	6,274	617,821	0.010
2012	4,803	1.045	5,018	575,116	0.009
2013	3,458	1.076	3,779	575,116	0.007
2014	3,107	1.173	3,646	572,457	0.006
2015	3,190	1.290	4,117	609,089	0.007
2016	2,198	1.640	3,605	627,415	0.006
2017	1,710	2.347	4,013	634,789	0.006
2018	664		3,805	630,771	0.006
TOTAL	\$56,597		\$66,141		

Notes:

(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.

(2) & (7) - Per City's historical loss patterns.

(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).

For the most recent year, we used the Loss Rate Approach.

(5) = (3) / (4), (10) = (8) / (9). For the most recent year, it is the average of prior years.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$ '000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	INCURRED LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	0.004	321,741		0.0%	0	1,146	1,146
1995	0.004	338,553		0.0%	0	1,211	1,211
1996	0.004	351,880		0.0%	0	980	980
1997	0.004	359,378		0.0%	0	1,437	1,437
1998	0.004	371,134		0.0%	0	1,990	1,990
1999	0.004	389,066		0.0%	0	1,426	1,426
2000	0.004	389,836		0.0%	0	2,664	2,664
2001	0.004	402,964		0.0%	0	1,762	1,762
2002	0.004	429,048		0.0%	0	1,439	1,439
2003	0.005	455,924		0.0%	0	2,034	2,034
2004	0.005	480,618	2,276	0.0%	0	1,745	1,745
2005	0.005	509,922	2,486	0.1%	2	3,121	3,123
2006	0.005	535,575	2,685	0.3%	8	1,373	1,381
2007	0.005	561,917	2,896	0.8%	25	1,459	1,483
2008	0.005	588,852	3,117	1.4%	43	3,067	3,111
2009	0.005	597,703	3,247	2.0%	64	2,403	2,467
2010	0.006	603,199	3,361	2.5%	85	2,518	2,603
2011	0.006	617,821	3,528	3.1%	108	6,274	6,383
2012	0.006	575,116	3,482	3.7%	127	4,918	5,046
2013	0.006	575,116	3,565	4.3%	154	3,779	3,933
2014	0.006	572,457	3,631	5.4%	195	3,635	3,830
2015	0.006	609,089	3,951	7.6%	302	3,778	4,079
2016	0.007	627,415	4,161	12.2%	506	3,310	3,816
2017	0.007	634,789	4,301	21.6%	930	3,013	3,944
2018	0.007	630,771	4,365	41.6%	1,815	1,997	3,813
TOTAL					\$4,364	\$62,482	\$66,846

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PAYROLL (\$ '000s)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	PAID LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1994	0.004	321,741		0.0%	0	1,146	1,146
1995	0.004	338,553		0.0%	0	1,211	1,211
1996	0.004	351,880		0.0%	0	980	980
1997	0.004	359,378		0.0%	0	1,437	1,437
1998	0.004	371,134		0.0%	0	1,990	1,990
1999	0.004	389,066		0.0%	0	1,426	1,426
2000	0.004	389,836		0.0%	0	2,664	2,664
2001	0.004	402,964		0.0%	0	1,762	1,762
2002	0.004	429,048		0.0%	0	1,439	1,439
2003	0.005	455,924		0.0%	0	2,034	2,034
2004	0.005	480,618	2,276	0.0%	0	1,745	1,745
2005	0.005	509,922	2,486	0.1%	2	3,120	3,123
2006	0.005	535,575	2,685	0.3%	8	1,356	1,373
2007	0.005	561,917	2,896	0.8%	25	1,459	1,483
2008	0.005	588,852	3,117	1.4%	44	3,067	3,111
2009	0.005	597,703	3,247	2.0%	64	2,403	2,467
2010	0.006	603,199	3,361	2.6%	88	2,452	2,541
2011	0.006	617,821	3,528	3.4%	119	5,773	6,274
2012	0.006	575,116	3,482	4.3%	149	4,803	4,952
2013	0.006	575,116	3,565	7.1%	253	3,458	3,779
2014	0.006	572,457	3,631	14.8%	536	3,107	3,643
2015	0.006	609,089	3,951	22.5%	889	3,190	4,079
2016	0.007	627,415	4,161	39.0%	1,624	2,198	3,822
2017	0.007	634,789	4,301	57.4%	2,468	1,710	4,178
2018	0.007	630,771	4,365	76.1%	3,321	664	3,986
TOTAL					\$9,591	\$56,597	\$66,648

Notes:

(2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.

(1) & (8) - Exhibit VII, Page 4, Column (8).

(3) = (1) x (2); (10) = (8) x (9).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUETTTER-FERGUSON APPROACHES
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	RETENTION	ADJUSTMENT TO CURRENT RETENTION	PAYROLL (IN \$000'S)	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$2,664	\$2,664	\$100k/\$200k	1.035	389,836	0.71%	0.43%	0.42%
2001	1,762	1,762	\$100k/\$200k	1.035	402,964	0.45%	0.45%	0.43%
2002	1,439	1,439	\$100k/\$200k	1.035	429,048	0.35%	0.46%	0.45%
2003	2,034	2,034	\$100k/\$200k	1.035	455,924	0.46%	0.48%	0.46%
2004	1,745	1,745	\$100k/\$200k	1.035	480,618	0.38%	0.49%	0.47%
2005	3,124	3,123	\$100k/\$200k	1.035	509,922	0.63%	0.50%	0.49%
2006	1,377	1,373	\$100k/\$200k	1.035	535,575	0.27%	0.52%	0.50%
2007	1,471	1,471	\$100k/\$200k	1.035	561,917	0.27%	0.53%	0.52%
2008	3,111	3,111	\$100k/\$200k	1.035	588,852	0.55%	0.55%	0.53%
2009	2,452	2,451	\$100k/\$200k	1.035	597,703	0.42%	0.56%	0.54%
2010	2,583	2,518	\$100k/\$200k	1.035	603,199	0.44%	0.58%	0.56%
2011	6,473	6,274	\$100k/\$200k	1.035	617,821	1.07%	0.59%	0.57%
2012	5,105	5,018	\$200k/\$300k	1.000	575,116	0.88%	0.61%	0.61%
2013	3,950	3,779	\$200k/\$300k	1.000	575,116	0.67%	0.62%	0.62%
2014	3,841	3,646	\$200k/\$300k	1.000	572,457	0.65%	0.63%	0.63%
2015	4,090	4,117	\$200k/\$300k	1.000	609,089	0.67%	0.65%	0.65%
2016	3,769	3,605	\$200k/\$300k	1.000	627,415	0.59%	0.66%	0.66%
2017	3,845	4,013	\$200k/\$300k	1.000	634,789	0.62%	0.68%	0.68%
2018	3,805	3,805	\$200k/\$300k	1.000	630,771	0.60%	0.69%	0.69%
2019				1.000	643,386		0.71%	0.71%

Average	0.56%
Weighted Average	0.57%
Selected	based on fitted

Notes:

- (1) - Per Exhibit VII, Page 2, Column (3).
- (1) - Per Exhibit VII, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1995											1,181	1,181
1996										980	980	980
1997									1,447	1,437	1,437	1,437
1998								1,991	1,985	1,985	1,984	1,992
1999							1,644	1,428	1,426	1,426	1,429	1,426
2000						2,666	2,666	2,644	2,668	2,660	2,660	2,661
2001					1,908	1,806	1,770	1,758	1,760	1,762	1,762	1,893
2002				1,271	1,408	1,473	1,442	1,446	1,449	1,439	1,441	1,441
2003			1,703	1,631	1,676	1,921	1,871	1,839	1,834	1,840	2,042	2,042
2004		1,204	1,654	1,679	1,738	1,598	1,596	1,614	1,604	1,639	1,754	1,745
2005	2,101	2,863	3,175	2,918	2,930	2,867	2,869	2,909	3,101	3,101	3,101	3,101
2006	1,355	1,608	1,582	1,487	1,346	1,388	1,377	1,381	1,381	1,386	1,381	1,381
2007	1,523	1,751	1,472	1,505	1,585	1,452	1,461	1,461	1,461	1,462	1,461	1,461
2008	2,751	3,429	3,387	3,322	2,947	3,028	3,030	3,030	3,017	3,094	3,094	
2009	1,876	2,194	2,693	2,594	2,404	2,385	2,394	2,396	2,409	2,409		
2010	1,960	2,597	2,749	3,004	2,966	2,875	2,763	2,782	2,539			
2011	2,136	2,910	3,111	2,874	6,260	6,235	6,263	6,283				
2012	2,161	2,918	3,165	3,356	3,246	4,767	4,925					
2013	2,081	2,562	3,595	3,789	3,928	3,780						
2014	2,326	3,135	3,182	3,492	3,651							
2015	1,878	2,991	3,434	3,785								
2016	2,219	2,795	3,316									
2017	2,134	3,017										
2018	1,998											

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156
1995											1.000	1.000
1996										1.000	1.000	1.000
1997									0.993	1.000	1.000	1.000
1998								0.997	1.000	0.999	1.004	1.000
1999							0.869	0.999	1.000	1.002	0.998	1.000
2000						1.000	0.992	1.009	0.997	1.000	1.000	1.018
2001					0.947	0.980	0.993	1.001	1.001	1.000	1.074	1.000
2002				1.108	1.046	0.979	1.003	1.002	0.993	1.001	1.000	1.000
2003			0.958	1.028	1.146	0.974	0.983	0.997	1.003	1.110	1.000	1.000
2004		1.374	1.015	1.035	0.919	0.999	1.011	0.994	1.022	1.070	0.995	1.000
2005	1.363	1.109	0.919	1.004	0.978	1.001	1.014	1.066	1.000	1.000	1.000	1.007
2006	1.187	0.984	0.940	0.905	1.031	0.992	1.003	1.000	1.004	0.996	1.000	1.000
2007	1.150	0.841	1.022	1.053	0.916	1.006	1.000	1.000	1.001	0.999	1.000	
2008	1.246	0.988	0.981	0.887	1.027	1.001	1.000	0.996	1.025	1.000		
2009	1.170	1.227	0.963	0.927	0.992	1.004	1.001	1.006	1.000			
2010	1.325	1.059	1.093	0.987	0.969	0.961	1.007	0.913				
2011	1.362	1.069	0.924	2.178	0.996	1.004	1.003					
2012	1.350	1.085	1.061	0.967	1.469	1.033						
2013	1.231	1.403	1.054	1.037	0.962							
2014	1.348	1.015	1.097	1.046								
2015	1.593	1.148	1.102									
2016	1.260	1.186										
2017	1.414											
AVERAGE	1.308	1.114	1.010	1.089	1.031	0.995	0.991	0.998	1.003	1.014	1.005	1.002
3 YR AVG.	1.422	1.116	1.084	1.017	1.142	0.999	1.004	0.972	1.009	0.998	1.000	1.002
EXCL HI LO	1.296	1.113	1.010	1.009	1.001	0.995	1.000	1.000	1.002	1.006	1.000	1.001
5 YR AVG X HI/LO	1.341	1.140	1.071	1.023	0.986	1.003	1.001	0.999	1.002	1.000	1.000	1.000
PRIOR SELECTED	1.342	1.126	1.052	1.023	1.008	1.008	1.007	1.007	1.006	1.006	1.006	1.006
SELECTED	1.342	1.121	1.051	1.025	1.011	1.007	1.006	1.006	1.006	1.006	1.006	1.006
CUMULATIVE	1.712	1.276	1.138	1.083	1.057	1.045	1.038	1.032	1.026	1.020	1.014	1.009

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	156	168	180	192	204	216	228	240	252	264	276	288
1995	1,181	1,181	1,181	1,181	1,182	1,193	1,223	1,223	1,223	1,223	1,223	1,223
1996	980	980	980	980	1,031	1,031	1,031	1,032	1,031	1,031	1,031	1,031
1997	1,437	1,437	1,437	1,438	1,438	1,438	1,438	1,438	1,438	1,438	1,438	1,438
1998	1,992	1,987	2,093	2,093	2,093	2,093	2,099	2,099	2,099			
1999	1,426	1,435	1,435	1,435	1,435	1,435	1,435	1,435	1,435			
2000	2,709	2,708	2,708	2,712	2,712	2,712	2,712					
2001	1,893	1,888	1,888	1,888	1,888	1,888						
2002	1,441	1,441	1,441	1,441	1,441							
2003	2,042	2,042	2,043	2,042								
2004	1,745	1,745	1,745									
2005	3,123	3,123										
2006	1,381											
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
2018												

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	ULT.
1995	1.000	1.000	1.000	1.001	1.009	1.025	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.052	1.000	1.000	1.001	0.999	1.000	1.000		
1997	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000			
1998	0.997	1.053	1.000	1.000	1.000	1.003	1.000	1.000				
1999	1.006	1.000	1.000	1.000	1.000	1.000	1.000					
2000	1.000	1.000	1.001	1.000	1.000	1.000						
2001	0.998	1.000	1.000	1.000	1.000							
2002	1.000	1.000	1.000	1.000								
2003	1.000	1.000	1.000									
2004	1.000	1.000										
2005	1.000											
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
AVERAGE	1.000	1.005	1.000	1.007	1.001	1.005	1.000	1.000	1.000	1.000	1.000	
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000		
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
PRIOR SELECTED	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
SELECTED	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1995											1,181	1,181
1996										980	980	980
1997									1,437	1,437	1,437	1,437
1998								1,984	1,984	1,984	1,984	1,984
1999							1,421	1,423	1,426	1,426	1,426	1,426
2000						2,548	2,607	2,638	2,642	2,660	2,660	2,661
2001					1,758	1,697	1,736	1,755	1,756	1,762	1,762	1,888
2002				1,067	1,237	1,413	1,436	1,439	1,439	1,439	1,441	1,441
2003			804	1,211	1,411	1,722	1,810	1,810	1,832	1,840	2,042	2,042
2004		618	1,086	1,369	1,527	1,567	1,585	1,589	1,589	1,628	1,645	1,745
2005	611	1,424	2,030	2,417	2,616	2,729	2,856	2,859	3,101	3,101	3,101	3,101
2006	579	849	953	1,187	1,227	1,350	1,360	1,364	1,364	1,364	1,364	1,364
2007	455	713	1,030	1,326	1,390	1,445	1,461	1,461	1,461	1,461	1,461	1,461
2008	953	1,486	2,085	2,343	2,559	2,934	2,964	2,987	3,005	3,094	3,094	
2009	816	1,245	1,795	2,041	2,052	2,094	2,302	2,385	2,409	2,409		
2010	692	1,395	1,755	2,161	2,299	2,394	2,471	2,473	2,474			
2011	967	1,654	1,887	2,505	2,855	4,087	5,146	5,782				
2012	886	1,244	1,809	2,449	2,672	4,625	4,810					
2013	738	1,339	2,345	3,199	3,426	3,459						
2014	799	1,788	2,372	2,687	3,124							
2015	967	1,681	2,536	3,198								
2016	929	1,541	2,203									
2017	881	1,713										
2018	665											

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156	
1995												1.000	1.000
1996											1.000	1.000	1.000
1997										1.000	1.000	1.000	1.000
1998									1.000	1.000	1.000	1.000	1.000
1999							1.001	1.002	1.000	1.000	1.000	1.000	1.000
2000						1.023	1.012	1.002	1.007	1.000	1.000	1.000	1.018
2001					0.965	1.023	1.011	1.001	1.003	1.000	1.000	1.072	1.000
2002				1.159	1.142	1.016	1.002	1.000	1.000	1.001	1.000	1.000	1.000
2003			1.506	1.165	1.220	1.051	1.000	1.012	1.004	1.110	1.000	1.000	1.000
2004		1.757	1.261	1.115	1.026	1.011	1.003	1.000	1.024	1.010	1.061	1.000	1.000
2005	2.331	1.426	1.191	1.082	1.043	1.047	1.001	1.085	1.000	1.000	1.000	1.000	1.007
2006	1.466	1.122	1.246	1.034	1.100	1.007	1.003	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.567	1.445	1.287	1.048	1.040	1.011	1.000	1.000	1.000	1.000	1.000	1.000	
2008	1.559	1.403	1.124	1.092	1.147	1.010	1.008	1.006	1.029	1.000			
2009	1.526	1.442	1.137	1.005	1.021	1.100	1.036	1.010	1.000				
2010	2.016	1.258	1.231	1.064	1.041	1.032	1.001	1.000					
2011	1.710	1.141	1.327	1.139	1.432	1.259	1.123						
2012	1.404	1.454	1.354	1.091	1.731	1.040							
2013	1.815	1.751	1.365	1.071	1.010								
2014	2.238	1.327	1.133	1.163									
2015	1.739	1.509	1.261										
2016	1.659	1.430											
2017	1.945												
AVERAGE	1.767	1.420	1.263	1.094	1.148	1.048	1.015	1.009	1.005	1.009	1.010	1.002	
3 YR AVG.	1.781	1.422	1.253	1.108	1.391	1.110	1.053	1.005	1.010	1.000	1.000	1.002	
EXCL HI LO	1.749	1.417	1.254	1.096	1.111	1.033	1.007	1.003	1.003	1.001	1.006	1.001	
5 YR AVG X HI/LO	1.833	1.464	1.314	1.100	1.165	1.057	1.015	1.002	1.000	1.000	1.000	1.000	
PRIOR SELECTED	1.775	1.449	1.276	1.080	1.077	1.027	1.008	1.008	1.007	1.006	1.006	1.006	
SELECTED	1.783	1.431	1.271	1.100	1.090	1.030	1.009	1.008	1.007	1.006	1.006	1.006	
CUMULATIVE	4.183	2.347	1.640	1.290	1.173	1.076	1.045	1.035	1.027	1.020	1.014	1.009	

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	156	168	180	192	204	216	228	240	252	264	276	288
1995	1,181	1,181	1,181	1,181	1,182	1,193	1,223	1,223	1,223	1,223	1,223	1,223
1996	980	980	980	980	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
1997	1,437	1,437	1,437	1,438	1,438	1,438	1,438	1,438	1,438	1,438		
1998	1,984	1,987	2,093	2,093	2,093	2,093	2,099	2,099	2,099			
1999	1,426	1,435	1,435	1,435	1,435	1,435	1,435	1,435				
2000	2,709	2,708	2,712	2,712	2,712	2,712	2,712					
2001	1,888	1,888	1,888	1,888	1,888	1,888						
2002	1,441	1,441	1,441	1,441	1,441							
2003	2,042	2,042	2,042	2,042								
2004	1,745	1,745	1,745									
2005	3,123	3,123										
2006	1,364											
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
2018												

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	ULT.
1995	1.000	1.000	1.000	1.001	1.009	1.025	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.052	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1997	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000			
1998	1.002	1.053	1.000	1.000	1.000	1.003	1.000	1.000				
1999	1.006	1.000	1.000	1.000	1.000	1.000	1.000					
2000	1.000	1.001	1.000	1.000	1.000	1.000						
2001	1.000	1.000	1.000	1.000	1.000							
2002	1.000	1.000	1.000	1.000								
2003	1.000	1.000	1.000									
2004	1.000	1.000										
2005	1.000											
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
AVERAGE	1.001	1.005	1.000	1.007	1.001	1.005	1.000	1.000	1.000	1.000	1.000	
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000			
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
PRIOR SELECTED	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
SELECTED	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1995	1,981	2,108	2,123	2,127	2,128	2,128	2,129	2,129	2,129	1,884	2,129	2,129
1996	1,651	1,761	1,772	1,775	1,777	1,777	1,777	1,777	1,777	1,884	1,778	1,778
1997	1,790	1,914	1,925	1,935	1,939	1,940	1,940	1,884	1,941	1,941	1,941	1,941
1998	1,717	1,832	1,854	1,869	1,875	1,876	1,884	1,877	1,877	1,877	1,877	1,877
1999	1,404	1,551	1,587	1,595	1,598	1,884	1,601	1,601	1,601	1,601	1,601	1,601
2000	1,537	1,672	1,692	1,700	1,884	1,703	1,703	1,704	1,704	1,704	1,704	1,704
2001	1,762	1,890	1,915	1,884	1,931	1,931	1,931	1,931	1,931	1,931	1,931	1,931
2002	1,704	1,832	1,884	1,868	1,872	1,873	1,875	1,875	1,875	1,875	1,875	1,849
2003	1,936	1,884	2,057	2,067	2,073	2,073	2,073	2,073	2,073	2,073	2,056	2,076
2004	1,884	2,080	2,101	2,113	2,115	2,115	2,115	2,115	2,115	2,104	2,128	2,149
2005	1,786	1,873	1,898	1,902	1,902	1,902	1,902	1,902	1,858	1,914	1,955	1,955
2006	1,618	1,717	1,725	1,727	1,728	1,728	1,728	1,714	1,727	1,752	1,752	1,752
2007	1,574	1,646	1,652	1,656	1,656	1,656	1,620	1,661	1,680	1,681	1,681	1,681
2008	2,479	2,521	2,529	2,531	2,531	2,521	2,542	2,558	2,560	2,560	2,560	
2009	1,895	1,919	1,925	1,926	1,914	1,928	1,942	1,944	1,947	1,947		
2010	1,692	1,712	1,717	1,718	1,728	1,741	1,742	1,744	1,744			
2011	1,533	1,552	1,549	1,560	1,571	1,572	1,575	1,575				
2012	1,441	1,535	1,559	1,568	1,576	1,579	1,581					
2013	1,378	1,519	1,531	1,538	1,549	1,552						
2014	1,609	1,630	1,651	1,660	1,667							
2015	1,557	1,676	1,702	1,711								
2016	1,640	1,756	1,775									
2017	1,842	2,057										
2018	1,984											

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156
1995	1.064	1.007	1.002	1.000	1.000	1.000	1.000	1.000	0.885	1.130	1.000	1.000
1996	1.067	1.006	1.002	1.001	1.000	1.000	1.000	1.060	0.944	1.000	1.000	1.000
1997	1.069	1.006	1.005	1.002	1.001	1.000	0.971	1.030	1.000	1.000	1.000	1.000
1998	1.067	1.012	1.008	1.003	1.001	1.004	0.996	1.000	1.000	1.000	1.000	1.000
1999	1.105	1.023	1.005	1.002	1.179	0.850	1.000	1.000	1.000	1.000	1.000	1.000
2000	1.088	1.012	1.005	1.108	0.904	1.000	1.001	1.000	1.000	1.000	1.000	1.000
2001	1.073	1.013	0.984	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.999
2002	1.075	1.028	0.992	1.002	1.001	1.001	1.000	1.000	1.000	1.000	0.986	1.035
2003	0.973	1.092	1.005	1.003	1.000	1.000	1.000	1.000	1.000	0.992	1.010	1.011
2004	1.104	1.010	1.006	1.001	1.000	1.000	1.000	1.000	0.995	1.011	1.010	1.000
2005	1.049	1.013	1.002	1.000	1.000	1.000	1.000	0.977	1.030	1.021	1.000	1.001
2006	1.061	1.005	1.001	1.001	1.000	1.000	0.992	1.008	1.014	1.000	1.000	1.000
2007	1.046	1.004	1.002	1.000	1.000	0.978	1.025	1.011	1.001	1.000	1.000	
2008	1.017	1.003	1.001	1.000	0.996	1.008	1.006	1.001	1.000	1.000		
2009	1.013	1.003	1.001	0.994	1.007	1.007	1.001	1.002	1.000			
2010	1.012	1.003	1.001	1.006	1.008	1.001	1.001	1.000				
2011	1.012	0.998	1.007	1.007	1.001	1.002	1.000					
2012	1.065	1.016	1.006	1.005	1.002	1.001						
2013	1.102	1.008	1.005	1.007	1.002							
2014	1.013	1.013	1.005	1.004								
2015	1.076	1.016	1.005									
2016	1.071	1.011										
2017	1.117											
AVERAGE	1.058	1.014	1.002	1.009	1.005	0.992	1.000	1.006	0.991	1.011	1.000	1.004
3 YR AVG.	1.088	1.013	1.005	1.005	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000
EXCL HI LO	1.059	1.011	1.003	1.004	1.001	1.000	1.000	1.004	0.996	1.003	1.001	1.001
5 YR AVG X HI/LO	1.083	1.013	1.005	1.006	1.004	1.003	1.003	1.004	1.005	1.004	1.003	1.004
PRIOR SELECTED	1.058	1.011	1.005	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.069	1.012	1.005	1.005	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.095	1.024	1.012	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	156	168	180	192	204	216	228	240	252	264	276	288
1995	2,129	2,129	2,129	2,129	2,129	2,129	2,143	2,154	2,154	2,154	2,154	2,154
1996	1,778	1,778	1,778	1,778	1,778	1,779	1,790	1,790	1,790	1,790	1,790	1,790
1997	1,941	1,941	1,941	1,941	1,941	1,959	1,959	1,959	1,959	1,959		
1998	1,877	1,877	1,877	1,889	1,899	1,899	1,899	1,899	1,899			
1999	1,601	1,601	1,600	1,609	1,609	1,609	1,609	1,609				
2000	1,704	1,702	1,718	1,718	1,718	1,718	1,718					
2001	1,930	1,950	1,950	1,950	1,950	1,950						
2002	1,914	1,914	1,914	1,914	1,914							
2003	2,098	2,098	2,099	2,099								
2004	2,150	2,149	2,150									
2005	1,956	1,956										
2006	1,752											
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
2018												

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	ULT.
1995	1.000	1.000	1.000	1.000	1.000	1.007	1.005	1.000	1.000	1.000	1.000	
1996	1.000	1.000	1.000	1.000	1.001	1.006	1.000	1.000	1.000	1.000		
1997	1.000	1.000	1.000	1.000	1.009	1.000	1.000	1.000	1.000			
1998	1.000	1.000	1.006	1.005	1.000	1.000	1.000	1.000				
1999	1.000	0.999	1.006	1.000	1.000	1.000	1.000					
2000	0.999	1.009	1.000	1.000	1.000	1.000						
2001	1.010	1.000	1.000	1.000	1.000							
2002	1.000	1.000	1.000	1.000								
2003	1.000	1.000	1.000									
2004	1.000	1.000										
2005	1.000											
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
AVERAGE	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.000	1.000	1.000	1.000	
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
EXCL HI LO	1.000	1.000	1.001	1.000	1.000	1.002	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
PRIOR SELECTED	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000		
SELECTED	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	PAYROLL (\$000'S)	NUMBER OF CLAIMS PER \$MM OF PAYROLL (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	2,150	1.001	2,152	1,745	480,618	4.5	\$811
2005	1,956	1.001	1,958	3,123	509,922	3.8	1,595
2006	1,752	1.001	1,753	1,376	535,575	3.3	785
2007	1,681	1.001	1,682	1,459	561,917	3.0	867
2008	2,560	1.000	2,561	3,067	588,852	4.3	1,198
2009	1,947	1.000	1,947	2,459	597,703	3.3	1,263
2010	1,744	1.000	1,744	2,561	603,199	2.9	1,468
2011	1,575	1.000	1,575	6,351	617,821	2.5	4,032
2012	1,581	1.000	1,581	5,030	575,116	2.7	3,182
2013	1,552	1.000	1,552	3,860	575,116	2.7	2,487
2014	1,667	1.001	1,669	3,740	572,457	2.9	2,241
2015	1,711	1.006	1,722	4,091	609,089	2.8	2,377
2016	1,775	1.012	1,795	3,753	627,415	2.9	2,090
2017	2,057	1.024	2,106	3,995	634,789	3.3	1,896
2018	1,984	1.095	2,172	3,852	630,771	3.4	1,773
TOTAL	18,498		18,506	31,032			

Notes:

(1) & (5) - Per CITY OF JACKSONVILLE.

(2) - Per CITY OF JACKSONVILLE's historical loss patterns.

(3) = (1) x (2).

(4) = Exhibit VII, Page 1, Column (5).

(6) = [(3) / (5)] x 1000.

(7) = [(4) / (3)] x 1000.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$10,455
2. Loss payments during 2018 for accident years 2017 and prior	(\$3,445)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$241)
4. Estimated ultimate losses for accident year 2018.	\$3,852
5. Loss payments during 2018 for accident year 2018.	(\$664)
6. Estimated net undiscounted reserves at 9/30/2018	\$9,957

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII, Page 7C, Column (3).
- (3) - Total from Exhibit VII, Page 7B, Column (3).
- (4) - See Exhibit VII, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$1,211	\$1,211	\$0
1996	980	980	0
1997	1,437	1,437	0
1998	1,990	1,990	(0)
1999	1,426	1,426	0
2000	2,664	2,664	0
2001	1,762	1,762	0
2002	1,439	1,439	0
2003	2,035	2,034	(1)
2004	1,745	1,745	0
2005	3,129	3,123	(6)
2006	1,384	1,376	(8)
2007	1,459	1,459	0
2008	3,067	3,067	(0)
2009	2,403	2,459	56
2010	2,815	2,561	(254)
2011	6,358	6,351	(7)
2012	4,945	5,030	85
2013	4,058	3,860	(198)
2014	3,634	3,740	106
2015	4,004	4,091	87
2016	3,755	3,753	(2)
2017	4,095	3,995	(100)
TOTAL	\$61,796	\$61,555	(241)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII, Page 1, Column (5).

(3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$1,211	\$1,211	\$0
1996	980	980	0
1997	1,437	1,437	0
1998	1,990	1,990	(0)
1999	1,426	1,426	0
2000	2,664	2,664	0
2001	1,762	1,762	0
2002	1,439	1,439	0
2003	2,034	2,034	0
2004	1,745	1,745	0
2005	3,120	3,120	0
2006	1,356	1,356	0
2007	1,459	1,459	0
2008	3,067	3,067	(0)
2009	2,403	2,403	0
2010	2,452	2,452	0
2011	5,137	5,773	635
2012	4,618	4,803	185
2013	3,425	3,458	34
2014	2,671	3,107	437
2015	2,529	3,190	662
2016	1,536	2,198	662
2017	880	1,710	830
TOTAL	\$51,341	\$54,787	\$3,445

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII, Page 1, Column (6).

(3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
GENERAL LIABILITY
City of Jacksonville - Other than Sheriff and Fire claims
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$371	\$0	\$371	\$371	\$0
1995	198	0	198	198	0
1996	448	0	448	448	0
1997	460	0	460	460	0
1998	474	0	474	474	0
1999	600	0	600	600	0
2000	367	0	367	367	0
2001	471	0	471	471	0
2002	506	0	506	506	0
2003	644	0	644	644	0
2004	488	0	488	488	0
2005	1,067	0	1,067	1,070	3
2006	510	17	527	530	20
2007	648	0	648	648	0
2008	1,074	0	1,074	1,074	0
2009	935	0	935	935	0
2010	951	0	951	951	0
2011	4,008	502	4,510	4,586	578
2012	1,050	105	1,154	1,256	206
2013	1,759	153	1,912	1,950	191
2014	1,544	260	1,804	1,856	312
2015	1,391	222	1,613	1,731	340
2016	889	741	1,629	1,924	1,035
2017	984	643	1,627	2,111	1,127
2018	302	780	1,082	2,168	1,866
TOTAL	\$22,139	\$3,422	\$25,561	\$27,819	\$5,679

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
City of Jacksonville - Other than Sheriff and Fire claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$371	\$1,000	N/A	N/A
1995	198	1,000	N/A	N/A
1996	448	1,000	N/A	N/A
1997	460	1,000	N/A	N/A
1998	474	1,000	N/A	N/A
1999	600	1,000	N/A	N/A
2000	367	1,000	N/A	N/A
2001	471	1,000	N/A	N/A
2002	506	1,000	N/A	N/A
2003	644	1,200	N/A	N/A
2004	488	5,000	159,436	0.0031
2005	1,070	5,000	169,833	0.0063
2006	530	5,000	169,448	0.0031
2007	648	5,000	172,338	0.0038
2008	1,074	5,000	175,789	0.0061
2009	935	5,000	184,392	0.0051
2010	951	5,000	180,592	0.0053
2011	4,586	5,000	187,761	0.0244
2012	1,256	various **	164,250	0.0076
2013	1,950	various**	152,157	0.0128
2014	1,856	1,500	142,034	0.0131
2015	1,731	1,500	167,877	0.0103
2016	1,924	1,500	168,012	0.0115
2017	2,111	1,500	160,222	0.0132
2018	2,168	1,500	162,320	0.0134
(PROJ.) 2018/2019	2,096	1,500	165,566	0.0127
(PROJ.) 2019/2020	2,181	1,500	168,878	0.0129
(PROJ.) 2020/2021	2,269	1,500	172,255	0.0132
(PROJ.) 2021/2022	2,361	1,500	175,700	0.0134
(PROJ.) 2022/2023	2,456	1,500	179,214	0.0137
(PROJ.) 2023/2024	2,555	1,500	182,799	0.0140
(PROJ.) 2024/2025	2,658	1,500	186,455	0.0143
(PROJ.) 2025/2026	2,766	1,500	190,184	0.0145
(PROJ.) 2026/2027	2,878	1,500	193,987	0.0148
(PROJ.) 2027/2028	2,994	1,500	197,867	0.0151

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	50% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(13)	(14)
2018/2019	\$2,096	\$2,434	\$2,544	\$2,682	\$2,844	\$3,073
2019/2020	\$2,181	\$2,533	\$2,647	\$2,791	\$2,959	\$3,198

Notes:
(1) - Exhibit VII-A, Page 1, Column (4). For the projection years (1) = (3) x (4)
(2) & (3) - Per CITY OF JACKSONVILLE.
(4) = (1) / (3). For the projected years, it is the trended based on the prior years.
(5) = Projected losses in Column (1).
(6) to (10) - Based on Monte Carlo Simulation Approach.
**retention limits for AYS 2012 to 2013
GL-Group A - 2,500,000
GL-Group B- 5,000,000
GL Fungi/Bacteria - 5,000,000
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
City of Jacksonville - Other than Sheriff and Fire claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.6%	97.4%	98.0%	98.6%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.9%	0.7%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.2%	1.0%	0.9%	0.7%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.9%	0.7%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$8,155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	371	0	0	0	0	0	0	0	0	0	0	0	0
1995	198	0	0	0	0	0	0	0	0	0	0	0	0
1996	448	0	0	0	0	0	0	0	0	0	0	0	0
1997	460	0	0	0	0	0	0	0	0	0	0	0	0
1998	474	0	0	0	0	0	0	0	0	0	0	0	0
1999	600	0	0	0	0	0	0	0	0	0	0	0	0
2000	367	0	0	0	0	0	0	0	0	0	0	0	0
2001	471	0	0	0	0	0	0	0	0	0	0	0	0
2002	506	0	0	0	0	0	0	0	0	0	0	0	0
2003	644	0	0	0	0	0	0	0	0	0	0	0	0
2004	488	0	0	0	0	0	0	0	0	0	0	0	0
2005	1,070	3	3	0	0	0	0	0	0	0	0	0	0
2006	530	20	13	7	0	0	0	0	0	0	0	0	0
2007	648	0	0	0	0	0	0	0	0	0	0	0	0
2008	1,074	0	0	0	0	0	0	0	0	0	0	0	0
2009	935	0	0	0	0	0	0	0	0	0	0	0	0
2010	951	0	0	0	0	0	0	0	0	0	0	0	0
2011	4,586	578	127	113	95	98	94	34	17	0	0	0	0
2012	1,256	206	44	36	32	27	27	26	10	5	0	0	0
2013	1,950	191	70	26	21	19	16	16	15	6	3	0	0
2014	1,856	312	155	58	21	17	15	13	13	13	5	2	0
2015	1,731	340	109	114	43	16	13	11	9	10	9	3	2
2016	1,924	1,035	483	178	186	69	26	21	18	15	16	15	8
2017	2,111	1,127	387	345	127	133	50	18	15	13	11	11	17
2018	2,168	1,866	467	480	428	158	165	62	23	18	16	14	35
2019	2,096		512	397	408	364	134	140	52	19	16	14	41
2020	2,181			533	413	424	378	139	146	54	20	16	57
2021	2,269				554	429	441	394	145	152	57	21	77
2022	2,361					577	447	459	409	151	158	59	101
2023	2,456						600	465	478	426	157	164	167
2024	2,555							624	483	497	443	163	344
2025	2,658								649	503	517	461	528
2026	2,766									676	523	538	1,029
2027	2,878										703	545	1,630
2028	2,994											731	2,263
TOTAL	\$61,187	\$5,679	\$2,371	\$2,286	\$2,328	\$2,330	\$2,405	\$2,422	\$2,484	\$2,557	\$2,653	\$2,758	\$6,299

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
City of Jacksonville
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$5,965
2. Loss payments during 2018 for accident years 2017 and prior	(\$1,811)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$342)
4. Estimated ultimate losses for accident year 2018.	\$2,168
5. Loss payments during 2018 for accident year 2018.	(\$302)
6. Estimated net undiscounted reserves at 9/30/2018	\$5,679

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-A, Page 3C, Column (3).
- (3) - Total from Exhibit VII-A, Page 3B, Column (3).
- (4) - See Exhibit VII-A, Page 1, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF ESTIMATED ULTIMATE LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 City of Jacksonville
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	198	198	0
1996	448	448	0
1997	460	460	(0)
1998	474	474	0
1999	600	600	(0)
2000	367	367	0
2001	471	471	0
2002	506	506	0
2003	644	644	0
2004	488	488	0
2005	1,075	1,070	(6)
2006	538	530	(8)
2007	648	648	0
2008	1,074	1,074	0
2009	940	935	(5)
2010	951	951	0
2011	4,656	4,586	(70)
2012	1,294	1,256	(38)
2013	1,978	1,950	(28)
2014	1,820	1,856	37
2015	1,903	1,731	(172)
2016	2,099	1,924	(175)
2017	1,988	2,111	122
TOTAL	\$25,621	\$25,279	(342)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-A, Column (4) of Pages 1.

