

State of Alaska
Self-Insurance Program
Actuarial Review
As of June 30, 2020

Firm: **AMI Risk Consultants, Inc.**
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Date: October 9, 2020

October 9, 2020

Mr. Scott Jordan
Director, Risk Management
State of Alaska
Department of Administration, Division of Risk Management
333 Willoughby Avenue, 10th Floor
Juneau, AK 99801

Dear Mr. Jordan:

We are pleased to submit our final report on the Actuarial Review of the State's Self-Insurance Program as of June 30, 2020.

We very much appreciate the cooperation and courtesies extended to us during the course of this engagement. Please do not hesitate to contact us if you have any question about the report.

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

Sincerely,



Aguedo M. Ingco, FCAS, MAAA, CPCU, ARM
President

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I. EXECUTIVE SUMMARY

Self-Insurance Programs

Actuarial Review

June 30, 2020

Purpose

The State of Alaska (“the State”) has engaged AMI Risk Consultants, Inc. (“AMI”) to perform the following for its self-insurance programs covering Workers’ Compensation, General Liability, Automobile Liability, Marine, Aviation and Property exposures:

- Estimate the funding requirement for *outstanding claim liabilities* at June 30, 2020 to comply with Government Accounting Standards Board Statement Number 10 (“GASB 10”).
 - Project the funding requirements for *outstanding claim liabilities* for the next three fiscal year-ends.
 - Estimate the funding requirements for *new claims* that will occur during prospective fiscal years 2020/2021, 2021/2022, and 2022/2023.
 - Estimate the funding requirements for *new claims* that will occur during prospective fiscal years 2020/2021, 2021/2022, and 2022/2023 for workers' compensation, general liability, and auto liability, assuming a \$1 million self-insured retention.
 - Estimate *cash flow* requirements for paid losses for future fiscal years.
 - Provide a size of loss distribution analysis.
-

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, providing for both unreported claims and any anticipated shortfall in case reserves.

Discounted estimates are reduced by a credit for future investment income that will be earned on the assets backing the claim liabilities before claims actually payout.

Estimates at the ***various confidence levels*** include a margin to protect against the possibility of adverse results. Estimates at the ***expected confidence level*** do not contain any such margin.

Specifically ***excluded*** from our estimates is any provision to meet ***other general and administrative expenses*** of the program such as claims administration costs, excess insurance premiums or internal risk management expenses.

The term ***“losses”*** means losses and allocated loss adjustment expense (“ALAE”) unless otherwise indicated.

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.

GASB 10 Affirmation

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

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 the State 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. Please request our written consent prior to distributing this report to other third parties.

**Statement on
Independence**

We are not aware of any relationship between AMI and the State that, in our professional judgment, might reasonably be thought to bear on our independence. No AMI employee has any relationship with the State that could impair our objectivity.

Conclusions

Funding for Outstanding Claim Liabilities (Loss Reserves) at June 30, 2020

To comply with GASB 10, we estimated the following funding for the State's outstanding claim liabilities at June 30, 2020. This is the amount needed to settle unpaid claim liabilities incurred on or before June 30, 2020.

**Estimated Outstanding Claim Liabilities at Retention
As of June 30, 2020
Expected Confidence Level
(\$000's)**

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$144,011	\$117,887
General Liability	28,240	26,008
Automobile Liability	693	667
Marine	633	613
Aviation	449	431
Property	2,114	2,073
Total	\$176,141	\$147,679

Estimates for other confidence levels are shown in the [Summary Exhibit, Page 1A](#) of the Actuarial Exhibits immediately following this written report.

Funding for Outstanding Claim Liabilities for the Next Three Fiscal Year-ends

We also estimated the funding requirements for the State's outstanding claim liabilities at June 30, 2021, at June 30, 2022, and at June 30, 2023.

**Estimated Outstanding Claim Liabilities at Retention
As of June 30, 2021
Expected Confidence Level
(\$000's)**

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$132,900	\$107,982
General Liability	30,004	27,586
Automobile Liability	611	588
Marine	603	584
Aviation	412	395
Property	994	976
Total	\$165,523	\$138,110

**Conclusions
(continued)**

**Estimated Outstanding Claim Liabilities at Retention
As of June 30, 2022
Expected Confidence Level
(\$000's)**

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$130,566	\$106,257
General Liability	31,953	29,370
Automobile Liability	607	584
Marine	631	611
Aviation	473	454
Property	919	902
Total	\$165,149	\$138,177

**Estimated Outstanding Claim Liabilities at Retention
As of June 30, 2023
Expected Confidence Level
(\$000's)**

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$128,599	\$104,815
General Liability	34,098	31,371
Automobile Liability	604	581
Marine	665	644
Aviation	464	446
Property	1,014	995
Total	\$165,445	\$138,853

Estimates for other confidence levels are shown in the [Summary Exhibit, Pages 1B to 1D](#) of the Actuarial Exhibits immediately following this written report.

**Conclusions
(continued)****Funding for New Claims Occurring During Future Fiscal Years**

Our estimated funding for the ultimate cost of new claims occurring during the next three fiscal years is as follows.

**Estimated Ultimate Losses for New Claims
At the Expected Confidence Level
(\$000's)**

For Fiscal Year 2020/2021

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$19,797	\$17,024
General Liability	8,835	7,744
Automobile Liability	426	404
Marine	474	450
Aviation	237	222
Property	966	930
Total	\$30,735	\$26,774

For Fiscal Year 2021/2022

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$20,094	\$17,280
General Liability	8,978	7,869
Automobile Liability	441	418
Marine	499	474
Aviation	240	225
Property	1,025	987
Total	\$31,277	\$27,253

For Fiscal Year 2022/2023

Coverage	Undiscounted	Discounted at 3.0%
Workers' Compensation	\$20,397	\$17,540
General Liability	9,121	7,994
Automobile Liability	447	424
Marine	517	492
Aviation	244	229
Property	1,087	1,047
Total	\$31,813	\$27,726

Estimates for other confidence levels are shown in the [Summary Exhibit, Pages 2A to 2C](#) of the Actuarial Exhibits immediately following this written report.

**Conclusions
(continued)**

Funding for New Claims Occurring During Future Fiscal Years - Limited to \$1 Million Retention

Currently, the State retains all claim liabilities for the workers' compensation, general liability, and automobile liability programs. As part of the scope of this report, the State requested an estimate of the ultimate losses for new claims for these programs assuming a \$1 million per occurrence self-insured retention.

**Estimated Ultimate Losses for New Claims
Undiscounted at the Expected Confidence Level
Limited to \$1 Million Retention
(\$000's)**

Coverage	2020/2021	2021/2022	2022/2023
Workers' Compensation	\$16,432	\$16,678	\$16,930
General Liability	6,405	6,509	6,613
Automobile Liability	298	309	313

**Conclusions
(continued)**

Projected Cash Flow from Paid Losses

Our estimated cash flow from paid losses during the next three fiscal years is as follows. These are estimates of the cash required for claim payments that will come due during each of the next three years.

**Projected Paid Loss Cash Flow
At the Expected Confidence Level
(\$000's)**

Coverage	2020/2021	2021/2022	2022/2023
Workers' Compensation	\$25,933	\$23,167	\$22,909
General Liability	7,072	7,028	6,976
Automobile Liability	508	445	450
Marine	504	471	483
Aviation	274	239	253
Property	2,086	1,100	992
Total	\$36,377	\$32,450	\$32,063

Reliance and Limitations

In performing the analysis, we relied without audit or verification on the following information furnished by the State. We reviewed the data received for reasonableness and consistency with prior valuations.

- Incurred and paid losses by accident year as of June 30, 2020 for the following coverages:
 1. Workers' Compensation
 2. General Liability
 3. Automobile Liability
 4. Marine
 5. Aviation
 6. Property.
- Full-time employee, population and vehicle counts, and property value by fiscal year.

Our contact at the State Division of Risk Management was Ms. Sheri Gray, Risk Manager.

In performing our calculations for Marine, Aviation and Property, losses were limited to their respective self-insurance retentions. Losses for General Liability and Automobile Liability were not limited. Workers' Compensation losses were not limited except for those from accident years prior to 1994.

Based on the discussions from the prior actuarial study, losses for all coverages were analyzed gross of recoveries and on an occurrence basis.