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
City of Jacksonville
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	198	198	0
1996	448	448	0
1997	460	460	(0)
1998	474	474	0
1999	600	600	(0)
2000	367	367	0
2001	471	471	0
2002	506	506	0
2003	644	644	0
2004	488	488	0
2005	1,067	1,067	0
2006	510	510	0
2007	648	648	0
2008	1,074	1,074	0
2009	940	935	(5)
2010	951	951	0
2011	3,440	4,008	568
2012	1,047	1,050	3
2013	1,757	1,759	2
2014	1,378	1,544	166
2015	1,157	1,391	234
2016	613	889	275
2017	415	984	568
TOTAL	\$19,656	\$21,466	1,811

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-A, Page 1, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 CALCULATION OF TOTAL RESERVES
 GENERAL LIABILITY
 City of Jacksonville - Sheriff Claims
 (\$AMTS IN THOUSANDS)
 LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$373	\$0	\$373	\$373	\$0
1995	506	0	506	506	0
1996	153	0	153	153	0
1997	537	0	537	537	0
1998	1,139	0	1,139	1,139	0
1999	176	0	176	176	0
2000	1,795	0	1,795	1,795	0
2001	315	0	315	315	0
2002	288	0	288	288	0
2003	896	0	896	896	0
2004	542	0	542	542	0
2005	1,550	0	1,550	1,550	0
2006	266	0	266	266	0
2007	415	0	415	415	0
2008	763	0	763	763	0
2009	919	0	919	919	0
2010	496	16	511	521	26
2011	1,002	0	1,002	1,002	0
2012	2,914	11	2,925	2,935	21
2013	916	132	1,048	1,081	165
2014	381	122	503	527	146
2015	1,284	207	1,491	1,601	317
2016	471	246	716	814	343
2017	122	521	643	1,036	914
2018	29	285	314	711	682
TOTAL	\$18,247	\$1,539	\$19,786	\$20,862	\$2,615

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$373	\$1,000	N/A	N/A
1995	506	1,000	N/A	N/A
1996	153	1,000	N/A	N/A
1997	537	1,000	N/A	N/A
1998	1,139	1,000	N/A	N/A
1999	176	1,000	N/A	N/A
2000	1,795	1,000	N/A	N/A
2001	315	1,000	N/A	N/A
2002	288	1,000	N/A	N/A
2003	896	1,200	N/A	N/A
2004	542	5,000	116,865	0.0046
2005	1,550	5,000	134,969	0.0115
2006	266	5,000	137,826	0.0019
2007	415	5,000	147,222	0.0028
2008	763	5,000	153,840	0.0050
2009	919	5,000	164,709	0.0056
2010	521	5,000	171,283	0.0030
2011	1,002	5,000	175,841	0.0057
2012	2,935	various **	163,299	0.0180
2013	1,081	various**	159,681	0.0068
2014	527	1,500	160,139	0.0033
2015	1,601	1,500	152,304	0.0105
2016	814	1,500	152,426	0.0053
2017	1,036	1,500	145,360	0.0071
2018	711	1,500	147,263	0.0048
<i>(PROJ.) 2018/2019</i>	934	1,500	150,208	0.0062
<i>(PROJ.) 2019/2020</i>	972	1,500	153,212	0.0063
<i>(PROJ.) 2020/2021</i>	1,011	1,500	156,276	0.0065
<i>(PROJ.) 2021/2022</i>	1,052	1,500	159,402	0.0066
<i>(PROJ.) 2022/2023</i>	1,095	1,500	162,590	0.0067
<i>(PROJ.) 2023/2024</i>	1,139	1,500	165,842	0.0069
<i>(PROJ.) 2024/2025</i>	1,185	1,500	169,158	0.0070
<i>(PROJ.) 2025/2026</i>	1,233	1,500	172,542	0.0071
<i>(PROJ.) 2026/2027</i>	1,283	1,500	175,992	0.0073
<i>(PROJ.) 2027/2028</i>	1,334	1,500	179,512	0.0074

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	50% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(13)	(14)
2018/2019	\$934	\$1,085	\$1,134	\$1,195	\$1,267	\$1,369
2019/2020	\$972	\$1,129	\$1,180	\$1,244	\$1,319	\$1,425

Notes:

(1) - Exhibit VII-B, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected years, it is the trended based on the prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for A Ys 2012 to 2013

GL-Group A - 2,500,000

GL-Group B - 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
City of Jacksonville - Sheriff Claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$6,689	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	373	0	0	0	0	0	0	0	0	0	0	0	0
1995	506	0	0	0	0	0	0	0	0	0	0	0	0
1996	153	0	0	0	0	0	0	0	0	0	0	0	0
1997	537	0	0	0	0	0	0	0	0	0	0	0	0
1998	1,139	0	0	0	0	0	0	0	0	0	0	0	0
1999	176	0	0	0	0	0	0	0	0	0	0	0	0
2000	1,795	0	0	0	0	0	0	0	0	0	0	0	0
2001	315	0	0	0	0	0	0	0	0	0	0	0	0
2002	288	0	0	0	0	0	0	0	0	0	0	0	0
2003	896	0	0	0	0	0	0	0	0	0	0	0	0
2004	542	0	0	0	0	0	0	0	0	0	0	0	0
2005	1,550	0	0	0	0	0	0	0	0	0	0	0	0
2006	266	0	0	0	0	0	0	0	0	0	0	0	0
2007	415	0	0	0	0	0	0	0	0	0	0	0	0
2008	763	0	0	0	0	0	0	0	0	0	0	0	0
2009	919	0	0	0	0	0	0	0	0	0	0	0	0
2010	521	26	6	6	6	2	1	0	0	0	0	0	0
2011	1,002	0	0	0	0	0	0	0	0	0	0	0	0
2012	2,935	21	4	4	3	3	3	1	0	0	0	0	0
2013	1,081	165	61	19	19	17	14	14	5	2	0	0	0
2014	527	146	73	27	8	8	7	6	6	2	1	0	0
2015	1,601	317	102	107	40	12	12	11	9	10	3	2	2
2016	814	343	160	59	62	23	7	6	5	5	5	3	3
2017	1,036	914	314	280	103	108	40	12	12	11	9	10	14
2018	711	682	171	176	157	58	60	23	7	7	6	5	13
2019	934		228	177	182	162	60	62	23	7	7	6	19
2020	972			237	184	189	169	62	65	24	7	8	27
2021	1,011				247	191	197	175	65	68	25	8	36
2022	1,052					257	199	205	182	67	70	26	45
2023	1,095						268	207	213	190	70	73	74
2024	1,139							278	216	221	198	73	153
2025	1,185								289	224	230	206	235
2026	1,233									301	233	240	459
2027	1,283										313	243	727
2028	1,334											326	1,008
TOTAL	\$38,789	\$2,615	\$1,118	\$1,090	\$1,010	\$1,033	\$1,038	\$1,067	\$1,110	\$1,148	\$1,190	\$1,232	\$2,816

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$2,502
2. Loss payments during 2018 for accident years 2017 and prior	(\$980)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$411
4. Estimated ultimate losses for accident year 2018.	\$711
5. Loss payments during 2018 for accident year 2018.	(\$29)
6. Estimated net undiscounted reserves at 9/30/2018	\$2,615

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-B, Page 3C, Column (3).
- (3) - Total from Exhibit VII-B, Page 3B, Column (3).
- (4) - See Exhibit VII-B, Page 1, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	506	506	0
1996	153	153	0
1997	537	537	0
1998	1,139	1,139	0
1999	176	176	0
2000	1,795	1,795	0
2001	315	315	0
2002	288	288	0
2003	897	896	(1)
2004	542	542	0
2005	1,550	1,550	0
2006	266	266	0
2007	415	415	0
2008	763	763	0
2009	919	919	0
2010	770	521	(248)
2011	984	1,002	18
2012	2,900	2,935	36
2013	1,216	1,081	(135)
2014	437	527	90
2015	1,394	1,601	207
2016	647	814	167
2017	758	1,036	277
TOTAL	\$19,367	\$19,778	411

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-B, Page 1, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 City of Jacksonville - Sheriff Claims
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	506	506	0
1996	153	153	0
1997	537	537	0
1998	1,139	1,139	0
1999	176	176	0
2000	1,795	1,795	0
2001	315	315	0
2002	288	288	0
2003	896	896	0
2004	542	542	0
2005	1,550	1,550	0
2006	266	266	0
2007	415	415	0
2008	763	763	0
2009	919	919	0
2010	495	496	0
2011	980	1,002	23
2012	2,819	2,914	95
2013	914	916	2
2014	297	381	84
2015	867	1,284	417
2016	213	471	258
2017	21	122	100
TOTAL	\$16,866	\$17,845	980

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-B, Page 1, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 CALCULATION OF TOTAL RESERVES
 GENERAL LIABILITY
 City of Jacksonville - Fire Claims
 (\$AMTS IN THOUSANDS)
 LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$73	\$0	\$73	\$73	\$0
1995	3	0	3	3	0
1996	3	0	3	3	0
1997	3	0	3	3	0
1998	7	0	7	7	0
1999	313	0	313	313	0
2000	183	0	183	183	0
2001	321	0	321	321	0
2002	1	0	1	1	0
2003	1	0	1	1	0
2004	12	0	12	12	0
2005	63	0	63	63	0
2006	11	0	11	11	0
2007	11	0	11	11	0
2008	300	0	300	300	0
2009	33	0	33	33	0
2010	134	0	134	134	0
2011	18	0	18	18	0
2012	141	0	141	141	0
2013	87	0	87	87	0
2014	6	0	6	6	0
2015	26	9	34	39	13
2016	38	0	38	38	0
2017	12	8	19	25	13
2018	7	3	10	14	7
TOTAL	\$1,807	\$19	\$1,826	\$1,840	\$33

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$73	\$1,000	N/A	N/A
1995	3	1,000	N/A	N/A
1996	3	1,000	N/A	N/A
1997	3	1,000	N/A	N/A
1998	7	1,000	N/A	N/A
1999	313	1,000	N/A	N/A
2000	183	1,000	N/A	N/A
2001	321	1,000	N/A	N/A
2002	1	1,000	N/A	N/A
2003	1	1,200	N/A	N/A
2004	12	5,000	56,264	0.0002
2005	63	5,000	67,634	0.0009
2006	11	5,000	67,158	0.0002
2007	11	5,000	71,897	0.0002
2008	300	5,000	74,955	0.0040
2009	33	5,000	77,831	0.0004
2010	134	5,000	84,047	0.0016
2011	18	5,000	80,441	0.0002
2012	141	various **	75,531	0.0019
2013	87	various**	74,599	0.0012
2014	6	1,500	79,498	0.0001
2015	39	1,500	73,172	0.0005
2016	38	1,500	73,231	0.0005
2017	25	1,500	69,836	0.0004
2018	14	1,500	70,750	0.0002
(PROJ.) 2018/2019	29	1,500	72,165	0.0004
(PROJ.) 2019/2020	30	1,500	73,608	0.0004
(PROJ.) 2020/2021	31	1,500	75,080	0.0004
(PROJ.) 2021/2022	32	1,500	76,582	0.0004
(PROJ.) 2022/2023	34	1,500	78,114	0.0004
(PROJ.) 2023/2024	35	1,500	79,676	0.0004
(PROJ.) 2024/2025	36	1,500	81,269	0.0004
(PROJ.) 2025/2026	38	1,500	82,895	0.0005
(PROJ.) 2026/2027	39	1,500	84,553	0.0005
(PROJ.) 2027/2028	41	1,500	86,244	0.0005

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	50% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(13)	(14)
(PROJ.) 2018/2019	\$29	\$34	\$35	\$37	\$39	\$43
(PROJ.) 2019/2020	\$30	\$35	\$36	\$38	\$41	\$44

Notes:

(1) - Exhibit VII-C, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected years, it is the trended based on the prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B - 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
City of Jacksonville - Fire Claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	73	0	0	0	0	0	0	0	0	0	0	0	0
1995	3	0	0	0	0	0	0	0	0	0	0	0	0
1996	3	0	0	0	0	0	0	0	0	0	0	0	0
1997	3	0	0	0	0	0	0	0	0	0	0	0	0
1998	7	0	0	0	0	0	0	0	0	0	0	0	0
1999	313	0	0	0	0	0	0	0	0	0	0	0	0
2000	183	0	0	0	0	0	0	0	0	0	0	0	0
2001	321	0	0	0	0	0	0	0	0	0	0	0	0
2002	1	0	0	0	0	0	0	0	0	0	0	0	0
2003	1	0	0	0	0	0	0	0	0	0	0	0	0
2004	12	0	0	0	0	0	0	0	0	0	0	0	0
2005	63	0	0	0	0	0	0	0	0	0	0	0	0
2006	11	0	0	0	0	0	0	0	0	0	0	0	0
2007	11	0	0	0	0	0	0	0	0	0	0	0	0
2008	300	0	0	0	0	0	0	0	0	0	0	0	0
2009	33	0	0	0	0	0	0	0	0	0	0	0	0
2010	134	0	0	0	0	0	0	0	0	0	0	0	0
2011	18	0	0	0	0	0	0	0	0	0	0	0	0
2012	141	0	0	0	0	0	0	0	0	0	0	0	0
2013	87	0	0	0	0	0	0	0	0	0	0	0	0
2014	6	0	0	0	0	0	0	0	0	0	0	0	0
2015	39	13	4	4	2	1	1	0	0	0	0	0	0
2016	38	0	0	0	0	0	0	0	0	0	0	0	0
2017	25	13	5	4	1	2	1	0	0	0	0	0	0
2018	14	7	2	2	2	1	1	0	0	0	0	0	0
2019	29		7	5	6	5	2	2	1	0	0	0	1
2020	30			7	6	6	5	2	1	0	0	0	1
2021	31				8	6	6	5	2	1	0	0	1
2022	32					8	6	6	6	2	2	1	1
2023	34						8	6	7	6	2	2	2
2024	35							9	7	7	6	2	5
2025	36								9	7	7	6	7
2026	38									9	7	7	14
2027	39										10	7	22
2028	41											10	31
TOTAL	\$2,405	\$33	\$18	\$23	\$24	\$27	\$29	\$31	\$33	\$35	\$36	\$37	\$86

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$24
2. Loss payments during 2018 for accident years 2017 and prior	(\$7)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$9
4. Estimated ultimate losses for accident year 2018.	\$14
5. Loss payments during 2018 for accident year 2018.	(\$7)
6. Estimated net undiscounted reserves at 9/30/2018	\$33

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-C, Page 3C, Column (3).
- (3) - Total from Exhibit VII-C, Page 3B, Column (3).
- (4) - See Exhibit VII-C, Page 1, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	3	3	0
1996	3	3	0
1997	3	3	0
1998	7	7	0
1999	313	313	0
2000	183	183	0
2001	321	321	0
2002	1	1	0
2003	1	1	0
2004	12	12	0
2005	63	63	0
2006	11	11	0
2007	11	11	0
2008	300	300	0
2009	33	33	0
2010	134	134	0
2011	18	18	0
2012	141	141	0
2013	87	87	0
2014	6	6	0
2015	43	39	(4)
2016	38	38	(0)
2017	12	25	12
TOTAL	\$1,744	\$1,753	9

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-C, Page 1, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 City of Jacksonville - Fire Claims
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	3	3	0
1996	3	3	0
1997	3	3	0
1998	7	7	0
1999	313	313	0
2000	183	183	0
2001	321	321	0
2002	1	1	0
2003	1	1	0
2004	12	12	0
2005	63	63	0
2006	11	11	0
2007	11	11	0
2008	300	300	0
2009	33	33	0
2010	134	134	0
2011	18	18	0
2012	141	141	0
2013	87	87	0
2014	6	6	0
2015	19	26	7
2016	38	38	(0)
2017	12	12	0
TOTAL	\$1,720	\$1,727	7

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-C, Page 1, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 CALCULATION OF TOTAL RESERVES
 GENERAL LIABILITY
 Jacksonville Electric Authority
 (\$AMTS IN THOUSANDS)
 LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$159	\$0	\$159	\$159	\$0
1995	181	0	181	181	0
1996	304	0	304	304	0
1997	251	0	251	251	0
1998	257	0	257	257	0
1999	76	0	76	76	0
2000	140	0	140	140	0
2001	263	0	263	263	0
2002	361	0	361	361	0
2003	251	0	251	251	0
2004	351	0	351	351	0
2005	259	0	259	259	0
2006	232	0	232	232	0
2007	153	0	153	153	0
2008	709	0	709	709	0
2009	219	0	219	219	0
2010	567	50	617	650	83
2011	229	0	229	229	0
2012	273	0	273	273	0
2013	381	37	418	427	46
2014	792	52	844	854	62
2015	253	3	255	257	4
2016	320	69	390	417	97
2017	242	16	257	269	28
2018	101	109	210	362	261
TOTAL	\$7,325	\$335	\$7,660	\$7,906	\$581

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE	RETENTION	PAYROLL	LOSS
	LOSSES	LIMIT		RATE
	(1)	(2)	(3)	(4)
1994	\$159	\$1,000	\$61,766	0.0026
1995	181	1,000	63,095	0.0029
1996	304	1,000	67,224	0.0045
1997	251	1,000	69,156	0.0036
1998	257	1,000	74,665	0.0034
1999	76	1,000	79,194	0.0010
2000	140	1,000	69,876	0.0020
2001	263	1,000	78,920	0.0033
2002	361	1,000	84,291	0.0043
2003	251	1,200	87,189	0.0029
2004	351	5,000	95,138	0.0037
2005	259	5,000	80,545	0.0032
2006	232	5,000	100,553	0.0023
2007	153	5,000	106,527	0.0014
2008	709	5,000	117,539	0.0060
2009	219	5,000	107,365	0.0020
2010	650	5,000	106,026	0.0061
2011	229	5,000	115,431	0.0020
2012	273	various**	111,318	0.0025
2013	427	various**	115,771	0.0037
2014	854	1,500	122,387	0.0070
2015	257	1,500	117,037	0.0022
2016	417	1,500	122,973	0.0034
2017	269	1,500	124,989	0.0022
2018	362	1,500	121,146	0.0030
(PROJ.) 2018/2019	\$455	1,500	123,569	0.0037
(PROJ.) 2019/2020	473	1,500	126,040	0.0038
(PROJ.) 2020/2021	492	1,500	128,561	0.0038
(PROJ.) 2021/2022	512	1,500	131,132	0.0039
(PROJ.) 2022/2023	533	1,500	133,755	0.0040
(PROJ.) 2023/2024	554	1,500	136,430	0.0041
(PROJ.) 2024/2025	577	1,500	139,159	0.0041
(PROJ.) 2025/2026	600	1,500	141,942	0.0042
(PROJ.) 2026/2027	624	1,500	144,781	0.0043
(PROJ.) 2027/2028	649	1,500	147,676	0.0044

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55%	70%	75%	80%	85%	90%
	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$455	\$528	\$552	\$582	\$617	\$667
2019/2020	\$473	\$549	\$574	\$605	\$642	\$693

Notes:

(1) - Exhibit VII-D, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected years, it is the trended based on the prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B- 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
Jacksonville Electric Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @ 9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$4,195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	159	0	0	0	0	0	0	0	0	0	0	0	0
1995	181	0	0	0	0	0	0	0	0	0	0	0	0
1996	304	0	0	0	0	0	0	0	0	0	0	0	0
1997	251	0	0	0	0	0	0	0	0	0	0	0	0
1998	257	0	0	0	0	0	0	0	0	0	0	0	0
1999	76	0	0	0	0	0	0	0	0	0	0	0	0
2000	140	0	0	0	0	0	0	0	0	0	0	0	0
2001	263	0	0	0	0	0	0	0	0	0	0	0	0
2002	361	0	0	0	0	0	0	0	0	0	0	0	0
2003	251	0	0	0	0	0	0	0	0	0	0	0	0
2004	351	0	0	0	0	0	0	0	0	0	0	0	0
2005	259	0	0	0	0	0	0	0	0	0	0	0	0
2006	232	0	0	0	0	0	0	0	0	0	0	0	0
2007	153	0	0	0	0	0	0	0	0	0	0	0	0
2008	709	0	0	0	0	0	0	0	0	0	0	0	0
2009	219	0	0	0	0	0	0	0	0	0	0	0	0
2010	650	83	21	18	18	18	6	3	0	0	0	0	0
2011	229	0	0	0	0	0	0	0	0	0	0	0	0
2012	273	0	0	0	0	0	0	0	0	0	0	0	0
2013	427	46	17	5	5	5	4	4	4	1	1	0	0
2014	854	62	31	12	4	4	3	3	3	3	1	0	0
2015	257	4	1	1	0	0	0	0	0	0	0	0	0
2016	417	97	45	17	17	7	2	2	2	2	2	2	1
2017	269	28	9	8	3	3	1	0	0	0	0	0	0
2018	362	261	65	67	60	22	23	9	3	3	2	2	5
2019	455		111	86	88	79	29	30	11	3	4	3	9
2020	473			116	90	92	82	30	32	12	4	4	13
2021	492				120	93	96	85	31	33	12	4	17
2022	512					125	97	100	89	33	34	13	22
2023	533						130	101	104	92	34	36	36
2024	554							135	105	108	96	35	75
2025	577								141	109	112	100	115
2026	600									147	114	117	223
2027	624										152	118	353
2028	649											159	490
TOTAL	\$17,569	\$581	\$301	\$330	\$406	\$447	\$473	\$503	\$524	\$546	\$568	\$592	\$1,361

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$1,030
2. Loss payments during 2018 for accident years 2017 and prior	(\$311)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$399)
4. Estimated ultimate losses for accident year 2018.	\$362
5. Loss payments during 2018 for accident year 2018.	(\$101)
6. Estimated net undiscounted reserves at 9/30/2018	\$581

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-D, Page 3C of 3, Column (3).
- (3) - Total from Exhibit VII-D, Page 3B of 3, Column (3).
- (4) - See Exhibit VII-D, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	181	181	0
1996	304	304	0
1997	251	251	0
1998	257	257	0
1999	76	76	0
2000	140	140	0
2001	263	263	0
2002	361	361	0
2003	251	251	0
2004	351	351	0
2005	259	259	0
2006	232	232	0
2007	153	153	0
2008	709	709	0
2009	219	219	0
2010	655	650	(5)
2011	229	229	0
2012	273	273	0
2013	422	427	5
2014	936	854	(82)
2015	268	257	(11)
2016	343	417	74
2017	649	269	(380)
TOTAL	\$7,783	\$7,384	(399)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-D, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 Jacksonville Electric Authority
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	181	181	0
1996	304	304	0
1997	251	251	0
1998	257	257	0
1999	76	76	0
2000	140	140	0
2001	263	263	0
2002	361	361	0
2003	251	251	0
2004	351	351	0
2005	259	259	0
2006	232	232	0
2007	153	153	0
2008	709	709	0
2009	219	219	0
2010	567	567	0
2011	229	229	0
2012	273	273	0
2013	351	381	31
2014	607	792	185
2015	253	253	(0)
2016	264	320	56
2017	202	242	40
TOTAL	\$6,753	\$7,064	311

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Exhibit VII-D, Page 1 of 3, Column (1).
- (3) = (2) - (1).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 CALCULATION OF TOTAL RESERVES
 GENERAL LIABILITY
 Jacksonville Electric Authority-Water and Sewer
 (\$AMTS IN THOUSANDS)
 LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$157	\$0	\$157	\$157	\$0
1995	145	0	145	145	0
1996	71	0	71	71	0
1997	91	0	91	91	0
1998	65	0	65	65	0
1999	235	0	235	235	0
2000	179	0	179	179	0
2001	388	0	388	388	0
2002	232	0	232	232	0
2003	220	0	220	220	0
2004	338	0	338	338	0
2005	169	0	169	169	0
2006	334	0	334	334	0
2007	215	0	215	215	0
2008	152	0	152	152	0
2009	175	1	175	231	56
2010	213	0	213	213	0
2011	457	0	457	457	0
2012	410	0	410	410	0
2013	213	0	213	213	0
2014	354	93	447	465	111
2015	219	100	319	372	153
2016	404	32	436	448	44
2017	252	95	347	419	167
2018	224	151	374	584	360
TOTAL	\$5,911	\$471	\$6,382	\$6,804	\$893

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$157	\$1,000	N/A	N/A
1995	145	1,000	N/A	N/A
1996	71	1,000	22,225	0.0032
1997	91	1,000	22,892	0.0040
1998	65	1,000	23,579	0.0028
1999	235	1,000	25,266	0.0093
2000	179	1,000	22,786	0.0078
2001	388	1,000	21,663	0.0179
2002	232	1,000	23,137	0.0100
2003	220	1,200	23,933	0.0092
2004	338	5,000	26,115	0.0129
2005	169	5,000	27,733	0.0061
2006	334	5,000	31,025	0.0108
2007	215	5,000	32,868	0.0066
2008	152	5,000	36,266	0.0042
2009	231	5,000	33,116	0.0070
2010	213	5,000	32,703	0.0065
2011	457	5,000	26,096	0.0175
2012	410	various**	28,608	0.0143
2013	213	various**	28,608	0.0074
2014	465	1,500	34,218	0.0136
2015	372	1,500	30,345	0.0123
2016	448	1,500	31,884	0.0141
2017	419	1,500	31,826	0.0132
2018	584	1,500	34,676	0.0168
(PROJ.) 2018/2019	\$465	1,500	35,369	0.0132
(PROJ.) 2019/2020	484	1,500	36,077	0.0134
(PROJ.) 2020/2021	504	1,501	36,798	0.0137
(PROJ.) 2021/2022	524	1,502	37,534	0.0140
(PROJ.) 2022/2023	545	1,503	38,285	0.0142
(PROJ.) 2023/2024	567	1,504	39,051	0.0145
(PROJ.) 2024/2025	590	1,505	39,832	0.0148
(PROJ.) 2025/2026	614	1,506	40,628	0.0151
(PROJ.) 2026/2027	639	1,507	41,441	0.0154
(PROJ.) 2027/2028	665	1,508	42,270	0.0157

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$465	\$540	\$564	\$595	\$631	\$682
2019/2020	\$484	\$562	\$588	\$619	\$657	\$710

Notes:

(1) - Exhibit VII-E, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the trended based on the prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B - 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
Jacksonville Electric Authority-Water and Sewer
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$1,269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	157	0	0	0	0	0	0	0	0	0	0	0	0
1995	145	0	0	0	0	0	0	0	0	0	0	0	0
1996	71	0	0	0	0	0	0	0	0	0	0	0	0
1997	91	0	0	0	0	0	0	0	0	0	0	0	0
1998	65	0	0	0	0	0	0	0	0	0	0	0	0
1999	235	0	0	0	0	0	0	0	0	0	0	0	0
2000	179	0	0	0	0	0	0	0	0	0	0	0	0
2001	388	0	0	0	0	0	0	0	0	0	0	0	0
2002	232	0	0	0	0	0	0	0	0	0	0	0	0
2003	220	0	0	0	0	0	0	0	0	0	0	0	0
2004	338	0	0	0	0	0	0	0	0	0	0	0	0
2005	169	0	0	0	0	0	0	0	0	0	0	0	0
2006	334	0	0	0	0	0	0	0	0	0	0	0	0
2007	215	0	0	0	0	0	0	0	0	0	0	0	0
2008	152	0	0	0	0	0	0	0	0	0	0	0	0
2009	231	56	16	16	16	5	3	0	0	0	0	0	0
2010	213	0	0	0	0	0	0	0	0	0	0	0	0
2011	457	0	0	0	0	0	0	0	0	0	0	0	0
2012	410	0	0	0	0	0	0	0	0	0	0	0	0
2013	213	0	0	0	0	0	0	0	0	0	0	0	0
2014	465	111	55	21	6	6	6	5	5	5	2	1	0
2015	372	153	49	52	19	6	6	5	5	5	5	2	1
2016	448	44	21	8	8	3	1	1	1	1	1	1	0
2017	419	167	57	51	19	20	7	2	2	2	2	2	3
2018	584	360	90	93	83	30	32	12	4	4	3	3	7
2019	465		114	88	90	81	30	31	12	4	4	3	10
2020	484			118	92	94	84	31	32	12	4	4	13
2021	504				123	95	98	87	32	34	13	4	18
2022	524					128	99	102	91	33	35	13	22
2023	545						133	103	106	95	35	36	37
2024	567							139	107	110	98	36	76
2025	590								144	112	115	102	117
2026	614									150	116	119	228
2027	639										156	121	362
2028	665											162	503
TOTAL	\$13,670	\$893	\$403	\$446	\$456	\$469	\$498	\$518	\$541	\$565	\$587	\$609	\$1,398

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$648
2. Loss payments during 2018 for accident years 2017 and prior	(\$144)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$29
4. Estimated ultimate losses for accident year 2018.	\$584
5. Loss payments during 2018 for accident year 2018.	(\$224)
6. Estimated net undiscounted reserves at 9/30/2018	\$893

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-E, Page 3C of 3, Column (3).
- (3) - Total from Exhibit VII-E, Page 3B of 3, Column (3).
- (4) - See Exhibit VII-E, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	145	145	0
1996	71	71	0
1997	91	91	0
1998	65	65	0
1999	235	235	0
2000	179	179	0
2001	388	388	0
2002	232	232	0
2003	220	220	0
2004	338	338	0
2005	169	169	0
2006	334	334	0
2007	215	215	0
2008	152	152	0
2009	170	231	61
2010	213	213	0
2011	457	457	0
2012	322	410	87
2013	254	213	(41)
2014	403	465	62
2015	301	372	71
2016	510	448	(62)
2017	569	419	(151)
TOTAL	\$6,035	\$6,063	29

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-E, Page 1, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 Jacksonville Electric Authority-Water and Sewer
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	145	145	0
1996	71	71	0
1997	91	91	0
1998	65	65	0
1999	235	235	0
2000	179	179	0
2001	388	388	0
2002	232	232	0
2003	220	220	0
2004	338	338	0
2005	169	169	0
2006	334	334	0
2007	215	215	0
2008	152	152	0
2009	170	175	5
2010	213	213	0
2011	457	457	0
2012	322	410	87
2013	214	213	(1)
2014	352	354	2
2015	215	219	3
2016	379	404	25
2017	229	252	23
TOTAL	\$5,387	\$5,531	144

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-E, Page 1, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
GENERAL LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$13	\$0	\$13	\$13	\$0
1995	0	0	0	0	0
1996	0	0	0	0	0
1997	0	0	0	0	0
1998	0	0	0	0	0
1999	26	0	26	26	0
2000	0	0	0	0	0
2001	3	0	3	3	0
2002	51	0	51	51	0
2003	19	0	19	19	0
2004	14	0	14	14	0
2005	0	0	0	0	0
2006	2	0	2	2	0
2007	15	0	15	15	0
2008	63	0	63	63	0
2009	113	0	113	113	0
2010	87	0	87	87	0
2011	59	0	59	59	0
2012	16	0	16	16	0
2013	102	0	102	102	0
2014	18	0	18	18	0
2015	16	48	64	90	74
2016	51	25	76	86	35
2017	99	18	118	131	32
2018	1	5	5	12	11
TOTAL	\$769	\$96	\$864	\$920	\$151

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$13	\$1,000	N/A	N/A
1995	0	1,000	N/A	N/A
1996	0	1,000	3,624	0.0000
1997	0	1,000	5,611	0.0000
1998	0	1,000	6,343	0.0000
1999	26	1,000	6,751	0.0038
2000	0	1,000	7,034	0.0000
2001	3	1,000	7,237	0.0004
2002	51	1,000	7,572	0.0067
2003	19	1,200	7,835	0.0025
2004	14	5,000	8,107	0.0017
2005	0	5,000	8,247	0.0000
2006	2	5,000	8,302	0.0003
2007	15	5,000	8,252	0.0019
2008	63	5,000	7,731	0.0081
2009	113	5,000	8,487	0.0133
2010	87	5,000	8,251	0.0106
2011	59	5,000	8,137	0.0072
2012	16	various**	8,312	0.0019
2013	102	various**	8,250	0.0124
2014	18	1,500	7,705	0.0024
2015	90	1,500	7,386	0.0121
2016	86	1,500	7,202	0.0120
2017	131	1,500	6,809	0.0193
2018	12	1,500	6,744	0.0017
(PROJ.) 2018/2019	\$61	1,500	6,879	0.0088
(PROJ.) 2019/2020	63	1,500	7,017	0.0090
(PROJ.) 2020/2021	66	1,500	7,157	0.0092
(PROJ.) 2021/2022	68	1,500	7,300	0.0094
(PROJ.) 2022/2023	71	1,500	7,446	0.0096
(PROJ.) 2023/2024	74	1,500	7,595	0.0097
(PROJ.) 2024/2025	77	1,500	7,747	0.0099
(PROJ.) 2025/2026	80	1,500	7,902	0.0101
(PROJ.) 2026/2027	83	1,500	8,060	0.0103
(PROJ.) 2027/2028	87	1,500	8,221	0.0106

SECTION 3 - DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$61	\$71	\$74	\$78	\$83	\$89
2019/2020	\$63	\$73	\$76	\$81	\$85	\$92

Notes:

(1) - Exhibit VII-F, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the trended based on the prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B - 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
Jacksonville Housing Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018	24.4%	25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$147	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	13	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	26	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0	0
2002	51	0	0	0	0	0	0	0	0	0	0	0	0
2003	19	0	0	0	0	0	0	0	0	0	0	0	0
2004	14	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	2	0	0	0	0	0	0	0	0	0	0	0	0
2007	15	0	0	0	0	0	0	0	0	0	0	0	0
2008	63	0	0	0	0	0	0	0	0	0	0	0	0
2009	113	0	0	0	0	0	0	0	0	0	0	0	0
2010	87	0	0	0	0	0	0	0	0	0	0	0	0
2011	59	0	0	0	0	0	0	0	0	0	0	0	0
2012	16	0	0	0	0	0	0	0	0	0	0	0	0
2013	102	0	0	0	0	0	0	0	0	0	0	0	0
2014	18	0	0	0	0	0	0	0	0	0	0	0	0
2015	90	74	24	25	9	3	3	3	2	2	2	1	0
2016	86	35	16	6	6	2	1	1	1	1	1	1	0
2017	131	32	11	10	4	4	1	0	0	0	0	0	1
2018	12	11	3	3	2	1	1	0	0	0	0	0	0
2019	61		15	12	12	11	4	4	2	0	0	0	1
2020	63			15	12	12	11	4	4	2	0	0	2
2021	66				16	12	13	11	4	4	2	1	2
2022	68					17	13	13	12	4	5	2	3
2023	71						17	13	14	12	5	5	5
2024	74							18	14	14	13	5	10
2025	77								19	15	15	13	15
2026	80									20	15	16	30
2027	83										20	16	47
2028	87											21	66
TOTAL	\$1,797	\$151	\$68	\$70	\$61	\$62	\$64	\$68	\$72	\$75	\$78	\$80	\$182

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$280
2. Loss payments during 2018 for accident years 2017 and prior	(\$193)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$54
4. Estimated ultimate losses for accident year 2018.	\$12
5. Loss payments during 2018 for accident year 2018.	(\$1)
6. Estimated net undiscounted reserves at 9/30/2018	\$151

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-F, Page 3C, Column (3).
- (3) - Total from Exhibit VII-F, Page 3B, Column (3).
- (4) - See Exhibit VII-F, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	26	26	0
2000	0	0	0
2001	3	3	0
2002	51	51	0
2003	19	19	0
2004	14	14	0
2005	0	0	0
2006	2	2	0
2007	15	15	0
2008	63	63	0
2009	113	113	0
2010	87	87	0
2011	14	59	45
2012	16	16	0
2013	102	102	0
2014	18	18	0
2015	95	90	(5)
2016	93	86	(6)
2017	111	131	20
TOTAL	\$842	\$896	54

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-F, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 Jacksonville Housing Authority
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	26	26	0
2000	0	0	0
2001	3	3	0
2002	51	51	0
2003	19	19	0
2004	14	14	0
2005	0	0	0
2006	2	2	0
2007	15	15	0
2008	63	63	0
2009	113	113	0
2010	87	87	0
2011	14	59	45
2012	16	16	0
2013	102	102	0
2014	18	18	0
2015	16	16	0
2016	3	51	48
2017	0	99	99
TOTAL	\$562	\$755	193

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-F, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 CALCULATION OF TOTAL RESERVES
 GENERAL LIABILITY
 Jacksonville Port Authority
 (\$AMTS IN THOUSANDS)
 LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$1	\$0	\$1	\$1	\$0
1995	179	0	179	179	0
1996	0	0	0	0	0
1997	94	0	94	94	0
1998	48	0	48	48	0
1999	1	0	1	1	0
2000	0	0	0	0	0
2001	0	0	0	0	0
2002	0	0	0	0	0
2003	1	0	1	1	0
2004	0	0	0	0	0
2005	13	0	13	13	0
2006	1	0	1	1	0
2007	1	0	1	1	0
2008	7	0	7	7	0
2009	7	0	7	7	0
2010	4	0	4	4	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	13	0	13	13	0
2015	2	0	2	2	0
2016	26	0	26	26	0
2017	0	3	3	4	4
2018	1	0	1	1	0
TOTAL	\$398	\$3	\$401	\$403	\$4

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$1	\$1,000	\$10,197	0.0001
1995	179	1,000	10,461	0.0171
1996	0	1,000	5,160	0.0000
1997	94	1,000	5,301	0.0178
1998	48	1,000	5,798	0.0082
1999	1	1,000	6,024	0.0002
2000	0	1,000	6,673	0.0000
2001	0	1,000	6,872	0.0000
2002	0	1,000	5,593	0.0001
2003	1	1,200	6,593	0.0002
2004	0	5,000	7,945	0.0000
2005	13	5,000	8,224	0.0016
2006	1	5,000	7,795	0.0002
2007	1	5,000	9,969	0.0001
2008	7	5,000	10,632	0.0006
2009	7	5,000	9,080	0.0007
2010	4	5,000	8,593	0.0005
2011	0	5,000	10,979	0.0000
2012	0	various**	10,411	0.0000
2013	0	various**	10,411	0.0000
2014	13	1,500	11,356	0.0011
2015	2	1,500	11,292	0.0002
2016	26	1,500	11,690	0.0022
2017	4	1,500	12,089	0.0004
2018	1	1,500	12,579	0.0001
<i>(PROJ.) 2018/2019</i>	\$15	1,500	12,831	0.0012
<i>(PROJ.) 2019/2020</i>	16	1,500	13,087	0.0012
<i>(PROJ.) 2020/2021</i>	16	1,500	13,349	0.0012
<i>(PROJ.) 2021/2022</i>	17	1,500	13,616	0.0012
<i>(PROJ.) 2022/2023</i>	18	1,500	13,888	0.0013
<i>(PROJ.) 2023/2024</i>	18	1,500	14,166	0.0013
<i>(PROJ.) 2024/2025</i>	19	1,500	14,449	0.0013
<i>(PROJ.) 2025/2026</i>	20	1,500	14,738	0.0013
<i>(PROJ.) 2026/2027</i>	21	1,500	15,033	0.0014
<i>(PROJ.) 2027/2028</i>	21	1,500	15,334	0.0014

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$15	\$17	\$18	\$19	\$20	\$22
2019/2020	\$16	\$19	\$19	\$20	\$22	\$23

Notes:

(1) - Exhibit VII-G, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected years, it is the average of prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B- 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
Jacksonville Port Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	1	0	0	0	0	0	0	0	0	0	0	0	0
1995	179	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	94	0	0	0	0	0	0	0	0	0	0	0	0
1998	48	0	0	0	0	0	0	0	0	0	0	0	0
1999	1	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	1	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	13	0	0	0	0	0	0	0	0	0	0	0	0
2006	1	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	0	0	0	0	0	0	0	0	0	0	0	0
2008	7	0	0	0	0	0	0	0	0	0	0	0	0
2009	7	0	0	0	0	0	0	0	0	0	0	0	0
2010	4	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	13	0	0	0	0	0	0	0	0	0	0	0	0
2015	2	0	0	0	0	0	0	0	0	0	0	0	0
2016	26	0	0	0	0	0	0	0	0	0	0	0	0
2017	4	4	2	1	0	1	0	0	0	0	0	0	0
2018	1	0	0	0	0	0	0	0	0	0	0	0	0
2019	15		4	3	3	3	1	1	0	0	0	0	0
2020	16			4	3	3	3	1	1	0	0	0	0
2021	16				4	3	3	3	1	1	0	0	1
2022	17					4	3	3	3	1	1	0	1
2023	18						4	3	4	3	1	1	1
2024	18							4	3	4	3	1	2
2025	19								5	4	4	3	4
2026	20									5	4	4	7
2027	21										5	4	12
2028	21											5	16
TOTAL	\$1,000	\$4	\$5	\$8	\$10	\$13	\$15	\$16	\$17	\$18	\$19	\$19	\$45

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$6
2. Loss payments during 2018 for accident years 2017 and prior	\$0
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$2)
4. Estimated ultimate losses for accident year 2018.	\$1
5. Loss payments during 2018 for accident year 2018.	(\$1)
6. Estimated net undiscounted reserves at 9/30/2018	\$4