**Reliance and
Limitations
(continued)**

Risk of Adverse Deviation

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 for the State. 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.

II. ACTUARIAL REPORT

Background

The State has self-insured its workers' compensation, general liability, automobile liability, marine, aviation, and property programs for many years. By effectively managing these self-insurance programs through the Division of Risk Management, the State expends less public funds than would be paid to private insurance companies, and at the same time provides streamlined claims services utilizing professional adjusting firms located throughout Alaska.

Currently the State retains full liability for the workers' compensation, general liability, and auto liability programs. The property program has a \$1 million per occurrence self-insurance retention. The marine program has a \$500,000/\$100,000 per occurrence self-insurance retention for marine Hull & Machinery AMHS/Other and a \$100,000/\$75,000 per occurrence for Protection & Indemnity AMHS/Other as well as Pollution coverage. The aviation program has a \$250,000 per occurrence self-insurance retention. The current and historical self-insured retentions for each program are summarized in Appendix E.

The programs cover all State Departments except those specifically excluded such as the Alaska Railroad and University of Alaska, who administer their own insurance program.

The State changed their TPA in August 2017 and there were some changes in their Workers' Compensation attorneys in 2018.

Actuarial Approach

Ultimate Losses

To estimate ultimate losses, we used the following actuarial approaches:

- *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 June 30,
2020.*

Incurred Loss Development Approach (ILDA)

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

Loss Rate Approach (LRA)

To react to the immaturity of the paid and incurred losses for the most recent accident year, the LRA was used in lieu of the ILDA and PLDA. Under the LRA, a loss rate is judgmentally selected for the most recent year. This loss rate is then multiplied by the appropriate exposure to estimate ultimate losses.

Bornhuetter-Ferguson Incurred Loss Approach (BFILA)

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

Bornhuetter-Ferguson Paid Loss Approach (BFPLA)

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

These approaches were applied to losses net of excess insurance for marine, aviation and property. Loss development factors were based on the State's historical loss development patterns by coverage.

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)**

Funding for Outstanding Claim Liabilities (Loss Reserves) as of June 30, 2020

Ultimate losses were selected from the results of the described approaches. Paid losses were subtracted from the selected ultimate to estimate total undiscounted loss reserves.

Funding for New Claims Occurring in Future Fiscal Years

To estimate the ultimate losses for prospective fiscal years by coverage, we followed these steps:

*The steps we
used to estimate
the ultimate
losses for future
Fiscal Years*

- 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 future fiscal years.
- Multiplied the extrapolated loss rates by the projected exposures for future years.

For workers' compensation, general liability, and automobile liability, the funding requirements for future fiscal years were also projected assuming a \$1 million self-insurance retention. A retention factor, based on industry increased limits factors for the State, is applied to the unlimited projected losses to estimate the funding amount at the retention limit.

Funding for Outstanding Claim Liabilities (Loss Reserves) for Future Fiscal Year-ends

The estimated future loss reserves were based on the loss reserves from the prior fiscal year-end plus an estimate of the additional losses for new claims incurred in the new fiscal year, reduced by the expected payments during the new year.

**Actuarial
Approach
(continued)**

Future Investment Income and Risk Margins

Because claims are not settled immediately, reserves used to fund future payments earn investment income before they are needed to pay claims. In estimating the *discounted funding for outstanding claim liability* at June 30, 2020 and the *discounted funding for new claims* occurring during next three fiscal years, we reduced the undiscounted estimates by the amount of estimated future investment income.

We assumed an average annual rate of return on invested assets of **3.0%**.

Furthermore, our estimates using the various methods and procedures we have described are based on an expected value. Conceptually, an expected value is an average value. The actual losses of an entity like the State will vary and could be higher or lower than this average value. The more risk margin that is added to this average value in determining the funding level, the higher the likelihood that the State's funding will be sufficient to cover actual losses.

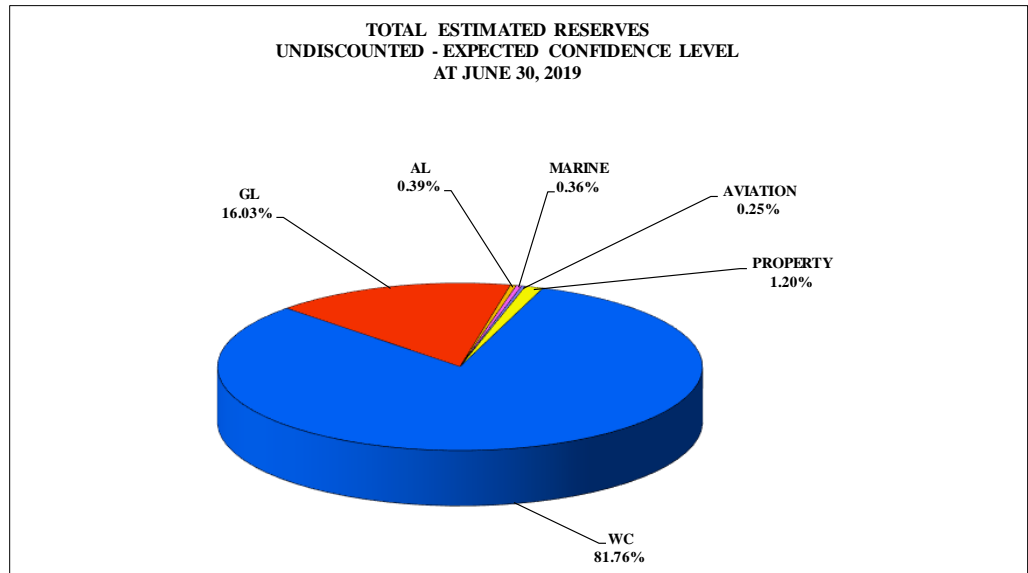
In our calculations we used margins for **75%, 85% and 95% confidence levels**. With the 75% confidence level we are estimating the margin that is necessary so that there is a 75% likelihood that the funding will be sufficient to cover the actual liabilities.

Graphs

Distribution of Undiscounted Loss Reserves by Coverage

For additional perspective, we prepared the pie chart below to show the proportion of the estimated reserves of **\$176.1 million**, associated with each coverage:

The bulk of the \$176.1 million undiscounted reserves as of June 30, 2020 is for Workers' Compensation



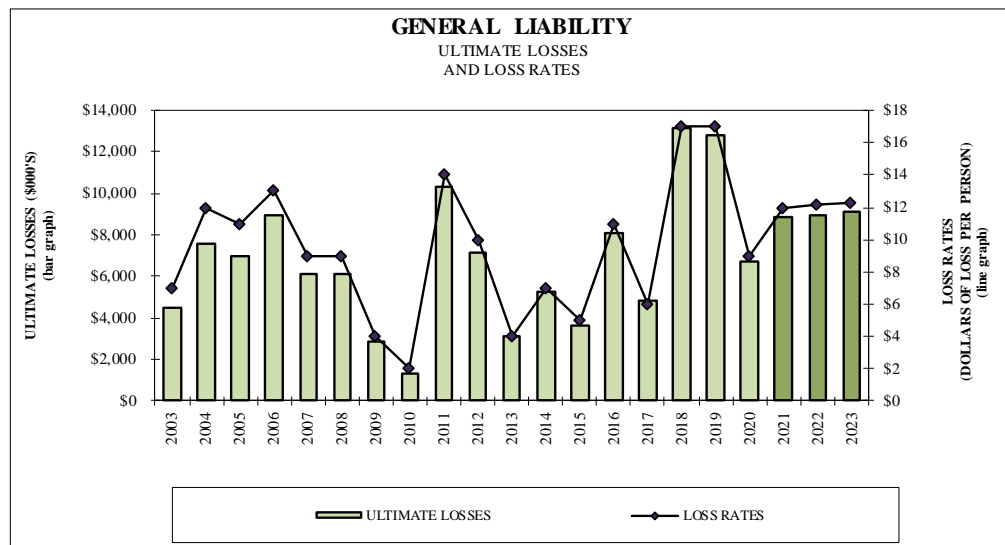
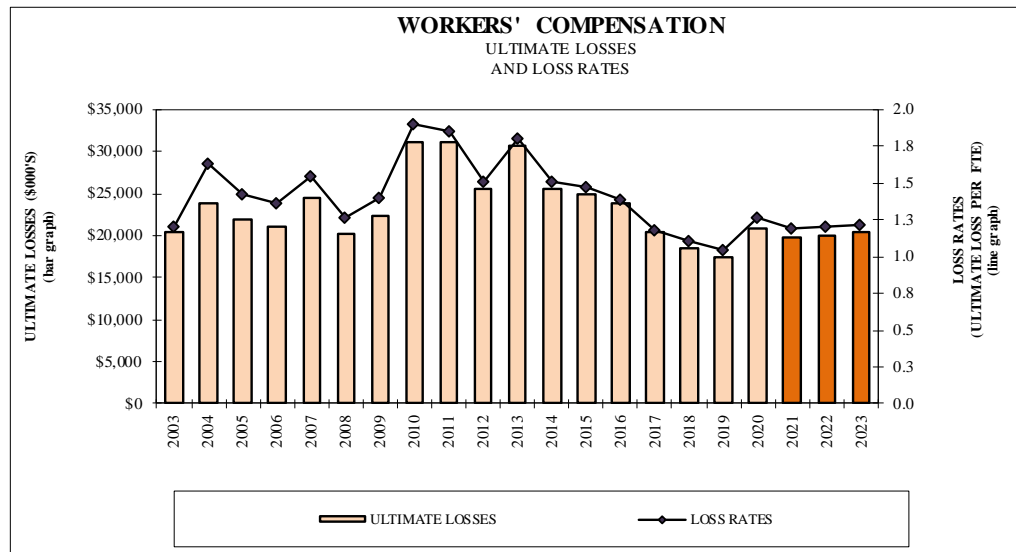
WC = Workers' Compensation
AL = Automobile Liability
GL = General Liability

Graphs (continued)

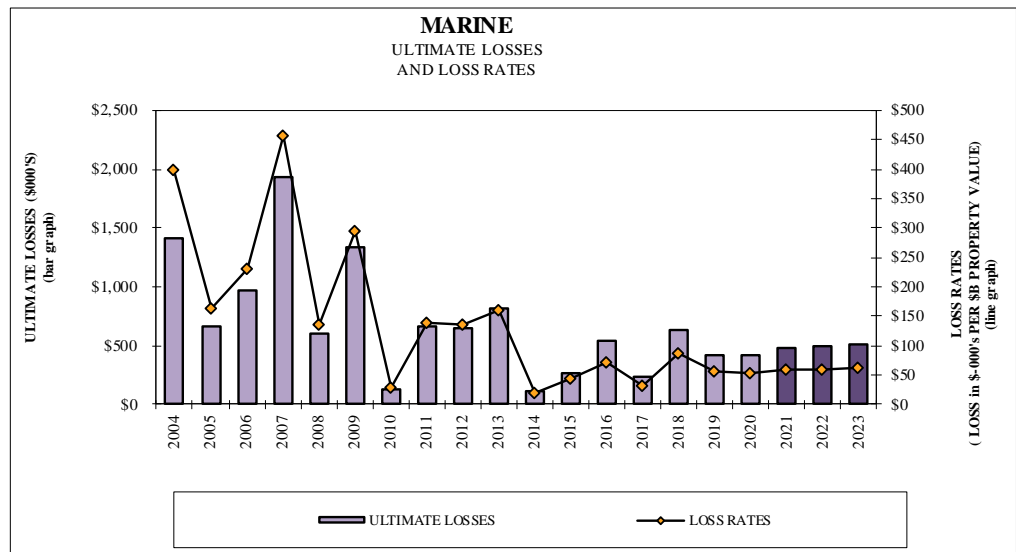
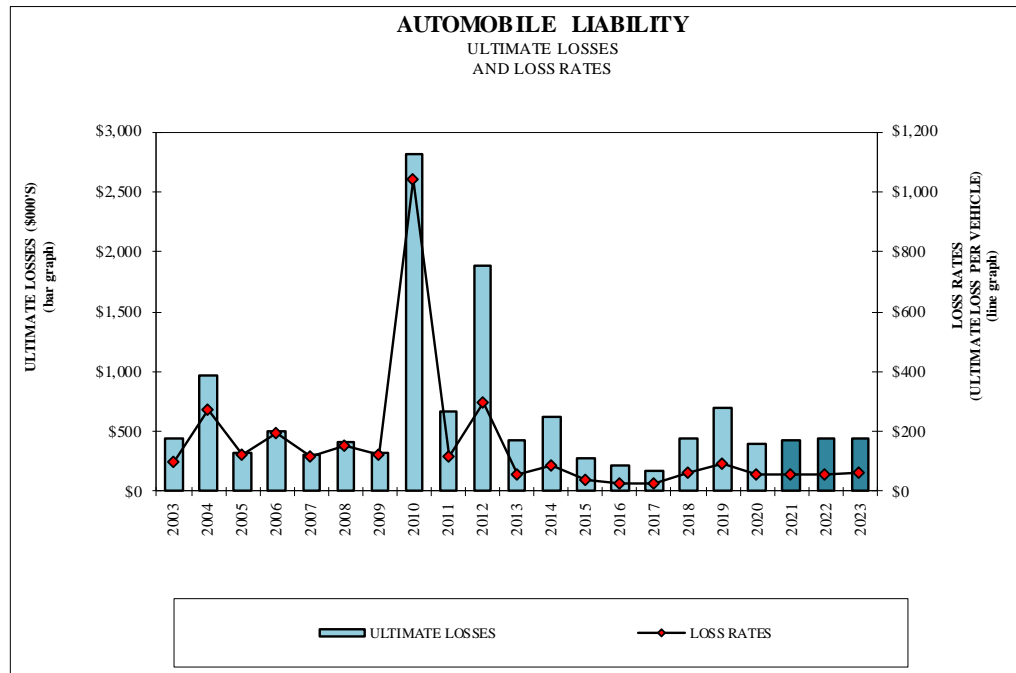
Graphs of Ultimate Losses and Loss Rates

To give perspective on the prospective funding levels relative to the historical trend in ultimate losses and loss rates, we prepared the following graphs by type of coverage.

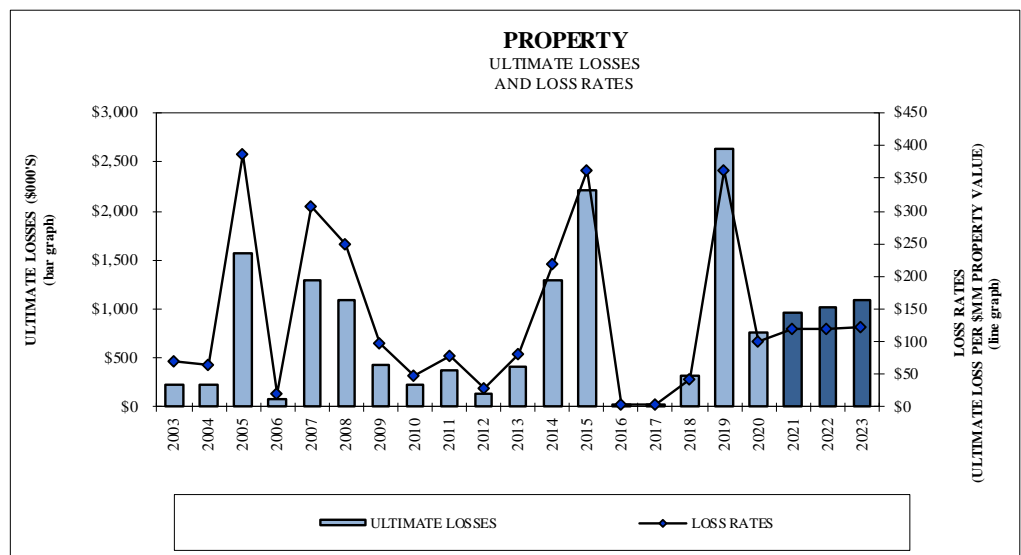
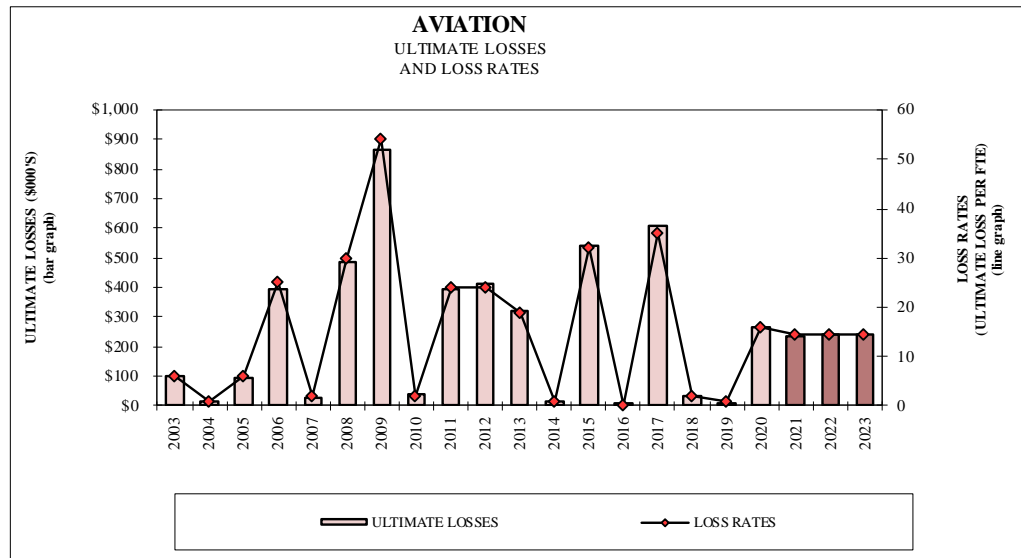
For each graph the **bar graph** shows historical and projected *ultimate losses* by accident year. Values are read from the *left-hand vertical axis*. The **line graph**, on the other hand, indicates the *loss rate* with values and description read from the *right-hand vertical axis*.