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-G, Page 3C, Column (3).
- (3) - Total from Exhibit VII-G, Page 3B, Column (3).
- (4) - See Exhibit VII-G, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	179	179	0
1996	0	0	0
1997	94	94	0
1998	48	48	0
1999	1	1	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	1	1	0
2004	0	0	0
2005	13	13	0
2006	1	1	0
2007	1	1	0
2008	7	7	0
2009	7	7	0
2010	4	4	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	13	13	0
2015	2	2	0
2016	26	26	0
2017	6	4	(2)
TOTAL	\$403	\$401	(2)

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-G, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 Jacksonville Port Authority
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	179	179	0
1996	0	0	0
1997	94	94	0
1998	48	48	0
1999	1	1	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	1	1	0
2004	0	0	0
2005	13	13	0
2006	1	1	0
2007	1	1	0
2008	7	7	0
2009	7	7	0
2010	4	4	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	13	13	0
2015	2	2	0
2016	26	26	0
2017	0	0	0
TOTAL	\$397	\$397	0

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-G, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
GENERAL LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018 (1)	CASE RESERVES @9/30/2018 (2)	INCURRED LOSSES @9/30/2018 (3)	SELECTED ULTIMATE LOSSES (4)	LOSS RESERVES @9/30/2018 (5)
1994	\$0	\$0	\$0	\$0	\$0
1995	0	0	0	0	0
1996	0	0	0	0	0
1997	0	0	0	0	0
1998	0	0	0	0	0
1999	1	0	1	1	0
2000	0	0	0	0	0
2001	0	0	0	0	0
2002	0	0	0	0	0
2003	0	0	0	0	0
2004	0	0	0	0	0
2005	0	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	1	0	1	1	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
TOTAL	\$1	\$0	\$1	\$1	\$0

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
Jacksonville Aviation Authority
(SAMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED			LOSS RATE
	ULTIMATE LOSSES	RETENTION LIMIT	PAYROLL	
	(1)	(2)	(3)	(4)
1994	\$0	\$1,000	N/A	N/A
1995	0	1,000	N/A	N/A
1996	0	1,000	6,297	0.0000
1997	0	1,000	6,469	0.0000
1998	0	1,000	7,075	0.0000
1999	1	1,000	7,350	0.0001
2000	0	1,000	8,143	0.0000
2001	0	1,000	8,386	0.0000
2002	0	1,000	6,824	0.0000
2003	0	1,200	11,847	0.0000
2004	0	5,000	10,748	0.0000
2005	0	5,000	12,738	0.0000
2006	0	5,000	13,468	0.0000
2007	0	5,000	12,844	0.0000
2008	0	5,000	12,099	0.0000
2009	1	5,000	12,724	0.0001
2010	0	5,000	11,703	0.0000
2011	0	5,000	13,134	0.0000
2012	0	various**	13,387	0.0000
2013	0	various**	13,387	0.0000
2014	0	1,500	15,119	0.0000
2015	0	1,500	15,474	0.0000
2016	0	1,500	18,012	0.0000
2017	0	1,500	19,206	0.0000
2018	0	1,500	18,479	0.0000
(PROJ.) 2018/2019	\$0	1,500	18,849	0.0000
(PROJ.) 2019/2020	0	1,500	19,226	0.0000
(PROJ.) 2020/2021	0	1,500	19,610	0.0000
(PROJ.) 2021/2022	0	1,500	20,003	0.0000
(PROJ.) 2022/2023	0	1,500	20,403	0.0000
(PROJ.) 2023/2024	0	1,500	20,811	0.0000
(PROJ.) 2024/2025	0	1,500	21,227	0.0000
(PROJ.) 2025/2026	0	1,500	21,651	0.0000
(PROJ.) 2026/2027	0	1,500	22,085	0.0000
(PROJ.) 2027/2028	0	1,500	22,526	0.0000

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55%	70%	75%	80%	85%	90%
	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL	LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$0	\$0	\$0	\$0	\$0	\$0
2019/2020	\$0	\$0	\$0	\$0	\$0	\$0

Notes:

(1) - Exhibit VII-H, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the average of prior 5 years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

**retention limits for AYs 2012 to 2013

GL-Group A - 2,500,000

GL-Group B - 5,000,000

GL Fungi/Bacteria - 5,000,000

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
GENERAL LIABILITY
Jacksonville Aviation Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	24.4%	43.4%	62.8%	80.1%	86.5%	93.2%	95.7%	96.5%	97.2%	97.9%	98.5%
INCREMENTAL LOSS PAYOUT PATTERN	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		25.0%	25.7%	22.9%	8.5%	8.8%	3.3%	1.0%	1.0%	0.9%	0.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	24.4%	18.9%	19.4%	17.3%	6.4%	6.7%	2.5%	0.8%	0.8%	0.7%	0.6%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$49	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	1	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	1	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
GENERAL LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$0
2. Loss payments during 2018 for accident years 2017 and prior	\$0
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$0
4. Estimated ultimate losses for accident year 2018.	\$0
5. Loss payments during 2018 for accident year 2018.	\$0
6. Estimated net undiscounted reserves at 9/30/2018	\$0

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VII-H, Page 3C, Column (3).
- (3) - Total from Exhibit VII-H, Page 3B, Column (3).
- (4) - See Exhibit VII-H, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
GENERAL LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	1	1	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	1	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0
2016	0	0	0
2017	0	0	0
TOTAL	\$1	\$1	0

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VII-H, Page 1 of ,3 Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
 AS OF SEPTEMBER 30, 2018
 COMPARISON OF PAID LOSSES
 AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
 GENERAL LIABILITY
 Jacksonville Aviation Authority
 (\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	1	1	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	1	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0
2016	0	0	0
2017	0	0	0
TOTAL	\$1	\$1	0

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Exhibit VII-H, Page 1 of 3, Column (1).
- (3) = (2) - (1).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ILDA ULTIMATE LOSSES	PLDA ULTIMATE LOSSES	BFILA ULTIMATE LOSSES	BFPLA ULTIMATE LOSSES	SELECTED ULTIMATE LOSSES	PAID LOSSES @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	\$1,028	\$1,028	\$1,028	\$1,028	\$1,028	\$1,028	\$0
1995	1,483	1,483	1,483	1,483	1,483	1,483	0
1996	1,074	1,074	1,074	1,074	1,074	1,074	0
1997	1,081	1,081	1,081	1,081	1,081	1,081	0
1998	856	856	856	856	856	856	0
1999	1,291	1,291	1,291	1,291	1,291	1,291	0
2000	1,105	1,105	1,105	1,105	1,105	1,105	0
2001	1,619	1,619	1,619	1,619	1,619	1,619	0
2002	1,457	1,457	1,457	1,457	1,457	1,457	0
2003	950	950	950	950	950	950	0
2004	1,393	1,393	1,393	1,393	1,393	1,393	0
2005	2,361	2,361	2,361	2,361	2,361	2,361	0
2006	1,481	1,481	1,481	1,481	1,481	1,481	0
2007	1,038	1,038	1,038	1,038	1,038	1,038	0
2008	1,627	1,627	1,627	1,627	1,627	1,617	11
2009	2,022	2,022	2,022	2,022	2,022	2,022	0
2010	1,332	1,332	1,332	1,332	1,332	1,313	18
2011	1,637	1,637	1,637	1,637	1,637	1,620	17
2012	1,687	1,687	1,687	1,687	1,687	1,679	7
2013	1,556	1,569	1,556	1,570	1,556	1,556	0
2014	2,761	2,741	2,755	2,741	2,749	2,571	178
2015	1,970	1,917	1,967	1,916	1,942	1,719	223
2016	1,698	1,588	1,738	1,708	1,683	1,189	494
2017	2,223	2,137	2,200	2,121	2,170	1,100	1,070
2018	2,280	2,225	2,221	2,252	2,244	435	1,809
TOTAL	\$39,011	\$38,701	\$38,959	\$38,831	\$38,869	\$35,041	\$3,828

Notes:

(1), (2), (3) & (4) - Ultimate incurred losses calculated from Exhibit VIII, Pages 2 and 3.

(5) = Selected based on (1), (2), (3) & (4).

(6) - Per CITY OF JACKSONVILLE.

(7) = (5) - (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	INCURRED LOSSES @9/30/2018	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	VEHICLE COUNT	ESTIMATED LOSS RATE
	(1)	(2)	(3)	(4)	(5)
1994	\$1,028	1.000	\$1,028	4,832	
1995	1,483	1.000	1,483	4,457	
1996	1,074	1.000	1,074	3,605	
1997	1,081	1.000	1,081	3,521	
1998	856	1.000	856	4,367	
1999	1,291	1.000	1,291	4,522	
2000	1,105	1.000	1,105	4,783	
2001	1,619	1.000	1,619	4,651	
2002	1,457	1.000	1,457	4,505	
2003	950	1.000	950	4,680	
2004	1,393	1.000	1,393	4,599	0.303
2005	2,361	1.000	2,361	4,821	0.490
2006	1,481	1.000	1,481	5,110	0.290
2007	1,038	1.000	1,038	5,187	0.200
2008	1,627	1.000	1,627	5,068	0.321
2009	2,022	1.000	2,022	5,086	0.397
2010	1,332	1.000	1,332	4,943	0.269
2011	1,637	1.000	1,637	4,960	0.330
2012	1,687	1.000	1,687	4,660	0.362
2013	1,556	1.000	1,556	4,792	0.325
2014	2,741	1.007	2,761	5,028	0.549
2015	1,879	1.048	1,970	4,928	0.400
2016	1,513	1.122	1,698	5,246	0.324
2017	1,790	1.241	2,223	5,264	0.422
2018	1,316		2,280	5,646	0.404
TOTAL	\$37,319		\$39,011		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	PAID LOSSES @9/30/2018	LOSS DEVELOPMENT FACTORS	ULTIMATE INCURRED LOSSES	VEHICLE COUNT	ESTIMATED LOSS RATE
	(6)	(7)	(8)	(9)	(10)
1994	\$1,028	1.000	\$1,028	\$4,832	
1995	1,483	1.000	1,483	4,457	
1996	1,074	1.000	1,074	3,605	
1997	1,081	1.000	1,081	3,521	
1998	856	1.000	856	4,367	
1999	1,291	1.000	1,291	4,522	
2000	1,105	1.000	1,105	4,783	
2001	1,619	1.000	1,619	4,651	
2002	1,457	1.000	1,457	4,505	
2003	950	1.000	950	4,680	
2004	1,393	1.000	1,393	4,599	0.303
2005	2,361	1.000	2,361	4,821	0.490
2006	1,481	1.000	1,481	5,110	0.290
2007	1,038	1.000	1,038	5,187	0.200
2008	1,617	1.000	1,627	5,068	0.321
2009	2,022	1.000	2,022	5,086	0.397
2010	1,313	1.000	1,332	4,943	0.269
2011	1,620	1.000	1,637	4,960	0.330
2012	1,679	1.002	1,687	4,660	0.362
2013	1,556	1.008	1,569	4,792	0.327
2014	2,571	1.040	2,741	5,028	0.545
2015	1,719	1.115	1,917	4,928	0.389
2016	1,189	1.336	1,588	5,246	0.303
2017	1,100	1.942	2,137	5,264	0.406
2018	435		2,225	5,646	0.394
TOTAL	\$35,041		\$38,701		

Notes:

(1), (4), (6) & (9) - Per CITY OF JACKSONVILLE.

(2) & (7) - Per City's historical loss patterns.

(3) = (1) x (2); (8) = (6) x (7). If ultimate incurred losses in (8) are less than the incurred losses in (1), we used the losses in (1).

For the most recent year, we used the Loss Rate Approach.

(5) = (3) / (4), (10) = (8) / (9). For the most recent year, it is the average of prior years.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	VEHICLE COUNT	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	INCURRED LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	0.278	\$4,832		0.0%	\$0	\$1,028	\$1,028
1995	0.278	4,457		0.0%	0	1,483	1,483
1996	0.278	3,605		0.0%	0	1,074	1,074
1997	0.278	3,521		0.0%	0	1,081	1,081
1998	0.278	4,367		0.0%	0	856	856
1999	0.278	4,522		0.0%	0	1,291	1,291
2000	0.278	4,783		0.0%	0	1,105	1,105
2001	0.285	4,651		0.0%	0	1,619	1,619
2002	0.291	4,505		0.0%	0	1,457	1,457
2003	0.298	4,680		0.0%	0	950	950
2004	0.304	4,599	1,398	0.0%	0	1,393	1,393
2005	0.310	4,821	1,496	0.0%	0	2,361	2,361
2006	0.317	5,110	1,619	0.0%	0	1,481	1,481
2007	0.323	5,187	1,676	0.0%	0	1,038	1,038
2008	0.330	5,068	1,670	0.0%	0	1,627	1,627
2009	0.336	5,086	1,709	0.0%	0	2,022	2,022
2010	0.342	4,943	1,693	0.0%	0	1,332	1,332
2011	0.349	4,960	1,730	0.0%	0	1,637	1,637
2012	0.367	4,660	1,708	0.0%	0	1,687	1,687
2013	0.373	4,792	1,788	0.0%	0	1,556	1,556
2014	0.380	5,028	1,909	0.7%	14	2,741	2,755
2015	0.386	4,928	1,904	4.6%	88	1,879	1,967
2016	0.393	5,246	2,062	10.9%	225	1,513	1,738
2017	0.400	5,264	2,104	19.4%	409	1,790	2,200
2018	0.406	5,646	2,294	39.4%	904	1,316	2,221
TOTAL					\$1,640	\$37,319	\$38,959

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	VEHICLE COUNT	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	PAID LOSSES @9/30/2018	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1994	0.278	4,832		0.0%	0	\$1,028	\$1,028
1995	0.278	4,457		0.0%	0	1,483	1,483
1996	0.278	3,605		0.0%	0	1,074	1,074
1997	0.278	3,521		0.0%	0	1,081	1,081
1998	0.278	4,367		0.0%	0	856	856
1999	0.278	4,522		0.0%	0	1,291	1,291
2000	0.278	4,783		0.0%	0	1,105	1,105
2001	0.285	4,651		0.0%	0	1,619	1,619
2002	0.291	4,505		0.0%	0	1,457	1,457
2003	0.298	4,680		0.0%	0	950	950
2004	0.304	4,599	1,398	0.0%	0	1,393	1,393
2005	0.310	4,821	1,496	0.0%	0	2,361	2,361
2006	0.317	5,110	1,619	0.0%	0	1,481	1,481
2007	0.323	5,187	1,676	0.0%	0	1,038	1,038
2008	0.330	5,068	1,670	0.0%	0	1,617	1,627
2009	0.336	5,086	1,709	0.0%	0	2,022	2,022
2010	0.342	4,943	1,693	0.0%	0	1,313	1,332
2011	0.349	4,960	1,730	0.0%	0	1,620	1,637
2012	0.367	4,660	1,708	0.2%	3	1,679	1,687
2013	0.373	4,792	1,788	0.8%	15	1,556	1,570
2014	0.380	5,028	1,909	3.9%	74	2,571	2,741
2015	0.386	4,928	1,904	10.3%	196	1,719	1,916
2016	0.393	5,246	2,062	25.2%	519	1,189	1,708
2017	0.400	5,264	2,104	48.5%	1,020	1,100	2,121
2018	0.406	5,646	2,294	79.2%	1,817	435	2,252
TOTAL					\$3,645	\$35,041	\$38,831

Notes:

(2), (6), (9) & (13) - Per CITY OF JACKSONVILLE.

(1) & (8) - Exhibit VIII, Page 2, Columns (5) and (10). These Loss Rates are the selected based on Exhibit VIII Page 2 loss rates.

(3) = (1) x (2); (10) = (8) x (9).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(7) = (5) + (6); (14) = (12) + (13). If ultimate incurred losses in (14) are less than the incurred losses in (6), we used the incurred losses in (6).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
SELECTION OF INTIAL LOSS RATE FOR BORNHUTTER-FERGUSON APPROACHES
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT PERIODS	ULTIMATE LOSSES PER ILDA	ULTIMATE LOSSES PER PLDA	TORT LIMIT	ADJUSTMENT TO CURRENT RETENTION LIMIT	VEHICLE COUNT	LOSS RATE AT CURRENT RETENTION	FITTED LOSS RATE	SELECTED INITIAL LOSS RATE ACTUAL RETENTION
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2000	\$1,105	\$1,105	\$100k/\$200k	1.032	4,783	23.84%	28.71%	27.83%
2001	1,619	1,619	\$100k/\$200k	1.032	4,651	35.92%	29.37%	28.47%
2002	1,457	1,457	\$100k/\$200k	1.032	4,505	33.38%	30.03%	29.11%
2003	950	950	\$100k/\$200k	1.032	4,680	20.94%	30.69%	29.75%
2004	1,393	1,393	\$100k/\$200k	1.032	4,599	31.25%	31.36%	30.39%
2005	2,361	2,361	\$100k/\$200k	1.032	4,821	50.53%	32.02%	31.03%
2006	1,481	1,481	\$100k/\$200k	1.032	5,110	29.91%	32.68%	31.68%
2007	1,038	1,038	\$100k/\$200k	1.032	5,187	20.64%	33.34%	32.32%
2008	1,627	1,627	\$100k/\$200k	1.032	5,068	33.13%	34.00%	32.96%
2009	2,022	2,022	\$100k/\$200k	1.032	5,086	41.01%	34.67%	33.60%
2010	1,332	1,332	\$100k/\$200k	1.032	4,943	27.80%	35.33%	34.24%
2011	1,637	1,637	\$100k/\$200k	1.032	4,960	34.05%	35.99%	34.88%
2012	1,687	1,687	\$200k/\$300k	1.000	4,660	36.20%	36.65%	36.65%
2013	1,556	1,569	\$200k/\$300k	1.000	4,792	32.60%	37.31%	37.31%
2014	2,761	2,741	\$200k/\$300k	1.000	5,028	54.71%	37.98%	37.98%
2015	1,970	1,917	\$200k/\$300k	1.000	4,928	39.44%	38.64%	38.64%
2016	1,698	1,588	\$200k/\$300k	1.000	5,246	31.32%	39.30%	39.30%
2017	2,223	2,137	\$200k/\$300k	1.000	5,264	41.41%	39.96%	39.96%
2018	2,280	2,225	\$200k/\$300k	1.000	5,646	39.90%	40.62%	40.62%
2019				1.000	5,759		41.29%	41.29%

Average	34.63%
Weighted Average	34.71%
Selected	based on fitted

Notes:

- (1) - Per Exhibit VIII, Page 2, Column (3).
- (1) - Per Exhibit VIII, Page 2, Column (8).
- (3) & (5) - Per CITY OF JACKSONVILLE.
- (4) & (7) - Per AMI calculation.
- (6) = [Average of (1) & (2)] x [(4)/(5)].
- (8) = (7)/(4).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	12	24	36	48	60	72	84	96	108	120	132	144	
1994													1,029
1995													1,513
1996										1,074			1,074
1997									1,081	1,081	1,081		1,081
1998								856	856	856	856		856
1999							1,291	1,291	1,291	1,291	1,291		1,291
2000						1,189	1,112	1,108	1,108	1,105	1,105		1,105
2001					1,625	1,616	1,619	1,619	1,619	1,619	1,640		1,631
2002				1,562	1,544	1,460	1,457	1,457	1,457	1,457	1,468		1,468
2003			1,117	1,088	1,112	1,152	1,152	1,152	1,152	1,158	956		956
2004		1,382	1,392	1,569	1,434	1,428	1,428	1,428	1,491	1,457	1,457		1,457
2005	1,361	1,985	2,024	2,638	2,685	2,643	2,593	2,619	2,388	2,388	2,388		2,388
2006	1,132	1,320	1,606	1,478	1,500	1,485	1,503	1,499	1,499	1,499	1,499		1,499
2007	882	976	1,034	1,053	1,067	1,062	1,048	1,048	1,048	1,048	1,048		1,048
2008	1,250	1,666	1,513	1,602	1,633	1,667	1,627	1,632	1,632	1,632	1,632		1,632
2009	1,301	1,726	1,884	2,010	2,163	2,087	2,087	2,054	2,054	2,054			
2010	753	1,184	1,151	1,291	1,349	1,338	1,338	1,338	1,338				
2011	1,005	1,321	1,665	1,638	1,633	1,651	1,651	1,651					
2012	1,165	1,466	1,811	1,895	1,910	1,733	1,696						
2013	922	1,229	1,173	1,302	1,414	1,561							
2014	1,743	2,028	2,410	2,657	2,745								
2015	1,079	1,703	1,814	1,881									
2016	1,158	1,373	1,531										
2017	1,225	1,806											
2018	1,319												

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
1994													1.000
1995													1.000
1996										1.000	1.000		1.000
1997										1.000	1.000	1.000	1.000
1998									1.000	1.000	1.000	1.000	1.000
1999							1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000						0.935	0.996	1.000	0.997	1.000	1.000	1.000	1.008
2001					0.994	1.002	1.000	1.000	1.000	1.013	0.995	1.000	1.000
2002				0.988	0.946	0.998	1.000	1.000	1.000	1.008	1.000	1.000	1.000
2003			0.974	1.022	1.036	1.000	1.000	1.000	1.005	0.826	1.000	1.000	1.000
2004		1.007	1.127	0.914	0.996	1.000	1.000	1.044	0.977	1.000	1.000	1.000	1.000
2005	1.458	1.020	1.303	1.018	0.984	0.981	1.010	0.912	1.000	1.000	1.000	1.000	1.000
2006	1.166	1.217	0.920	1.015	0.990	1.012	0.998	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.107	1.059	1.018	1.013	0.995	0.987	1.000	1.000	1.000	1.000	1.000		
2008	1.333	0.908	1.059	1.019	1.021	0.976	1.003	1.000	1.000	1.000			
2009	1.327	1.092	1.067	1.076	0.965	1.000	0.984	1.000	1.000				
2010	1.572	0.972	1.122	1.045	0.992	1.000	1.000	1.000					
2011	1.314	1.260	0.984	0.997	1.011	1.000	1.000						
2012	1.259	1.235	1.046	1.008	0.907	0.979							
2013	1.333	0.955	1.109	1.087	1.104								
2014	1.163	1.188	1.102	1.033									
2015	1.578	1.065	1.037										
2016	1.186	1.115											
2017	1.474												
AVERAGE	1.328	1.084	1.067	1.018	0.995	0.990	0.999	0.997	0.998	0.988	1.000	1.001	
3 YR AVG.	1.413	1.123	1.083	1.043	1.007	0.993	0.995	1.000	1.000	1.000	1.000	1.000	
EXCL HI LO	1.326	1.084	1.059	1.021	0.994	0.993	1.000	1.000	1.000	1.001	1.000	1.000	
5 YR AVG X HI/LO	1.331	1.123	1.062	1.029	0.989	0.993	1.000	1.000	1.000	1.000	1.000	1.000	
PRIOR SELECTED (9/30/2017)	1.328	1.106	1.071	1.042	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
SELECTED	1.330	1.106	1.071	1.041	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.651	1.241	1.122	1.048	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	156	168	180	192	204	216	228	240	252	264	276	288	300
1994	1,029	1,029	1,029	1,029	1,029	1,029	1,035	1,035	1,035	1,035	1,035	1,035	1,035
1995	1,513	1,513	1,513	1,513	1,513	1,518	1,488	1,488	1,488	1,488	1,488	1,488	1,488
1996	1,074	1,074	1,074	1,074	1,079	1,079	1,079	1,079	1,079	1,079	1,079	1,079	1,079
1997	1,081	1,081	1,081	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
1998	856	856	861	861	861	861	861	861	861	861	861	861	861
1999	1,291	1,293	1,293	1,293	1,293	1,293	1,293	1,293	1,293	1,293	1,293	1,293	1,293
2000	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114	1,114
2001	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631	1,631
2002	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468
2003	956	956	956	956	956	956	956	956	956	956	956	956	956
2004	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457
2005	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388
2006	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499	1,499
2007													
2008													
2009													
2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
2018													

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	ULT.
1994	1.000	1.000	1.000	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.003	0.980	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	1.000	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.000	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AVERAGE	1.000	1.001	1.001	1.001	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												1,029
1995											1,513	1,513
1996										1,074	1,074	1,074
1997									1,081	1,081	1,081	1,081
1998								856	856	856	856	856
1999							1,291	1,291	1,291	1,291	1,291	1,291
2000						1,041	1,103	1,108	1,108	1,108	1,105	1,105
2001					1,596	1,592	1,619	1,619	1,619	1,619	1,619	1,631
2002				1,215	1,370	1,451	1,457	1,457	1,457	1,457	1,468	1,468
2003			986	1,046	1,078	1,152	1,152	1,152	1,152	1,158	956	956
2004		693	1,155	1,396	1,427	1,428	1,428	1,428	1,491	1,457	1,457	1,457
2005	520	812	1,396	1,783	2,378	2,553	2,592	2,618	2,388	2,388	2,388	2,388
2006	471	845	1,325	1,459	1,470	1,485	1,503	1,499	1,499	1,499	1,499	1,499
2007	379	636	769	1,013	1,027	1,062	1,048	1,048	1,048	1,048	1,048	1,048
2008	537	866	1,331	1,535	1,566	1,615	1,615	1,615	1,617	1,617	1,621	
2009	366	1,032	1,506	1,567	1,902	2,033	2,033	2,054	2,054			
2010	315	826	974	1,218	1,310	1,319	1,319	1,319	1,320			
2011	376	890	1,371	1,623	1,633	1,633	1,633	1,634				
2012	452	843	1,274	1,577	1,638	1,650	1,689					
2013	390	692	972	1,155	1,347	1,561						
2014	611	1,314	1,714	2,377	2,576							
2015	407	1,441	1,561	1,721								
2016	432	940	1,206									
2017	349	1,116										
2018	438											

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156
1994												1.000
1995											1.000	1.000
1996										1.000	1.000	1.000
1997									1.000	1.000	1.000	1.000
1998								1.000	1.000	1.000	1.000	1.000
1999							1.000	1.000	1.000	1.000	1.000	1.000
2000						1.060	1.005	1.000	0.997	1.000	1.000	1.008
2001					0.997	1.017	1.000	1.000	1.000	1.000	1.007	1.000
2002				1.128	1.059	1.004	1.000	1.000	1.000	1.008	1.000	1.000
2003			1.061	1.031	1.069	1.000	1.000	1.000	1.005	0.826	1.000	1.000
2004		1.667	1.209	1.022	1.001	1.000	1.000	1.044	0.977	1.000	1.000	1.000
2005	1.562	1.719	1.277	1.334	1.074	1.015	1.010	0.912	1.000	1.000	1.000	1.000
2006	1.794	1.568	1.101	1.008	1.010	1.012	0.998	1.000	1.000	1.000	1.000	1.000
2007	1.678	1.209	1.317	1.014	1.034	0.987	1.000	1.000	1.000	1.000	1.000	
2008	1.613	1.537	1.153	1.020	1.031	1.000	1.000	1.001	1.000	1.002		
2009	2.820	1.459	1.041	1.214	1.069	1.000	1.011	1.000	1.000			
2010	2.622	1.179	1.250	1.076	1.007	1.000	1.000					
2011	2.367	1.540	1.184	1.006	1.000	1.000	1.001					
2012	1.866	1.511	1.237	1.039	1.007	1.024						
2013	1.775	1.405	1.188	1.167	1.159							
2014	2.152	1.304	1.387	1.083								
2015	3.542	1.083	1.102									
2016	2.176	1.284										
2017	3.201											
AVERAGE	2.244	1.420	1.193	1.088	1.040	1.009	1.002	0.997	0.998	0.987	1.001	1.001
3 YR AVG.	2.973	1.224	1.226	1.096	1.055	1.008	1.004	1.000	1.000	1.001	1.000	1.000
EXCL HI LO	2.188	1.424	1.189	1.073	1.033	1.007	1.001	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	2.510	1.331	1.203	1.066	1.028	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	2.235	1.465	1.198	1.071	1.031	1.006	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	2.478	1.453	1.199	1.072	1.032	1.006	1.002	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	4.813	1.942	1.336	1.115	1.040	1.008	1.002	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
UNLIMITED LOSSES

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	156	168	180	192	204	216	228	240	252	264	276	288	300
1994	1,029	1,029	1,029	1,029	1,029	1,029	1,035	1,035	1,035	1,035	1,035	1,035	1,035
1995	1,513	1,513	1,513	1,513	1,513	1,518	1,488	1,488	1,488	1,488	1,488	1,488	
1996	1,074	1,074	1,074	1,074	1,079	1,079	1,079	1,079	1,079	1,079	1,079		
1997	1,081	1,081	1,081	1,086	1,086	1,086	1,086	1,086	1,086	1,086			
1998	856	856	861	861	861	861	861	861	861				
1999	1,291	1,293	1,293	1,293	1,293	1,293	1,293	1,293					
2000	1,114	1,114	1,114	1,114	1,114	1,114	1,114						
2001	1,631	1,631	1,631	1,631	1,631	1,631							
2002	1,468	1,468	1,468	1,468	1,468								
2003	956	956	956	956									
2004	1,457	1,457	1,457										
2005	2,388	2,388											
2006	1,499												
2007													
2008													
2009													
2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
2018													

LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	ULT.
1994	1.000	1.000	1.000	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	1.000	1.000	1.003	0.980	1.000	1.000	1.000	1.000	1.000	1.000	
1996	1.000	1.000	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000			
1997	1.000	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000				
1998	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000					
1999	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
2000	1.000	1.000	1.000	1.000	1.000	1.000							
2001	1.000	1.000	1.000	1.000	1.000								
2002	1.000	1.000	1.000	1.000									
2003	1.000	1.000	1.000										
2004	1.000	1.000											
2005	1.000												
2006													
2007													
2008													
2009													
2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
AVERAGE	1.000	1.001	1.001	1.001	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE REPORTED CLAIM COUNT DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994	384	393	394	394	394	394	394	394	394	394	394	394
1995	356	375	376	378	378	378	378	378	378	378	378	378
1996	379	390	391	391	391	391	391	391	391	391	391	391
1997	343	357	358	359	359	359	359	359	359	359	359	359
1998	338	346	346	348	348	348	348	348	348	348	348	348
1999	314	326	326	326	326	326	326	326	326	326	326	326
2000	304	313	316	318	319	319	319	319	319	319	319	319
2001	361	373	379	379	379	379	379	379	379	379	379	379
2002	329	339	339	340	340	340	340	340	340	340	340	339
2003	360	377	380	382	382	382	382	382	382	382	381	381
2004	339	358	358	358	358	358	358	358	358	347	347	348
2005	411	436	437	437	437	437	437	437	423	423	430	430
2006	320	333	333	333	333	333	333	333	333	335	335	335
2007	255	264	265	265	265	265	260	260	267	267	267	267
2008	280	280	280	280	280	273	273	278	278	278	278	278
2009	216	217	217	217	220	220	221	221	221	221		
2010	204	205	205	213	213	216	216	216	216			
2011	175	178	210	211	213	213	213	213				
2012	183	198	201	202	203	204	204					
2013	174	186	190	191	191	191						
2014	179	207	210	211	211							
2015	191	215	215	217								
2016	241	266	267									
2017	311	340										
2018	288											

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
	TO 24	TO 36	TO 48	TO 60	TO 72	TO 84	TO 96	TO 108	TO 120	TO 132	TO 144	TO 156
1994	1.023	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.053	1.003	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.029	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	1.041	1.003	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998	1.024	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999	1.038	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000	1.030	1.010	1.006	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001	1.033	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.003
2002	1.030	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.997	1.000
2003	1.047	1.008	1.005	1.000	1.000	1.000	1.000	1.000	1.000	0.997	1.000	1.005
2004	1.056	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.969	1.000	1.003	1.000
2005	1.061	1.002	1.000	1.000	1.000	1.000	1.000	0.968	1.000	1.017	1.000	1.000
2006	1.041	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.006	1.000	1.000	1.000
2007	1.035	1.004	1.000	1.000	1.000	0.981	1.000	1.027	1.000	1.000	1.000	
2008	1.000	1.000	1.000	1.000	0.975	1.000	1.018	1.000	1.000	1.000		
2009	1.005	1.000	1.000	1.014	1.000	1.005	1.000	1.000	1.000			
2010	1.005	1.000	1.039	1.000	1.014	1.000	1.000	1.000				
2011	1.017	1.180	1.005	1.009	1.000	1.000	1.000					
2012	1.082	1.015	1.005	1.005	1.005	1.000						
2013	1.069	1.022	1.005	1.000	1.000							
2014	1.156	1.014	1.005	1.000								
2015	1.126	1.000	1.009									
2016	1.104	1.004										
2017	1.093											
AVERAGE	1.050	1.012	1.004	1.001	1.000	0.999	1.001	1.000	0.998	1.001	1.000	1.001
3 YR AVG.	1.108	1.006	1.006	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.047	1.005	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG X HI/LO	1.108	1.011	1.005	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED (9/30/2017)	1.081	1.012	1.004	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.078	1.009	1.005	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.094	1.015	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF THE LOSS DEVELOPMENT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018**

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS												
	156	168	180	192	204	216	228	240	252	264	276	288	300
1994	394	394	394	394	394	394	394	393	393	393	393	395	395
1995	378	378	378	378	378	378	365	365	365	371	371	371	
1996	391	391	391	391	391	390	390	390	394	394	394		
1997	359	359	359	359	359	359	360	360	360	360			
1998	348	348	348	348	348	348	348	348	348				
1999	326	326	326	326	330	330	330	330					
2000	319	317	317	322	322	322							
2001	380	380	385	385	385	385							
2002	339	341	341	341	341								
2003	383	383	383	383									
2004	348	348	348										
2005	430	430											
2006	335												
2007													
2008													
2009													
2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
2018													

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	168	180	192	204	216	228	240	252	264	276	288	300	ULT.
1994	1.000	1.000	1.000	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.005	1.000	
1995	1.000	1.000	1.000	1.000	1.000	0.966	1.000	1.000	1.016	1.000	1.000		
1996	1.000	1.000	1.000	1.000	0.997	1.000	1.000	1.010	1.000	1.000			
1997	1.000	1.000	1.000	1.000	1.000	1.003	1.000	1.000	1.000				
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1999	1.000	1.000	1.000	1.012	1.000	1.000	1.000						
2000	0.994	1.000	1.016	1.000	1.000	1.000							
2001	1.000	1.013	1.000	1.000	1.000								
2002	1.006	1.000	1.000	1.000									
2003	1.000	1.000	1.000										
2004	1.000	1.000											
2005	1.000												
2006													
2007													
2008													
2009													
2010													
2011													
2012													
2013													
2014													
2015													
2016													
2017													
AVERAGE	1.000	1.001	1.002	1.001	1.000	0.996	1.000	1.002	1.004	1.000	1.003	1.000	
3 YR AVG.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.003	1.005	1.000			
EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 YR AVG X HI/LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
PRIOR SELECTED (9/30/2017)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
SELECTED	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

ACCIDENT YEARS*	CLAIMS REPORTED @9/30/2018	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSS	VEHICLE COUNT	NUMBER OF CLAIMS PER 1,000 VEHICLES (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	348	1.000	348	1,393	4,599	75.7	\$4,003
2005	430	1.000	430	2,361	4,821	89.2	5,491
2006	335	1.000	335	1,481	5,110	65.6	4,422
2007	267	1.000	267	1,038	5,187	51.5	3,887
2008	278	1.000	278	1,627	5,068	54.9	5,854
2009	221	1.000	221	2,022	5,086	43.5	9,148
2010	216	1.000	216	1,332	4,943	43.7	6,166
2011	213	1.000	213	1,637	4,960	42.9	7,685
2012	204	1.000	204	1,687	4,660	43.8	8,268
2013	191	1.000	191	1,556	4,792	39.9	8,146
2014	211	1.000	211	2,749	5,028	42.0	13,030
2015	217	1.001	217	1,942	4,928	44.1	8,938
2016	267	1.006	269	1,683	5,246	51.2	6,265
2017	340	1.015	345	2,170	5,264	65.5	6,289
2018	288	1.094	315	2,244	5,646	55.8	7,123
TOTAL	2,703		2,703	16,134			

Notes:

- (1) & (5) - Per CITY OF JACKSONVILLE.
- (2) - Per CITY OF JACKSONVILLE's historical loss patterns.
- (3) = (1) x (2). For the most recent year, we used the average of prior years.
- (4) = Exhibit VIII, Page 1, Column (5).
- (6) = [(3) / (5)] x 1000.
- (7) = [(4) / (3)] x 1000.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 9/30/2017	\$3,589
2. Loss payments during 2018 for accident years 2017 and prior	(\$1,634)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$63
4. Estimated ultimate losses for accident year 2018.	\$2,244
5. Loss payments during 2018 for accident year 2018.	(\$435)
6. Estimated net undiscounted reserves at 9/30/2018	\$3,828

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII, Page 7C, Column (3).
- (3) - Total from Exhibit VIII, Page 7B, Column (3).
- (4) - See Exhibit VIII, Page 1, Column (5), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$1,483	\$1,483	\$0
1996	1,074	1,074	0
1997	1,081	1,081	0
1998	856	856	0
1999	1,291	1,291	0
2000	1,105	1,105	0
2001	1,619	1,619	0
2002	1,457	1,457	0
2003	950	950	0
2004	1,393	1,393	0
2005	2,361	2,361	0
2006	1,481	1,481	0
2007	1,038	1,038	0
2008	1,627	1,627	0
2009	2,022	2,022	0
2010	1,332	1,332	0
2011	1,637	1,637	0
2012	1,725	1,687	(38)
2013	1,411	1,556	145
2014	2,700	2,749	49
2015	2,042	1,942	(100)
2016	1,798	1,683	(115)
2017	2,049	2,170	121
TOTAL	\$35,533	\$35,596	\$63

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII, Page 1, Column (5).

(3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017 (1)	@9/30/2018 (2)	
1995	\$1,483	\$1,483	\$0
1996	1,074	1,074	0
1997	1,081	1,081	0
1998	856	856	0
1999	1,291	1,291	0
2000	1,105	1,105	0
2001	1,619	1,619	0
2002	1,457	1,457	0
2003	950	950	0
2004	1,393	1,393	0
2005	2,361	2,361	0
2006	1,481	1,481	0
2007	1,038	1,038	0
2008	1,613	1,617	4
2009	2,022	2,022	0
2010	1,313	1,313	0
2011	1,619	1,620	1
2012	1,641	1,679	38
2013	1,343	1,556	213
2014	2,373	2,571	198
2015	1,560	1,719	159
2016	922	1,189	267
2017	347	1,100	753
TOTAL	\$31,944	\$33,577	\$1,634

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Exhibit VIII, Page 1, Column (6).
- (3) = (2) - (1).