Graphs (continued)



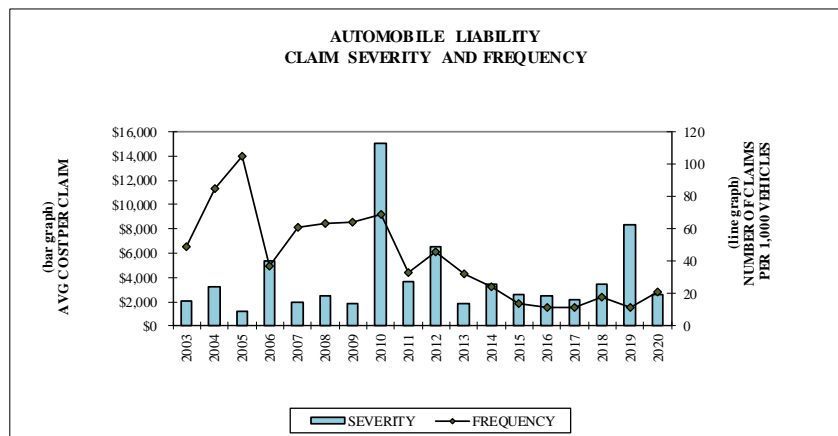
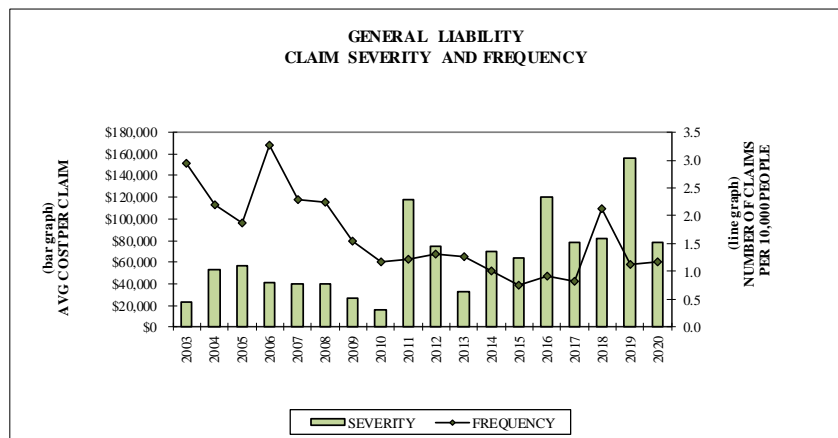
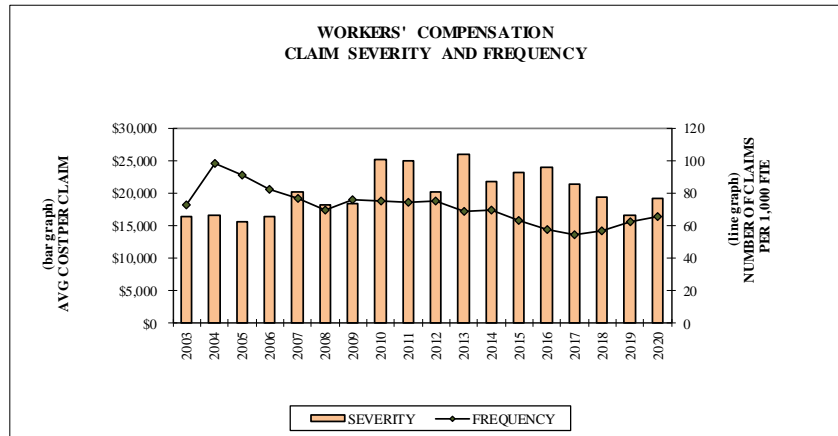
Graphs (continued)



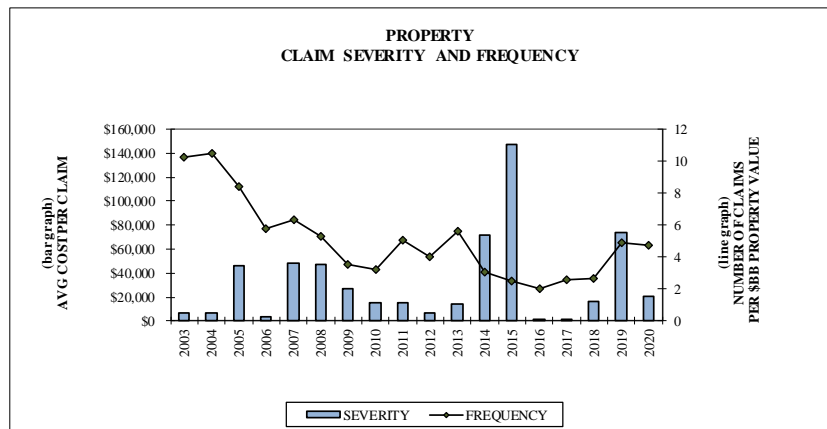
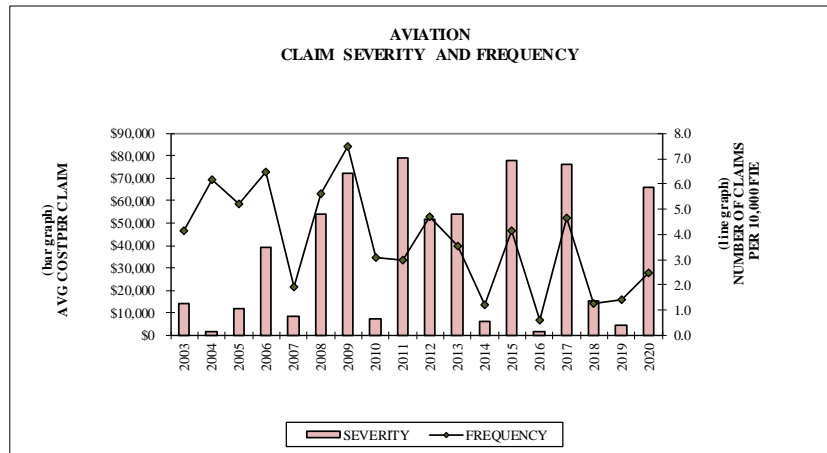
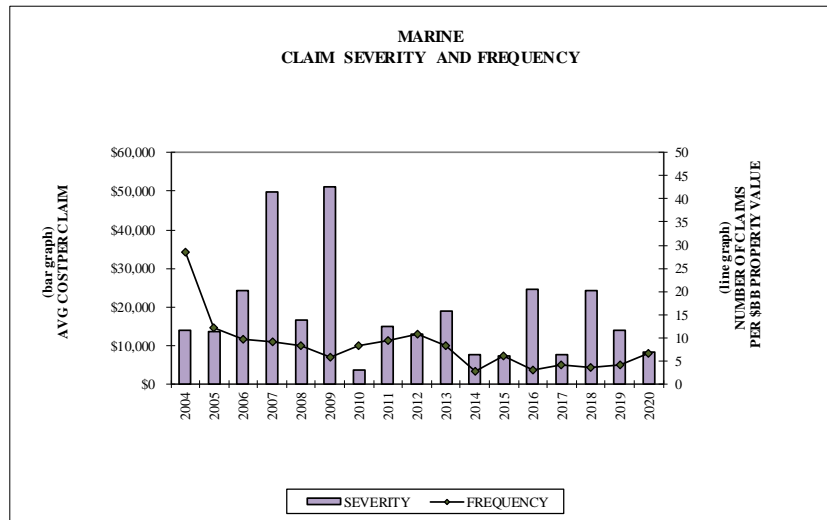
Graphs (continued)

Graphs of Ultimate Claim Frequency and Ultimate Claim Severity

To give perspective on claim frequency and claim severity, we prepared the following graphs by type of coverage.