*Accident years prior to 2015 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
City of Jacksonville - Other Than Sheriff and Fire Claims
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$289	\$0	\$289	\$289	\$0
1995	607	0	607	607	0
1996	161	0	161	161	0
1997	217	0	217	217	0
1998	76	0	76	76	0
1999	103	0	103	103	0
2000	257	0	257	257	0
2001	225	0	225	225	0
2002	157	0	157	157	0
2003	187	0	187	187	0
2004	333	0	333	333	0
2005	486	0	486	486	0
2006	422	0	422	422	0
2007	79	0	79	79	0
2008	109	0	109	109	0
2009	306	0	306	306	0
2010	252	0	252	252	0
2011	345	0	345	345	0
2012	202	0	202	202	0
2013	254	0	254	254	0
2014	417	82	499	503	86
2015	157	0	157	157	0
2016	282	25	307	321	38
2017	103	111	214	275	173
2018	66	128	194	328	262
TOTAL	\$6,091	\$346	\$6,437	\$6,650	\$559

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
City of Jacksonville - Other Than Sheriff and Fire Claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$289	\$1,000	N/A	N/A
1995	607	1,000	N/A	N/A
1996	161	1,000	872	0.1841
1997	217	1,000	865	0.2507
1998	76	1,000	1,092	0.0700
1999	103	1,000	1,131	0.0912
2000	257	1,000	1,214	0.2117
2001	225	1,000	1,156	0.1947
2002	157	1,000	1,131	0.1384
2003	187	1,200	1,149	0.1629
2004	333	1,200	1,124	0.2966
2005	486	1,200	1,220	0.3982
2006	422	1,200	1,294	0.3263
2007	79	1,200	1,334	0.0594
2008	109	1,200	1,301	0.0838
2009	306	1,200	1,318	0.2321
2010	252	1,200	1,275	0.1978
2011	345	1,200	1,304	0.2645
2012	202	1,200	1,172	0.1721
2013	254	1,200	1,245	0.2040
2014	503	1,500	1,331	0.3780
2015	157	1,500	1,225	0.1282
2016	321	1,500	1,410	0.2274
2017	275	1,500	1,429	0.1925
2018	328	1,500	1,677	0.1956
<i>(PROJ.) 2018/2019</i>	318	1,500	1,711	0.1859
<i>(PROJ.) 2019/2020</i>	331	1,500	1,745	0.1896
<i>(PROJ.) 2020/2021</i>	344	1,500	1,780	0.1934
<i>(PROJ.) 2021/2022</i>	358	1,500	1,815	0.1973
<i>(PROJ.) 2022/2023</i>	373	1,500	1,852	0.2012
<i>(PROJ.) 2023/2024</i>	388	1,500	1,889	0.2053
<i>(PROJ.) 2024/2025</i>	403	1,500	1,926	0.2094
<i>(PROJ.) 2025/2026</i>	420	1,500	1,965	0.2136
<i>(PROJ.) 2026/2027</i>	437	1,500	2,004	0.2178
<i>(PROJ.) 2027/2028</i>	454	1,500	2,044	0.2222

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$318	\$368	\$387	\$409	\$436	\$476
2019/2020	331	383	403	425	454	495

Notes:

- (1) - Exhibit VIII-A, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
City of Jacksonville - Other Than Sheriff and Fire Claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING											
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT	
1993 and Prior	\$2,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	289	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	607	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	161	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	217	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	76	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	103	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	257	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	225	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	157	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	187	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	333	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	486	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	422	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	79	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	109	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	306	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	252	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	345	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	202	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	254	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	503	86	68	14	5	0	0	0	0	0	0	0	0	0
2015	157	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	321	38	23	10	5	1	0	0	0	0	0	0	0	0
2017	275	173	84	53	23	11	2	1	0	0	0	0	0	0
2018	328	262	96	81	50	22	10	2	1	0	0	0	0	0
2019	318		73	90	76	47	20	9	2	1	0	0	0	0
2020	331			76	94	79	49	21	10	2	1	0	0	0
2021	344				79	97	82	51	22	10	2	1	0	0
2022	358					82	101	85	53	23	11	2	1	1
2023	373						85	106	89	55	24	11	3	3
2024	388							89	110	92	58	25	15	15
2025	403								92	114	96	60	41	41
2026	420									96	119	100	105	105
2027	437										100	124	213	213
2028	454											104	350	350
TOTAL	\$13,077	\$559	\$343	\$323	\$330	\$338	\$351	\$364	\$378	\$394	\$410	\$426	\$728	\$728

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
City of Jacksonville - including Fire and Sheriff
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$609
2. Loss payments during 2018 for accident years 2017 and prior	(\$324)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$12
4. Estimated ultimate losses for accident year 2018	\$328
5. Loss payments during 2018 for accident year 2018	(\$66)
6. Estimated net undiscounted reserves at 9/30/2018	\$559

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-A, Page 7C, Column (3).
- (3) - Total from Exhibit VIII-A, Page 7B, Column (3).
- (4) - See Exhibit VIII-A, Page 1, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - including Fire and Sheriff
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$607	\$607	\$0
1996	161	161	0
1997	218	217	(1)
1998	77	76	(1)
1999	103	103	0
2000	257	257	0
2001	225	225	0
2002	157	157	0
2003	187	187	0
2004	335	333	(1)
2005	486	486	(1)
2006	423	422	(1)
2007	82	79	(3)
2008	109	109	0
2009	306	306	0
2010	252	252	0
2011	345	345	0
2012	198	202	3
2013	254	254	0
2014	490	503	13
2015	161	157	(4)
2016	360	321	(39)
2017	228	275	47
TOTAL	\$6,021	\$6,033	\$12

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-A, Column (4) of Pages 1.

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - including Fire and Sheriff
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$607	\$607	\$0
1996	161	161	0
1997	218	217	(1)
1998	77	76	(1)
1999	103	103	0
2000	257	257	0
2001	225	225	0
2002	157	157	0
2003	187	187	0
2004	335	333	(1)
2005	486	486	(1)
2006	423	422	(1)
2007	82	79	(3)
2008	109	109	0
2009	306	306	0
2010	252	252	0
2011	345	345	0
2012	163	202	39
2013	254	254	0
2014	304	417	112
2015	97	157	60
2016	205	282	77
2017	60	103	42
TOTAL	\$5,412	\$5,736	\$324

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Exhibit VIII-A, Page 1, Column (1).
- (3) = (2) - (1).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$594	\$0	\$594	\$594	\$0
1995	716	0	716	716	0
1996	666	0	666	666	0
1997	542	0	542	542	0
1998	391	0	391	391	0
1999	764	0	764	764	0
2000	407	0	407	407	0
2001	518	0	518	518	0
2002	458	0	458	458	0
2003	468	0	468	468	0
2004	532	0	532	532	0
2005	1,318	0	1,318	1,318	0
2006	389	0	389	389	0
2007	755	0	755	755	0
2008	874	0	874	874	0
2009	1,245	0	1,245	1,245	0
2010	514	18	532	532	18
2011	854	17	871	871	17
2012	917	7	924	924	7
2013	1,003	0	1,003	1,003	0
2014	1,238	82	1,320	1,324	86
2015	957	160	1,117	1,180	223
2016	601	179	780	874	273
2017	655	320	976	1,152	497
2018	168	400	568	989	821
TOTAL	\$17,546	\$1,184	\$18,729	\$19,488	\$1,942

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$594	\$1,000	N/A	N/A
1995	716	1,000	N/A	N/A
1996	666	1,000	1,311	0.5083
1997	542	1,000	1,300	0.4165
1998	391	1,000	1,641	0.2386
1999	764	1,000	1,700	0.4493
2000	407	1,000	1,824	0.2232
2001	518	1,000	1,737	0.2984
2002	458	1,000	1,699	0.2697
2003	468	1,200	1,727	0.2709
2004	532	1,200	1,689	0.3153
2005	1,318	1,200	1,833	0.7192
2006	389	1,200	1,944	0.2003
2007	755	1,200	2,005	0.3766
2008	874	1,200	1,955	0.4469
2009	1,245	1,200	1,981	0.6283
2010	532	1,200	1,915	0.2780
2011	871	1,200	1,959	0.4444
2012	924	1,200	1,760	0.5250
2013	1,003	1,200	1,870	0.5364
2014	1,324	1,500	2,000	0.6619
2015	1,180	1,500	2,000	0.5899
2016	874	1,500	2,000	0.4370
2017	1,152	1,500	2,000	0.5760
<i>(PROJ.) 2018/2019</i>	\$1,148	1,500	2,040	0.5629
<i>(PROJ.) 2019/2020</i>	1,195	1,500	2,081	0.5742
<i>(PROJ.) 2020/2021</i>	1,243	1,500	2,122	0.5857
<i>(PROJ.) 2021/2022</i>	1,293	1,500	2,165	0.5974
<i>(PROJ.) 2022/2023</i>	1,346	1,500	2,208	0.6093
<i>(PROJ.) 2023/2024</i>	1,400	1,500	2,252	0.6215
<i>(PROJ.) 2024/2025</i>	1,456	1,500	2,297	0.6340
<i>(PROJ.) 2025/2026</i>	1,515	1,500	2,343	0.6466
<i>(PROJ.) 2026/2027</i>	1,576	1,500	2,390	0.6596
<i>(PROJ.) 2027/2028</i>	1,640	1,500	2,438	0.6728

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$1,148	\$1,327	\$1,397	\$1,475	\$1,574	\$1,717
2019/2020	\$1,195	\$1,382	\$1,454	\$1,535	\$1,639	\$1,788

Notes:

- (1) - Exhibit VIII-B, Page 3, Column (4). For the projection years (1) = (3) x (4).
 - (2) & (3) - Per CITY OF JACKSONVILLE.
 - (4) = (1) / (3). For the projected year, it is the average of prior years.
 - (5) = Projected losses in Column (1).
 - (6) to (10) - Based on Monte Carlo Simulation Approach.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING											
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT	
1993 and Prior	\$4,712	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	594	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	716	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	666	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	542	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	391	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	764	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	407	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	518	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	458	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	468	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	532	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	1,318	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	389	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	755	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	874	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	1,245	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	532	18	18	0	0	0	0	0	0	0	0	0	0	0
2011	871	17	17	0	0	0	0	0	0	0	0	0	0	0
2012	924	7	7	0	0	0	0	0	0	0	0	0	0	0
2013	1,003	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	1,324	86	67	14	5	0	0	0	0	0	0	0	0	0
2015	1,180	223	140	65	14	4	0	0	0	0	0	0	0	0
2016	874	273	162	69	32	7	2	0	0	0	0	0	0	0
2017	1,152	497	242	151	65	30	6	2	0	0	0	0	0	0
2018	989	821	301	253	158	68	32	7	2	0	0	0	0	0
2019	1,148		263	325	273	171	73	34	7	2	0	0	0	0
2020	1,195			274	338	284	178	76	36	7	2	0	0	0
2021	1,243				285	352	296	185	79	37	8	2	0	0
2022	1,293					296	366	307	192	82	39	8	3	3
2023	1,346						308	381	320	200	86	40	11	11
2024	1,400							321	396	333	208	89	53	53
2025	1,456								334	412	346	216	148	148
2026	1,515									347	429	360	379	379
2027	1,576										361	446	769	769
2028	1,640											376	1,264	1,264
TOTAL	\$38,012	\$1,942	\$1,218	\$1,152	\$1,169	\$1,212	\$1,261	\$1,313	\$1,366	\$1,421	\$1,478	\$1,538	\$2,627	\$2,627

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$2,098
2. Loss payments during 2018 for accident years 2017 and prior	(\$931)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$46)
4. Estimated ultimate losses for accident year 2018.	\$989
5. Loss payments during 2018 for accident year 2018.	(\$168)
6. Estimated net undiscounted reserves at 9/30/2018	\$1,942

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-B, Page 3C, Column (3).
- (3) - Total from Exhibit VIII-B, Page 3B, Column (3).
- (4) - See Exhibit VIII-B, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$716	\$716	\$0
1996	666	666	0
1997	542	542	0
1998	391	391	0
1999	764	764	0
2000	407	407	0
2001	518	518	0
2002	458	458	0
2003	468	468	0
2004	532	532	0
2005	1,318	1,318	0
2006	389	389	0
2007	755	755	0
2008	874	874	0
2009	1,245	1,245	0
2010	532	532	0
2011	871	871	0
2012	965	924	(41)
2013	858	1,003	145
2014	1,320	1,324	4
2015	1,264	1,180	(84)
2016	936	874	(62)
2017	1,161	1,152	(9)
TOTAL	\$17,950	\$17,904	(\$46)

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-B, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - Sheriff Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$716	\$716	\$0
1996	666	666	0
1997	542	542	0
1998	391	391	0
1999	764	764	0
2000	407	407	0
2001	518	518	0
2002	458	458	0
2003	468	468	0
2004	532	532	0
2005	1,318	1,318	0
2006	389	389	0
2007	755	755	0
2008	874	874	0
2009	1,245	1,245	0
2010	514	514	0
2011	852	854	1
2012	918	917	(1)
2013	790	1,003	213
2014	1,237	1,238	1
2015	895	957	62
2016	441	601	161
2017	162	655	493
TOTAL	\$15,852	\$16,783	\$931

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-B, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$69	\$0	\$69	\$69	\$0
1995	73	0	73	73	0
1996	92	0	92	92	0
1997	119	0	119	119	0
1998	220	0	220	220	0
1999	180	0	180	180	0
2000	107	0	107	107	0
2001	348	0	348	348	0
2002	341	0	341	341	0
2003	100	0	100	100	0
2004	211	0	211	211	0
2005	286	0	286	286	0
2006	245	0	245	245	0
2007	41	0	41	41	0
2008	234	11	245	245	11
2009	380	0	380	380	0
2010	236	0	236	236	0
2011	129	0	129	129	0
2012	75	0	75	75	0
2013	122	0	122	122	0
2014	270	0	270	270	0
2015	507	0	507	507	0
2016	123	63	186	219	95
2017	197	133	330	403	206
2018	82	92	173	270	188
TOTAL	\$4,787	\$298	\$5,085	\$5,287	\$500

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$69	\$1,000	N/A	N/A
1995	73	1,000	N/A	N/A
1996	92	1,000	229	0.4017
1997	119	1,000	228	0.5220
1998	220	1,000	287	0.7668
1999	180	1,000	298	0.6049
2000	107	1,000	319	0.3345
2001	348	1,000	304	1.1460
2002	341	1,000	297	1.1471
2003	100	1,200	302	0.3315
2004	211	1,200	296	0.7156
2005	286	1,200	321	0.8922
2006	245	1,200	340	0.7197
2007	41	1,200	351	0.1158
2008	245	1,200	342	0.7154
2009	380	1,200	347	1.0950
2010	236	1,200	335	0.7027
2011	129	1,200	343	0.3768
2012	75	1,200	308	0.2421
2013	122	1,200	327	0.3733
2014	270	1,500	350	0.7724
2015	507	1,500	350	1.4488
2016	219	1,500	350	0.6245
2017	403	1,500	350	1.1521
2018	270	1,500	350	0.7710
<i>(PROJ.) 2018/2019</i>	\$303	\$1,500	357	0.8492
<i>(PROJ.) 2019/2020</i>	315	1,500	364	0.8662
<i>(PROJ.) 2020/2021</i>	328	1,500	371	0.8835
<i>(PROJ.) 2021/2022</i>	341	1,500	379	0.9011
<i>(PROJ.) 2022/2023</i>	355	1,500	386	0.9192
<i>(PROJ.) 2023/2024</i>	370	1,500	394	0.9376
<i>(PROJ.) 2024/2025</i>	384	1,500	402	0.9563
<i>(PROJ.) 2025/2026</i>	400	1,500	410	0.9754
<i>(PROJ.) 2026/2027</i>	416	1,500	418	0.9949
<i>(PROJ.) 2027/2028</i>	433	1,500	427	1.0148

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$303	\$350	\$369	\$389	\$415	\$453
2019/2020	315	364	383	405	432	471

Notes:

(1) - Exhibit VIII-C, Page 5, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the average of prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$1,169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	69	0	0	0	0	0	0	0	0	0	0	0	0
1995	73	0	0	0	0	0	0	0	0	0	0	0	0
1996	92	0	0	0	0	0	0	0	0	0	0	0	0
1997	119	0	0	0	0	0	0	0	0	0	0	0	0
1998	220	0	0	0	0	0	0	0	0	0	0	0	0
1999	180	0	0	0	0	0	0	0	0	0	0	0	0
2000	107	0	0	0	0	0	0	0	0	0	0	0	0
2001	348	0	0	0	0	0	0	0	0	0	0	0	0
2002	341	0	0	0	0	0	0	0	0	0	0	0	0
2003	100	0	0	0	0	0	0	0	0	0	0	0	0
2004	211	0	0	0	0	0	0	0	0	0	0	0	0
2005	286	0	0	0	0	0	0	0	0	0	0	0	0
2006	245	0	0	0	0	0	0	0	0	0	0	0	0
2007	41	0	0	0	0	0	0	0	0	0	0	0	0
2008	245	11	0	0	0	0	0	0	0	0	0	0	11
2009	380	0	0	0	0	0	0	0	0	0	0	0	0
2010	236	0	0	0	0	0	0	0	0	0	0	0	0
2011	129	0	0	0	0	0	0	0	0	0	0	0	0
2012	75	0	0	0	0	0	0	0	0	0	0	0	0
2013	122	0	0	0	0	0	0	0	0	0	0	0	0
2014	270	0	0	0	0	0	0	0	0	0	0	0	0
2015	507	0	0	0	0	0	0	0	0	0	0	0	0
2016	219	95	57	24	11	2	1	0	0	0	0	0	0
2017	403	206	100	63	27	13	3	1	0	0	0	0	0
2018	270	188	69	58	36	16	7	2	0	0	0	0	0
2019	303		69	86	72	45	19	9	2	1	0	0	0
2020	315			72	89	75	47	20	9	2	1	0	0
2021	328				75	93	78	49	21	10	2	1	0
2022	341					78	96	81	51	22	10	2	1
2023	355						81	100	84	53	23	11	3
2024	370							85	105	88	55	24	14
2025	384								88	109	91	57	39
2026	400									92	113	95	100
2027	416										95	118	203
2028	433											99	334
TOTAL	\$10,101	\$500	\$295	\$303	\$311	\$321	\$333	\$346	\$360	\$375	\$390	\$406	\$705

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$431
2. Loss payments during 2018 for accident years 2017 and prior	(\$247)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$129
4. Estimated ultimate losses for accident year 2018	\$270
5. Loss payments during 2018 for accident year 2018	(\$82)
6. Estimated net undiscounted reserves at 9/30/2018	\$500

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-C, Page 3C, Column (3).
- (3) - Total from Exhibit VIII-C, Page 3B, Column (3).
- (4) - See Exhibit VIII-C, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$73	\$73	\$0
1996	92	92	0
1997	119	119	0
1998	220	220	0
1999	180	180	0
2000	107	107	0
2001	348	348	0
2002	341	341	0
2003	100	100	0
2004	211	211	0
2005	286	286	0
2006	245	245	0
2007	41	41	0
2008	245	245	0
2009	380	380	0
2010	236	236	0
2011	129	129	0
2012	75	75	0
2013	122	122	0
2014	257	270	14
2015	497	507	10
2016	241	219	(23)
2017	276	403	127
TOTAL	\$4,820	\$4,948	\$129

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-C, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
City of Jacksonville - Fire Claims
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$73	\$73	\$0
1996	92	92	0
1997	119	119	0
1998	220	220	0
1999	180	180	0
2000	107	107	0
2001	348	348	0
2002	341	341	0
2003	100	100	0
2004	211	211	0
2005	286	286	0
2006	245	245	0
2007	41	41	0
2008	230	234	4
2009	380	380	0
2010	236	236	0
2011	129	129	0
2012	75	75	0
2013	122	122	0
2014	234	270	36
2015	474	507	33
2016	92	123	31
2017	54	197	144
TOTAL	\$4,389	\$4,636	\$247

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-C, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE @9/30/2018	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$40	\$0	\$40	\$40	\$0
1995	61	0	61	61	0
1996	76	0	76	76	0
1997	100	0	100	100	0
1998	116	0	116	116	0
1999	196	0	196	196	0
2000	291	0	291	291	0
2001	152	0	152	152	0
2002	243	0	243	243	0
2003	94	0	94	94	0
2004	271	0	271	271	0
2005	192	0	192	192	0
2006	269	0	269	269	0
2007	128	0	128	128	0
2008	334	0	334	334	0
2009	91	0	91	91	0
2010	310	0	310	310	0
2011	281	0	281	281	0
2012	421	0	421	421	0
2013	174	0	174	174	0
2014	608	5	613	613	5
2015	96	0	96	96	0
2016	179	58	237	267	88
2017	141	126	266	335	195
2018	111	261	372	647	536
TOTAL	\$4,974	\$449	\$5,423	\$5,798	\$824

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	40	\$1,000	740	0.0535
1995	61	1,000	N/A	N/A
1996	76	1,000	653	0.1160
1997	100	1,000	642	0.1558
1998	116	1,000	763	0.1526
1999	196	1,000	805	0.2438
2000	291	1,000	795	0.3655
2001	152	1,000	772	0.1974
2002	243	1,000	743	0.3265
2003	94	1,200	773	0.1217
2004	271	1,200	765	0.3543
2005	192	1,200	667	0.2878
2006	269	1,200	731	0.3682
2007	128	1,200	829	0.1549
2008	334	1,200	855	0.3901
2009	91	1,200	849	0.1076
2010	310	1,200	814	0.3810
2011	281	1,200	744	0.3781
2012	421	1,200	822	0.5125
2013	174	1,200	789	0.2201
2014	613	1,500	727	0.8434
2015	96	1,500	727	0.1315
2016	267	1,500	706	0.3780
2017	335	1,500	703	0.4768
2018	647	1,500	772	0.8376
<i>(PROJ.) 2018/2019</i>	\$236	1,500	717	0.3288
<i>(PROJ.) 2019/2020</i>	245	1,500	731	0.3353
<i>(PROJ.) 2020/2021</i>	255	1,500	746	0.3420
<i>(PROJ.) 2021/2022</i>	265	1,500	761	0.3489
<i>(PROJ.) 2022/2023</i>	276	1,500	776	0.3559
<i>(PROJ.) 2023/2024</i>	287	1,500	792	0.3630
<i>(PROJ.) 2024/2025</i>	299	1,500	808	0.3702
<i>(PROJ.) 2025/2026</i>	311	1,500	824	0.3776
<i>(PROJ.) 2026/2027</i>	324	1,500	840	0.3852
<i>(PROJ.) 2027/2028</i>	337	1,500	857	0.3929

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$236	\$273	\$287	\$303	\$324	\$353
2019/2020	\$245	\$283	\$298	\$315	\$336	\$367

Notes:

- (1) - Exhibit VIII-D, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT
1993 and Prior	\$1,065	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	40	0	0	0	0	0	0	0	0	0	0	0	0
1995	61	0	0	0	0	0	0	0	0	0	0	0	0
1996	76	0	0	0	0	0	0	0	0	0	0	0	0
1997	100	0	0	0	0	0	0	0	0	0	0	0	0
1998	116	0	0	0	0	0	0	0	0	0	0	0	0
1999	196	0	0	0	0	0	0	0	0	0	0	0	0
2000	291	0	0	0	0	0	0	0	0	0	0	0	0
2001	152	0	0	0	0	0	0	0	0	0	0	0	0
2002	243	0	0	0	0	0	0	0	0	0	0	0	0
2003	94	0	0	0	0	0	0	0	0	0	0	0	0
2004	271	0	0	0	0	0	0	0	0	0	0	0	0
2005	192	0	0	0	0	0	0	0	0	0	0	0	0
2006	269	0	0	0	0	0	0	0	0	0	0	0	0
2007	128	0	0	0	0	0	0	0	0	0	0	0	0
2008	334	0	0	0	0	0	0	0	0	0	0	0	0
2009	91	0	0	0	0	0	0	0	0	0	0	0	0
2010	310	0	0	0	0	0	0	0	0	0	0	0	0
2011	281	0	0	0	0	0	0	0	0	0	0	0	0
2012	421	0	0	0	0	0	0	0	0	0	0	0	0
2013	174	0	0	0	0	0	0	0	0	0	0	0	0
2014	613	5	4	1	0	0	0	0	0	0	0	0	0
2015	96	0	0	0	0	0	0	0	0	0	0	0	0
2016	267	88	52	22	11	2	1	0	0	0	0	0	0
2017	335	195	95	59	25	12	2	1	0	0	0	0	0
2018	647	536	196	165	103	44	21	4	1	0	0	0	0
2019	236		54	67	56	35	15	7	1	0	0	0	0
2020	245			56	69	58	36	16	7	2	0	0	0
2021	255				58	72	61	38	16	8	2	1	0
2022	265					61	75	63	39	17	8	2	1
2023	276						63	78	66	41	18	8	2
2024	287							66	81	68	43	18	11
2025	299								69	85	71	44	30
2026	311									71	88	74	78
2027	324										74	92	158
2028	337											77	260
TOTAL	\$9,697	\$824	\$402	\$371	\$323	\$284	\$274	\$272	\$281	\$292	\$303	\$316	\$540

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$412
2. Loss payments during 2018 for accident years 2017 and prior	(\$119)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$4)
4. Estimated ultimate losses for accident year 2018	\$647
5. Loss payments during 2018 for accident year 2018	(\$111)
6. Estimated net undiscounted reserves at 9/30/2018	\$824

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-D, Page 3C of 3, Column (3).
- (3) - Total from Exhibit VIII-D, Page 3B of 3, Column (3).
- (4) - See Exhibit VIII-D, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$61	\$61	\$0
1996	76	76	0
1997	100	100	0
1998	116	116	0
1999	196	196	0
2000	291	291	0
2001	152	152	0
2002	243	243	0
2003	94	94	0
2004	271	271	0
2005	192	192	0
2006	269	269	0
2007	128	128	0
2008	334	334	0
2009	91	91	0
2010	310	310	0
2011	281	281	0
2012	421	421	0
2013	174	174	0
2014	598	613	15
2015	118	96	(22)
2016	258	267	9
2017	342	335	(6)
TOTAL	\$5,116	\$5,112	(\$4)

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-D, Page 1 of 3, Column (4).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$61	\$61	\$0
1996	76	76	0
1997	100	100	0
1998	116	116	0
1999	196	196	0
2000	291	291	0
2001	152	152	0
2002	243	243	0
2003	94	94	0
2004	271	271	0
2005	192	192	0
2006	269	269	0
2007	128	128	0
2008	334	334	0
2009	91	91	0
2010	310	310	0
2011	281	281	0
2012	421	421	0
2013	174	174	0
2014	563	608	45
2015	91	96	4
2016	181	179	(3)
2017	68	141	73
TOTAL	\$4,704	\$4,823	\$119

Notes:

(1) - Per AMI Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-D, Page 1 of 3, Column (1).

(3) = (2) - (1).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$34	\$0	\$34	\$34	\$0
1995	23	0	23	23	0
1996	68	0	68	68	0
1997	102	0	102	102	0
1998	45	0	45	45	0
1999	38	0	38	38	0
2000	44	0	44	44	0
2001	359	0	359	359	0
2002	109	0	109	109	0
2003	89	0	89	89	0
2004	20	0	20	20	0
2005	47	0	47	47	0
2006	31	0	31	31	0
2007	27	0	27	27	0
2008	29	0	29	29	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	3	0	3	3	0
2014	0	0	0	0	0
2015	1	0	1	1	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
TOTAL	\$1,069	\$0	\$1,069	\$1,069	\$0

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	34	\$1,000	N/A	N/A
1995	23	1,000	N/A	N/A
1996	68	1,000	307	0.2209
1997	102	1,000	310	0.3294
1998	45	1,000	408	0.1101
1999	38	1,000	404	0.0941
2000	44	1,000	392	0.1120
2001	359	1,000	413	0.8702
2002	109	1,000	428	0.2540
2003	89	1,200	444	0.2002
2004	20	1,200	445	0.0455
2005	47	1,200	527	0.0894
2006	31	1,200	525	0.0599
2007	27	1,200	396	0.0688
2008	29	1,200	372	0.0776
2009	0	1,200	346	0.0000
2010	0	1,200	349	0.0000
2011	0	1,200	370	0.0000
2012	0	1,200	351	0.0000
2013	3	1,200	333	0.0089
2014	0	1,500	395	0.0000
2015	1	1,500	395	0.0020
2016	0	1,500	546	0.0002
2017	0	1,500	551	0.0000
2018	0	1,500	611	0.0000
<i>(PROJ.) 2018/2019</i>	\$0	1,500	623	0.0006
<i>(PROJ.) 2019/2020</i>	0	1,500	636	0.0006
<i>(PROJ.) 2020/2021</i>	0	1,500	648	0.0006
<i>(PROJ.) 2021/2022</i>	0	1,500	661	0.0006
<i>(PROJ.) 2022/2023</i>	0	1,500	675	0.0006
<i>(PROJ.) 2023/2024</i>	0	1,500	688	0.0006
<i>(PROJ.) 2024/2025</i>	0	1,500	702	0.0006
<i>(PROJ.) 2025/2026</i>	0	1,500	716	0.0006
<i>(PROJ.) 2026/2027</i>	0	1,500	730	0.0007
<i>(PROJ.) 2027/2028</i>	0	1,500	745	0.0007

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$0	\$0	\$0	\$0	\$0	\$0
2019/2020	\$0	\$0	\$0	\$0	\$0	\$0

Notes:

- (1) - Exhibit VIII-E, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018	36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT
1993 and Prior	\$592	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	34	0	0	0	0	0	0	0	0	0	0	0	0
1995	23	0	0	0	0	0	0	0	0	0	0	0	0
1996	68	0	0	0	0	0	0	0	0	0	0	0	0
1997	102	0	0	0	0	0	0	0	0	0	0	0	0
1998	45	0	0	0	0	0	0	0	0	0	0	0	0
1999	38	0	0	0	0	0	0	0	0	0	0	0	0
2000	44	0	0	0	0	0	0	0	0	0	0	0	0
2001	359	0	0	0	0	0	0	0	0	0	0	0	0
2002	109	0	0	0	0	0	0	0	0	0	0	0	0
2003	89	0	0	0	0	0	0	0	0	0	0	0	0
2004	20	0	0	0	0	0	0	0	0	0	0	0	0
2005	47	0	0	0	0	0	0	0	0	0	0	0	0
2006	31	0	0	0	0	0	0	0	0	0	0	0	0
2007	27	0	0	0	0	0	0	0	0	0	0	0	0
2008	29	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	3	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	1	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	\$1,661	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$0
2. Loss payments during 2018 for accident years 2017 and prior	\$0
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$0
4. Estimated ultimate losses for accident year 2018	\$0
5. Loss payments during 2018 for accident year 2018	\$0
6. Estimated net undiscounted reserves at 9/30/2018	\$0

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-E, Page 3, Column (3).
- (3) - Total from Exhibit VIII-E, Page 3B, Column (3).
- (4) - See Exhibit VIII-E, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$23	\$23	\$0
1996	68	68	0
1997	102	102	0
1998	45	45	0
1999	38	38	0
2000	44	44	0
2001	359	359	0
2002	109	109	0
2003	89	89	0
2004	20	20	0
2005	47	47	0
2006	31	31	0
2007	27	27	0
2008	29	29	0
2009	0	0	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	3	3	0
2014	0	0	0
2015	1	1	0
2016	0	0	0
2017	0	0	0
TOTAL	\$1,035	\$1,035	\$0

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
 - (2) - Exhibit VIII-E, Page 1 of 3, Column (4).
 - (3) = (2) - (1).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$23	\$23	\$0
1996	68	68	0
1997	102	102	0
1998	45	45	0
1999	38	38	0
2000	44	44	0
2001	359	359	0
2002	109	109	0
2003	89	89	0
2004	20	20	0
2005	47	47	0
2006	31	31	0
2007	27	27	0
2008	29	29	0
2009	0	0	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	3	3	0
2014	0	0	0
2015	1	1	0
2016	0	0	0
2017	0	0	0
TOTAL	\$1,035	\$1,035	\$0

Notes:

- (1) - Per AMI Actuarial Study as of September 30, 2017.
 - (2) - Exhibit VIII-E, Page 1 of 3, Column (1).
 - (3) = (2) - (1).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$2	\$0	\$2	\$2	\$0
1995	4	0	4	4	0
1996	11	0	11	11	0
1997	1	0	1	1	0
1998	1	0	1	1	0
1999	0	0	0	0	0
2000	0	0	0	0	0
2001	6	0	6	6	0
2002	147	0	147	147	0
2003	7	0	7	7	0
2004	25	0	25	25	0
2005	25	0	25	25	0
2006	1	0	1	1	0
2007	7	0	7	7	0
2008	38	0	38	38	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	11	0	11	11	0
2012	65	0	65	65	0
2013	0	0	0	0	0
2014	22	0	22	22	0
2015	2	0	2	2	0
2016	1	0	1	1	0
2017	4	0	4	4	0
2018	5	0	5	5	0
TOTAL	\$384	\$0	\$384	\$384	\$0

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$2	\$1,000	N/A	N/A
1995	4	1,000	N/A	N/A
1996	11	1,000	57	0.1854
1997	1	1,000	58	0.0229
1998	1	1,000	58	0.0128
1999	0	1,000	55	0.0067
2000	0	1,000	54	0.0000
2001	6	1,000	55	0.1050
2002	147	1,000	58	2.5341
2003	7	1,200	67	0.1119
2004	25	1,200	65	0.3793
2005	25	1,200	63	0.3966
2006	1	1,200	71	0.0143
2007	7	1,200	75	0.0884
2008	38	1,200	69	0.5446
2009	0	1,200	49	0.0000
2010	0	1,200	59	0.0000
2011	11	1,200	47	0.2325
2012	65	1,200	59	1.1031
2013	0	1,200	43	0.0000
2014	22	1,500	42	0.5152
2015	2	1,500	43	0.0451
2016	1	1,500	46	0.0208
2017	4	1,500	43	0.0832
2018	5	1,500	43	0.1097
<i>(PROJ.) 2018/2019</i>	\$2	1,500	44	0.0497
<i>(PROJ.) 2019/2020</i>	2	1,500	45	0.0507
<i>(PROJ.) 2020/2021</i>	2	1,500	46	0.0517
<i>(PROJ.) 2021/2022</i>	2	1,500	47	0.0528
<i>(PROJ.) 2022/2023</i>	3	1,500	47	0.0538
<i>(PROJ.) 2023/2024</i>	3	1,500	48	0.0549
<i>(PROJ.) 2024/2025</i>	3	1,500	49	0.0560
<i>(PROJ.) 2025/2026</i>	3	1,500	50	0.0571
<i>(PROJ.) 2026/2027</i>	3	1,500	51	0.0582
<i>(PROJ.) 2027/2028</i>	3	1,500	52	0.0594

SECTION 3 - DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$2	\$2	\$2	\$3	\$3	\$3
2019/2020	\$2	\$2	\$2	\$3	\$3	\$3

Notes:

- (1) - Exhibit VIII-F, Page 1, Column (4). For the projection years (1) = (3) x (4).
- (2) & (3) - Per CITY OF JACKSONVILLE.
- (4) = (1) / (3). For the projected year, it is the average of prior years.
- (5) = Projected losses in Column (1).
- (6) to (10) - Based on Monte Carlo Simulation Approach.
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING											
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 & SUBSEQUENT	
1993 and Prior	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	2	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	4	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	11	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	147	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	7	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	25	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	25	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	7	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	38	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	11	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	65	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	22	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	2	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	4	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	5	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	2	0	0	1	0	0	0	0	0	0	0	0	0	0
2020	2	0	0	0	1	0	0	0	0	0	0	0	0	0
2021	2	0	0	0	0	1	0	0	0	0	0	0	0	0
2022	2	0	0	0	0	0	1	0	0	0	0	0	0	0
2023	3	0	0	0	0	0	0	1	1	1	0	0	0	0
2024	3	0	0	0	0	0	0	0	1	1	1	0	0	0
2025	3	0	0	0	0	0	0	0	0	1	1	1	0	0
2026	3	0	0	0	0	0	0	0	0	0	1	1	1	1
2027	3	0	0	0	0	0	0	0	0	0	0	1	1	1
2028	3	0	0	0	0	0	0	0	0	0	0	0	1	2
TOTAL	\$435	\$0	\$0	\$1	\$1	\$2	\$2	\$2	\$3	\$3	\$3	\$3	\$5	

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$40
2. Loss payments during 2018 for accident years 2017 and prior	(\$11)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	(\$28)
4. Estimated ultimate losses for accident year 2018	\$5
5. Loss payments during 2018 for accident year 2018	(\$5)
6. Estimated net undiscounted reserves at 9/30/2018	\$0

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-F, Page 3C, Column (3).
- (3) - Total from Exhibit VIII-F, Page 3B, Column (3).
- (4) - See Exhibit VIII-F, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$4	\$4	\$0
1996	11	11	0
1997	0	1	1
1998	0	1	1
1999	0	0	0
2000	0	0	0
2001	6	6	0
2002	147	147	0
2003	7	7	0
2004	23	25	1
2005	24	25	1
2006	0	1	1
2007	4	7	3
2008	38	38	0
2009	0	0	0
2010	0	0	0
2011	11	11	0
2012	65	65	0
2013	0	0	0
2014	18	22	3
2015	2	2	0
2016	1	1	0
2017	43	4	(40)
TOTAL	\$405	\$377	(\$28)

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-F, Page 1 of 3, Column (4).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$4	\$4	\$0
1996	11	11	0
1997	0	1	1
1998	0	1	1
1999	0	0	0
2000	0	0	0
2001	6	6	0
2002	147	147	0
2003	7	7	0
2004	23	25	1
2005	24	25	1
2006	0	1	1
2007	4	7	3
2008	38	38	0
2009	0	0	0
2010	0	0	0
2011	11	11	0
2012	65	65	0
2013	0	0	0
2014	18	22	3
2015	2	2	0
2016	1	1	0
2017	4	4	0
TOTAL	\$365	\$377	\$11

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-F, Page 1 of 3, Column (1).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$0	\$0	\$0	\$0	\$0
1995	0	0	0	0	0
1996	1	0	1	1	0
1997	0	0	0	0	0
1998	6	0	6	6	0
1999	9	0	9	9	0
2000	0	0	0	0	0
2001	3	0	3	3	0
2002	0	0	0	0	0
2003	4	0	4	4	0
2004	0	0	0	0	0
2005	1	0	1	1	0
2006	33	0	33	33	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	2	0	2	2	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	12	0	12	12	0
2015	0	0	0	0	0
2016	2	0	2	2	0
2017	1	0	1	1	0
2018	4	1	5	6	2
TOTAL	\$78	\$1	\$79	\$80	\$2

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION LIMIT	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$0	\$1,000	120	N/A
1995	0	1,000	N/A	N/A
1996	1	1,000	124	N/A
1997	0	1,000	69	0.0000
1998	6	1,000	69	0.0911
1999	9	1,000	75	0.1179
2000	0	1,000	108	0.0000
2001	3	1,000	125	0.0225
2002	0	1,000	87	0.0000
2003	4	1,200	70	0.0568
2004	0	1,200	69	0.0000
2005	1	1,200	71	0.0157
2006	33	1,200	90	0.3710
2007	0	1,200	89	0.0000
2008	0	1,200	86	0.0000
2009	0	1,200	89	0.0000
2010	2	1,200	93	0.0187
2011	0	1,200	90	0.0000
2012	0	1,200	93	0.0000
2013	0	1,200	90	0.0000
2014	12	1,500	93	0.1260
2015	0	1,500	98	0.0000
2016	2	1,500	98	0.0187
2017	1	1,500	98	0.0091
2018	6	1,500	103	0.0581
<i>(PROJ.) 2018/2019</i>	\$1	1,500	105	0.0092
<i>(PROJ.) 2019/2020</i>	1	1,500	107	0.0094
<i>(PROJ.) 2020/2021</i>	1	1,500	109	0.0096
<i>(PROJ.) 2021/2022</i>	1	1,500	111	0.0098
<i>(PROJ.) 2022/2023</i>	1	1,500	114	0.0100
<i>(PROJ.) 2023/2024</i>	1	1,500	116	0.0102
<i>(PROJ.) 2024/2025</i>	1	1,500	118	0.0104
<i>(PROJ.) 2025/2026</i>	1	1,500	121	0.0106
<i>(PROJ.) 2026/2027</i>	1	1,500	123	0.0108
<i>(PROJ.) 2027/2028</i>	1	1,500	126	0.0110

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEARS*	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$1	\$1	\$1	\$1	\$1	\$1
2019/2020	\$1	\$1	\$1	\$1	\$1	\$1

Notes:

(1) - Exhibit VIII-G, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the average of prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT
1993 and Prior	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	1	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	6	0	0	0	0	0	0	0	0	0	0	0	0
1999	9	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	4	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	1	0	0	0	0	0	0	0	0	0	0	0	0
2006	33	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	2	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	12	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	2	0	0	0	0	0	0	0	0	0	0	0	0
2017	1	0	0	0	0	0	0	0	0	0	0	0	0
2018	6	2	1	1	0	0	0	0	0	0	0	0	0
2019	1		0	1	0	0	0	0	0	0	0	0	0
2020	1			0	0	0	0	0	0	0	0	0	0
2021	1				0	0	0	0	0	0	0	0	0
2022	1					0	0	0	0	0	0	0	0
2023	1						0	0	0	0	0	0	0
2024	1							0	0	0	0	0	0
2025	1								0	0	0	0	0
2026	1									0	0	0	0
2027	1										0	0	0
2028	1											0	1
TOTAL	\$176	\$2	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$2

Notes:

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$0
2. Loss payments during 2018 for accident years 2017 and prior	(\$1)
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$1
4. Estimated ultimate losses for accident year 2018	\$6
5. Loss payments during 2018 for accident year 2018	(\$4)
6. Estimated net undiscounted reserves at 9/30/2018	\$2

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-G, Page 3C, Column (3).
- (3) - Total from Exhibit VIII-G, Page 3B, Column (3).
- (4) - See Exhibit VIII-G, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$0	\$0	\$0
1996	1	1	0
1997	0	0	0
1998	6	6	0
1999	9	9	0
2000	0	0	0
2001	3	3	0
2002	0	0	0
2003	4	4	0
2004	0	0	0
2005	1	1	0
2006	33	33	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	2	2	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	12	12	0
2015	0	0	0
2016	2	2	0
2017	0	1	1
TOTAL	\$73	\$74	\$1

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-G, Page 1 of 3, Column (4).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$0	\$0	\$0
1996	1	1	0
1997	0	0	0
1998	6	6	0
1999	9	9	0
2000	0	0	0
2001	3	3	0
2002	0	0	0
2003	4	4	0
2004	0	0	0
2005	1	1	0
2006	33	33	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	2	2	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	12	12	0
2015	0	0	0
2016	2	2	0
2017	0	1	1
TOTAL	\$73	\$74	\$1

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-G, Page 1 of 3, Column (1).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF TOTAL RESERVES
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	PAID LOSSES @9/30/2018	CASE RESERVES @9/30/2018	INCURRED LOSSES @9/30/2018	SELECTED ULTIMATE LOSSES	LOSS RESERVES @9/30/2018
	(1)	(2)	(3)	(4)	(5)
1994	\$0	\$0	\$0	\$0	\$0
1995	0	0	0	0	0
1996	0	0	0	0	0
1997	0	0	0	0	0
1998	0	0	0	0	0
1999	0	0	0	0	0
2000	0	0	0	0	0
2001	7	0	7	7	0
2002	3	0	3	3	0
2003	0	0	0	0	0
2004	0	0	0	0	0
2005	6	0	6	6	0
2006	90	0	90	90	0
2007	1	0	1	1	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	6	0	6	6	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
TOTAL	\$113	\$0	\$113	\$113	\$0

Notes:

(1), (2), & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) + (5).

(5) = Allocation from Exhibit VIII, Page 1, Column (7) , based on case reserves.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PROJECTED LOSSES
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

SECTION 1 - PROJECTED ULTIMATE LOSSES

ACCIDENT YEARS*	SELECTED ULTIMATE LOSSES	RETENTION	VEHICLE COUNT	LOSS RATE
	(1)	(2)	(3)	(4)
1994	\$0	\$1,000	N/A	N/A
1995	0	1,000	N/A	N/A
1996	0	1,000	52	0.0000
1997	0	1,000	49	0.0000
1998	0	1,000	49	0.0000
1999	0	1,000	54	0.0000
2000	0	1,000	77	0.0000
2001	7	1,000	89	0.0821
2002	3	1,000	62	0.0547
2003	0	1,200	147	0.0000
2004	0	1,200	147	0.0000
2005	6	1,200	120	0.0507
2006	90	1,200	115	0.7813
2007	1	1,200	108	0.0051
2008	0	1,200	88	0.0000
2009	0	1,200	107	0.0000
2010	0	1,200	103	0.0000
2011	0	1,200	103	0.0000
2012	0	1,200	95	0.0000
2013	0	1,200	95	0.0000
2014	6	1,500	90	0.0620
2015	0	1,500	90	0.0000
2016	0	1,500	90	0.0000
2017	0	1,500	90	0.0000
2018	0	1,500	90	0.0000
<i>(PROJ.) 2018/2019</i>	\$1	1,500	92	0.0155
<i>(PROJ.) 2019/2020</i>	1	1,500	94	0.0158
<i>(PROJ.) 2020/2021</i>	2	1,500	96	0.0161
<i>(PROJ.) 2021/2022</i>	2	1,500	97	0.0164
<i>(PROJ.) 2022/2023</i>	2	1,500	99	0.0168
<i>(PROJ.) 2023/2024</i>	2	1,500	101	0.0171
<i>(PROJ.) 2024/2025</i>	2	1,500	103	0.0174
<i>(PROJ.) 2025/2026</i>	2	1,500	105	0.0178
<i>(PROJ.) 2026/2027</i>	2	1,500	108	0.0181
<i>(PROJ.) 2027/2028</i>	2	1,500	110	0.0185

SECTION 2 - FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT	55% LEVEL	70% LEVEL	75% LEVEL	80% LEVEL	85% LEVEL	90% LEVEL
ACCIDENT	(5)	(6)	(7)	(8)	(9)	(10)
2018/2019	\$1	\$1	\$1	\$1	\$1	\$1
2019/2020	\$1	\$1	\$1	\$1	\$1	\$1

Notes:

(1) - Exhibit VIII-H, Page 1, Column (4). For the projection years (1) = (3) x (4).

(2) & (3) - Per CITY OF JACKSONVILLE.

(4) = (1) / (3). For the projected year, it is the average of prior years.

(5) = Projected losses in Column (1).

(6) to (10) - Based on Monte Carlo Simulation Approach.

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(SAMTS IN THOUSANDS)

YEAR	1	2	3	4	5	6	7	8	9	10	11
CUMULATIVE LOSS PAYOUT PATTERN	22.9%	51.2%	75.0%	89.8%	96.2%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 9/30/2018		36.7%	30.8%	19.3%	8.3%	3.9%	0.8%	0.3%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	22.9%	28.3%	23.8%	14.9%	6.4%	3.0%	0.6%	0.2%	0.0%	0.0%	0.0%

ACCIDENT YEARS*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID @9/30/2018	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING										
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 &SUBSEQUENT
1993 and Prior	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0	0
2002	3	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	6	0	0	0	0	0	0	0	0	0	0	0	0
2006	90	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	6	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	1	0	0	0	0	0	0	0	0	0	0	0	0
2020	1	0	0	0	0	0	0	0	0	0	0	0	0
2021	2	0	0	1	0	0	0	0	0	0	0	0	0
2022	2	0	0	0	1	0	0	0	0	0	0	0	0
2023	2	0	0	0	0	1	0	0	0	0	0	0	0
2024	2	0	0	0	0	0	1	0	0	0	0	0	0
2025	2	0	0	0	0	0	0	1	0	0	0	0	0
2026	2	0	0	0	0	0	0	0	1	0	0	0	0
2027	2	0	0	0	0	0	0	0	0	1	0	0	1
2028	2	0	0	0	0	0	0	0	0	0	1	0	2
TOTAL	\$139	\$0	\$0	\$1	\$1	\$1	\$2	\$2	\$2	\$2	\$2	\$2	\$3

Notes:
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
ANALYSIS OF RESERVE CHANGE
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 9/30/2017	\$0
2. Loss payments during 2018 for accident years 2017 and prior	\$0
3. Change in estimated ultimate losses for accident years 2017 and prior due to re-evaluation at 9/30/2018	\$0
4. Estimated ultimate losses for accident year 2018	\$0
5. Loss payments during 2018 for accident year 2018	\$0
6. Estimated net undiscounted reserves at 9/30/2018	\$0

Notes:

- (1) - Per Actuarial Study as of September 30, 2017.
- (2) - Total from Exhibit VIII-H, Page 3C, Column (3).
- (3) - Total from Exhibit VIII-H, Page 3B, Column (3).
- (4) - See Exhibit VIII-H, Page 1 of 3, Column (4), for accident year 2018.
- (5) - Per CITY OF JACKSONVILLE.
- (6) - Sum of (1) through (5).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$0	\$0	\$0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	7	7	0
2002	3	3	0
2003	0	0	0
2004	0	0	0
2005	6	6	0
2006	90	90	0
2007	1	1	0
2008	0	0	0
2009	0	0	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	6	6	0
2015	0	0	0
2016	0	0	0
2017	0	0	0
TOTAL	\$113	\$113	0

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-H, Page 1 of 3, Column (4).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
COMPARISON OF PAID LOSSES
AS OF SEPTEMBER 30, 2017 AND SEPTEMBER 30, 2018
AUTOMOBILE LIABILITY
Jacksonville Aviation Authority
(\$AMTS IN THOUSANDS)

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@9/30/2017	@9/30/2018	
	(1)	(2)	(3)
1995	\$0	\$0	\$0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	7	7	0
2002	3	3	0
2003	0	0	0
2004	0	0	0
2005	6	6	0
2006	90	90	0
2007	1	1	0
2008	0	0	0
2009	0	0	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	6	6	0
2015	0	0	0
2016	0	0	0
2017	0	0	0
TOTAL	\$113	\$113	0

Notes:

(1) - Per Actuarial Study as of September 30, 2017.

(2) - Exhibit VIII-H, Page 1 of 3, Column (1).

(3) = (2) - (1).

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	9.3%	9.3%	100.0%	0.981	73.8%	0.738
2	17.6%	8.3%	90.7%	0.943	67.2%	0.742
3	25.8%	8.2%	82.4%	0.907	61.4%	0.746
4	32.1%	6.3%	74.2%	0.872	55.6%	0.749
5	37.4%	5.3%	67.9%	0.838	51.4%	0.757
6	40.9%	3.6%	62.6%	0.806	48.1%	0.768
7	44.6%	3.7%	59.1%	0.775	46.4%	0.785
8	48.6%	4.0%	55.4%	0.745	44.4%	0.803
9	53.0%	4.4%	51.4%	0.717	42.1%	0.820
10	57.4%	4.4%	47.0%	0.689	39.4%	0.838
11	62.1%	4.7%	42.6%	0.662	36.4%	0.856
12	67.1%	4.9%	37.9%	0.637	33.1%	0.874
13	72.4%	5.3%	32.9%	0.612	29.4%	0.892
14	78.1%	5.7%	27.6%	0.589	25.1%	0.910
15	83.6%	5.5%	21.9%	0.566	20.3%	0.927
16	89.6%	5.9%	16.4%	0.544	15.5%	0.946
17	95.2%	5.7%	10.4%	0.524	10.1%	0.963
18	100.0%	4.8%	4.8%	0.503	4.7%	0.981
19	100.0%	0.0%	0.0%	0.484	0.0%	1.000
20	100.0%	0.0%	0.0%	0.465	0.0%	1.000
21	100.0%	0.0%	0.0%	0.448	0.0%	1.000
22	100.0%	0.0%	0.0%	0.430	0.0%	1.000
23	100.0%	0.0%	0.0%	0.414	0.0%	1.000
24	100.0%	0.0%	0.0%	0.398	0.0%	1.000
25	100.0%	0.0%	0.0%	0.383	0.0%	1.000
26	100.0%	0.0%	0.0%	0.368	0.0%	1.000
27	100.0%	0.0%	0.0%	0.354	0.0%	1.000
28	100.0%	0.0%	0.0%	0.340	0.0%	1.000
29	100.0%	0.0%	0.0%	0.327	0.0%	1.000
30	100.0%	0.0%	0.0%	0.314	0.0%	1.000
31	100.0%	0.0%	0.0%	0.302	0.0%	1.000
32	100.0%	0.0%	0.0%	0.291	0.0%	1.000
33	100.0%	0.0%	0.0%	0.280	0.0%	1.000
34	100.0%	0.0%	0.0%	0.269	0.0%	1.000
35	100.0%	0.0%	0.0%	0.258	0.0%	1.000
36	100.0%	0.0%	0.0%	0.248	0.0%	1.000
37	100.0%	0.0%	0.0%	0.239	0.0%	1.000
38	100.0%	0.0%	0.0%	0.230	0.0%	1.000
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000
44	100.0%	0.0%	0.0%	0.182	0.0%	1.000
45	100.0%	0.0%	0.0%	0.175	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return: 4.0%
Starting Year: 0
Ending Year: 19

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	7.9%	7.9%	100.0%	0.981	67.5%	0.675
2	15.1%	7.2%	92.1%	0.943	62.1%	0.675
3	21.0%	5.9%	84.9%	0.907	57.3%	0.675
4	26.0%	5.0%	79.0%	0.872	53.6%	0.678
5	30.6%	4.6%	74.0%	0.838	50.6%	0.684
6	33.1%	2.6%	69.4%	0.806	48.0%	0.691
7	35.8%	2.7%	66.9%	0.775	47.3%	0.707
8	38.7%	2.9%	64.2%	0.745	46.5%	0.724
9	41.7%	3.1%	61.3%	0.717	45.4%	0.740
10	45.1%	3.3%	58.3%	0.689	44.1%	0.757
11	48.7%	3.6%	54.9%	0.662	42.4%	0.773
12	52.6%	3.9%	51.3%	0.637	40.5%	0.788
13	56.8%	4.2%	47.4%	0.612	38.1%	0.804
14	61.2%	4.4%	43.2%	0.589	35.3%	0.818
15	65.4%	4.2%	38.8%	0.566	32.3%	0.831
16	69.9%	4.4%	34.6%	0.544	29.3%	0.846
17	74.5%	4.7%	30.1%	0.524	25.9%	0.859
18	78.6%	4.1%	25.5%	0.503	22.1%	0.870
19	82.8%	4.2%	21.4%	0.484	18.9%	0.883
20	85.8%	3.0%	17.2%	0.465	15.4%	0.893
21	88.8%	3.0%	14.2%	0.448	12.9%	0.910
22	91.7%	2.9%	11.2%	0.430	10.4%	0.927
23	94.5%	2.8%	8.3%	0.414	7.8%	0.944
24	97.3%	2.8%	5.5%	0.398	5.3%	0.962
25	100.0%	2.7%	2.7%	0.383	2.7%	0.981
26	100.0%	0.0%	0.0%	0.368	0.0%	1.000
27	100.0%	0.0%	0.0%	0.354	0.0%	1.000
28	100.0%	0.0%	0.0%	0.340	0.0%	1.000
29	100.0%	0.0%	0.0%	0.327	0.0%	1.000
30	100.0%	0.0%	0.0%	0.314	0.0%	1.000
31	100.0%	0.0%	0.0%	0.302	0.0%	1.000
32	100.0%	0.0%	0.0%	0.291	0.0%	1.000
33	100.0%	0.0%	0.0%	0.280	0.0%	1.000
34	100.0%	0.0%	0.0%	0.269	0.0%	1.000
35	100.0%	0.0%	0.0%	0.258	0.0%	1.000
36	100.0%	0.0%	0.0%	0.248	0.0%	1.000
37	100.0%	0.0%	0.0%	0.239	0.0%	1.000
38	100.0%	0.0%	0.0%	0.230	0.0%	1.000
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return:	4.0%
Starting Year:	0
Ending Year	26

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	27.8%	27.8%	100.0%	0.981	82.1%	0.821
2	48.8%	21.0%	72.2%	0.943	57.1%	0.790
3	54.3%	5.5%	51.2%	0.907	37.9%	0.740
4	58.2%	3.9%	45.7%	0.872	33.8%	0.740
5	62.1%	3.9%	41.8%	0.838	31.2%	0.746
6	65.2%	3.1%	37.9%	0.806	28.5%	0.751
7	68.5%	3.3%	34.8%	0.775	26.4%	0.760
8	71.7%	3.2%	31.5%	0.745	24.2%	0.766
9	74.8%	3.1%	28.3%	0.717	21.8%	0.772
10	77.6%	2.8%	25.2%	0.689	19.6%	0.776
11	80.0%	2.4%	22.4%	0.662	17.5%	0.780
12	82.0%	2.0%	20.0%	0.637	15.8%	0.787
13	84.0%	2.0%	18.0%	0.612	14.3%	0.796
14	86.1%	2.1%	16.0%	0.589	12.8%	0.803
15	88.3%	2.2%	13.9%	0.566	11.2%	0.807
16	90.5%	2.2%	11.7%	0.544	9.4%	0.806
17	92.7%	2.3%	9.5%	0.524	7.6%	0.796
18	94.1%	1.4%	7.3%	0.503	5.6%	0.768
19	94.5%	0.4%	5.9%	0.484	4.4%	0.747
20	94.9%	0.4%	5.5%	0.465	4.2%	0.761
21	95.2%	0.4%	5.1%	0.448	4.0%	0.775
22	95.6%	0.4%	4.8%	0.430	3.8%	0.789
23	96.0%	0.4%	4.4%	0.414	3.5%	0.803
24	96.4%	0.4%	4.0%	0.398	3.3%	0.817
25	96.8%	0.4%	3.6%	0.383	3.0%	0.832
26	97.2%	0.4%	3.2%	0.368	2.7%	0.846
27	97.6%	0.4%	2.8%	0.354	2.4%	0.861
28	97.9%	0.4%	2.4%	0.340	2.1%	0.876
29	98.3%	0.4%	2.1%	0.327	1.8%	0.890
30	98.7%	0.4%	1.7%	0.314	1.5%	0.904
31	99.1%	0.4%	1.3%	0.302	1.2%	0.916
32	99.5%	0.3%	0.9%	0.291	0.8%	0.922
33	99.8%	0.3%	0.5%	0.280	0.5%	0.922
34	99.8%	0.0%	0.2%	0.269	0.2%	0.886
35	99.8%	0.0%	0.2%	0.258	0.2%	0.921
36	99.9%	0.1%	0.2%	0.248	0.2%	0.958
37	100.0%	0.1%	0.1%	0.239	0.1%	0.981
38	100.0%	0.0%	0.0%	0.230	0.0%	1.000
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return:	4.0%
Starting Year:	0
Ending Year	38

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	26.9%	26.9%	100.0%	0.981	79.2%	0.792
2	45.5%	18.6%	73.1%	0.943	54.9%	0.751
3	49.7%	4.2%	54.5%	0.907	38.2%	0.700
4	52.6%	3.0%	50.3%	0.872	35.4%	0.704
5	55.8%	3.2%	47.4%	0.838	33.8%	0.714
6	58.6%	2.8%	44.2%	0.806	31.9%	0.723
7	61.5%	2.9%	41.4%	0.775	30.4%	0.734
8	64.6%	3.1%	38.5%	0.745	28.6%	0.744
9	67.2%	2.6%	35.4%	0.717	26.6%	0.752
10	69.9%	2.7%	32.8%	0.689	25.0%	0.763
11	72.7%	2.8%	30.1%	0.662	23.3%	0.774
12	75.5%	2.9%	27.3%	0.637	21.4%	0.783
13	77.8%	2.3%	24.5%	0.612	19.3%	0.790
14	80.1%	2.3%	22.2%	0.589	17.8%	0.801
15	82.3%	2.2%	19.9%	0.566	16.1%	0.811
16	84.6%	2.3%	17.7%	0.544	14.6%	0.822
17	86.5%	1.9%	15.4%	0.524	12.8%	0.831
18	88.5%	2.0%	13.5%	0.503	11.4%	0.842
19	90.5%	2.0%	11.5%	0.484	9.8%	0.851
20	92.1%	1.6%	9.5%	0.465	8.1%	0.856
21	93.7%	1.6%	7.9%	0.448	6.8%	0.864
22	95.0%	1.3%	6.3%	0.430	5.4%	0.867
23	95.9%	0.9%	5.0%	0.414	4.4%	0.872
24	96.8%	0.9%	4.1%	0.398	3.6%	0.881
25	97.6%	0.7%	3.2%	0.383	2.8%	0.887
26	98.0%	0.5%	2.4%	0.368	2.2%	0.893
27	98.5%	0.5%	2.0%	0.354	1.8%	0.908
28	99.0%	0.5%	1.5%	0.340	1.4%	0.920
29	99.5%	0.4%	1.0%	0.327	0.9%	0.922
30	99.6%	0.1%	0.5%	0.314	0.5%	0.910
31	99.7%	0.1%	0.4%	0.302	0.4%	0.931
32	99.8%	0.1%	0.3%	0.291	0.3%	0.943
33	99.9%	0.1%	0.2%	0.280	0.2%	0.962
34	100.0%	0.1%	0.1%	0.269	0.1%	0.981
35	100.0%	0.0%	0.0%	0.258	0.0%	1.000
36	100.0%	0.0%	0.0%	0.248	0.0%	1.000
37	100.0%	0.0%	0.0%	0.239	0.0%	1.000
38	100.0%	0.0%	0.0%	0.230	0.0%	1.000
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return: 4.0%
Starting Year: 0
Ending Year: 35

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	26.3%	26.3%	100.0%	0.981	84.3%	0.843
2	51.1%	24.9%	73.7%	0.943	60.9%	0.825
3	61.8%	10.6%	48.9%	0.907	37.9%	0.776
4	72.6%	10.9%	38.2%	0.872	28.6%	0.748
5	75.5%	2.9%	27.4%	0.838	18.7%	0.682
6	77.5%	2.0%	24.5%	0.806	16.5%	0.673
7	78.9%	1.4%	22.5%	0.775	15.1%	0.671
8	80.2%	1.3%	21.1%	0.745	14.3%	0.677
9	81.4%	1.2%	19.8%	0.717	13.5%	0.684
10	82.6%	1.1%	18.6%	0.689	12.8%	0.691
11	83.7%	1.2%	17.4%	0.662	12.2%	0.699
12	84.9%	1.2%	16.3%	0.637	11.5%	0.706
13	86.1%	1.2%	15.1%	0.612	10.8%	0.712
14	87.3%	1.2%	13.9%	0.589	10.0%	0.717
15	88.3%	1.0%	12.7%	0.566	9.2%	0.720
16	89.4%	1.0%	11.7%	0.544	8.5%	0.724
17	90.1%	0.7%	10.6%	0.524	7.7%	0.727
18	90.8%	0.7%	9.9%	0.503	7.3%	0.736
19	91.4%	0.6%	9.2%	0.484	6.9%	0.746
20	92.1%	0.6%	8.6%	0.465	6.5%	0.757
21	92.7%	0.6%	7.9%	0.448	6.1%	0.769
22	93.4%	0.6%	7.3%	0.430	5.7%	0.781
23	94.1%	0.7%	6.6%	0.414	5.2%	0.792
24	94.7%	0.7%	5.9%	0.398	4.8%	0.801
25	95.4%	0.7%	5.3%	0.383	4.3%	0.809
26	95.9%	0.6%	4.6%	0.368	3.8%	0.816
27	96.5%	0.6%	4.1%	0.354	3.3%	0.825
28	97.1%	0.6%	3.5%	0.340	2.9%	0.831
29	97.7%	0.6%	2.9%	0.327	2.4%	0.833
30	98.3%	0.6%	2.3%	0.314	1.9%	0.827
31	98.5%	0.2%	1.7%	0.302	1.4%	0.806
32	98.6%	0.1%	1.5%	0.291	1.3%	0.816
33	98.7%	0.1%	1.4%	0.280	1.2%	0.837
34	98.7%	0.1%	1.3%	0.269	1.2%	0.859
35	98.8%	0.1%	1.3%	0.258	1.1%	0.888
36	98.9%	0.1%	1.2%	0.248	1.1%	0.916
37	99.0%	0.1%	1.1%	0.239	1.0%	0.946
38	100.0%	1.0%	1.0%	0.230	1.0%	0.981
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000
44	100.0%	0.0%	0.0%	0.182	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return: 4.0%
Starting Year: 0
Ending Year: 39

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	29.7%	29.7%	100.0%	0.981	87.6%	0.876
2	58.7%	29.0%	70.3%	0.943	60.8%	0.865
3	75.2%	16.5%	41.3%	0.907	33.7%	0.815
4	80.4%	5.2%	24.8%	0.872	18.2%	0.734
5	82.5%	2.1%	19.6%	0.838	13.6%	0.695
6	84.1%	1.6%	17.5%	0.806	12.0%	0.687
7	85.2%	1.1%	15.9%	0.775	10.9%	0.684
8	86.3%	1.1%	14.8%	0.745	10.2%	0.689
9	87.4%	1.1%	13.7%	0.717	9.5%	0.693
10	88.3%	0.9%	12.6%	0.689	8.7%	0.694
11	89.1%	0.9%	11.7%	0.662	8.2%	0.699
12	90.0%	0.9%	10.9%	0.637	7.7%	0.704
13	90.8%	0.8%	10.0%	0.612	7.1%	0.706
14	91.5%	0.7%	9.2%	0.589	6.6%	0.711
15	92.0%	0.6%	8.5%	0.566	6.1%	0.717
16	92.6%	0.5%	8.0%	0.544	5.8%	0.727
17	93.1%	0.6%	7.4%	0.524	5.5%	0.737
18	93.7%	0.6%	6.9%	0.503	5.1%	0.746
19	94.2%	0.5%	6.3%	0.484	4.8%	0.754
20	94.7%	0.5%	5.8%	0.465	4.4%	0.763
21	95.3%	0.6%	5.3%	0.448	4.1%	0.770
22	95.9%	0.6%	4.7%	0.430	3.6%	0.775
23	96.5%	0.6%	4.1%	0.414	3.2%	0.776
24	97.1%	0.6%	3.5%	0.398	2.7%	0.770
25	97.6%	0.6%	2.9%	0.383	2.2%	0.758
26	97.9%	0.2%	2.4%	0.368	1.7%	0.731
27	98.0%	0.1%	2.1%	0.354	1.6%	0.734
28	98.1%	0.1%	2.0%	0.340	1.5%	0.748
29	98.2%	0.1%	1.9%	0.327	1.5%	0.767
30	98.3%	0.1%	1.8%	0.314	1.4%	0.781
31	98.4%	0.1%	1.7%	0.302	1.4%	0.800
32	98.5%	0.1%	1.6%	0.291	1.3%	0.820
33	98.6%	0.1%	1.5%	0.280	1.3%	0.842
34	98.7%	0.1%	1.4%	0.269	1.2%	0.866
35	98.8%	0.1%	1.3%	0.258	1.1%	0.888
36	98.9%	0.1%	1.2%	0.248	1.1%	0.915
37	99.0%	0.1%	1.1%	0.239	1.0%	0.946
38	100.0%	1.0%	1.0%	0.230	1.0%	0.981
39	100.0%	0.0%	0.0%	0.221	0.0%	1.000
40	100.0%	0.0%	0.0%	0.212	0.0%	1.000
41	100.0%	0.0%	0.0%	0.204	0.0%	1.000
42	100.0%	0.0%	0.0%	0.196	0.0%	1.000
43	100.0%	0.0%	0.0%	0.189	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return: 4.0%
Starting Year: 0
Ending Year 39

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	23.9%	23.9%	100.0%	0.981	89.9%	0.899
2	42.6%	18.7%	76.1%	0.943	69.1%	0.908
3	61.0%	18.4%	57.4%	0.907	52.8%	0.920
4	77.5%	16.5%	39.0%	0.872	36.2%	0.927
5	85.2%	7.7%	22.5%	0.838	20.8%	0.923
6	92.9%	7.7%	14.8%	0.806	13.7%	0.928
7	95.7%	2.8%	7.1%	0.775	6.4%	0.907
8	96.6%	0.9%	4.3%	0.745	3.8%	0.892
9	97.4%	0.7%	3.4%	0.717	3.0%	0.903
10	98.0%	0.7%	2.6%	0.689	2.4%	0.916
11	98.6%	0.6%	2.0%	0.662	1.8%	0.931
12	99.2%	0.6%	1.4%	0.637	1.3%	0.948
13	99.7%	0.5%	0.8%	0.612	0.8%	0.963
14	99.9%	0.2%	0.3%	0.589	0.3%	0.968
15	100.0%	0.1%	0.1%	0.566	0.1%	0.981
16	100.0%	0.0%	0.0%	0.544	0.0%	1.000
17	100.0%	0.0%	0.0%	0.524	0.0%	1.000
18	100.0%	0.0%	0.0%	0.503	0.0%	1.000
19	100.0%	0.0%	0.0%	0.484	0.0%	1.000
20	100.0%	0.0%	0.0%	0.465	0.0%	1.000
21	100.0%	0.0%	0.0%	0.448	0.0%	1.000
22	100.0%	0.0%	0.0%	0.430	0.0%	1.000
23	100.0%	0.0%	0.0%	0.414	0.0%	1.000
24	100.0%	0.0%	0.0%	0.398	0.0%	1.000
25	100.0%	0.0%	0.0%	0.383	0.0%	1.000
26	100.0%	0.0%	0.0%	0.368	0.0%	1.000
27	100.0%	0.0%	0.0%	0.354	0.0%	1.000
28	100.0%	0.0%	0.0%	0.340	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return: 4.0%
Starting Year: 0
Ending Year: 16

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNT FACTORS
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
LIMITED TO RETENTION

(1) <i>Payment Year</i>	(2) <i>Cumulative Payment Pattern</i>	(3) <i>Incremental payments</i>	(4) <i>Remaining Payments at Beginning of Period</i>	(5) <i>Discount Factor</i>	(6) <i>Present Value of Remaining Payments</i>	(7) <i>Present Value Discount Factor</i>
1	20.8%	20.8%	100.0%	0.981	91.9%	0.919
2	51.5%	30.7%	79.2%	0.943	74.4%	0.939
3	74.8%	23.3%	48.5%	0.907	46.1%	0.950
4	89.7%	14.9%	25.2%	0.872	24.1%	0.958
5	96.1%	6.4%	10.3%	0.838	9.9%	0.963
6	99.2%	3.1%	3.9%	0.806	3.8%	0.971
7	99.8%	0.6%	0.8%	0.775	0.8%	0.971
8	100.0%	0.2%	0.2%	0.745	0.2%	0.981
9	100.0%	0.0%	0.0%	0.717	0.0%	1.000
10	100.0%	0.0%	0.0%	0.689	0.0%	1.000
11	100.0%	0.0%	0.0%	0.662	0.0%	1.000
12	100.0%	0.0%	0.0%	0.637	0.0%	1.000
13	100.0%	0.0%	0.0%	0.612	0.0%	1.000
14	100.0%	0.0%	0.0%	0.589	0.0%	1.000
15	100.0%	0.0%	0.0%	0.566	0.0%	1.000
16	100.0%	0.0%	0.0%	0.544	0.0%	1.000
17	100.0%	0.0%	0.0%	0.524	0.0%	1.000
18	100.0%	0.0%	0.0%	0.503	0.0%	1.000
19	100.0%	0.0%	0.0%	0.484	0.0%	1.000
20	100.0%	0.0%	0.0%	0.465	0.0%	1.000
21	100.0%	0.0%	0.0%	0.448	0.0%	1.000
22	100.0%	0.0%	0.0%	0.430	0.0%	1.000
23	100.0%	0.0%	0.0%	0.414	0.0%	1.000
24	100.0%	0.0%	0.0%	0.398	0.0%	1.000
25	100.0%	0.0%	0.0%	0.383	0.0%	1.000
26	100.0%	0.0%	0.0%	0.368	0.0%	1.000
27	100.0%	0.0%	0.0%	0.354	0.0%	1.000
28	100.0%	0.0%	0.0%	0.340	0.0%	1.000
29	100.0%	0.0%	0.0%	0.327	0.0%	1.000

Notes:

- (2) - Per City's historical paid loss development factors.
- (3) - Cumulative Payment Pattern for current year less Cumulative Payment Pattern for prior year.
- (4) = 1 - Cumulative Payment Pattern for prior year.
- (5) & (6) - Per AMI calculations.
- (7) = (6) / (4).

Assumptions:

Rate of Return:	4.0%
Starting Year:	0
Ending Year:	9

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
1977	\$0	1.000	\$0	\$0
1978	0	1.000	0	0
1979	0	1.000	0	0
1980	0	1.000	0	0
1981	0	1.000	0	0
1982	0	1.000	0	0
1983	0	1.000	0	0
1984	0	1.000	0	0
1985	0	1.000	0	0
1986	0	1.000	0	0
1987	0	1.000	0	0
1988	0	1.000	0	0
1989	0	1.000	0	0
1990	0	1.000	0	0
1991	0	1.000	0	0
1992	0	1.000	0	0
1993	0	1.000	0	0
1994	0	1.000	0	0
1995	0	1.000	0	0
1996	0	1.000	0	0
1997	0	1.000	0	0
1998	0	1.000	0	0
1999	0	1.000	0	0
2000	0	1.000	0	0
2001	0	0.990	0	0
2002	26	0.972	26	1
2003	272	0.955	260	12
2004	515	0.937	483	33
2005	474	0.919	436	38
2006	1,346	0.901	1,213	133
2007	1,120	0.883	989	131
2008	312	0.865	270	42
2009	674	0.847	571	103
2010	1,111	0.829	921	190
2011	970	0.812	787	183
2012	2,251	0.794	1,787	464
2013	2,202	0.776	1,710	493
2014	3,881	0.762	2,958	923
2015	4,151	0.753	3,126	1,025
2016	4,577	0.748	3,422	1,155
2017	5,500	0.744	4,091	1,409
2018	6,231	0.740	4,610	1,621
TOTAL	\$35,614		\$27,658	\$7,956

Notes:

(1) - Exhibit I, Page 1, Column (7).

(2) - Per AMI calculations, see Exhibit IX, Page 1 .

(3) = (1) x (2).

(4) = (1) - (3).

*Accident years are 12-month periods ending 9/30 of the stated year.

*Accident year 2018 is a 6-month partial year from 10/1/2017 to 3/31/2018.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
1977	\$0	1.000	\$0	\$0
1978	0	1.000	0	0
1979	0	1.000	0	0
1980	0	1.000	0	0
1981	23	1.000	23	0
1982	0	1.000	0	0
1983	0	1.000	0	0
1984	0	1.000	0	0
1985	0	1.000	0	0
1986	25	1.000	25	0
1987	0	1.000	0	0
1988	0	1.000	0	0
1989	117	1.000	117	0
1990	103	1.000	103	0
1991	130	1.000	130	0
1992	130	1.000	130	0
1993	52	1.000	52	0
1994	38	1.000	38	0
1995	415	0.981	407	8
1996	796	0.962	766	30
1997	397	0.944	375	22
1998	697	0.927	646	51
1999	562	0.910	512	51
2000	1,105	0.893	987	118
2001	1,936	0.883	1,709	227
2002	1,035	0.870	901	135
2003	1,113	0.859	956	157
2004	906	0.846	766	140
2005	1,265	0.831	1,051	213
2006	1,020	0.818	834	186
2007	1,044	0.804	839	205
2008	1,203	0.788	949	254
2009	862	0.773	666	196
2010	1,448	0.757	1,096	352
2011	1,300	0.740	962	338
2012	2,639	0.724	1,910	729
2013	2,343	0.707	1,657	686
2014	1,899	0.691	1,312	586
2015	5,140	0.684	3,516	1,623
2016	3,075	0.678	2,085	990
2017	3,159	0.675	2,133	1,026
2018	3,628	0.675	2,448	1,180
TOTAL	\$39,606		\$30,102	\$9,504

Notes:

(1) - Exhibit II, Page 1, Column (7).

(2) - Per AMI calculations, see Exhibit IX, Page 2.

(3) = (1) x (2).

(4) = (1) - (3).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
1978	0	1.000	0	0
1979	0	1.000	0	0
1980	0	1.000	0	0
1981	0	1.000	0	0
1982	0	1.000	0	0
1983	0	0.981	0	0
1984	1	0.958	1	0
1985	70	0.921	65	6
1986	1	0.886	1	0
1987	5	0.922	4	0
1988	5	0.922	4	0
1989	8	0.916	7	1
1990	39	0.904	35	4
1991	36	0.890	32	4
1992	20	0.876	18	3
1993	131	0.861	113	18
1994	29	0.846	24	4
1995	24	0.832	20	4
1996	29	0.817	24	5
1997	23	0.803	19	5
1998	50	0.789	40	11
1999	117	0.775	90	26
2000	372	0.761	283	89
2001	287	0.747	215	73
2002	228	0.768	175	53
2003	591	0.796	471	121
2004	319	0.806	257	62
2005	338	0.807	273	65
2006	747	0.803	600	147
2007	475	0.796	378	97
2008	733	0.787	577	157
2009	751	0.780	586	165
2010	846	0.776	656	189
2011	972	0.772	750	222
2012	976	0.766	748	228
2013	1,273	0.760	967	306
2014	1,069	0.751	803	266
2015	1,334	0.746	995	339
2016	1,723	0.740	1,275	448
2017	2,362	0.740	1,749	613
2018	2,957	0.790	2,336	620
TOTAL	\$18,941		\$14,590	\$4,351

Notes:

- (1) - Exhibit III, Page 1, Column (7).
 - (2) - Per AMI calculations, see Exhibit IX, Page 3.
 - (3) = (1) x (2).
 - (4) = (1) - (3).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
1978	0	1.000	0	0
1979	0	1.000	0	0
1980	0	1.000	0	0
1981	0	1.000	0	0
1982	0	1.000	0	0
1983	0	1.000	0	0
1984	0	1.000	0	0
1985	0	0.990	0	0
1986	8	0.971	8	0
1987	1	0.953	1	0
1988	13	0.937	12	1
1989	69	0.920	63	5
1990	11	0.916	10	1
1991	7	0.921	7	1
1992	16	0.914	15	1
1993	14	0.901	13	1
1994	125	0.890	111	14
1995	10	0.884	9	1
1996	27	0.876	24	3
1997	306	0.869	266	40
1998	55	0.865	48	7
1999	532	0.860	457	74
2000	122	0.854	104	18
2001	234	0.847	198	36
2002	386	0.836	322	63
2003	926	0.827	766	161
2004	372	0.817	304	68
2005	521	0.806	420	101
2006	290	0.795	230	59
2007	465	0.786	366	99
2008	527	0.778	410	117
2009	802	0.768	616	186
2010	1,142	0.758	865	277
2011	599	0.748	448	151
2012	666	0.739	492	174
2013	679	0.728	495	184
2014	868	0.719	624	244
2015	927	0.709	658	270
2016	1,415	0.702	994	421
2017	1,397	0.726	1,014	383
2018	1,707	0.772	1,318	390
TOTAL	\$15,242		\$11,688	\$3,554

Notes:

(1) - Exhibit IV, Page 1, Column (7).

(2) - Per AMI calculations, see Exhibit IX, Page 4.

(3) = (1) x (2).

(4) = (1) - (3).