Graphs (continued)



Attached Exhibits

We prepared the attached Summary Exhibit to summarize the results of our calculations. There are three (3) pages to the Summary Exhibit. Each page relates to the following:

- Pages 1A, 1B, 1C, and 1D show the summary of loss reserves at various confidence levels and on both an undiscounted and discounted basis for the following fiscal year-ends: June 30, 2020; June 30, 2021; June 30, 2022; and June 30, 2023.
- Pages 2A, 2B, and 2C show the projected ultimate losses for the next three fiscal years, at various confidence levels and on both an undiscounted and discounted basis.
- Page 3 shows the estimated paid loss cash flows for the next three fiscal years.

We prepared Exhibits I-VI to perform the calculations previously described. Each exhibit corresponds to the following coverage:

- *Exhibit I - Workers' Compensation*
- *Exhibit II – General Liability*
- *Exhibit III- Automobile Liability*
- *Exhibit IV – Marine*
- *Exhibit V – Aviation*
- *Exhibit VI – Property*

There are nine (9) pages to Exhibits I-VI and each page relates to the following:

- Page 1A shows a summary of ultimate losses based on the various methods, the selected ultimate loss and undiscounted loss reserves at the expected confidence level as of June 30, 2020.

Pages 1B, 1C, and 1D show estimates of the undiscounted loss reserves at the expected confidence level for the next three fiscal year-ends.

- Page 2 shows calculation of ultimate losses using the ILDA, PLDA and LRA.
-

**Attached
Exhibits
(continued)**

- Page 3 shows the calculation of ultimate losses using the BFILA and BFPLA.
- Pages 4A to 4B show the calculation of historical incurred loss development factors; Pages 4C to 4D show the calculation of historical paid loss development factors; Pages 4E to 4F show the calculation of claim count development factors.
- Pages 5A, 5B, 5C, and 5D shows the calculation of discounted reserves at the expected level and at the 75%, 85% and 95% confidence levels for the following fiscal year-ends: June 30, 2020; June 30, 2021; June 30, 2022; and June 30, 2023.
- Page 6 shows the calculation of projected ultimate losses for new claims occurring during the next three fiscal years at the expected level and at the 75%, 85% and 95% confidence levels.

For Exhibits I, II, and III, Page 6A shows the calculation of projected ultimate losses, assuming a \$1 million self-insurance retention is in place.

- Page 7 shows the calculation of ultimate claim frequency and ultimate claim severity.
- Page 8 shows the calculation of paid cash flows during the fiscal years.
- Page 9 shows the analysis of the size of loss distribution.

Calculation of Discount Factors

We prepared Appendix A to show the calculation of discount factors using the average “risk-free” rate of return for investments maturing during the expected claim payout period. There are six pages to this Appendix:

- *Page 1 - Workers’ Compensation*
 - *Page 2 – General Liability*
 - *Page 3 - Automobile Liability*
 - *Page 4 – Marine*
 - *Page 5 – Aviation*
 - *Page 6 – Property*
-

**Attached
Exhibits
(continued)**

Comparison of Loss Reserves at June 30, 2020 to Loss Reserves at June 30, 2019

Appendix B reconciles the undiscounted reserves as of June 30, 2020 with the undiscounted reserves as of June 30, 2019.

This Appendix has seven pages:

- *Page 1 - All Coverages Combined*
- *Page 2 - Workers' Compensation*
- *Page 3 – General Liability*
- *Page 4 - Automobile Liability*
- *Page 5 – Marine*
- *Page 6 – Aviation*
- *Page 7 – Property*

Comparison of Ultimate Losses at June 30, 2020 to Ultimate Losses at June 30, 2019

Appendix C shows the comparison of ultimate losses between June 30, 2020 and June 30, 2019 by accident year.

- *Page 1 - Workers' Compensation*
- *Page 2 – General Liability*
- *Page 3 - Automobile Liability*
- *Page 4 – Marine*
- *Page 5 – Aviation*
- *Page 6 – Property*

Comparison of Paid Losses at June 30, 2020 to Paid Losses at June 30, 2019

Appendix D shows the comparison of paid losses between June 30, 2020 and June 30, 2019 by accident year.

- *Page 1 - Workers' Compensation*
 - *Page 2 – General Liability*
 - *Page 3 - Automobile Liability*
 - *Page 4 – Marine*
 - *Page 5 – Aviation*
 - *Page 6 – Property*
-

**Attached
Exhibits
(continued)**

List of Self-insured Retentions by Fiscal Year

Appendix E shows the list of self-insurance retentions by fiscal year and by sub-line.

- *Page 1 - Workers' Compensation*
- *Page 2 – General Liability*
- *Page 3 - Automobile Liability*
- *Page 4 – Marine*
- *Page 5 – Aviation*
- *Page 6 – Property*

List of Large Losses

Appendix F shows a list of unlimited large losses as of June 30, 2020.

- *Page 1 - Workers' Compensation*
 - *Page 2 – General Liability*
 - *Page 3 - Automobile Liability*
 - *Page 4 – Marine*
 - *Page 5 – Aviation*
 - *Page 6 – Property*
-

III. ACTUARIAL EXHIBITS

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SUMMARY OF LOSS RESERVES
AS OF JUNE 30, 2020
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

LOSS RESERVES AT JUNE 30, 2020

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$144,011	\$117,887	\$123,639	\$127,750	\$133,785
GENERAL LIABILITY	28,240	26,008	32,982	40,176	53,734
AUTOMOBILE LIABILITY	693	667	1,106	1,516	2,402
MARINE	633	613	815	974	1,313
AVIATION	449	431	574	685	924
PROPERTY	2,114	2,073	2,755	3,293	4,441
TOTAL	\$176,141	\$147,679	\$161,870	\$174,393	\$196,600

Notes:

(1) - Per Page 1A, total of Column (7) of each exhibit.

(2), (3), (4) & (5) - Per Page 5A, Column (5) of each exhibit.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SUMMARY OF LOSS RESERVES
AS OF JUNE 30, 2021
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

LOSS RESERVES AT JUNE 30, 2021

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$132,900	\$107,982	\$113,250	\$117,015	\$122,543
GENERAL LIABILITY	30,004	27,586	34,983	42,614	56,995
AUTOMOBILE LIABILITY	611	588	974	1,335	2,116
MARINE	603	584	776	927	1,251
AVIATION	412	395	526	628	847
PROPERTY	994	976	1,297	1,550	2,091
TOTAL	\$165,523	\$138,110	\$151,806	\$164,070	\$185,843

Notes:

(1) - Per Page 1B, total of Column (7) of each exhibit.

(2), (3), (4) & (5) - Per Page 5B, Column (5) of each exhibit.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SUMMARY OF LOSS RESERVES
AS OF JUNE 30, 2022
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

LOSS RESERVES AT JUNE 30, 2022

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$130,566	\$106,257	\$111,441	\$115,147	\$120,587
GENERAL LIABILITY	31,953	29,370	37,246	45,369	60,680
AUTOMOBILE LIABILITY	607	584	968	1,327	2,103
MARINE	631	611	812	970	1,308
AVIATION	473	454	604	722	973
PROPERTY	919	902	1,199	1,432	1,932
TOTAL	\$165,149	\$138,177	\$152,269	\$164,967	\$187,583

Notes:

(1) - Per Page 1C, total of Column (7) of each exhibit.