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
1978 and Prior	16	1.000	\$16	\$0
1979	0	1.000	0	0
1980	0	1.000	0	0
1981	38	0.990	38	0
1982	58	0.963	56	2
1983	12	0.931	11	1
1984	31	0.902	28	3
1985	40	0.874	35	5
1986	13	0.848	11	2
1987	29	0.826	24	5
1988	68	0.811	55	13
1989	31	0.817	26	6
1990	52	0.830	43	9
1991	63	0.832	53	11
1992	140	0.828	116	24
1993	35	0.820	28	6
1994	28	0.813	22	5
1995	25	0.805	20	5
1996	55	0.796	44	11
1997	38	0.786	30	8
1998	47	0.775	36	10
1999	125	0.763	96	30
2000	74	0.752	56	19
2001	119	0.741	88	31
2002	213	0.732	156	57
2003	109	0.725	79	30
2004	110	0.722	79	31
2005	174	0.718	125	49
2006	221	0.714	158	63
2007	148	0.709	105	43
2008	224	0.702	157	67
2009	416	0.695	289	127
2010	369	0.687	254	115
2011	272	0.680	185	87
2012	527	0.674	355	172
2013	414	0.672	278	136
2014	414	0.677	281	134
2015	550	0.715	394	157
2016	859	0.762	655	204
2017	951	0.801	762	189
2018	1,779	0.834	1,484	295
TOTAL	\$8,885		\$6,725	\$2,161

Notes:

- (1) - Exhibit V, Page 1, Column (7).
 - (2) - Per AMI calculations, see Exhibit IX, Page 5.
 - (3) = (1) x (2).
 - (4) = (1) - (3).
- *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL NON-CITY AGENCIES COMBINED

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
1978 and Prior	\$0	1.000	\$0	\$0
1979	0	1.000	0	0
1980	24	1.000	24	0
1981	0	0.990	0	0
1982	0	0.963	0	0
1983	105	0.931	97	7
1984	0	0.902	0	0
1985	0	0.877	0	0
1986	0	0.854	0	0
1987	32	0.831	27	5
1988	0	0.810	0	0
1989	59	0.790	47	12
1990	0	0.774	0	0
1991	0	0.758	0	0
1992	0	0.741	0	0
1993	0	0.732	0	0
1994	18	0.744	13	5
1995	66	0.764	50	16
1996	86	0.773	67	20
1997	0	0.775	0	0
1998	0	0.772	0	0
1999	0	0.766	0	0
2000	0	0.758	0	0
2001	0	0.750	0	0
2002	0	0.741	0	0
2003	127	0.732	93	34
2004	200	0.722	144	55
2005	73	0.714	52	21
2006	126	0.709	89	37
2007	194	0.705	137	57
2008	178	0.702	125	53
2009	155	0.697	108	47
2010	0	0.693	0	0
2011	0	0.691	0	0
2012	201	0.687	138	63
2013	245	0.686	168	77
2014	361	0.691	250	112
2015	310	0.714	221	89
2016	373	0.775	289	84
2017	661	0.840	555	105
2018	1,120	0.871	975	145
TOTAL	\$4,712		\$3,668	\$1,043

DISCOUNTED RESERVES BY AGENCY

ACCIDENT YEAR*	DISCOUNTED RESERVES					TOTAL
	JEA	JEA-WS	JHA	JPA	JAA	
	(5)	(6)	(7)	(8)	(9)	
1978 and Prior	\$0	\$0	\$0	\$0	\$0	\$0
1979	0	0	0	0	0	0
1980	0	0	0	24	0	24
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	97	0	0	0	0	97
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	27	0	0	0	0	27
1988	0	0	0	0	0	0
1989	27	20	0	0	0	47
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	13	0	0	0	0	13
1995	50	0	0	0	0	50
1996	67	0	0	0	0	67
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	93	0	0	0	0	93
2004	144	0	0	0	0	144
2005	52	0	0	0	0	52
2006	89	0	0	0	0	89
2007	13	124	0	0	0	137
2008	3	121	0	0	0	125
2009	0	0	108	0	0	108
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	80	0	0	58	0	138
2013	54	113	0	0	0	168
2014	250	0	0	0	0	250
2015	105	0	0	0	116	221
2016	29	0	177	0	83	289
2017	477	13	22	39	4	555
2018	401	4	97	138	334	975
TOTAL	\$2,072	\$396	\$404	\$259	\$536	\$3,668

Notes:
(1) - Exhibit VI, Page 1, Column (7).
(2) - Per AMI calculations, see Exhibit IX, Page 6.
(3) = (1) x (2).
(4) = (1) - (3).
(5) - (2) x Column (5) of Exhibit VI-A, Page 1.
(6) - (2) x Column (5) of Exhibit VI-B, Page 1.
(7) - (2) x Column (5) of Exhibit VI-C, Page 1.
(8) - (2) x Column (5) of Exhibit VI-D, Page 1.
(9) - (2) x Column (5) of Exhibit VI-E, Page 1.
*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

CITY AND NON-CITY AGENCIES COMBINED

ACCIDENT YEAR*	UNDISCOUNTED RESERVES	DISCOUNT FACTORS	DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
1994	\$0	1.000	\$0	\$0
1995	0	1.000	0	0
1996	0	1.000	0	0
1997	0	1.000	0	0
1998	0	1.000	0	0
1999	0	1.000	0	0
2000	0	1.000	0	0
2001	0	1.000	0	0
2002	0	1.000	0	0
2003	0	1.000	0	0
2004	0	1.000	0	0
2005	3	0.981	3	0
2006	20	0.968	19	1
2007	0	0.963	0	0
2008	0	0.948	0	0
2009	56	0.931	52	4
2010	109	0.916	100	9
2011	578	0.903	522	56
2012	227	0.892	203	24
2013	402	0.907	364	38
2014	632	0.928	587	45
2015	901	0.923	831	70
2016	1,555	0.927	1,441	114
2017	2,285	0.920	2,102	183
2018	3,188	0.908	2,895	293
TOTAL	\$9,957		\$9,120	\$837

DISCOUNTED RESERVES ALLOCATED TO CITY AND NON-CITY AGENCIES

ACCIDENT YEAR*	DISCOUNTED RESERVES								
	CITY OTHER THAN SHERIFF AND FIRE	CITY SHERIFF	CITY FIRE	JEA	JEA-WS	JHA	JPA	JAA	TOTAL
	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1994	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1995	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0
2005	3	0	0	0	0	0	0	0	3
2006	19	0	0	0	0	0	0	0	19
2007	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	52	0	0	0	52
2010	0	24	0	76	0	0	0	0	100
2011	522	0	0	0	0	0	0	0	522
2012	184	18	0	0	0	0	0	0	203
2013	173	149	0	42	0	0	0	0	364
2014	290	136	0	58	103	0	0	0	587
2015	314	293	12	4	142	68	0	0	831
2016	959	318	0	90	41	32	0	0	1,441
2017	1,037	841	12	25	154	29	4	0	2,102
2018	1,694	620	6	237	327	10	0	0	2,895
TOTAL	\$5,196	\$2,399	\$30	\$532	\$820	\$139	\$4	\$0	\$9,120

Notes:

- (1) - Exhibit VII, Page 1, Column (7).
- (2) - Per AMI calculations, see Exhibit IX, Page 7.
- (3) = (1) x (2).
- (4) = (1) - (3).
- (5) - (2) x Column (5) of Exhibit VII-A, Page 1.
- (6) - (2) x Column (5) of Exhibit VII-A, Page 3.
- (7) - (2) x Column (5) of Exhibit VII-A, Page 5.
- (8) - (2) x Column (5) of Exhibit VII-B, Page 1.
- (9) - (2) x Column (5) of Exhibit VII-C, Page 1.
- (10) - (2) x Column (5) of Exhibit VII-D, Page 1.
- (11) - (2) x Column (5) of Exhibit VII-E, Page 1.
- (12) - (2) x Column (5) of Exhibit VII-F, Page 1.
- (13) - Sum of Columns (5) to (12)

*Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF DISCOUNTED RESERVES
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

CITY AND NON-CITY AGENCIES COMBINED

ACCIDENT YEAR*	UNDISCOUNTED RESERVES (1)	DISCOUNT FACTORS (2)	DISCOUNTED RESERVES (3)	FUTURE INVESTMENT INCOME (4)
1994	\$0	1.000	\$0	\$0
1995	0	1.000	0	0
1996	0	1.000	0	0
1997	0	1.000	0	0
1998	0	1.000	0	0
1999	0	1.000	0	0
2000	0	1.000	0	0
2001	0	1.000	0	0
2002	0	1.000	0	0
2003	0	1.000	0	0
2004	0	1.000	0	0
2005	0	1.000	0	0
2006	0	1.000	0	0
2007	0	1.000	0	0
2008	11	1.000	11	0
2009	0	1.000	0	0
2010	18	1.000	18	0
2011	17	1.000	17	0
2012	7	0.981	7	0
2013	0	0.971	0	0
2014	178	0.971	173	5
2015	223	0.963	215	8
2016	494	0.958	474	21
2017	1,070	0.950	1,016	54
2018	1,809	0.939	1,700	110
TOTAL	\$3,828		\$3,630	\$198

DISCOUNTED RESERVES ALLOCATED TO CITY AND NON-CITY AGENCIES

ACCIDENT YEAR*	DISCOUNTED RESERVES									TOTAL (13)
	CITY OTHER THAN SHERIFF AND FIRE (5)	CITY SHERIFF (6)	CITY FIRE (7)	JEA (8)	JEA-WS (9)	JHA (10)	JPA (11)	JAA (12)		
1994	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0
2008	0	0	11	0	0	0	0	0	0	11
2009	0	0	0	0	0	0	0	0	0	0
2010	0	18	0	0	0	0	0	0	0	18
2011	0	17	0	0	0	0	0	0	0	17
2012	0	7	0	0	0	0	0	0	0	7
2013	0	0	0	0	0	0	0	0	0	0
2014	84	83	0	5	0	0	0	0	0	173
2015	0	215	0	0	0	0	0	0	0	215
2016	37	261	91	85	0	0	0	0	0	474
2017	164	472	195	185	0	0	0	0	0	1,016
2018	246	772	177	503	0	0	2	0	0	1,700
TOTAL	\$530	\$1,845	\$475	\$778	\$0	\$0	\$2	\$0	\$0	\$3,630

Notes:

- (1) - Exhibit VIII, Page 1, Column (7).
 - (2) - Per AMI calculations, see Exhibit IX, Page 8.
 - (3) = (1) x (2).
 - (4) = (1) - (3).
 - (5) - (2) x Column (5) of Exhibit VIII-A, Page 1.
 - (6) - (2) x Column (5) of Exhibit VIII-A, Page 3.
 - (7) - (2) x Column (5) of Exhibit VIII-A, Page 5.
 - (8) - (2) x Column (5) of Exhibit VIII-B, Page 1.
 - (9) - (2) x Column (5) of Exhibit VIII-C, Page 1.
 - (10) - (2) x Column (5) of Exhibit VIII-D, Page 1.
 - (11) - (2) x Column (5) of Exhibit VIII-E, Page 1.
 - (12) - (2) x Column (5) of Exhibit VIII-F, Page 1.
 - (13) - Sum of Columns (5) to (12).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

EXPECTED CONFIDENCE LEVEL

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1977	\$0	0.00%	\$0
1978	0	0.00%	0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.00%	0
1983	0	0.00%	0
1984	0	0.00%	0
1985	0	0.00%	0
1986	0	0.00%	0
1987	0	0.00%	0
1988	0	0.00%	0
1989	0	0.00%	0
1990	0	0.00%	0
1991	0	0.00%	0
1992	0	0.00%	0
1993	0	0.00%	0
1994	0	0.00%	0
1995	0	0.00%	0
1996	0	0.00%	0
1997	0	0.00%	0
1998	0	0.00%	0
1999	0	0.00%	0
2000	0	0.00%	0
2001	0	0.00%	0
2002	26	4.76%	1
2003	272	5.68%	15
2004	515	5.94%	31
2005	474	5.52%	26
2006	1,346	5.72%	77
2007	1,120	5.31%	59
2008	312	4.95%	15
2009	674	4.71%	32
2010	1,111	4.44%	49
2011	970	4.35%	42
2012	2,251	4.01%	90
2013	2,202	3.68%	81
2014	3,881	3.58%	139
2015	4,151	5.26%	218
2016	4,577	6.29%	288
2017	5,500	8.17%	449
2018	6,231	8.30%	517
2019	6,686	9.35%	625
TOTAL	\$42,300		\$2,756

Notes:

- (1) - Exhibit I, Page 1, Column (6).
- (2) - Per AMI calculation based on selected factors in Exhibit I, Page 5E-5H.
- (3) = (1) x (2).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1977	\$0	0.00%	\$0
1978	0	0.00%	0
1979	0	0.00%	0
1980	0	0.00%	0
1981	23	0.00%	0
1982	0	0.00%	0
1983	0	0.00%	0
1984	0	0.00%	0
1985	0	0.00%	0
1986	25	0.00%	0
1987	0	0.00%	0
1988	0	0.00%	0
1989	117	0.00%	0
1990	103	0.00%	0
1991	130	0.00%	0
1992	130	0.00%	0
1993	52	0.00%	0
1994	38	0.00%	0
1995	415	2.70%	11
1996	796	2.76%	22
1997	397	2.83%	11
1998	697	2.91%	20
1999	562	3.00%	17
2000	1,105	3.00%	33
2001	1,936	4.18%	81
2002	1,035	4.07%	42
2003	1,113	4.69%	52
2004	906	4.45%	40
2005	1,265	4.23%	54
2006	1,020	4.39%	45
2007	1,044	4.21%	44
2008	1,203	3.89%	47
2009	862	3.61%	31
2010	1,448	3.34%	48
2011	1,300	3.08%	40
2012	2,639	2.86%	76
2013	2,343	2.65%	62
2014	1,899	2.57%	49
2015	5,140	4.58%	235
2016	3,075	4.98%	153
2017	3,159	5.94%	188
2018	3,628	7.15%	259
2019	4,396	7.92%	348
TOTAL	\$44,002		\$2,009

Notes:

- (1) - Exhibit II, Page 1, Column (6).
- (2) - Per AMI calculation based on selected factors in Exhibit II, Page 5E-5H.
- (3) = (1) x (2).

*Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.00%	0
1983	0	0.15%	0
1984	1	0.10%	0
1985	70	0.00%	0
1986	1	0.00%	0
1987	5	0.30%	0
1988	5	0.33%	0
1989	8	0.39%	0
1990	39	0.39%	0
1991	36	0.39%	0
1992	20	0.39%	0
1993	131	0.39%	1
1994	29	0.39%	0
1995	24	0.39%	0
1996	29	0.38%	0
1997	23	0.38%	0
1998	50	0.38%	0
1999	117	0.38%	0
2000	372	0.37%	1
2001	287	0.36%	1
2002	228	1.39%	3
2003	591	2.26%	13
2004	319	2.21%	7
2005	338	2.15%	7
2006	747	2.10%	16
2007	475	2.05%	10
2008	733	2.00%	15
2009	751	2.36%	18
2010	846	2.84%	24
2011	972	3.08%	30
2012	976	3.22%	31
2013	1,273	3.26%	41
2014	1,069	3.11%	33
2015	1,334	3.88%	52
2016	1,723	3.89%	67
2017	2,362	5.53%	131
2018	2,957	21.05%	622
2019	4,174	27.75%	1,159
TOTAL	\$23,115		\$2,283

Notes:

- (1) - Exhibit III, Page 1, Column (6).
- (2) - Per AMI calculation based on selected factors in Exhibit III, Page 5E-5H.
- (3) = (1) x (2).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED UNPAID @9/30/2018	EXPECTED % PAID DURING FY 2018/2019	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019
	(1)	(2)	(3)
1978	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.00%	0
1983	0	0.00%	0
1984	0	0.00%	0
1985	0	0.00%	0
1986	8	0.10%	0
1987	1	0.10%	0
1988	13	0.10%	0
1989	69	0.14%	0
1990	11	0.09%	0
1991	7	0.44%	0
1992	16	0.52%	0
1993	14	0.49%	0
1994	125	0.46%	1
1995	10	0.74%	0
1996	27	0.90%	0
1997	306	0.91%	3
1998	55	1.28%	1
1999	532	1.61%	9
2000	122	1.62%	2
2001	234	2.04%	5
2002	386	1.99%	8
2003	926	1.92%	18
2004	372	2.26%	8
2005	521	2.16%	11
2006	290	2.32%	7
2007	465	2.27%	11
2008	527	2.87%	15
2009	802	2.79%	22
2010	1,142	2.69%	31
2011	599	2.58%	15
2012	666	3.08%	20
2013	679	2.93%	20
2014	868	2.79%	24
2015	927	3.16%	29
2016	1,415	2.98%	42
2017	1,397	4.20%	59
2018	1,707	18.58%	317
2019	2,830	26.89%	761
TOTAL	\$18,072		\$1,439

Notes:

- (1) - Exhibit IV, Page 1, Column (6).
 - (2) - Per AMI calculation based on selected factors in Exhibit IV, Page 5E-5H.
 - (3) = (1) x (2).
- *Accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CL
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED UNPAID @9/30/2018	EXPECTED % PAID DURING FY 2018/2019	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019
	(1)	(2)	(3)
1978 and Prior	\$16	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	38	0.00%	0
1982	58	0.99%	1
1983	12	0.10%	0
1984	31	0.10%	0
1985	40	0.10%	0
1986	13	0.06%	0
1987	29	0.10%	0
1988	68	0.10%	0
1989	31	0.19%	0
1990	52	0.59%	0
1991	63	0.58%	0
1992	140	0.58%	1
1993	35	0.58%	0
1994	28	0.57%	0
1995	25	0.66%	0
1996	55	0.66%	0
1997	38	0.68%	0
1998	47	0.65%	0
1999	125	0.64%	1
2000	74	0.63%	0
2001	119	0.64%	1
2002	213	0.73%	2
2003	109	0.73%	1
2004	110	1.05%	1
2005	174	1.05%	2
2006	221	1.20%	3
2007	148	1.17%	2
2008	224	1.16%	3
2009	416	1.16%	5
2010	369	1.15%	4
2011	272	1.22%	3
2012	527	1.26%	7
2013	414	1.41%	6
2014	414	1.98%	8
2015	550	2.90%	16
2016	859	10.89%	94
2017	951	10.60%	101
2018	1,779	24.88%	443
2019	2,529	26.27%	664
TOTAL	\$11,414		\$1,368

Notes:

- (1) - Exhibit V, Page 1, Column (6).
- (2) - Per AMI calculation based on selected factors in Exhibit V, Page 5E-5H.
- (3) = (1) x (2).
- (4) = (3) - (1).
- *Accident years prior to 2018 are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978 and Prior	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.99%	0
1983	105	0.08%	0
1984	0	0.10%	0
1985	0	0.10%	0
1986	0	0.13%	0
1987	32	0.10%	0
1988	0	0.10%	0
1989	34	0.10%	0
1990	0	0.10%	0
1991	0	0.14%	0
1992	0	0.09%	0
1993	0	0.12%	0
1994	18	0.21%	0
1995	66	0.58%	0
1996	86	0.58%	0
1997	0	0.61%	0
1998	0	0.57%	0
1999	0	0.57%	0
2000	0	0.53%	0
2001	0	0.53%	0
2002	0	0.57%	0
2003	127	0.55%	1
2004	200	0.53%	1
2005	73	0.57%	0
2006	126	0.68%	1
2007	18	0.76%	0
2008	5	0.89%	0
2009	0	0.87%	0
2010	0	0.87%	0
2011	0	1.12%	0
2012	116	1.10%	1
2013	79	1.08%	1
2014	361	1.58%	6
2015	147	2.07%	3
2016	38	5.23%	2
2017	568	16.49%	94
2018	461	29.01%	134
2019	912	29.71%	271
TOTAL	\$3,571		\$516

Notes:

(1)- Per Exhibit VI-A, Page 1, Column (5)

(2) - Per AMI calculation based on selected factors in Exhibit VI, Page 5E-5H.

(3) = (1) x (2).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Electric Authority-Water and Sewer
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978 and Prior	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.99%	0
1983	0	0.08%	0
1984	0	0.10%	0
1985	0	0.10%	0
1986	0	0.13%	0
1987	0	0.10%	0
1988	0	0.10%	0
1989	25	0.10%	0
1990	0	0.10%	0
1991	0	0.14%	0
1992	0	0.09%	0
1993	0	0.12%	0
1994	0	0.21%	0
1995	0	0.58%	0
1996	0	0.58%	0
1997	0	0.61%	0
1998	0	0.57%	0
1999	0	0.57%	0
2000	0	0.53%	0
2001	0	0.53%	0
2002	0	0.57%	0
2003	0	0.55%	0
2004	0	0.53%	0
2005	0	0.57%	0
2006	0	0.68%	0
2007	176	0.76%	1
2008	173	0.89%	2
2009	0	0.87%	0
2010	0	0.87%	0
2011	0	1.12%	0
2012	0	1.10%	0
2013	165	1.08%	2
2014	0	1.58%	0
2015	0	2.07%	0
2016	0	5.23%	0
2017	16	16.49%	3
2018	5	29.01%	1
2019	140	29.71%	42
TOTAL	\$700		\$50

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Per AMI calculation based on selected factors in Exhibit VI, Page 5E-5H.
- (3) = (1) x (2).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Housing Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978 and Prior	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.99%	0
1983	0	0.08%	0
1984	0	0.10%	0
1985	0	0.10%	0
1986	0	0.13%	0
1987	0	0.10%	0
1988	0	0.10%	0
1989	0	0.10%	0
1990	0	0.10%	0
1991	0	0.14%	0
1992	0	0.09%	0
1993	0	0.12%	0
1994	0	0.21%	0
1995	0	0.58%	0
1996	0	0.58%	0
1997	0	0.61%	0
1998	0	0.57%	0
1999	0	0.57%	0
2000	0	0.53%	0
2001	0	0.53%	0
2002	0	0.57%	0
2003	0	0.55%	0
2004	0	0.53%	0
2005	0	0.57%	0
2006	0	0.68%	0
2007	0	0.76%	0
2008	0	0.89%	0
2009	155	0.87%	1
2010	0	0.87%	0
2011	0	1.12%	0
2012	0	1.10%	0
2013	0	1.08%	0
2014	0	1.58%	0
2015	0	2.07%	0
2016	229	5.23%	12
2017	27	16.49%	4
2018	112	29.01%	32
2019	171	29.71%	51
TOTAL	\$693		\$101

Notes:

- (1)- Per Exhibit VI-C, Page 1, Column (5)
- (2) - Per AMI calculation based on selected factors in Exhibit VI, Page 5E-5H.
- (3) = (1) x (2).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Jacksonville Port Authority
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978 and Prior	\$0	0.00%	\$0
1979	0	0.00%	0
1980	24	0.00%	0
1981	0	0.00%	0
1982	0	0.99%	0
1983	0	0.08%	0
1984	0	0.10%	0
1985	0	0.10%	0
1986	0	0.13%	0
1987	0	0.10%	0
1988	0	0.10%	0
1989	0	0.10%	0
1990	0	0.10%	0
1991	0	0.14%	0
1992	0	0.09%	0
1993	0	0.12%	0
1994	0	0.21%	0
1995	0	0.58%	0
1996	0	0.58%	0
1997	0	0.61%	0
1998	0	0.57%	0
1999	0	0.57%	0
2000	0	0.53%	0
2001	0	0.53%	0
2002	0	0.57%	0
2003	0	0.55%	0
2004	0	0.53%	0
2005	0	0.57%	0
2006	0	0.68%	0
2007	0	0.76%	0
2008	0	0.89%	0
2009	0	0.87%	0
2010	0	0.87%	0
2011	0	1.12%	0
2012	85	1.10%	1
2013	0	1.08%	0
2014	0	1.58%	0
2015	0	2.07%	0
2016	0	5.23%	0
2017	46	16.49%	8
2018	159	29.01%	46
2019	91	29.71%	27
TOTAL	\$404		\$82

Notes:

- (1)- Per Exhibit VI-D, Page 1, Column (5)
- (2) - Per AMI calculation based on selected factors in Exhibit VI, Page 5E-5H.
- (3) = (1) x (2).
- (4) = (3) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
AS OF SEPTEMBER 30, 2018
CALCULATION OF PAID LOSS CASH FLOW - FISCAL YEAR 2018/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
Other Aviation (Non-H&H, Non-PTSD Aviation Sheriff)
(\$AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEARS*	ESTIMATED UNPAID @9/30/2018 (1)	EXPECTED % PAID DURING FY 2018/2019 (2)	RESERVE METHOD PROJECTED CASHFLOW FY 2018/2019 (3)
1978 and Prior	\$0	0.00%	\$0
1979	0	0.00%	0
1980	0	0.00%	0
1981	0	0.00%	0
1982	0	0.99%	0
1983	0	0.08%	0
1984	0	0.10%	0
1985	0	0.10%	0
1986	0	0.13%	0
1987	0	0.10%	0
1988	0	0.10%	0
1989	0	0.10%	0
1990	0	0.10%	0
1991	0	0.14%	0
1992	0	0.09%	0
1993	0	0.12%	0
1994	0	0.21%	0
1995	0	0.58%	0
1996	0	0.58%	0
1997	0	0.61%	0
1998	0	0.57%	0
1999	0	0.57%	0
2000	0	0.53%	0
2001	0	0.53%	0
2002	0	0.57%	0
2003	0	0.55%	0
2004	0	0.53%	0
2005	0	0.57%	0
2006	0	0.68%	0
2007	0	0.76%	0
2008	0	0.89%	0
2009	0	0.87%	0
2010	0	0.87%	0
2011	0	1.12%	0
2012	0	1.10%	0
2013	0	1.08%	0
2014	0	1.58%	0
2015	163	2.07%	3
2016	107	21.72%	23
2017	5	45.50%	2
2018	383	29.01%	111
2019	331	29.71%	98
TOTAL	\$988		\$238

Notes:

- (1)- Per Exhibit VI-D, Page 1, Column (5)
- (2) - Per AMI calculation based on selected factors in Exhibit VI, Page 5E-5H.
- (3) = (1) x (2).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018	EXPECTED INCURRED LOSS AT 9/30/2019	EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019
	(1)	(2)	(3)
1977	\$0	\$0	\$0
1978	0	0	0
1979	0	0	0
1980	2	2	0
1981	0	0	0
1982	16	16	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	1	1	0
1995	0	0	0
1996	32	32	0
1997	174	174	0
1998	0	0	0
1999	2	2	0
2000	647	647	0
2001	3	3	0
2002	444	444	0
2003	1,926	1,926	3
2004	1,721	1,726	3
2005	1,374	1,378	3
2006	3,652	3,670	102
2007	3,201	3,379	96
2008	1,890	2,004	57
2009	1,310	1,389	40
2010	2,376	2,522	74
2011	1,020	1,083	32
2012	3,573	3,794	110
2013	2,287	2,428	71
2014	4,172	4,431	258
2015	3,888	4,368	283
2016	3,139	3,596	670
2017	2,208	3,150	440
2018	1,602	2,241	1,231
TOTAL	\$40,660	\$44,407	\$3,472

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Incurred losses 9/30/2018, developed for 12 additional months.
- (3) = (2) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018 (1)	EXPECTED INCURRED LOSS AT 9/30/2019 (2)	EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019 (3)
1977	\$0	\$0	\$0
1978	358	358	0
1979	5	5	0
1980	505	505	0
1981	1,507	1,507	0
1982	1,625	1,625	0
1983	1,694	1,694	0
1984	1,891	1,891	0
1985	906	906	0
1986	1,034	1,034	0
1987	94	94	0
1988	2,401	2,401	0
1989	3,471	3,471	0
1990	2,208	2,208	0
1991	1,995	1,995	0
1992	698	698	0
1993	651	651	0
1994	2,745	2,745	0
1995	4,016	4,071	55
1996	9,204	9,337	133
1997	4,516	4,586	70
1998	4,520	4,724	203
1999	3,203	3,347	144
2000	5,179	5,412	233
2001	7,663	8,008	345
2002	3,627	3,791	163
2003	3,265	3,494	229
2004	2,467	2,640	173
2005	2,513	2,688	176
2006	1,129	1,208	79
2007	419	448	29
2008	1,393	1,491	98
2009	526	562	37
2010	1,173	1,255	82
2011	903	966	63
2012	1,987	2,126	139
2013	1,372	1,467	96
2014	592	639	47
2015	4,027	4,389	362
2016	1,115	1,220	105
2017	836	1,125	288
2018	626	925	299
TOTAL	\$90,056	\$93,705	\$3,649

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Incurred losses 9/30/2018, developed for 12 additional months.
- (3) = (2) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018	EXPECTED INCURRED LOSS AT 9/30/2019	EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019
	(1)	(2)	(3)
1978	\$797	\$797	\$0
1979	1,461	1,461	0
1980	934	934	0
1981	690	690	0
1982	1,309	1,309	0
1983	619	619	0
1984	968	968	0
1985	1,031	1,031	0
1986	559	559	0
1987	1,649	1,649	0
1988	1,036	1,036	0
1989	1,078	1,080	2
1990	3,739	3,747	7
1991	2,657	2,663	5
1992	1,232	1,234	2
1993	4,114	4,124	9
1994	1,268	1,270	3
1995	922	923	2
1996	930	931	2
1997	727	728	1
1998	551	552	1
1999	2,183	2,190	7
2000	3,302	3,312	10
2001	3,159	3,181	22
2002	3,081	3,111	30
2003	4,023	4,063	40
2004	2,526	2,562	36
2005	2,364	2,397	33
2006	3,873	3,932	58
2007	1,741	1,768	26
2008	3,832	3,889	57
2009	2,787	2,857	70
2010	2,806	2,876	70
2011	3,066	3,143	77
2012	2,605	2,605	0
2013	2,845	2,920	75
2014	1,934	1,987	54
2015	2,253	2,318	65
2016	2,949	2,949	0
2017	4,932	4,932	0
2018	4,462	4,652	191
TOTAL	\$88,992	\$89,948	\$956

Notes:
(1)- Per CITY OF JACKSONVILLE.
(2) - Incurred losses 9/30/2018, developed for 12 additional months.
(3) = (2) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018	EXPECTED INCURRED LOSS AT 9/30/2019	EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019
	(1)	(2)	(3)
1978	\$509	\$509	\$0
1979	657	657	0
1980	745	745	0
1981	815	815	0
1982	687	687	0
1983	368	368	0
1984	668	668	0
1985	860	860	0
1986	902	902	0
1987	1,316	1,316	0
1988	1,914	1,914	0
1989	1,861	1,861	0
1990	589	589	0
1991	1,217	1,220	3
1992	1,655	1,658	3
1993	1,084	1,086	2
1994	2,232	2,239	8
1995	408	410	2
1996	523	526	3
1997	2,273	2,286	14
1998	1,175	1,175	0
1999	3,272	3,292	20
2000	1,412	1,431	19
2001	2,279	2,400	121
2002	2,790	2,800	11
2003	4,461	4,528	67
2004	2,035	2,065	31
2005	2,356	2,392	35
2006	1,030	1,051	21
2007	1,447	1,476	29
2008	1,510	1,540	30
2009	2,307	2,353	46
2010	3,201	3,266	64
2011	1,113	1,135	22
2012	1,182	1,229	47
2013	1,038	1,079	42
2014	1,226	1,275	49
2015	1,083	1,127	43
2016	1,931	2,008	77
2017	1,606	1,670	64
2018	2,022	2,210	188
TOTAL	\$61,756	\$62,817	\$1,062

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Incurred losses 9/30/2018, developed for 12 additional months.
- (3) = (2) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018	EXPECTED INCURRED LOSS AT 9/30/2019	FUTURE EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019
	(1)	(2)	(3)
1978 and Prior	\$426	\$426	\$0
1979	902	902	0
1980	2,945	2,945	0
1981	2,118	2,118	0
1982	2,132	2,132	0
1983	1,456	1,457	1
1984	4,408	4,412	4
1985	1,899	1,901	2
1986	1,419	1,420	2
1987	2,948	2,951	3
1988	4,917	4,922	5
1989	2,453	2,454	1
1990	4,357	4,359	2
1991	3,386	3,386	0
1992	3,537	3,539	2
1993	2,498	2,500	2
1994	1,864	1,866	2
1995	1,232	1,236	4
1996	2,210	2,217	7
1997	1,255	1,259	4
1998	1,305	1,310	4
1999	1,736	1,741	5
2000	1,625	1,630	5
2001	2,151	2,158	7
2002	2,451	2,463	12
2003	1,675	1,684	9
2004	1,614	1,624	9
2005	1,730	1,740	10
2006	1,370	1,382	12
2007	1,075	1,085	9
2008	1,510	1,526	15
2009	2,656	2,700	44
2010	1,502	1,528	26
2011	1,029	1,046	17
2012	3,005	3,061	55
2013	1,935	1,970	35
2014	1,736	1,768	32
2015	2,013	2,058	45
2016	1,794	1,898	104
2017	1,434	1,434	0
2018	1,743	2,089	346
TOTAL	\$85,452	\$86,294	\$842

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Incurred losses @9/30/2018, developed for 12 additional months.
- (3) = (2) - (1).

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
CALCULATION OF EXPECTED INCURRED BETWEEN 9/30/2018 and 9/30/2019
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

ALL NON-CITY AGENCIES COMBINED

ACCIDENT YEAR*	INCURRED LOSS @9/30/2018 (1)	EXPECTED INCURRED LOSS AT 9/30/2019 (2)	EXPECTED INCURRED BETWEEN 9/30/2018 AND 9/30/2019 (3)
1978 and Prior	\$537	\$537	\$0
1979	680	680	0
1980	1,105	1,105	0
1981	3,095	3,095	0
1982	819	819	0
1983	2,180	2,180	0
1984	1,136	1,136	0
1985	1,516	1,516	0
1986	1,101	1,101	0
1987	3,166	3,166	0
1988	2,604	2,604	0
1989	1,601	1,602	2
1990	2,618	2,620	2
1991	2,314	2,316	2
1992	2,747	2,749	2
1993	1,590	1,592	2
1994	1,435	1,438	3
1995	1,921	1,929	8
1996	1,781	1,788	7
1997	1,417	1,423	6
1998	1,191	1,196	5
1999	649	652	3
2000	673	675	3
2001	776	779	3
2002	2,068	2,076	8
2003	1,639	1,645	7
2004	1,089	1,093	4
2005	819	822	3
2006	687	690	3
2007	890	895	4
2008	955	962	7
2009	1,412	1,423	11
2010	495	499	4
2011	418	422	4
2012	1,278	1,291	13
2013	997	1,007	10
2014	1,744	1,764	21
2015	1,079	1,101	22
2016	1,418	1,450	31
2017	1,259	1,339	79
2018	731	933	202
TOTAL	\$57,630	\$58,110	\$481

Notes:

- (1)- Per CITY OF JACKSONVILLE.
- (2) - Incurred losses @9/30/2018, developed for 12 additional months.
- (3) = (2) - (1).

Section VII – Appendix

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF ULTIMATE LOSS ESTIMATES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	13,091	13,418	13,251	11,694	14,662	16,026	16,294	18,844	22,189	21,618	21,688
1 YEAR LATER	12,684	12,981	13,467	10,381	17,726	15,642	18,062	22,422	22,123	22,298	
2 YEARS LATER	12,809	13,243	13,886	12,031	19,270	16,365	19,066	21,223	21,364		
3 YEARS LATER	12,329	12,049	16,560	11,814	20,730	16,030	17,366	21,882			
4 YEARS LATER	12,432	13,136	17,517	12,137	19,672	15,028	17,755				
5 YEARS LATER	12,617	13,384	16,373	11,922	18,796	15,880					
6 YEARS LATER	12,850	13,415	15,570	11,499	19,155						
7 YEARS LATER	14,878	13,513	15,403	11,251							
8 YEARS LATER	13,981	13,738	15,090								
9 YEARS LATER	14,208	13,503									
10 YEARS LATER	13,607										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED INCURRED LOSSES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	11,998	8,317	7,914	5,961	11,378	8,444	9,194	8,884	9,325	10,128	11,186
1 YEAR LATER	8,959	9,398	10,233	6,938	11,764	9,046	9,849	12,234	11,370	12,276	
2 YEARS LATER	9,531	9,240	10,429	7,311	12,343	9,235	10,610	13,950	12,346		
3 YEARS LATER	9,406	9,578	11,519	7,132	12,998	9,636	10,992	14,342			
4 YEARS LATER	9,811	9,693	12,628	7,595	13,048	9,839	11,404				
5 YEARS LATER	10,061	10,122	11,504	7,636	13,121	10,473					
6 YEARS LATER	10,097	10,461	11,452	7,655	13,629						
7 YEARS LATER	11,012	10,681	11,278	7,548							
8 YEARS LATER	10,877	10,744	11,554								
9 YEARS LATER	10,960	10,997									
10 YEARS LATER	11,090										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED PAID LOSSES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	2,742	2,923	3,201	2,859	3,672	3,353	3,955	4,210	4,550	4,217	4,266
1 YEAR LATER	5,163	6,207	5,411	4,444	6,773	5,860	6,744	7,885	8,198	8,268	
2 YEARS LATER	6,181	7,430	6,411	5,343	8,423	6,886	8,096	9,680	9,341		
3 YEARS LATER	6,843	8,061	7,752	5,936	10,130	7,511	8,582	11,002			
4 YEARS LATER	7,335	8,429	8,646	6,433	10,908	7,935	9,263				
5 YEARS LATER	7,697	8,619	9,129	6,527	11,337	8,724					
6 YEARS LATER	8,035	9,016	9,424	6,627	11,896						
7 YEARS LATER	9,740	9,267	9,719	6,855							
8 YEARS LATER	10,203	9,579	10,039								
9 YEARS LATER	10,303	9,776									
10 YEARS LATER	10,453										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF ULTIMATE LOSS ESTIMATES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	5,994	4,794	4,485	4,794	4,993	4,715	5,126	5,623	5,827	6,144	6,097
1 YEAR LATER	5,617	4,595	4,615	4,483	4,884	4,426	6,393	6,177	5,553	6,165	
2 YEARS LATER	5,156	4,716	4,269	5,073	5,260	5,232	6,237	6,047	5,436		
3 YEARS LATER	4,861	4,464	4,424	4,857	5,419	5,362	6,334	6,034			
4 YEARS LATER	4,443	4,579	4,388	8,010	5,239	5,469	6,489				
5 YEARS LATER	4,732	4,496	4,262	7,983	6,669	5,416					
6 YEARS LATER	4,729	4,515	4,136	7,995	6,717						
7 YEARS LATER	4,716	4,504	4,147	7,988							
8 YEARS LATER	4,696	4,424	3,893								
9 YEARS LATER	4,695	4,481									
10 YEARS LATER	4,695										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED INCURRED LOSSES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	3,791	2,847	2,618	2,928	3,220	3,002	4,054	2,955	3,365	3,356	3,313
1 YEAR LATER	4,282	3,547	3,639	3,913	4,372	3,785	5,144	4,691	4,145	4,804	
2 YEARS LATER	4,597	4,203	3,857	4,753	4,964	4,763	5,572	5,239	4,823		
3 YEARS LATER	4,599	4,249	4,268	4,490	5,239	5,085	6,129	5,657			
4 YEARS LATER	4,389	4,531	4,287	7,869	5,143	5,337	6,375				
5 YEARS LATER	4,679	4,434	4,185	7,863	6,485	5,335					
6 YEARS LATER	4,642	4,442	4,073	7,891	6,605						
7 YEARS LATER	4,631	4,411	4,092	7,911							
8 YEARS LATER	4,618	4,424	3,850								
9 YEARS LATER	4,695	4,425									
10 YEARS LATER	4,695										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
ELEVEN-YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED PAID LOSSES

	ACCIDENT YEAR										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	1,495	1,192	1,019	1,242	1,333	1,126	1,395	1,372	1,349	1,227	1,099
1 YEAR LATER	2,372	2,082	2,221	2,329	2,076	2,025	3,084	3,119	2,458	2,810	
2 YEARS LATER	3,325	2,972	2,702	3,236	3,071	3,311	4,066	4,089	3,386		
3 YEARS LATER	3,766	3,257	3,351	4,106	4,013	4,349	5,044	4,910			
4 YEARS LATER	4,015	3,918	3,582	4,464	4,297	4,768	5,679				
5 YEARS LATER	4,533	4,088	3,686	5,697	6,259	5,014					
6 YEARS LATER	4,563	4,297	3,762	6,756	6,482						
7 YEARS LATER	4,571	4,400	3,765	7,393							
8 YEARS LATER	4,591	4,424	3,766								
9 YEARS LATER	4,680	4,424									
10 YEARS LATER	4,684										

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF ULTIMATE LOSS ESTIMATES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	10,630	10,200	9,574	10,882	11,180	11,725	10,766	12,824	11,799	10,451	13,091	13,418	13,251	11,694	14,662	16,026	16,294	18,844	22,189	21,618	21,688
1 YEAR LATER	9,330	7,607	9,153	10,685	11,668	13,459	9,701	11,609	10,626	10,523	12,684	12,981	13,467	10,381	17,726	15,642	18,062	22,422	22,123	22,298	
2 YEARS LATER	7,043	7,102	8,123	11,075	12,356	13,162	8,482	11,537	9,941	9,531	12,809	13,243	13,886	12,031	19,270	16,365	19,066	21,223	21,364		
3 YEARS LATER	6,499	6,547	7,743	11,707	11,988	12,543	8,423	11,397	9,088	8,438	12,329	12,049	16,560	11,814	20,730	16,030	17,366	21,882			
4 YEARS LATER	6,245	6,571	7,673	11,824	12,560	13,906	8,734	11,693	8,816	8,589	12,432	13,136	17,517	12,137	19,672	15,028	17,755				
5 YEARS LATER	6,341	6,712	7,358	11,651	12,656	13,858	9,804	10,758	10,029	8,790	12,617	13,384	16,373	11,922	18,796	15,880					
6 YEARS LATER	6,336	6,949	8,473	12,376	12,946	14,286	9,395	11,581	10,424	9,222	12,850	13,415	15,570	11,499	19,155						
7 YEARS LATER	6,757	7,866	8,972	12,516	12,750	14,322	9,927	11,566	10,962	9,584	14,878	13,513	15,403	11,251							
8 YEARS LATER	7,018	7,896	8,993	12,761	12,610	15,058	10,391	12,708	11,414	9,498	13,981	13,738	15,090								
9 YEARS LATER	7,229	8,658	8,588	12,709	13,163	15,261	10,918	13,217	11,755	9,657	14,208	13,503									
10 YEARS LATER	7,146	9,313	9,737	12,826	13,939	15,806	11,713	13,120	12,190	9,888	13,607										
11 YEARS LATER	7,120	9,728	10,118	13,566	14,737	16,334	11,681	12,759	12,440	10,613											
12 YEARS LATER	7,125	9,753	10,762	15,013	15,302	16,845	11,573	13,035	13,121												
13 YEARS LATER	7,136	10,274	11,609	15,804	15,479	17,293	11,964	12,746													
14 YEARS LATER	7,450	10,471	11,882	16,392	15,363	17,778	12,330														
15 YEARS LATER	7,960	10,963	12,445	16,449	15,626	17,763															
16 YEARS LATER	8,578	11,390	12,633	17,017	15,470																
17 YEARS LATER	8,628	11,291	13,066	16,924																	
18 YEARS LATER	8,732	11,251	13,293																		
19 YEARS LATER	8,831	11,223																			
20 YEARS LATER	8,918																				

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED INCURRED LOSSES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	4,594	4,805	5,344	6,102	6,721	6,123	5,937	7,073	6,192	5,332	11,998	8,317	7,914	5,961	11,378	8,444	9,194	8,884	9,325	10,128	11,186
1 YEAR LATER	4,553	4,577	5,564	6,786	7,772	8,379	5,737	7,330	6,536	6,628	8,959	9,398	10,233	6,938	11,764	9,046	9,849	12,234	11,370	12,276	
2 YEARS LATER	4,711	4,625	5,412	7,385	9,078	8,990	5,799	7,844	6,786	6,758	9,531	9,240	10,429	7,311	12,343	9,235	10,610	13,950	12,346		
3 YEARS LATER	4,623	4,737	5,684	8,747	9,306	9,497	6,178	9,075	6,743	6,281	9,406	9,578	11,519	7,132	12,998	9,636	10,992	14,342			
4 YEARS LATER	4,843	5,098	5,901	9,363	10,362	11,094	6,897	9,250	6,965	6,756	9,811	9,693	12,628	7,595	13,048	9,839	11,404				
5 YEARS LATER	5,162	5,304	6,163	9,808	11,111	11,360	8,506	9,366	8,335	7,304	10,061	10,122	11,504	7,636	13,121	10,473					
6 YEARS LATER	5,703	5,791	7,021	10,639	11,302	13,364	8,662	9,973	9,181	7,721	10,097	10,461	11,452	7,655	13,629						
7 YEARS LATER	5,982	6,617	7,577	10,950	11,675	13,350	8,968	10,407	9,289	8,091	11,012	10,681	11,278	7,548							
8 YEARS LATER	6,262	6,750	7,900	12,761	11,824	13,916	9,567	10,443	9,704	8,093	10,877	10,744	11,554								
9 YEARS LATER	6,525	7,680	8,588	12,341	12,273	14,457	10,021	10,913	10,497	8,303	10,960	10,997									
10 YEARS LATER	6,674	9,313	9,737	12,683	13,115	14,727	10,657	11,293	11,326	8,305	11,090										
11 YEARS LATER	6,956	9,728	9,971	13,115	13,265	15,189	10,943	11,275	11,285	8,774											
12 YEARS LATER	7,024	9,620	10,438	13,792	13,760	15,927	10,996	11,288	11,742												
13 YEARS LATER	7,003	10,065	10,861	14,319	14,239	16,536	11,063	11,155													
14 YEARS LATER	7,381	10,085	10,945	15,383	14,190	16,662	11,452														
15 YEARS LATER	7,532	10,464	11,857	15,700	14,219	16,989															
16 YEARS LATER	8,089	11,015	12,164	15,823	14,461																
17 YEARS LATER	8,334	11,006	12,356	16,031																	
18 YEARS LATER	8,512	10,977	12,837																		
19 YEARS LATER	8,508	11,045																			
20 YEARS LATER	8,743																				

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
WORKERS' COMPENSATION
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED PAID LOSSES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	1,414	1,434	1,795	2,122	2,756	2,938	2,335	3,186	2,339	1,916	2,742	2,923	3,201	2,859	3,672	3,353	3,955	4,210	4,550	4,217	4,266
1 YEAR LATER	2,448	2,603	3,199	4,455	5,568	5,644	3,945	5,098	4,219	4,003	5,163	6,207	5,411	4,444	6,773	5,860	6,744	7,885	8,198	8,268	
2 YEARS LATER	2,843	3,251	4,074	5,649	7,028	7,122	4,405	5,893	4,756	4,576	6,181	7,430	6,411	5,343	8,423	6,886	8,096	9,680	9,341		
3 YEARS LATER	3,461	3,549	4,515	6,697	8,039	7,675	4,790	6,490	5,059	4,976	6,843	8,061	7,752	5,936	10,130	7,511	8,582	11,002			
4 YEARS LATER	3,832	4,037	4,988	7,666	8,421	8,085	5,271	6,808	5,407	5,212	7,335	8,429	8,646	6,433	10,908	7,935	9,263				
5 YEARS LATER	4,206	4,295	5,246	8,099	8,811	8,566	5,623	7,008	6,210	5,395	7,697	8,619	9,129	6,527	11,337	8,724					
6 YEARS LATER	4,479	4,642	5,469	8,391	9,230	9,608	5,903	7,530	6,638	5,559	8,035	9,016	9,424	6,627	11,896						
7 YEARS LATER	4,844	4,857	5,801	8,647	9,609	10,560	6,586	7,771	6,977	5,967	9,740	9,267	9,719	6,855							
8 YEARS LATER	4,998	5,069	6,039	8,965	10,184	10,919	6,953	8,275	7,270	6,308	10,203	9,579	10,039								
9 YEARS LATER	5,328	5,779	6,257	9,573	10,470	11,212	7,377	8,548	7,681	6,507	10,303	9,776									
10 YEARS LATER	5,620	6,219	6,594	9,982	10,717	11,531	7,985	8,901	8,247	6,633	10,453										
11 YEARS LATER	5,813	6,621	7,043	10,344	10,992	11,917	8,490	9,103	8,594	7,099											
12 YEARS LATER	5,995	6,962	7,384	10,912	11,619	12,452	8,648	9,260	9,060												
13 YEARS LATER	6,318	7,253	7,757	11,467	12,249	13,139	8,797	9,497													
14 YEARS LATER	6,397	7,670	8,450	12,141	12,764	13,498	9,283														
15 YEARS LATER	6,575	8,086	9,445	12,549	13,017	13,888															
16 YEARS LATER	6,823	8,835	9,893	12,882	13,199																
17 YEARS LATER	7,123	9,139	10,365	13,219																	
18 YEARS LATER	7,372	9,364	10,993																		
19 YEARS LATER	7,522	9,599																			
20 YEARS LATER	7,750																				

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF ULTIMATE LOSS ESTIMATES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	3,504	3,117	3,079	4,096	3,619	2,989	3,587	5,186	4,651	4,365	5,994	4,794	4,485	4,794	4,993	4,715	5,126	5,623	5,827	6,144	6,097
1 YEAR LATER	2,968	2,751	2,690	3,337	3,055	2,826	3,568	5,487	3,913	3,779	5,617	4,595	4,615	4,483	4,884	4,426	6,393	6,177	5,553	6,165	
2 YEARS LATER	2,713	3,094	2,768	3,414	2,912	3,128	3,533	5,261	3,627	2,857	5,156	4,716	4,269	5,073	5,260	5,232	6,237	6,047	5,436		
3 YEARS LATER	2,770	2,945	3,146	3,466	3,100	2,834	3,430	5,005	3,212	2,636	4,861	4,464	4,424	4,857	5,419	5,362	6,334	6,034			
4 YEARS LATER	2,780	2,881	3,263	3,388	3,011	2,777	3,198	4,893	2,950	2,617	4,443	4,579	4,388	8,010	5,239	5,469	6,489				
5 YEARS LATER	2,735	2,816	3,058	3,112	2,913	3,011	3,009	4,663	2,876	2,407	4,732	4,496	4,262	7,983	6,669	5,416					
6 YEARS LATER	2,811	2,865	3,773	3,060	2,865	2,956	3,000	4,498	2,856	2,496	4,729	4,515	4,136	7,995	6,717						
7 YEARS LATER	2,733	2,502	3,742	3,045	2,869	2,920	3,011	4,692	2,867	2,496	4,716	4,504	4,147	7,988							
8 YEARS LATER	3,070	2,499	3,770	3,047	2,873	2,885	3,023	5,459	2,898	2,496	4,696	4,424	3,893								
9 YEARS LATER	3,070	2,499	3,758	3,049	2,838	2,883	3,032	5,460	2,891	2,542	4,695	4,481									
10 YEARS LATER	3,068	2,502	3,758	3,038	2,849	2,983	3,161	5,460	2,876	2,496	4,695										
11 YEARS LATER	3,077	2,499	3,649	3,158	2,897	2,983	3,138	5,460	2,866	2,496											
12 YEARS LATER	3,077	2,482	3,766	3,386	2,897	2,984	3,138	5,490	2,858												
13 YEARS LATER	2,844	2,610	3,766	3,381	2,897	2,984	3,138	5,484													
14 YEARS LATER	2,844	2,717	3,766	3,381	2,897	2,985	3,138														
15 YEARS LATER	2,841	2,717	3,770	3,381	2,897	2,984															
16 YEARS LATER	2,841	2,717	3,770	3,381	2,897																
17 YEARS LATER	2,841	2,717	3,770	3,381																	
18 YEARS LATER	2,846	2,717	3,770																		
19 YEARS LATER	2,846	2,717																			
20 YEARS LATER	2,846																				

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED INCURRED LOSSES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	2,955	2,415	1,839	2,550	2,088	1,594	2,032	3,395	2,499	2,428	3,791	2,847	2,618	2,928	3,220	3,002	4,054	2,955	3,365	3,356	3,313
1 YEAR LATER	3,162	2,185	2,186	2,586	2,244	2,389	2,593	4,402	2,816	2,734	4,282	3,547	3,639	3,913	4,372	3,785	5,144	4,691	4,145	4,804	
2 YEARS LATER	2,433	2,768	2,522	3,015	2,483	2,773	3,048	4,619	3,101	2,421	4,597	4,203	3,857	4,753	4,964	4,763	5,572	5,239	4,823		
3 YEARS LATER	2,621	2,755	2,952	3,398	2,858	2,637	3,222	4,659	3,012	2,477	4,599	4,249	4,268	4,490	5,239	5,085	6,129	5,657			
4 YEARS LATER	2,711	2,804	3,306	3,324	2,918	2,708	3,146	4,713	2,893	2,547	4,389	4,531	4,287	7,869	5,143	5,337	6,375				
5 YEARS LATER	2,684	2,857	3,028	3,090	2,898	2,991	3,001	4,607	2,868	2,402	4,679	4,434	4,185	7,863	6,485	5,335					
6 YEARS LATER	2,793	2,843	3,766	3,057	2,864	2,950	2,999	4,497	2,854	2,496	4,642	4,442	4,073	7,891	6,605						
7 YEARS LATER	2,733	2,501	3,741	3,045	2,868	2,917	3,008	4,687	2,854	2,496	4,631	4,411	4,092	7,911							
8 YEARS LATER	3,070	2,499	3,768	3,047	2,872	2,884	3,022	5,459	2,854	2,496	4,618	4,424	3,850								
9 YEARS LATER	3,070	2,499	3,758	3,049	2,838	2,883	3,032	5,460	2,860	2,497	4,695	4,425									
10 YEARS LATER	3,068	2,502	3,758	3,036	2,849	2,983	3,147	5,460	2,855	2,496	4,695										
11 YEARS LATER	3,076	2,499	3,649	3,157	2,897	2,983	3,138	5,460	2,855	2,496											
12 YEARS LATER	3,076	2,482	3,766	3,386	2,897	2,984	3,138	5,482	2,855												
13 YEARS LATER	2,844	2,610	3,766	3,381	2,897	2,984	3,138	5,482													
14 YEARS LATER	2,844	2,717	3,766	3,381	2,897	2,985	3,138														
15 YEARS LATER	2,841	2,717	3,770	3,381	2,897	2,984															
16 YEARS LATER	2,841	2,717	3,770	3,381	2,897																
17 YEARS LATER	2,841	2,717	3,770	3,381																	
18 YEARS LATER	2,846	2,717	3,770																		
19 YEARS LATER	2,846	2,717																			
20 YEARS LATER	2,846																				

*All accident years are 12-month periods ending 9/30 of the stated year.

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
TWENTY ONE - YEAR CLAIMS DEVELOPMENT INFORMATION
GENERAL AND AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

HISTORY OF LIMITED PAID LOSSES

	ACCIDENT YEAR																				
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
END OF POLICY YEAR	665	625	683	968	984	720	737	1,166	1,063	857	1,495	1,192	1,019	1,242	1,333	1,126	1,395	1,372	1,349	1,227	1,099
1 YEAR LATER	980	868	928	1,359	1,249	956	1,318	2,278	1,709	1,371	2,372	2,082	2,221	2,329	2,076	2,025	3,084	3,119	2,458	2,810	
2 YEARS LATER	1,134	1,662	1,613	1,943	1,672	1,808	2,249	3,344	2,294	1,822	3,325	2,972	2,702	3,236	3,071	3,311	4,066	4,089	3,386		
3 YEARS LATER	2,005	2,372	2,152	2,394	2,306	2,176	2,741	3,821	2,693	2,258	3,766	3,257	3,351	4,106	4,013	4,349	5,044	4,910			
4 YEARS LATER	2,266	2,489	2,561	3,145	2,572	2,410	2,929	4,093	2,743	2,312	4,015	3,918	3,582	4,464	4,297	4,768	5,679				
5 YEARS LATER	2,384	2,576	2,808	2,957	2,829	2,795	2,970	4,378	2,830	2,395	4,533	4,088	3,686	5,697	6,259	5,014					
6 YEARS LATER	2,642	2,620	3,701	3,023	2,859	2,889	2,988	4,483	2,837	2,496	4,563	4,297	3,762	6,756	6,482						
7 YEARS LATER	2,726	2,496	3,735	3,042	2,862	2,889	2,983	4,636	2,837	2,496	4,571	4,400	3,765	7,393							
8 YEARS LATER	3,068	2,499	3,742	3,043	2,862	2,882	3,006	5,459	2,837	2,496	4,591	4,424	3,766								
9 YEARS LATER	3,068	2,499	3,758	3,049	2,838	2,883	3,021	5,460	2,838	2,496	4,680	4,424									
10 YEARS LATER	3,068	2,499	3,758	3,016	2,849	2,983	3,038	5,460	2,838	2,496	4,684										
11 YEARS LATER	3,068	2,499	3,649	3,152	2,897	2,983	3,138	5,460	2,838	2,496											
12 YEARS LATER	3,068	2,482	3,766	3,381	2,897	2,984	3,138	5,481	2,838												
13 YEARS LATER	2,844	2,610	3,766	3,381	2,897	2,984	3,138	5,481													
14 YEARS LATER	2,844	2,717	3,766	3,381	2,897	2,984	3,138														
15 YEARS LATER	2,841	2,717	3,770	3,381	2,897	2,984															
16 YEARS LATER	2,841	2,717	3,770	3,381	2,897																
17 YEARS LATER	2,841	2,717	3,770	3,381																	
18 YEARS LATER	2,846	2,717	3,770																		
19 YEARS LATER	2,846	2,717																			
20 YEARS LATER	2,846																				

*All accident years are 12-month periods ending 9/30 of the stated year.

**CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - SHERIFF HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018**

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
97W00706 00	10/17/1996	1997	\$1,000,000	\$172,210	\$0	\$172,210
12 255	8/9/2000	2000	1,000,000	573,575	0	573,575
03 295	2/13/2003	2003	1,200,000	280,070	0	280,070
04 223	2/7/2004	2004	1,200,000	296,389	0	296,389
06 1191	7/5/2006	2006	1,200,000	161,103	0	161,103
06 1835	10/21/2006	2007	1,200,000	229,606	0	229,606
07 349	2/28/2007	2007	1,200,000	505,418	0	505,418
07 1027	7/17/2007	2007	1,200,000	157,286	0	157,286
10 240	5/6/2008	2008	1,200,000	1,226,331	0	1,226,331
08 1877	12/12/2008	2009	1,200,000	289,880	0	289,880
09 571	4/10/2009	2009	1,200,000	175,415	0	175,415
09 2091	11/4/2009	2010	1,200,000	165,887	0	165,887
09 2260	12/3/2009	2010	1,200,000	199,442	0	199,442
12 423	9/13/2010	2010	1,200,000	414,404	0	414,404
11 868	6/21/2011	2011	1,200,000	150,500	0	150,500
11 1488	10/26/2011	2012	1,200,000	162,165	0	162,165
11 1693	12/9/2011	2012	1,200,000	218,300	0	218,300
12 457	3/24/2012	2012	1,200,000	334,189	0	334,189
12 487	4/6/2012	2012	1,200,000	151,902	0	151,902
12 979	7/16/2012	2012	1,200,000	184,600	0	184,600
12 1066	8/6/2012	2012	1,200,000	181,753	0	181,753
03 1845	9/23/2003	2003	1,200,000	1,047,310	317,142	1,364,452
03 2111	11/10/2003	2004	1,200,000	86,198	84,302	170,500
04 530	3/29/2004	2004	1,200,000	310,671	80,693	391,364
05 414	3/1/2005	2005	1,200,000	299,358	164,006	463,364
05 1217	7/5/2005	2005	1,200,000	65,187	113,340	178,527
05 2187	8/21/2005	2005	1,200,000	121,157	112,106	233,263
05 2068	10/6/2005	2006	1,200,000	133,341	127,678	261,019
06 364	2/13/2006	2006	1,200,000	256,468	10,032	266,500
06 1600	8/4/2006	2006	1,200,000	235,957	83,111	319,067
06 1515	8/24/2006	2006	1,200,000	627,655	508,603	1,136,258
07 72	9/11/2006	2006	1,200,000	48,584	102,871	151,455
06 1960	11/8/2006	2007	1,200,000	214,961	211,729	426,689
07 15	12/30/2006	2007	1,200,000	61,064	123,290	184,354
07 91	1/17/2007	2007	1,200,000	191,347	123,319	314,666
07 274	2/6/2007	2007	1,200,000	118,263	144,535	262,798
07 1233	8/22/2007	2007	1,200,000	165,140	81,125	246,265
1410 00745	6/7/2009	2009	1,200,000	128,400	111,644	240,044
12 43	5/15/2010	2010	1,200,000	598,846	26,252	625,098
11 788	6/1/2011	2011	1,200,000	140,663	96,318	236,981
12 429	10/11/2011	2012	1,200,000	178,386	138,489	316,875
11 1612	11/24/2011	2012	1,200,000	259,615	65,393	325,008
12 136	1/19/2012	2012	1,200,000	46,742	122,394	169,136
12 174	1/30/2012	2012	1,200,000	144,264	53,964	198,228
12 237	2/22/2012	2012	1,200,000	36,588	219,012	255,600
12 1331	10/2/2012	2013	1,200,000	620,632	6,003	626,634
1310 00859	7/20/2013	2013	1,200,000	152,500	82,102	234,602
1310 00981	8/12/2013	2013	1,200,000	117,111	67,619	184,730
1310 00962	8/12/2013	2013	1,200,000	134,349	208,477	342,825
1310 01162	9/20/2013	2013	1,200,000	42,997	143,014	186,012
1410 00054	1/3/2014	2014	1,250,000	192,343	116,449	308,793
1410 00234	1/28/2014	2014	1,250,000	183,607	81,196	264,803
1410 00216	2/23/2014	2014	1,250,000	59,443	281,053	340,496
1410 00285	2/27/2014	2014	1,250,000	330,161	120,475	450,636
1410 00373	4/2/2014	2014	1,250,000	78,341	98,055	176,396
1410 00514	5/2/2014	2014	1,250,000	190,960	54,237	245,198
1410 00599	5/21/2014	2014	1,250,000	77,753	74,373	152,126
1410 00706	6/16/2014	2014	1,250,000	409,553	140,807	550,360
1410 00728	6/24/2014	2014	1,250,000	53,896	135,024	188,920
1410 00890	7/28/2014	2014	1,250,000	299,772	184,629	484,401
1410 01344	11/18/2014	2015	1,500,000	546,410	131,701	678,112
1510 00137	2/10/2015	2015	1,500,000	159,159	45,722	204,881
1610 00511	3/14/2015	2015	1,500,000	101,115	80,027	181,142
1510 00344	3/17/2015	2015	1,500,000	167,398	87,139	254,537
1510 00699	5/19/2015	2015	1,500,000	143,366	33,961	177,327
1510 00930	7/7/2015	2015	1,500,000	105,563	65,537	171,100
1510 00932	7/22/2015	2015	1,500,000	27,287	193,213	220,500
1510 01207	9/8/2015	2015	1,500,000	201,962	102,243	304,205
1510 01283	9/21/2015	2015	1,500,000	123,989	196,168	320,156
1510 01463	11/16/2015	2016	1,500,000	308,290	111,297	419,587
1510 01564	12/5/2015	2016	1,500,000	163,932	127,441	291,373
1610 00268	3/1/2016	2016	1,500,000	174,670	45,706	220,376
1610 00342	3/25/2016	2016	1,500,000	102,454	53,528	155,982
1610 00362	3/27/2016	2016	1,500,000	218,131	54,099	272,230
1610 00956	8/15/2016	2016	1,500,000	294,908	263,876	558,785
1610 01367	11/28/2016	2017	1,500,000	73,461	104,799	178,260
1710 00666	6/20/2017	2017	1,500,000	109,196	119,273	228,470
1710 01104	9/19/2017	2017	1,500,000	161,535	134,098	295,633
1710 01242	10/23/2017	2018	1,500,000	18,816	182,010	200,826
1710 01419	11/22/2017	2018	1,500,000	34,983	132,774	167,757
1810 00143	1/8/2018	2018	1,500,000	25,128	189,549	214,676
04 10	1/5/2004	2004	1,200,000	45,902	0	152,759
06 391	3/7/2006	2006	1,200,000	74,345	0	218,259
06 641	4/13/2006	2006	1,200,000	196,599	0	196,599
07 1721	11/1/2007	2008	1,200,000	151,958	0	163,637
08 1691	11/1/2008	2009	1,200,000	88,851	0	150,592
12 123	11/30/2009	2010	1,200,000	99,280	0	180,549
10 1237	8/23/2010	2010	1,200,000	177,185	0	280,013

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
79W00415 00	6/17/1978	1978	500,000	357,906	0	357,906
80W02150 00	10/1/1979	1980	500,000	590,810	0	590,810
81W00065 00	9/20/1981	1981	1,000,000	338,635	0	338,635
81W01302 00	3/23/1982	1982	1,000,000	639,544	0	639,544
81W01322 00	4/1/1982	1982	1,000,000	650,168	0	650,168
82W00326 00	11/9/1982	1983	250,000	501,331	0	501,331
82W00562 00	12/18/1982	1983	250,000	314,168	0	314,168
82W01461 00	5/7/1983	1983	250,000	287,059	0	287,059
82W02282 00	8/11/1983	1983	250,000	484,960	0	484,960
82W02361 00	8/29/1983	1983	250,000	431,632	0	431,632
83W01055 00	3/5/1984	1984	250,000	270,543	0	270,543
83W01125 00	3/20/1984	1984	250,000	539,012	0	539,012
83W01512 00	5/17/1984	1984	250,000	322,161	0	322,161
83W01820 00	6/1/1984	1984	250,000	159,026	0	159,026
83W01783 00	6/1/1984	1984	250,000	184,629	0	184,629
83W01979 00	7/4/1984	1984	250,000	687,967	0	687,967
84W01152 00	3/1/1985	1985	250,000	162,388	0	162,388
84W01608 00	5/7/1985	1985	250,000	809,976	0	809,976
84W01637 00	5/15/1985	1985	250,000	224,790	0	224,790
84W01907 00	6/18/1985	1985	250,000	192,142	0	192,142
86W00434 00	1/1/1986	1986	250,000	422,938	0	422,938
87W00896 00	2/16/1988	1988	1,000,000	1,061,312	0	1,061,312
87W00930 00	2/25/1988	1988	1,000,000	395,614	0	395,614
88W00466 00	11/13/1988	1989	1,000,000	243,795	0	243,795
88W00701 00	1/10/1989	1989	1,000,000	303,437	0	303,437
88W00896 00	1/30/1989	1989	1,000,000	771,859	0	771,859
89W00438 00	11/12/1989	1990	1,000,000	1,860,633	0	1,860,633
90W00136 00	9/16/1990	1990	1,000,000	238,167	0	238,167
90W01051 00	3/5/1991	1991	1,000,000	234,091	0	234,091
92W00704 00	1/19/1993	1993	1,000,000	288,123	0	288,123
94W00263 00	11/4/1994	1995	1,000,000	251,407	0	251,407
95W01376 00	3/11/1996	1996	1,000,000	1,089,127	0	1,089,127
95W02049 00	7/10/1996	1996	1,000,000	227,818	0	227,818
95W02040 00	7/25/1996	1996	1,000,000	195,509	0	195,509
95W02228 00	8/2/1996	1996	1,000,000	361,163	0	361,163
95W02266 00	8/12/1996	1996	1,000,000	407,601	0	407,601
96W00340 00	10/14/1996	1997	1,000,000	1,085,087	0	1,085,087
96W00161 00	10/20/1996	1997	1,000,000	249,812	0	249,812
96W00520 00	12/17/1996	1997	1,000,000	568,979	0	568,979
96W01106 00	4/11/1997	1997	1,000,000	1,154,419	0	1,154,419
97W00557 00	12/26/1997	1998	1,000,000	396,026	0	396,026
98W00908 00	3/17/1999	1999	1,000,000	291,165	0	291,165
99 547	11/17/1999	2000	1,000,000	158,840	0	158,840
00 923	7/2/2000	2000	1,000,000	167,924	0	167,924
00 1095	8/1/2000	2000	1,000,000	175,554	0	175,554
01 159	1/16/2001	2001	1,000,000	959,158	0	959,158
02 806	4/23/2002	2002	1,000,000	151,985	0	151,985
80W00697 00	1/31/1981	1981	1,000,000	975,398	130,716	1,106,114
82W00709 00	1/14/1983	1983	250,000	525,088	71,725	596,813
83W01221 00	3/27/1984	1984	250,000	277,642	52,369	330,010

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
85W01096 00	2/16/1986	1986	250,000	295,989	217,847	513,836
85W01352 00	2/26/1986	1986	250,000	395,870	185,204	581,073
85W01951 00	8/17/1986	1986	250,000	199,892	197,962	397,854
87W00860 00	1/22/1988	1988	1,000,000	1,304,457	314,952	1,619,408
88W01954 00	11/22/1988	1989	1,000,000	1,532,853	11,158	1,544,012
88W00529 00	12/21/1988	1989	1,000,000	148,411	59,655	208,066
88W00995 00	1/11/1989	1989	1,000,000	522,199	174,307	696,506
89W01355 00	4/4/1990	1990	1,000,000	205,424	120,800	326,224
90W00290 00	10/24/1990	1991	1,000,000	196,020	92,009	288,029
90W00493 00	11/23/1990	1991	1,000,000	264,901	84,425	349,326
90W01288 00	4/10/1991	1991	1,000,000	1,026,733	144,421	1,171,153
91W02004 00	7/18/1992	1992	1,000,000	167,740	137,497	305,237
92W00538 00	9/6/1992	1992	1,000,000	163,884	123,388	287,272
92W01134 00	3/11/1993	1993	1,000,000	87,244	104,195	191,439
93W00561 00	12/2/1993	1994	1,000,000	1,233,496	130,178	1,363,674
93W02478 00	9/8/1994	1994	1,000,000	508,993	10,818	519,811
93W02493 00	9/8/1994	1994	1,000,000	1,024,002	132,320	1,156,322
94W00361 00	11/24/1994	1995	1,000,000	225,946	58,440	284,385
94W00546 00	12/29/1994	1995	1,000,000	457,099	146,940	604,039
94W00640 00	1/14/1995	1995	1,000,000	197,107	69,688	266,795
94W01093 00	3/4/1995	1995	1,000,000	402,803	119,454	522,257
97W00818 00	5/25/1995	1995	1,000,000	69,200	87,846	157,046
95W00657 00	6/15/1995	1995	1,000,000	1,204,404	134,722	1,339,126
94W01763 00	6/29/1995	1995	1,000,000	105,910	46,400	152,310
95W00217 00	9/23/1995	1995	1,000,000	202,909	209,322	412,231
98W00504 00	12/12/1995	1996	1,000,000	193,748	64,495	258,243
95W00811 00	1/6/1996	1996	1,000,000	425,867	187,850	613,717
95W00813 00	1/18/1996	1996	1,000,000	269,567	37,140	306,707
95W01109 00	2/19/1996	1996	1,000,000	129,089	56,377	185,466
95W01112 00	2/29/1996	1996	1,000,000	863,622	9,698	873,320
95W01967 00	3/12/1996	1996	1,000,000	87,070	119,509	206,579
95W01443 00	4/12/1996	1996	1,000,000	987,052	91,122	1,078,175
95W01618 00	5/17/1996	1996	1,000,000	223,661	115,553	339,214
95W02008 00	7/10/1996	1996	1,000,000	594,734	260,459	855,194
95W02263 00	8/27/1996	1996	1,000,000	308,252	84,880	393,132
95W02455 00	9/18/1996	1996	1,000,000	464,903	131,027	595,931
96W00851 00	2/23/1997	1997	1,000,000	1,147,736	206,895	1,354,631
97W00159 00	10/22/1997	1998	1,000,000	255,374	142,824	398,198
97W00273 00	11/4/1997	1998	1,000,000	147,185	175,396	322,582
97W00398 00	11/28/1997	1998	1,000,000	170,697	80,325	251,023
97W01238 00	4/22/1998	1998	1,000,000	121,223	76,127	197,349
97W01308 00	5/5/1998	1998	1,000,000	102,450	146,762	249,212
97W01455 00	6/5/1998	1998	1,000,000	2,183,451	423,330	2,606,781
97W01861 00	8/7/1998	1998	1,000,000	199,438	25,689	225,127
97W01969 00	8/20/1998	1998	1,000,000	484,415	149,824	634,239
97W02073 00	9/14/1998	1998	1,000,000	88,769	74,598	163,367
98W00644 00	1/28/1999	1999	1,000,000	1,031,913	127,520	1,159,433
98W00911 00	3/11/1999	1999	1,000,000	71,686	105,456	177,142
98W01239 00	5/20/1999	1999	1,000,000	138,379	118,464	256,843
98W01235 00	5/20/1999	1999	1,000,000	112,281	97,115	209,397

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
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WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
98W01467 00	6/21/1999	1999	1,000,000	51,168	115,381	166,549
99 300	8/1/1999	1999	1,000,000	113,210	81,870	195,080
99 500	11/9/1999	2000	1,000,000	122,619	39,232	161,851
00 86	1/7/2000	2000	1,000,000	168,602	76,706	245,308
00 158	1/22/2000	2000	1,000,000	299,717	97,503	397,220
00 134	1/23/2000	2000	1,000,000	180,915	173,482	354,396
00 219	2/3/2000	2000	1,000,000	107,459	82,690	190,148
00 950	7/6/2000	2000	1,000,000	193,741	23,350	217,091
00 1184	7/18/2000	2000	1,000,000	106,066	52,314	158,380
00 1063	7/25/2000	2000	1,000,000	84,967	147,533	232,500
00 1149	8/8/2000	2000	1,000,000	131,467	40,288	171,755
00 1226	8/22/2000	2000	1,000,000	227,123	49,825	276,948
00 1377	9/22/2000	2000	1,000,000	145,455	134,331	279,785
00 1397	9/24/2000	2000	1,000,000	210,972	22,562	233,534
00 1651	11/21/2000	2001	1,000,000	133,786	80,767	214,553
01 19	12/29/2000	2001	1,000,000	98,141	87,903	186,044
01 233	2/1/2001	2001	1,000,000	253,294	17,433	270,727
01 287	2/13/2001	2001	1,000,000	94,326	87,331	181,657
01 412	3/10/2001	2001	1,000,000	102,451	210,743	313,194
01 458	3/17/2001	2001	1,000,000	124,976	176,071	301,047
01 594	4/6/2001	2001	1,000,000	180,248	209,385	389,634
01 804	5/10/2001	2001	1,000,000	184,215	174,343	358,558
01 981	5/31/2001	2001	1,000,000	116,552	101,491	218,043
01 992	6/5/2001	2001	1,000,000	148,789	134,254	283,043
01 1121	6/28/2001	2001	1,000,000	2,833,849	385,607	3,219,456
01 1161	7/3/2001	2001	1,000,000	104,307	73,541	177,847
01 1386	8/9/2001	2001	1,000,000	215,145	72,935	288,080
01 2058	12/12/2001	2002	1,000,000	336,644	198,433	535,077
02 256	2/19/2002	2002	1,000,000	209,129	115,375	324,504
02 775	5/22/2002	2002	1,000,000	364,979	136,469	501,449
02 1402	8/22/2002	2002	1,000,000	68,054	89,936	157,990
02 1620	9/24/2002	2002	1,000,000	261,419	13,908	275,327
02 1899	11/8/2002	2003	1,200,000	106,431	43,574	150,005
02 1986	11/21/2002	2003	1,200,000	307,342	106,224	413,566
02 2018	11/25/2002	2003	1,200,000	200,893	33,180	234,073
03 696	4/16/2003	2003	1,200,000	70,406	140,773	211,179
03 1247	7/10/2003	2003	1,200,000	318,830	347,434	666,264
03 1879	10/6/2003	2004	1,200,000	76,639	94,358	170,996
04 471	3/11/2004	2004	1,200,000	344,693	158,210	502,903
04 635	4/12/2004	2004	1,200,000	368,410	69,668	438,078
04 821	5/12/2004	2004	1,200,000	57,830	135,824	193,654
04 886	5/20/2004	2004	1,200,000	109,565	180,473	290,038
04 1585	8/19/2004	2004	1,200,000	53,903	121,911	175,814
04 1918	10/7/2004	2005	1,200,000	964,804	363,062	1,327,866
04 1940	10/11/2004	2005	1,200,000	84,466	97,229	181,695
05 531	3/25/2005	2005	1,200,000	129,148	164,093	293,241
05 778	5/9/2005	2005	1,200,000	140,060	104,473	244,533
06 1264	7/20/2006	2006	1,200,000	277,579	221,087	498,666
07 17	12/27/2006	2007	1,200,000	99,810	59,341	159,150
08 765	5/26/2008	2008	1,200,000	3,032,728	149,799	3,182,527