(2), (3), (4) & (5) - Per Page 5C, Column (5) of each exhibit.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SUMMARY OF LOSS RESERVES
AS OF JUNE 30, 2023
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

LOSS RESERVES AT JUNE 30, 2023

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$128,599	\$104,815	\$109,929	\$113,584	\$118,950
GENERAL LIABILITY	34,098	31,371	39,783	48,461	64,815
AUTOMOBILE LIABILITY	604	581	963	1,321	2,093
MARINE	665	644	857	1,024	1,381
AVIATION	464	446	593	709	956
PROPERTY	1,014	995	1,323	1,581	2,132
TOTAL	\$165,445	\$138,853	\$153,448	\$166,679	\$190,327

Notes:

(1) - Per Page 1D, total of Column (7) of each exhibit.

(2), (3), (4) & (5) - Per Page 5D, Column (5) of each exhibit.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
RECOMMENDED FUNDING FOR FUTURE ACCIDENTS OCCURRING IN FY 2020/2021
AS OF JUNE 30, 2020
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

PROJECTED ULTIMATE LOSSES FOR FY 2020/2021

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$19,797	\$17,024	\$20,311	\$22,432	\$26,367
GENERAL LIABILITY	8,835	7,744	10,984	14,034	20,083
AUTOMOBILE LIABILITY	426	404	411	591	1,321
MARINE	474	450	620	748	1,003
AVIATION	237	222	306	369	495
PROPERTY	966	930	1,280	1,547	2,073
TOTAL	\$30,735	\$26,774	\$33,912	\$39,721	\$51,342

Notes:

- (1) - Per Page 6A, Column (4) of Exhibit I, II & III and Page 6, Column (4) of Exhibits IV, V & VI.
(2) - Per Page 6A, Column (8) of Exhibit I, II & III and Page 6, Column (8) of Exhibits IV, V & VI.
(3) - Per Page 6A, Column (9) of Exhibit I, II & III and Page 6, Column (9) of Exhibits IV, V & VI.
(4) - Per Page 6A, Column (10) of Exhibit I, II & III and Page 6, Column (10) of Exhibits IV, V & VI.
(5) - Per Page 6A, Column (11) of Exhibit I, II & III and Page 6, Column (11) of Exhibits IV, V & VI.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
RECOMMENDED FUNDING FOR FUTURE ACCIDENTS OCCURRING IN FY 2021/2022
AS OF JUNE 30, 2020
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

PROJECTED ULTIMATE LOSSES FOR FY 2021/2022

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$20,094	\$17,280	\$20,616	\$22,770	\$26,764
GENERAL LIABILITY	8,978	7,869	11,161	14,260	20,407
AUTOMOBILE LIABILITY	441	418	425	612	1,367
MARINE	499	474	653	788	1,057
AVIATION	240	225	310	374	502
PROPERTY	1,025	987	1,359	1,642	2,200
TOTAL	\$31,277	\$27,253	\$34,524	\$40,446	\$52,297

Notes:

- (1) - Per Page 6A, Column (4) of Exhibit I, II & III and Page 6, Column (4) of Exhibits IV, V & VI.
(2) - Per Page 6A, Column (8) of Exhibit I, II & III and Page 6, Column (8) of Exhibits IV, V & VI.
(3) - Per Page 6A, Column (9) of Exhibit I, II & III and Page 6, Column (9) of Exhibits IV, V & VI.
(4) - Per Page 6A, Column (10) of Exhibit I, II & III and Page 6, Column (10) of Exhibits IV, V & VI.
(5) - Per Page 6A, Column (11) of Exhibit I, II & III and Page 6, Column (11) of Exhibits IV, V & VI.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
RECOMMENDED FUNDING FOR FUTURE ACCIDENTS OCCURRING IN FY 2022/2023
AS OF JUNE 30, 2020
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

PROJECTED ULTIMATE LOSSES FOR FY 2022/2023

COVERAGE	UNDISCOUNTED	DISCOUNTED AT 3%			
	EXPECTED LEVEL	EXPECTED LEVEL	75% CONFIDENCE LEVEL	85% CONFIDENCE LEVEL	95% CONFIDENCE LEVEL
	(1)	(2)	(3)	(4)	(5)
WORKERS' COMPENSATION	\$20,397	\$17,540	\$20,927	\$23,112	\$27,167
GENERAL LIABILITY	9,121	7,994	11,338	14,487	20,731
AUTOMOBILE LIABILITY	447	424	431	620	1,387
MARINE	517	492	677	818	1,097
AVIATION	244	229	315	381	511
PROPERTY	1,087	1,047	1,441	1,741	2,334
TOTAL	\$31,813	\$27,726	\$35,129	\$41,159	\$53,227

Notes:

- (1) - Per Page 6A, Column (4) of Exhibit I, II & III and Page 6, Column (4) of Exhibits IV, V & VI.
(2) - Per Page 6A, Column (8) of Exhibit I, II & III and Page 6, Column (8) of Exhibits IV, V & VI.
(3) - Per Page 6A, Column (9) of Exhibit I, II & III and Page 6, Column (9) of Exhibits IV, V & VI.
(4) - Per Page 6A, Column (10) of Exhibit I, II & III and Page 6, Column (10) of Exhibits IV, V & VI.
(5) - Per Page 6A, Column (11) of Exhibit I, II & III and Page 6, Column (11) of Exhibits IV, V & VI.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
PROJECTED CASHFLOW
AS OF JUNE 30, 2020
ALL COVERAGES COMBINED
(AMTS IN THOUSANDS)

PROJECTED CASH FLOW FOR FUTURE FISCAL YEARS

COVERAGE	FISCAL YEAR		
	2020/2021	2021/2022	2022/2023
	(1)	(2)	(3)
WORKERS' COMPENSATION	\$25,933	\$23,167	\$22,909
GENERAL LIABILITY	7,072	7,028	6,976
AUTOMOBILE LIABILITY	508	445	450
MARINE	504	471	483
AVIATION	274	239	253
PROPERTY	2,086	1,100	992
TOTAL	\$36,377	\$32,450	\$32,063

Notes:

(1) - (3) - Per Page 8 of Exhibits I - VI.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior**							\$5,754
1994	\$8,223	\$8,198	\$8,223	\$8,198	\$8,211	\$7,924	287
1995	15,346	15,283	15,359	15,283	15,317	13,570	1,747
1996	12,581	12,493	12,580	12,493	12,537	11,645	891
1997	12,759	12,644	12,758	12,644	12,702	11,555	1,146
1998	10,576	10,458	10,575	10,458	10,517	9,928	589
1999	14,226	14,041	14,225	14,041	14,134	12,684	1,449
2000	17,874	17,655	17,929	17,655	17,778	14,945	2,834
2001	20,968	20,630	21,001	20,630	20,807	17,948	2,860
2002	21,729	21,721	21,822	21,353	21,656	18,514	3,142
2003	20,646	20,529	20,719	20,164	20,515	18,074	2,441
2004	24,080	23,691	23,966	23,345	23,770	20,256	3,514
2005	21,646	22,958	21,746	21,661	22,003	19,336	2,667
2006	21,312	21,245	21,327	20,263	21,037	17,602	3,435
2007	25,078	24,160	24,965	23,588	24,448	19,566	4,882
2008	20,708	19,724	20,675	19,823	20,232	16,367	3,866
2009	22,419	23,192	22,450	21,692	22,438	17,939	4,499
2010	31,882	32,208	31,425	29,071	31,146	21,886	9,260
2011	31,676	33,054	30,896	28,619	31,061	23,968	7,093
2012	25,090	27,084	24,542	25,745	25,615	20,655	4,960
2013	32,437	31,684	31,008	27,488	30,654	21,944	8,710
2014	26,784	25,465	25,709	24,296	25,564	18,296	7,267
2015	24,995	26,026	24,206	24,620	24,962	18,019	6,943
2016	24,666	24,125	25,253	21,501	23,886	14,107	9,779
2017	19,830	19,343	20,409	20,268	20,338	12,100	8,239
2018	17,151	16,472	18,461	18,410	18,436	9,474	8,962
2019	17,701	14,978	19,132	18,092	17,476	7,461	10,015
2020	21,196	20,426	22,528	19,487	20,909	4,129	16,780
TOTAL	\$563,579	\$559,488	\$563,889	\$540,887	\$558,149	\$419,891	\$144,011