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - FIRE HEART AND HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
10 25	1/6/2010	2010	1,200,000	254,723	57,398	312,122
10 927	7/1/2010	2010	1,200,000	223,882	123,883	347,764
10 1706	11/18/2010	2011	1,200,000	92,337	75,878	168,215
10 1789	12/5/2010	2011	1,200,000	154,860	87,983	242,843
11 801	6/5/2011	2011	1,200,000	138,627	161,609	300,236
12 1379	10/13/2011	2012	1,200,000	380,119	232,630	612,748
12 704	5/18/2012	2012	1,200,000	131,117	88,565	219,682
12 796	6/5/2012	2012	1,200,000	149,833	45,119	194,951
13 357	3/9/2013	2013	1,200,000	544,235	129,933	674,168
1310 01202	9/29/2013	2013	1,200,000	226,237	38,190	264,426
1410 01338	11/17/2014	2015	1,500,000	191,801	175,356	367,157
1510 00032	12/1/2014	2015	1,500,000	223,775	183,978	407,753
1510 00827	2/23/2015	2015	1,500,000	408,203	37,479	445,682
1510 00555	4/30/2015	2015	1,500,000	41,414	121,363	162,776
1510 00592	5/10/2015	2015	1,500,000	919,217	439,831	1,359,049
1510 00730	6/9/2015	2015	1,500,000	101,518	76,140	177,658
1510 01241	9/29/2015	2015	1,500,000	121,761	149,156	270,917
1610 00334	2/18/2016	2016	1,500,000	145,574	71,711	217,285
1610 00447	4/19/2016	2016	1,500,000	264,175	215,622	479,797
1610 00913	8/5/2016	2016	1,500,000	71,233	79,767	151,000
1710 00215	2/23/2017	2017	1,500,000	97,786	116,074	213,860
1710 00600	4/16/2017	2017	1,500,000	17,069	168,291	185,360
89W01446 00	4/8/1990	1990	1,000,000	383,424	44,770	428,193
96W00001 00	9/23/1996	1996	1,000,000	1,938,341	37	1,938,378
96W00494 00	12/12/1996	1997	1,000,000	395,548	97,188	492,736
97W00618 00	1/13/1998	1998	1,000,000	204,947	71,086	276,033
98W00123 00	10/20/1998	1999	1,000,000	139,949	83,014	222,963
00 1566	11/7/2000	2001	1,000,000	206,102	176,868	382,970
00 1772	12/14/2000	2001	1,000,000	316,849	223,486	540,335
01 395	2/20/2001	2001	1,000,000	91,816	108,128	199,944
01 1162	7/5/2001	2001	1,000,000	241,971	195,824	437,795
01 1385	8/9/2001	2001	1,000,000	106,474	150,123	256,597
01 1796	10/9/2001	2002	1,000,000	1,173,210	48,400	1,221,610
02 2035	11/27/2002	2003	1,200,000	42,089	119,104	161,193
03 1275	6/20/2003	2003	1,200,000	131,594	143,497	275,092
04 1133	6/25/2004	2004	1,200,000	38,524	111,777	150,301
06 820	1/31/2006	2006	1,200,000	119,174	75,849	195,023
08 1873	12/11/2008	2009	1,200,000	172,455	5,823	178,277
09 1078	6/22/2009	2009	1,200,000	83,465	118,575	202,041
09 2237	11/28/2009	2010	1,200,000	153,968	48,888	202,856
12 392	3/22/2012	2012	1,200,000	305,305	168,061	473,366
12 1629	12/5/2012	2013	1,200,000	104,362	49,733	154,095
1410 00359	12/30/2013	2014	1,250,000	165,951	4,645	170,596
1510 00669	5/25/2015	2015	1,500,000	232,876	0	232,876

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - SHERIFF NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
78W05450 00	6/11/1979	1979	\$500,000	\$585,221	\$0	\$585,221
79W01762 00	8/22/1980	1980	500,000	352,113	0	352,113
79W01902 00	9/12/1980	1980	500,000	357,777	0	357,777
80W00443 00	12/15/1980	1981	1,000,000	345,280	0	345,280
81W00944 00	2/10/1982	1982	1,000,000	327,702	0	327,702
81W01139 00	3/15/1982	1982	1,000,000	364,806	0	364,806
83W00647 00	1/6/1984	1984	250,000	1,001,899	0	1,001,899
83W01747 00	6/4/1984	1984	250,000	161,664	0	161,664
83W02331 00	8/13/1984	1984	250,000	254,014	0	254,014
84W01676 00	5/24/1985	1985	250,000	283,812	0	283,812
86W01009 00	3/11/1987	1987	1,000,000	1,568,971	0	1,568,971
86W01064 00	3/15/1987	1987	1,000,000	267,372	0	267,372
87W00829 00	2/3/1988	1988	1,000,000	356,522	0	356,522
87W01452 00	5/9/1988	1988	1,000,000	232,625	0	232,625
88W00969 00	12/1/1988	1989	1,000,000	161,667	0	161,667
88W00942 00	2/21/1989	1989	1,000,000	273,379	0	273,379
89W00078 00	10/9/1989	1990	1,000,000	246,987	0	246,987
89W00175 00	10/10/1989	1990	1,000,000	243,035	0	243,035
89W00335 00	11/1/1989	1990	1,000,000	164,952	0	164,952
89W00530 00	11/21/1989	1990	1,000,000	244,943	0	244,943
89W01478 00	4/24/1990	1990	1,000,000	951,275	0	951,275
89W01832 00	6/14/1990	1990	1,000,000	169,757	0	169,757
89W02044 00	7/12/1990	1990	1,000,000	152,745	0	152,745
90W00564 00	11/19/1990	1991	1,000,000	217,152	0	217,152
90W01069 00	1/13/1991	1991	1,000,000	179,078	0	179,078
90W02056 00	7/9/1991	1991	1,000,000	170,244	0	170,244
90W02585 00	9/3/1991	1991	1,000,000	211,586	0	211,586
91W00718 00	1/14/1992	1992	1,000,000	205,324	0	205,324
91W01278 00	4/3/1992	1992	1,000,000	195,233	0	195,233
92W00804 00	1/25/1993	1993	1,000,000	1,350,301	0	1,350,301
92W01296 00	4/5/1993	1993	1,000,000	289,850	0	289,850
92W01970 00	6/1/1993	1993	1,000,000	160,442	0	160,442
92W01841 00	6/14/1993	1993	1,000,000	163,501	0	163,501
92W02175 00	7/20/1993	1993	1,000,000	368,370	0	368,370
92W02410 00	8/23/1993	1993	1,000,000	314,067	0	314,067
93W00097 00	9/28/1993	1993	1,000,000	251,880	0	251,880
93W00665 00	12/29/1993	1994	1,000,000	269,911	0	269,911
94W01486 00	5/26/1995	1995	1,000,000	157,078	0	157,078
96W01263 00	5/2/1997	1997	1,000,000	209,946	0	209,946
98W01232 00	2/6/1999	1999	1,000,000	672,834	0	672,834
01 17	9/10/1999	1999	1,000,000	520,606	0	520,606
00 9	12/9/1999	2000	1,000,000	543,054	0	543,054
00 81	1/10/2000	2000	1,000,000	337,919	0	337,919
00 711	5/12/2000	2000	1,000,000	165,607	0	165,607
00 1157	7/28/2000	2000	1,000,000	398,752	0	398,752
01 209	1/5/2001	2001	1,000,000	203,985	0	203,985
01 165	1/15/2001	2001	1,000,000	169,755	0	169,755
01 393	2/23/2001	2001	1,000,000	165,656	0	165,656
01 1173	7/9/2001	2001	1,000,000	155,616	0	155,616
01 1571	9/10/2001	2001	1,000,000	220,139	0	220,139

CITY OF JACKSONVILLE
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AS OF SEPTEMBER 30, 2018
(AMTS IN THOUSANDS)
LIMITED TO RETENTION

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
01 2075	12/7/2001	2002	1,000,000	256,339	0	256,339
02 1583	9/17/2002	2002	1,000,000	425,682	0	425,682
03 243	2/6/2003	2003	1,200,000	1,238,420	0	1,238,420
03 1418	8/3/2003	2003	1,200,000	273,882	0	273,882
04 616	2/18/2004	2004	1,200,000	328,368	0	328,368
04 895	5/7/2004	2004	1,200,000	536,886	0	536,886
04 1752	9/11/2004	2004	1,200,000	155,327	0	155,327
05 231	2/3/2005	2005	1,200,000	926,987	0	926,987
06 47	1/9/2006	2006	1,200,000	638,431	0	638,431
06 1179	7/6/2006	2006	1,200,000	446,868	0	446,868
07 1858	12/8/2007	2008	1,200,000	201,966	0	201,966
08 124	1/26/2008	2008	1,200,000	225,453	0	225,453
08 261	2/23/2008	2008	1,200,000	228,788	0	228,788
08 532	4/4/2008	2008	1,200,000	155,754	0	155,754
08 574	4/17/2008	2008	1,200,000	265,363	0	265,363
08 1385	9/4/2008	2008	1,200,000	160,176	0	160,176
09 532	4/3/2009	2009	1,200,000	384,420	0	384,420
09 2131	11/10/2009	2010	1,200,000	203,859	0	203,859
11 558	4/20/2011	2011	1,200,000	811,684	0	811,684
11 845	6/7/2011	2011	1,200,000	192,130	0	192,130
11 872	6/22/2011	2011	1,200,000	151,824	0	151,824
12 227	2/20/2012	2012	1,200,000	316,171	0	316,171
1310 00564	5/13/2013	2013	1,200,000	208,685	0	208,685
1410 00372	4/2/2014	2014	1,250,000	230,447	0	230,447
1610 00278	3/9/2016	2016	1,500,000	197,579	0	197,579
77W01942 00	7/1/1978	1978	500,000	1,849,455	283,762	2,133,217
78W05327 00	4/27/1979	1979	500,000	595,032	20,383	615,415
84W00415 00	11/20/1984	1985	250,000	156,981	257,843	414,824
84W02420 00	8/26/1985	1985	250,000	4,404,548	9,402	4,413,950
86W00445 00	6/3/1986	1986	250,000	929,468	135,146	1,064,613
89W02179 00	7/24/1990	1990	1,000,000	2,732,650	0	2,732,650
90W01253 00	3/31/1991	1991	1,000,000	1,070,377	652,007	1,722,385
92W00260 00	10/24/1992	1993	1,000,000	282,429	102,676	385,105
01 1982	11/27/2001	2002	1,000,000	125,595	52,028	177,623
03 758	4/24/2003	2003	1,200,000	397,361	410,360	807,721
03 957	5/30/2003	2003	1,200,000	341,503	41,741	383,244
05 2226	12/15/2005	2006	1,200,000	96,660	76,572	173,232
06 211	2/3/2006	2006	1,200,000	315,970	144,155	460,126
06 1335	7/27/2006	2006	1,200,000	186,713	200,957	387,670
07 1372	9/12/2007	2007	1,200,000	131,524	31,992	163,516
07 1378	9/13/2007	2007	1,200,000	189,582	54,794	244,377
08 1398	9/7/2008	2008	1,200,000	229,160	39,047	268,208
09 1731	9/13/2009	2009	1,200,000	158,152	150,537	308,689
10 292	3/1/2010	2010	1,200,000	661,863	68,064	729,927
12 1481	10/27/2012	2013	1,200,000	28,108	141,699	169,807
1510 01587	12/21/2015	2016	1,500,000	97,693	132,942	230,635
1610 01194	10/7/2016	2017	1,500,000	484,049	243,538	727,587
1710 00013	1/3/2017	2017	1,500,000	107,644	80,347	187,991
1710 00824	7/25/2017	2017	1,500,000	448,614	285,231	733,845
1710 00942	8/18/2017	2017	1,500,000	133,793	94,837	228,630
1710 00941	8/18/2017	2017	1,500,000	134,694	91,927	226,621
1710 01345	11/8/2017	2018	1,500,000	16,767	139,093	155,860
1810 00001	1/2/2018	2018	1,500,000	234,123	280,877	515,000
1810 00597	5/15/2018	2018	1,500,000	22,393	145,063	167,456
00 1390	9/15/2000	2000	1,000,000	619,309	681,280	1,300,589
01 1223	37088	2001	1000000	103,570	158,363	261932.49
01 1431	8/16/2001	2001	1,000,000	169,355	64,199	233,553
02 961	6/19/2002	2002	1,000,000	976,525	416,565	1,393,089
04 1025	6/9/2004	2004	1,200,000	117,532	143,125	260,657
08 151	1/31/2008	2008	1,200,000	48,851	126,533	175,384
08 1186	8/4/2008	2008	1,200,000	119,202	47,169	166,372
12 1475	10/26/2012	2013	1,200,000	142,494	106,477	248,971
1310 00614	5/24/2013	2013	1,200,000	51,131	222,739	273,869
1510 00105	1/28/2015	2015	1,500,000	174,638	15,727	190,365
1710 00032	1/6/2017	2017	1,500,000	161,785	9,848	171,633

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
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WORKERS' COMPENSATION - FIRE NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
77W02530 00	8/29/1978	1978	\$500,000	\$358,223	\$0	\$358,223
78W06824 00	7/27/1979	1979	500,000	179,638	0	179,638
78W06427 00	8/29/1979	1979	500,000	160,332	0	160,332
79W00845 00	5/6/1980	1980	500,000	648,575	0	648,575
80W01666 00	7/3/1981	1981	1,000,000	205,729	0	205,729
80W01697 00	7/11/1981	1981	1,000,000	304,069	0	304,069
84W01411 00	4/16/1985	1985	250,000	697,495	0	697,495
84W01813 00	6/9/1985	1985	250,000	477,194	0	477,194
85W00626 00	1/1/1986	1986	250,000	172,300	0	172,300
85W00780 00	2/4/1986	1986	250,000	264,338	0	264,338
86W00236 00	11/6/1986	1987	1,000,000	371,422	0	371,422
86W01605 00	6/3/1987	1987	1,000,000	326,237	0	326,237
87W00935 00	2/26/1988	1988	1,000,000	244,715	0	244,715
87W01523 00	5/24/1988	1988	1,000,000	799,189	0	799,189
87W01711 00	6/23/1988	1988	1,000,000	383,807	0	383,807
88W00527 00	12/21/1988	1989	1,000,000	224,907	0	224,907
88W00845 00	1/28/1989	1989	1,000,000	370,251	0	370,251
88W01824 00	4/24/1989	1989	1,000,000	272,579	0	272,579
90W00071 00	9/16/1990	1990	1,000,000	229,857	0	229,857
90W00657 00	12/27/1990	1991	1,000,000	327,224	0	327,224
90W02606 00	9/13/1991	1991	1,000,000	154,877	0	154,877
91W00588 00	12/16/1991	1992	1,000,000	300,289	0	300,289
91W01183 00	3/26/1992	1992	1,000,000	569,050	0	569,050
91W02443 00	9/16/1992	1992	1,000,000	214,657	0	214,657
92W00552 00	12/8/1992	1993	1,000,000	170,469	0	170,469
93W00173 00	10/15/1993	1994	1,000,000	328,995	0	328,995
96W00398 00	11/18/1996	1997	1,000,000	163,785	0	163,785
97W00935 00	2/12/1998	1998	1,000,000	398,997	0	398,997
98W01116 00	5/3/1999	1999	1,000,000	379,123	0	379,123
00 248	2/15/2000	2000	1,000,000	308,084	0	308,084
01 158	1/18/2001	2001	1,000,000	392,412	0	392,412
01 216	1/30/2001	2001	1,000,000	297,789	0	297,789
01 939	5/27/2001	2001	1,000,000	268,118	0	268,118
02 93	1/19/2002	2002	1,000,000	199,595	0	199,595
02 2103	12/11/2002	2003	1,200,000	1,326,096	0	1,326,096
03 1026	5/28/2003	2003	1,200,000	168,846	0	168,846

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CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
03 990	6/2/2003	2003	1,200,000	333,524	0	333,524
03 2215	12/1/2003	2004	1,200,000	158,443	0	158,443
03 2316	12/16/2003	2004	1,200,000	959,215	0	959,215
05 900	5/19/2005	2005	1,200,000	231,480	0	231,480
06 1516	8/26/2006	2006	1,200,000	311,761	0	311,761
08 1406	9/6/2008	2008	1,200,000	168,060	0	168,060
09 546	4/6/2009	2009	1,200,000	246,578	0	246,578
09 2323	12/9/2009	2010	1,200,000	659,522	0	659,522
12 1545	11/11/2012	2013	1,200,000	219,591	0	219,591
1310 01458	11/19/2013	2014	1,250,000	150,883	0	150,883
1710 01053	9/12/2017	2017	1,500,000	161,631	0	161,631
83W00516 00	12/14/1983	1984	250,000	582,976	182,495	765,470
93W01128 00	3/7/1994	1994	1,000,000	1,030,331	169,669	1,200,000
93W01600 00	5/14/1994	1994	1,000,000	177,871	64,168	242,039
96W00243 00	10/16/1996	1997	1,000,000	757,625	763,503	1,521,128
98W00746 00	2/19/1999	1999	1,000,000	674,475	697,955	1,372,430
99 196	8/26/1999	1999	1,000,000	848,366	409,672	1,258,039
02 1378	8/16/2002	2002	1,000,000	2,093,980	170,709	2,264,689
02 1963	11/16/2002	2003	1,200,000	219,848	111,574	331,422
03 693	4/15/2003	2003	1,200,000	780,791	326,857	1,107,648
04 2227	11/23/2004	2005	1,200,000	827,590	160,636	988,226
08 15	1/3/2008	2008	1,200,000	275,170	86,493	361,663
09 91	1/20/2009	2009	1,200,000	82,732	89,256	171,988
09 322	3/2/2009	2009	1,200,000	324,639	43,781	368,420
09 2186	11/16/2009	2010	1,200,000	524,134	207,366	731,500
10 404	3/18/2010	2010	1,200,000	121,465	224,984	346,450
11 1237	8/28/2011	2011	1,200,000	96,022	66,166	162,188
1610 01017	9/1/2016	2016	1,500,000	111,732	187,732	299,464
1710 00042	1/11/2017	2017	1,500,000	156,406	208,951	365,357
96W00621 00	1/12/1997	1997	1,000,000	379,448	91,913	471,361
01 1819	10/15/2001	2002	1,000,000	238,867	56,191	295,058
04 1727	8/26/2004	2004	1,200,000	48,146	117,404	165,550
05 1478	8/12/2005	2005	1,200,000	65,385	107,683	173,068
06 1828	10/20/2006	2007	1,200,000	292,591	83,546	376,137
07 290	2/21/2007	2007	1,200,000	136,783	17,833	154,616
09 389	3/14/2009	2009	1,200,000	70,392	162,883	233,275
09 2197	11/19/2009	2010	1,200,000	138,025	14,676	152,701
1510 01267	10/4/2015	2016	1,500,000	55,035	96,897	151,932

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
79W07763 00	10/26/1979	1980	\$500,000	\$229,253	\$0	\$229,253
80W00829 00	11/21/1979	1980	500,000	417,548	0	417,548
79W00452 00	2/27/1980	1980	500,000	203,263	0	203,263
79W00736 00	4/11/1980	1980	500,000	954,508	0	954,508
79W01004 00	5/19/1980	1980	500,000	150,836	0	150,836
81W00552 00	1/26/1981	1981	1,000,000	232,396	0	232,396
80W00871 00	3/6/1981	1981	1,000,000	155,596	0	155,596
80W00903 00	3/9/1981	1981	1,000,000	260,299	0	260,299
80W00966 00	3/10/1981	1981	1,000,000	164,980	0	164,980
80W01672 00	7/10/1981	1981	1,000,000	391,009	0	391,009
81W00379 00	11/14/1981	1982	1,000,000	530,463	0	530,463
81W01535 00	4/29/1982	1982	1,000,000	364,133	0	364,133
81W02116 00	7/15/1982	1982	1,000,000	330,914	0	330,914
82W00809 00	1/24/1983	1983	250,000	391,286	0	391,286
82W00766 00	1/28/1983	1983	250,000	515,471	0	515,471
82W02013 00	7/22/1983	1983	250,000	385,275	0	385,275
83W00067 00	10/5/1983	1984	250,000	355,850	0	355,850
83W00422 00	11/25/1983	1984	250,000	2,961,948	0	2,961,948
83W01874 00	6/29/1984	1984	250,000	477,892	0	477,892
83W02427 00	8/28/1984	1984	250,000	224,994	0	224,994
84W01441 00	4/23/1985	1985	250,000	167,792	0	167,792
84W01451 00	4/23/1985	1985	250,000	666,410	0	666,410
84W01563 00	4/30/1985	1985	250,000	164,618	0	164,618
85W00246 00	10/17/1985	1986	250,000	302,479	0	302,479
85W00389 00	12/4/1985	1986	250,000	420,567	0	420,567
86W00072 00	10/2/1986	1987	250,000	290,266	0	290,266
86W00890 00	2/19/1987	1987	1,000,000	356,668	0	356,668
86W01500 00	5/14/1987	1987	1,000,000	603,829	0	603,829
86W01598 00	5/28/1987	1987	1,000,000	477,550	0	477,550
86W02001 00	7/14/1987	1987	1,000,000	505,589	0	505,589
86W02314 00	9/14/1987	1987	1,000,000	175,443	0	175,443
87W01289 00	4/18/1988	1988	1,000,000	1,068,154	0	1,068,154
87W01426 00	4/24/1988	1988	1,000,000	311,260	0	311,260
87W01601 00	6/6/1988	1988	1,000,000	325,213	0	325,213
87W01777 00	6/29/1988	1988	1,000,000	248,409	0	248,409
87W01849 00	7/6/1988	1988	1,000,000	743,641	0	743,641
87W02290 00	8/23/1988	1988	1,000,000	949,809	0	949,809
88W00689 00	1/6/1989	1989	1,000,000	214,718	0	214,718
88W01710 00	5/8/1989	1989	1,000,000	416,725	0	416,725
88W02404 00	7/26/1989	1989	1,000,000	169,209	0	169,209

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
89W00296 00	10/9/1989	1990	1,000,000	253,727	0	253,727
89W00963 00	2/21/1990	1990	1,000,000	155,898	0	155,898
89W01129 00	3/9/1990	1990	1,000,000	162,043	0	162,043
89W01439 00	4/19/1990	1990	1,000,000	153,124	0	153,124
89W01670 00	5/12/1990	1990	1,000,000	176,856	0	176,856
89W01652 00	5/14/1990	1990	1,000,000	155,227	0	155,227
89W02012 00	6/28/1990	1990	1,000,000	175,149	0	175,149
89W02159 00	7/25/1990	1990	1,000,000	246,370	0	246,370
90W00680 00	1/7/1991	1991	1,000,000	215,002	0	215,002
90W00860 00	2/5/1991	1991	1,000,000	279,663	0	279,663
90W00973 00	2/27/1991	1991	1,000,000	162,624	0	162,624
90W01059 00	3/7/1991	1991	1,000,000	464,322	0	464,322
90W02214 00	5/13/1991	1991	1,000,000	268,423	0	268,423
90W02574 00	8/9/1991	1991	1,000,000	184,668	0	184,668
91W00995 00	3/9/1992	1992	1,000,000	285,323	0	285,323
91W01456 00	5/5/1992	1992	1,000,000	317,162	0	317,162
91W01476 00	5/11/1992	1992	1,000,000	307,401	0	307,401
91W01610 00	5/25/1992	1992	1,000,000	273,852	0	273,852
91W01874 00	7/9/1992	1992	1,000,000	549,188	0	549,188
92W01771 00	5/25/1993	1993	1,000,000	218,572	0	218,572
92W01769 00	6/10/1993	1993	1,000,000	450,250	0	450,250
92W02064 00	7/14/1993	1993	1,000,000	172,160	0	172,160
92W02214 00	8/4/1993	1993	1,000,000	657,293	0	657,293
92W02371 00	8/18/1993	1993	1,000,000	242,278	0	242,278
94W01286 00	4/6/1995	1995	1,000,000	231,146	0	231,146
94W01514 00	6/6/1995	1995	1,000,000	189,616	0	189,616
95W00478 00	11/27/1995	1996	1,000,000	592,282	0	592,282
95W00626 00	12/28/1995	1996	1,000,000	831,145	0	831,145
95W01971 00	7/10/1996	1996	1,000,000	169,163	0	169,163
96W00588 00	12/16/1996	1997	1,000,000	181,427	0	181,427
96W00958 00	3/6/1997	1997	1,000,000	415,065	0	415,065
96W01846 00	8/3/1997	1997	1,000,000	203,592	0	203,592
97W00683 00	12/16/1997	1998	1,000,000	253,849	0	253,849
97W01522 00	6/9/1998	1998	1,000,000	182,639	0	182,639
97W01717 00	7/2/1998	1998	1,000,000	210,791	0	210,791
98W01498 00	7/19/1999	1999	1,000,000	242,379	0	242,379
99 360	8/25/1999	1999	1,000,000	387,511	0	387,511
00 87	1/6/2000	2000	1,000,000	488,744	0	488,744
00 1745	11/29/2000	2001	1,000,000	203,974	0	203,974
00 1785	12/11/2000	2001	1,000,000	156,965	0	156,965

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
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WORKERS' COMPENSATION - OTHER CITY NON-HEART & HYPERTENSION NON-PTSD CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
01 1917	11/5/2001	2002	1,000,000	170,343	0	170,343
02 178	1/29/2002	2002	1,000,000	165,676	0	165,676
02 849	6/4/2002	2002	1,000,000	225,217	0	225,217
03 1493	8/7/2003	2003	1,200,000	209,539	0	209,539
05 43	1/5/2005	2005	1,200,000	178,600	0	178,600
07 945	6/28/2007	2007	1,200,000	168,776	0	168,776
08 213	2/13/2008	2008	1,200,000	212,556	0	212,556
08 419	3/25/2008	2008	1,200,000	157,500	0	157,500
09 1584	8/31/2009	2009	1,200,000	187,619	0	187,619
09 1827	9/24/2009	2009	1,200,000	1,460,581	0	1,460,581
10 1044	7/29/2010	2010	1,200,000	263,992	0	263,992
11 1559	11/11/2011	2012	1,200,000	531,544	0	531,544
12 02	12/28/2011	2012	1,200,000	194,601	0	194,601
12 575	3/15/2012	2012	1,200,000	459,271	0	459,271
12 1281	9/21/2012	2012	1,200,000	191,857	0	191,857
1410 01453	12/17/2014	2015	1,500,000	155,443	0	155,443
78W05655 00	6/27/1979	1979	500,000	828,310	153,719	982,029
79W01257 00	6/24/1980	1980	500,000	544,351	124,982	669,333
80W00407 00	12/1/1980	1981	1,000,000	209,151	50,576	259,727
81W01240 00	3/19/1982	1982	1,000,000	435,791	70,931	506,722
84W01529 00	5/2/1985	1985	250,000	505,599	193,693	699,293
89W02192 00	7/30/1990	1990	1,000,000	1,522,380	93,322	1,615,701
91W00170 00	10/15/1991	1992	1,000,000	579,902	128,047	707,949
93W00573 00	12/2/1993	1994	1,000,000	1,342,994	288,055	1,631,049
01 1975	11/25/2001	2002	1,000,000	61,186	151,952	213,138
05 1696	9/15/2005	2005	1,200,000	86,166	81,672	167,839
08 1498	9/23/2008	2008	1,200,000	137,987	54,446	192,432
09 1587	8/31/2009	2009	1,200,000	135,067	120,231	255,298
10 1073	7/2/2010	2010	1,200,000	63,760	116,823	180,583
12 1246	9/14/2012	2012	1,200,000	168,758	73,703	242,461
1410 01279	10/27/2014	2015	1,500,000	505,920	65,370	571,290
98W00472 00	1/1/1999	1999	1,000,000	112,462	107,765	220,227
05 1858	10/3/2005	2006	1,200,000	42,330	137,722	180,052
08 1816	11/25/2008	2009	1,200,000	100,828	96,857	197,685
09 2322	12/9/2009	2010	1,200,000	75,747	107,218	182,965
1610 00177	2/4/2016	2016	1,500,000	111,363	142,770	254,133

CITY OF JACKSONVILLE
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LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
79W00255 00	1/21/1980	1980	\$500,000	\$259,344	\$0	\$259,344
80W01011 00	3/12/1981	1981	1,000,000	165,490	0	165,490
84W02155 00	7/24/1985	1985	250,000	338,930	0	338,930
86W01106 00	1/1/1987	1987	1,000,000	1,898,004	0	1,898,004
97W01559 00	6/15/1998	1998	1,000,000	227,348	0	227,348
09 1067	6/22/2009	2009	1,200,000	153,829	0	153,829
81W01260 00	2/26/1982	1982	1,000,000	271,986	0	271,986
83W01054 00	3/4/1984	1984	250,000	255,460	0	255,460
84W00621 00	12/10/1984	1985	250,000	237,159	0	237,159
84W02395 00	8/21/1985	1985	250,000	270,075	0	270,075
86W01578 00	6/1/1987	1987	1,000,000	236,580	0	236,580
87W00515 00	11/12/1987	1988	1,000,000	185,671	0	185,671
87W00612 00	12/14/1987	1988	1,000,000	183,595	0	183,595
87W02473 00	9/13/1988	1988	1,000,000	494,953	0	494,953
88W01054 00	3/7/1989	1989	1,000,000	226,412	0	226,412
90W00381 00	11/10/1990	1991	1,000,000	265,672	0	265,672
90W02494 00	9/9/1991	1991	1,000,000	1,651,819	0	1,651,819
91W01044 00	3/9/1992	1992	1,000,000	266,010	0	266,010
91W02140 00	8/3/1992	1992	1,000,000	210,495	0	210,495
91W02434 00	9/9/1992	1992	1,000,000	323,962	0	323,962
94W00735 00	1/20/1995	1995	1,000,000	150,330	0	150,330
96W00956 00	3/18/1997	1997	1,000,000	276,443	0	276,443
96W01047 00	3/18/1997	1997	1,000,000	165,416	0	165,416
96W01421 00	5/9/1997	1997	1,000,000	205,414	0	205,414
97W00950 00	3/10/1998	1998	1,000,000	164,931	0	164,931
97W01063 00	3/26/1998	1998	1,000,000	400,590	0	400,590
00 1309	9/14/2000	2000	1,000,000	192,399	0	192,399
01 1925	11/9/2001	2002	1,000,000	1,413,304	0	1,413,304
02 604	4/20/2002	2002	1,000,000	205,019	0	205,019
02 1338	8/12/2002	2002	1,000,000	312,076	0	312,076
02 1838	10/29/2002	2003	1,200,000	395,873	0	395,873
03 272	1/7/2003	2003	1,200,000	224,918	0	224,918
08 655	5/2/2008	2008	1,200,000	151,228	0	151,228
09 111	1/22/2009	2009	1,200,000	500,507	0	500,507
11 1407	10/6/2011	2012	1,200,000	222,777	0	222,777
1510 00959	7/27/2015	2015	1,500,000	196,296	0	196,296
1610 00411	4/11/2016	2016	1,500,000	303,635	0	303,635

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
WORKERS' COMPENSATION - NON-CITY AGENCIES NON-HEART & HYPERTENSION CLAIMS
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CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	SPECIFIC SELF INSURED RETENTION	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
82W00789 00	1/25/1983	1983	250,000	301,599	132,220	433,819
87W01126 00	3/9/1988	1988	1,000,000	1,312,412	134,985	1,447,396
88W02535 00	8/14/1989	1989	1,000,000	469,581	39,764	509,345
91W02354 00	8/13/1992	1992	1,000,000	1,036,098	430,438	1,466,536
04 1743	9/11/2004	2004	1,200,000	67,740	169,086	236,826
06 1255	7/18/2006	2006	1,200,000	162,665	70,964	233,629
1410 00494	4/25/2014	2014	1,250,000	656,331	218,715	875,045
1410 01197	10/4/2014	2015	1,500,000	114,912	53,471	168,383
1710 00303	3/16/2017	2017	1,500,000	370,561	161,049	531,610
03 773	4/26/2003	2003	1,200,000	149,326	56,275	205,601
95W01428 00	4/10/1996	1996	1,000,000	723,670	0	723,670
95W02237 00	8/24/1996	1996	1,000,000	156,760	0	156,760
1610 00961	8/10/2016	2016	1,500,000	168,264	0	168,264
82W00726 00	1/19/1983	1983	250,000	166,611	0	166,611
82W01731 00	6/7/1983	1983	250,000	284,533	0	284,533
82W02168 00	7/26/1983	1983	250,000	160,434	0	160,434
79W01184 00	6/20/1980	1980	500,000	265,924	31,887	297,811
86W00658 00	1/8/1987	1987	1,000,000	1,322,471	408,173	1,730,644
78W03249 00	11/13/1978	1979	500,000	295,633	0	295,633
80W00658 00	1/14/1981	1981	1,000,000	329,424	0	329,424
80W01399 00	5/19/1981	1981	1,000,000	1,262,035	0	1,262,035
80W01988 00	8/18/1981	1981	1,000,000	1,157,840	0	1,157,840
83W00519 00	12/9/1983	1984	250,000	253,364	0	253,364
84W01044 00	2/11/1985	1985	250,000	227,009	0	227,009
85W00486 00	12/12/1985	1986	250,000	169,157	0	169,157
85W01638 00	6/24/1986	1986	250,000	279,346	0	279,346
86W01788 00	6/25/1987	1987	1,000,000	215,367	0	215,367
89W01210 00	3/5/1990	1990	1,000,000	293,777	0	293,777
91W00705 00	3/29/1990	1990	1,000,000	841,039	0	841,039
89W01660 00	5/24/1990	1990	1,000,000	631,900	0	631,900
91W02498 00	9/3/1992	1992	1,000,000	270,684	0	270,684
92W00473 00	12/1/1992	1993	1,000,000	153,344	0	153,344
92W02452 00	8/21/1993	1993	1,000,000	317,880	0	317,880
93W00759 00	1/14/1994	1994	1,000,000	246,919	0	246,919
93W01312 00	2/24/1994	1994	1,000,000	511,180	0	511,180
94W01493 00	6/2/1995	1995	1,000,000	783,352	0	783,352
04 1947	9/24/2004	2004	1,200,000	192,199	0	192,199
08 146	1/22/2008	2008	1,200,000	217,278	0	217,278
10 1418	9/22/2010	2010	1,200,000	202,610	0	202,610
88W01038 00	2/18/1989	1989	1,000,000	224,143	29,528	253,670
1310 00573	5/14/2013	2013	1,200,000	133,649	108,894	242,543
07 1155	8/6/2007	2007	1,200,000	82,972	174,755	257,726
08 914	39608	2008	1200000	111597.51	151,481	263078.82

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
GENERAL LIABILITY
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	RETENTION LIMIT	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
78L00087 00	5/3/1978	1978	\$500,000	\$224,378	\$0	\$224,378
78L00690 00	6/1/1978	1978	500,000	155,004	0	155,004
78L00666 00	7/11/1979	1979	500,000	810,392	0	810,392
80L00373 00	11/8/1980	1981	1,000,000	664,843	0	664,843
81L00891 00	2/23/1982	1982	1,000,000	1,007,169	0	1,007,169
82L00560 00	7/23/1982	1982	1,000,000	265,239	0	265,239
81L01008 00	9/14/1982	1982	1,000,000	200,061	0	200,061
84L00201 00	9/20/1984	1984	250,000	202,676	0	202,676
84L00550 00	2/3/1985	1985	250,000	182,092	0	182,092
84L01145 00	6/10/1985	1985	250,000	208,935	0	208,935
85L01472 00	7/15/1986	1986	250,000	200,007	0	200,007
86L01523 00	7/14/1987	1987	1,000,000	205,532	0	205,532
86L01737 00	8/17/1987	1987	1,000,000	203,092	0	203,092
87L01869 00	9/24/1988	1988	1,000,000	206,711	0	206,711
90L00553 00	2/2/1991	1991	1,000,000	253,699	0	253,699
92L00167 01	9/1/1992	1992	1,000,000	560,956	0	560,956
93L01554 00	5/20/1993	1993	1,000,000	198,902	0	198,902
94L00816 00	12/19/1994	1995	1,000,000	175,181	0	175,181
95L01602 02	6/20/1996	1996	1,000,000	191,250	0	191,250
96L02041 00	6/5/1997	1997	1,000,000	154,217	0	154,217
97L01002 00	3/13/1998	1998	1,000,000	213,363	0	213,363
00 600	7/4/1998	1998	1,000,000	426,226	0	426,226
97L01648 00	7/7/1998	1998	1,000,000	202,411	0	202,411
99 843	12/16/1998	1999	1,000,000	312,123	0	312,123
00 56	10/6/1999	2000	1,000,000	204,545	0	204,545
01 658	10/31/1999	2000	1,000,000	170,096	0	170,096
99 1606	10/31/1999	2000	1,000,000	497,180	0	497,180
01 290	5/7/2000	2000	1,000,000	785,571	0	785,571
00 2105	12/15/2000	2001	1,000,000	185,990	0	185,990
01 1261	3/20/2001	2001	1,000,000	434,951	0	434,951
04 1616	4/5/2003	2003	5,000,000	201,884	0	201,884
04 2599	12/3/2004	2005	5,000,000	453,766	0	453,766
05 788	2/22/2005	2005	5,000,000	288,894	0	288,894
05 2151	3/2/2005	2005	5,000,000	215,284	0	215,284
06 278	3/13/2005	2005	5,000,000	200,089	0	200,089
07 152	1/27/2007	2007	5,000,000	205,190	0	205,190
10 636	4/16/2008	2008	5,000,000	187,920	0	187,920
09 1420	8/10/2009	2009	5,000,000	219,222	0	219,222
10 1958	11/15/2010	2011	5,000,000	200,000	0	200,000
11 953	6/27/2011	2011	5,000,000	3,024,215	500,000	3,524,215
11 1188	8/7/2011	2011	5,000,000	177,311	0	177,311
12 583	5/9/2012	2012	5,000,000	1,951,089	0	1,951,089
1420 00135	9/12/2012	2012	5,000,000	152,144	0	152,144
13 120	1/28/2013	2013	5,000,000	229,923	0	229,923
1520 00469	6/1/2013	2013	5,000,000	158,475	0	158,475
13 1133	6/23/2013	2013	5,000,000	151,281	0	151,281
1420 00136	9/24/2013	2013	5,000,000	161,252	0	161,252
1420 00619	4/25/2014	2014	1,500,000	162,122	0	162,122
1420 00619 001	4/25/2014	2014	1,500,000	190,000	0	190,000
1420 01045	7/2/2014	2014	1,500,000	200,000	0	200,000
1520 01748	10/18/2014	2015	1,500,000	154,127	0	154,127
1520 00715	4/23/2015	2015	1,500,000	192,482	0	192,482
1720 00752	7/1/2015	2015	1,500,000	313,722	0	313,722
1520 01742	7/21/2015	2015	1,500,000	175,000	0	175,000
1520 01289	7/23/2015	2015	1,500,000	151,203	0	151,203
1620 01496	5/27/2016	2016	1,500,000	926	180,000	180,926
1720 01055	6/15/2017	2017	1,500,000	183,593	0	183,593

CITY OF JACKSONVILLE
SELF-INSURANCE PROGRAM ACTUARIAL REVIEW
LIST OF LARGE CLAIMS
INCURRED LOSSES GREATER THAN \$150,000
AUTOMOBILE LIABILITY
AS OF SEPTEMBER 30, 2018

CLAIM NUMBER	DATE OF LOSS	ACCIDENT YEAR	RETENTION LIMIT	UNLIMITED PAID LOSSES	UNLIMITED CASE RESERVES	UNLIMITED INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)
84L00376 00	12/18/1984	1985	\$250,000	\$216,991	\$0	\$216,991
85L01195 00	5/27/1986	1986	\$250,000	201,927	0	201,927
90L01319 00	11/5/1990	1991	\$1,000,000	151,016	0	151,016
90L01680 00	8/9/1991	1991	\$1,000,000	229,304	0	229,304
95L01206 00	1/9/1995	1995	\$1,000,000	182,853	0	182,853
94L01621 00	5/22/1995	1995	\$1,000,000	238,455	0	238,455
95L00118 00	10/12/1995	1996	\$1,000,000	210,345	0	210,345
01 1332	7/24/2001	2001	\$1,000,000	165,035	0	165,035
02 1637	9/19/2002	2002	\$1,000,000	156,073	0	156,073
04 485 01	3/25/2004	2004	\$1,200,000	159,628	0	159,628
05 1227	6/24/2005	2005	\$1,200,000	724,029	0	724,029
08 2145	9/7/2008	2008	\$1,200,000	205,455	0	205,455
08 2811	11/21/2008	2009	\$1,200,000	204,748	0	204,748
09 81	1/14/2009	2009	\$1,200,000	204,431	0	204,431
12 342	3/12/2012	2012	\$1,200,000	157,480	0	157,480
13 628	4/25/2013	2013	\$1,200,000	155,059	0	155,059
1330 01228	11/12/2013	2014	\$1,500,000	173,676	0	173,676
1530 00092	1/2/2015	2015	\$1,500,000	302,552	0	302,552
1530 01591	8/30/2015	2015	\$1,500,000	180,790	0	180,790