Notes:

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

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

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

**Losses Prior to 1994 are limited to retention.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$5,754	\$778			\$0
1994	\$8,211	287	287	\$7,924	\$8,211	0
1995	15,317	1,747	1,747	13,570	15,317	0
1996	12,537	891	104	11,645	11,750	787
1997	12,702	1,146	120	11,555	11,675	1,027
1998	10,517	589	63	9,928	9,991	526
1999	14,134	1,449	177	12,684	12,862	1,272
2000	17,778	2,834	435	14,945	15,380	2,399
2001	20,807	2,860	368	17,948	18,316	2,491
2002	21,656	3,142	467	18,514	18,981	2,675
2003	20,515	2,441	330	18,074	18,404	2,111
2004	23,770	3,514	506	20,256	20,762	3,008
2005	22,003	2,667	400	19,336	19,736	2,267
2006	21,037	3,435	434	17,602	18,036	3,001
2007	24,448	4,882	536	19,566	20,102	4,346
2008	20,232	3,866	380	16,367	16,746	3,486
2009	22,438	4,499	375	17,939	18,314	4,124
2010	31,146	9,260	777	21,886	22,664	8,483
2011	31,061	7,093	555	23,968	24,522	6,539
2012	25,615	4,960	365	20,655	21,020	4,595
2013	30,654	8,710	679	21,944	22,623	8,032
2014	25,564	7,267	622	18,296	18,918	6,645
2015	24,962	6,943	590	18,019	18,609	6,353
2016	23,886	9,779	888	14,107	14,995	8,891
2017	20,338	8,239	793	12,100	12,893	7,445
2018	18,436	8,962	1,064	9,474	10,537	7,898
2019	17,476	10,015	1,537	7,461	8,998	8,478
2020	20,909	16,780	5,368	4,129	9,496	11,413
2021	19,797		5,188		5,188	14,609
TOTAL	\$577,946	\$144,011	\$25,933	\$419,891	\$445,046	\$132,900

Notes:

(1) - For 2020 and prior, ultimate losses based from Exhibit I, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit I, Page 6A.

(2) - For 2020 and prior, loss reserves based from Exhibit I, Page 1A, Column (7).

(3) - From Exhibit I, Page 8.

(4) - From Exhibit I, Page 1A. Column (6).

(5) = (3) + (4)

(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$739			\$0
1994	\$8,211	0	0	\$8,211	\$8,211	0
1995	15,317	0	0	15,317	15,317	0
1996	12,537	787	105	11,750	11,855	682
1997	12,702	1,027	120	11,675	11,795	907
1998	10,517	526	55	9,991	10,046	471
1999	14,134	1,272	136	12,862	12,998	1,135
2000	17,778	2,399	293	15,380	15,673	2,106
2001	20,807	2,491	382	18,316	18,698	2,109
2002	21,656	2,675	345	18,981	19,326	2,331
2003	20,515	2,111	314	18,404	18,717	1,797
2004	23,770	3,008	407	20,762	21,169	2,601
2005	22,003	2,267	327	19,736	20,062	1,940
2006	21,037	3,001	450	18,036	18,486	2,550
2007	24,448	4,346	549	20,102	20,651	3,797
2008	20,232	3,486	383	16,746	17,129	3,103
2009	22,438	4,124	405	18,314	18,719	3,719
2010	31,146	8,483	707	22,664	23,371	7,776
2011	31,061	6,539	549	24,522	25,071	5,990
2012	25,615	4,595	359	21,020	21,380	4,236
2013	30,654	8,032	591	22,623	23,214	7,440
2014	25,564	6,645	518	18,918	19,436	6,127
2015	24,962	6,353	544	18,609	19,152	5,809
2016	23,886	8,891	755	14,995	15,751	8,135
2017	20,338	7,445	676	12,893	13,569	6,769
2018	18,436	7,898	761	10,537	11,298	7,138
2019	17,476	8,478	1,006	8,998	10,004	7,472
2020	20,909	11,413	1,752	9,496	11,248	9,661
2021	19,797	14,609	4,673	5,188	9,861	9,936
2022	20,094		5,265		5,265	14,829
TOTAL	\$598,040	\$132,900	\$23,167	\$445,046	\$467,474	\$130,566

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit I, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit I, Page 6A.
 (2) - For 2021 and prior, loss reserves based from Exhibit I, Page 1B, Column (6).
 (3) - From Exhibit I, Page 8.
 (4) - From Exhibit I, Page 1B, Column (5).
 (5) = (3) + (4)
 (6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
(1)	(2)	(3)	(4)	(5)	(6)	
Prior		\$0	\$546			\$0
1994	\$8,211	0	0	\$8,211	\$8,211	0
1995	15,317	0	0	15,317	15,317	0
1996	12,537	682	106	11,855	11,961	576
1997	12,702	907	121	11,795	11,916	785
1998	10,517	471	55	10,046	10,101	416
1999	14,134	1,135	118	12,998	13,117	1,017
2000	17,778	2,106	226	15,673	15,899	1,880
2001	20,807	2,109	258	18,698	18,956	1,851
2002	21,656	2,331	358	19,326	19,684	1,973
2003	20,515	1,797	232	18,717	18,949	1,566
2004	23,770	2,601	386	21,169	21,556	2,215
2005	22,003	1,940	262	20,062	20,325	1,678
2006	21,037	2,550	367	18,486	18,854	2,183
2007	24,448	3,797	570	20,651	21,221	3,227
2008	20,232	3,103	392	17,129	17,522	2,711
2009	22,438	3,719	409	18,719	19,128	3,310
2010	31,146	7,776	764	23,371	24,134	7,012
2011	31,061	5,990	499	25,071	25,571	5,491
2012	25,615	4,236	356	21,380	21,735	3,880
2013	30,654	7,440	582	23,214	23,796	6,858
2014	25,564	6,127	451	19,436	19,887	5,676
2015	24,962	5,809	453	19,152	19,605	5,357
2016	23,886	8,135	696	15,751	16,447	7,439
2017	20,338	6,769	575	13,569	14,144	6,194
2018	18,436	7,138	648	11,298	11,946	6,490
2019	17,476	7,472	720	10,004	10,723	6,752
2020	20,909	9,661	1,146	11,248	12,394	8,515
2021	19,797	9,936	1,525	9,861	11,386	8,411
2022	20,094	14,829	4,743	5,265	10,009	10,085
2023	20,397		5,345		5,345	15,052
TOTAL	\$618,437	\$130,566	\$22,909	\$467,474	\$489,837	\$128,599

Notes:

(1) - For 2022 and prior, ultimate losses based from Exhibit I, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit I, Page 6A.

(2) - For 2022 and prior, loss reserves based from Exhibit I, Page 1C, Column (6).

(3) - From Exhibit I, Page 8.

(4) - From Exhibit I, Page 1C, Column (5).

(5) = (3) + (4)

(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED INCURRED LOSSES @6/30/2020	INCURRED LARGE LOSSES AS OF @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	FTE	ESTIMATED LOSS RATE
(1)	(1A)	(2)	(3)	(4)	(5)	
Prior						
1994	\$8,198		1.003	\$8,223	N/A	
1995	15,283	\$2,520	1.005	15,346	N/A	
1996	12,493		1.007	12,581	N/A	
1997	12,644		1.009	12,759	N/A	
1998	10,458		1.011	10,576	N/A	
1999	14,041		1.013	14,226	N/A	
2000	17,655	3,701	1.016	17,874	N/A	
2001	20,630	2,035	1.018	20,968	N/A	
2002	21,353	4,320	1.022	21,729	N/A	
2003	20,164	2,016	1.027	20,646	16,960	1.217
2004	23,345	2,239	1.035	24,080	14,579	1.652
2005	20,889	4,424	1.046	21,646	15,398	1.406
2006	20,255	2,096	1.058	21,312	15,397	1.384
2007	23,588	3,476	1.074	25,078	15,773	1.590
2008	18,995		1.090	20,708	16,050	1.290
2009	20,477	2,516	1.108	22,419	15,977	1.403
2010	29,071	7,129	1.128	31,882	16,386	1.946
2011	28,139	4,536	1.150	31,676	16,721	1.894
2012	21,320		1.177	25,090	16,951	1.480
2013	27,341	2,508	1.205	32,437	17,025	1.905
2014	21,520		1.245	26,784	16,848	1.590
2015	19,425		1.287	24,995	16,959	1.474
2016	19,711	5,129	1.340	24,666	17,272	1.428
2017	14,042		1.412	19,830	17,242	1.150
2018	11,356		1.510	17,151	16,625	1.032
2019	10,423		1.698	17,701	16,744	1.057
2020	11,561			21,196	16,451	1.288
TOTAL	\$494,377	\$48,647		\$563,579		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED PAID LOSSES @6/30/2020	PAID LARGE LOSSES AS OF @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	FTE	ESTIMATED LOSS RATE
(6)	(6A)	(7)	(8)	(9)	(10)	
Prior						
1994	\$7,924		1.026	\$8,198	N/A	
1995	13,570	\$1,403	1.030	15,283	N/A	
1996	11,645		1.034	12,493	N/A	
1997	11,555		1.038	12,644	N/A	
1998	9,928		1.043	10,458	N/A	
1999	12,684		1.049	14,041	N/A	
2000	14,945	2,680	1.059	17,655	N/A	
2001	17,948	1,211	1.068	20,630	N/A	
2002	18,514	2,421	1.081	21,721	N/A	
2003	18,074	1,168	1.095	20,529	16,960	1.210
2004	20,256	981	1.113	23,691	14,579	1.625
2005	19,336	3,013	1.136	22,958	15,398	1.491
2006	17,602	1,070	1.158	21,245	15,397	1.380
2007	19,566	2,056	1.181	24,160	15,773	1.532
2008	16,367		1.205	19,724	16,050	1.229
2009	17,939	1,102	1.228	23,192	15,977	1.452
2010	21,886	1,891	1.254	32,208	16,386	1.966
2011	23,968	1,721	1.282	33,054	16,721	1.977
2012	20,655		1.311	27,084	16,951	1.598
2013	21,944	278	1.347	31,684	17,025	1.861
2014	18,296		1.392	25,465	16,848	1.511
2015	18,019		1.444	26,026	16,959	1.535
2016	14,107	1,540	1.511	24,125	17,272	1.397
2017	12,100		1.599	19,343	17,242	1.122
2018	9,474		1.739	16,472	16,625	0.991
2019	7,461		2.008	14,978	16,744	0.895
2020	4,129			20,426	16,451	1.242
TOTAL	\$419,891	\$22,534		\$559,488		

Notes:

- (1), (4), (6) & (9) - Per STATE OF ALASKA.
 (1A) & (6A) - Incurred and paid losses excluded in the development.
 (2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	FTE	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	1.265	N/A	\$8,211	0.3%	\$25	\$8,198	\$8,223
1995	1.265	N/A	15,314	0.5%	76	15,283	15,359
1996	1.265	N/A	12,537	0.7%	87	12,493	12,580
1997	1.265	N/A	12,702	0.9%	114	12,644	12,758
1998	1.265	N/A	10,517	1.1%	117	10,458	10,575
1999	1.265	N/A	14,134	1.3%	184	14,041	14,225
2000	1.265	N/A	17,765	1.5%	274	17,655	17,929
2001	1.265	N/A	20,799	1.8%	371	20,630	21,001
2002	1.265	N/A	21,725	2.2%	469	21,353	21,822
2003	1.265	16,960	21,455	2.6%	555	20,164	20,719
2004	1.265	14,579	18,443	3.4%	621	23,345	23,966
2005	1.265	15,398	19,479	4.4%	857	20,889	21,746
2006	1.265	15,397	19,478	5.5%	1,072	20,255	21,327
2007	1.265	15,773	19,954	6.9%	1,377	23,588	24,965
2008	1.265	16,050	20,304	8.3%	1,680	18,995	20,675
2009	1.265	15,977	20,212	9.8%	1,973	20,477	22,450
2010	1.265	16,386	20,729	11.4%	2,354	29,071	31,425
2011	1.265	16,721	21,153	13.0%	2,757	28,139	30,896
2012	1.265	16,951	21,444	15.0%	3,222	21,320	24,542
2013	1.265	17,025	21,538	17.0%	3,667	27,341	31,008
2014	1.265	16,848	21,314	19.7%	4,189	21,520	25,709
2015	1.265	16,959	21,454	22.3%	4,781	19,425	24,206
2016	1.265	17,272	21,850	25.4%	5,542	19,711	25,253
2017	1.265	17,242	21,812	29.2%	6,367	14,042	20,409
2018	1.265	16,625	21,031	33.8%	7,105	11,356	18,461
2019	1.265	16,744	21,182	41.1%	8,709	10,423	19,132
2020	1.265	16,451	20,811	52.7%	10,967	11,561	22,528
TOTAL			\$507,346		\$69,512	\$494,377	\$563,889

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	FTE	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior							
1994	1.265	N/A	\$8,211	2.5%	\$208	\$7,924	\$8,198
1995	1.265	N/A	15,314	2.9%	448	13,570	15,283
1996	1.265	N/A	12,537	3.3%	415	11,645	12,493
1997	1.265	N/A	12,702	3.7%	469	11,555	12,644
1998	1.265	N/A	10,517	4.1%	435	9,928	10,458
1999	1.265	N/A	14,134	4.7%	666	12,684	14,041
2000	1.265	N/A	17,765	5.6%	989	14,945	17,655
2001	1.265	N/A	20,799	6.4%	1,330	17,948	20,630
2002	1.265	N/A	21,725	7.5%	1,631	18,514	21,353
2003	1.265	16,960	21,455	8.7%	1,863	18,074	20,164
2004	1.265	14,579	18,443	10.1%	1,871	20,256	23,345
2005	1.265	15,398	19,479	11.9%	2,325	19,336	21,661
2006	1.265	15,397	19,478	13.7%	2,661	17,602	20,263
2007	1.265	15,773	19,954	15.3%	3,063	19,566	23,588
2008	1.265	16,050	20,304	17.0%	3,456	16,367	19,823
2009	1.265	15,977	20,212	18.6%	3,753	17,939	21,692
2010	1.265	16,386	20,729	20.3%	4,202	21,886	29,071
2011	1.265	16,721	21,153	22.0%	4,651	23,968	28,619
2012	1.265	16,951	21,444	23.7%	5,090	20,655	25,745
2013	1.265	17,025	21,538	25.7%	5,544	21,944	27,488
2014	1.265	16,848	21,314	28.2%	6,000	18,296	24,296
2015	1.265	16,959	21,454	30.8%	6,601	18,019	24,620
2016	1.265	17,272	21,850	33.8%	7,394	14,107	21,501
2017	1.265	17,242	21,812	37.4%	8,168	12,100	20,268
2018	1.265	16,625	21,031	42.5%	8,936	9,474	18,410
2019	1.265	16,744	21,182	50.2%	10,631	7,461	18,092
2020	1.265	16,451	20,811	73.8%	15,358	4,129	19,487
TOTAL			\$507,346		\$108,158	\$419,891	\$540,887

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit I, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit I, Columns (5) & (10).

(4) = (1 - (1/LDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994	5,250	6,756	7,152	7,643	7,564	7,544	7,589	7,301	7,707	7,906	7,683	7,655
1995	6,934	9,295	9,612	9,538	10,831	12,311	12,165	12,638	12,816	12,944	13,084	13,690
1996	6,081	7,455	7,563	8,214	8,209	9,744	10,341	10,457	10,667	10,766	11,090	11,682
1997	5,870	7,173	8,028	8,061	8,367	8,776	9,480	9,700	9,648	10,033	10,124	10,218
1998	4,650	5,727	6,428	6,973	7,302	7,349	7,560	7,794	8,096	8,299	8,318	8,592
1999	4,066	5,683	7,121	7,574	8,293	8,566	9,493	9,530	9,561	9,862	10,117	10,431
2000	6,511	8,170	9,646	10,400	10,761	11,066	11,701	11,673	11,978	12,415	13,459	14,089
2001	5,597	10,518	12,522	13,575	13,644	14,211	14,637	15,194	16,616	16,903	17,376	17,437
2002	8,290	10,906	12,333	12,885	13,527	14,209	14,535	15,199	16,037	16,429	17,078	17,170
2003	7,573	10,859	11,474	12,895	13,172	13,579	14,917	15,303	15,822	16,346	16,794	20,280
2004	8,974	11,215	13,530	14,901	15,439	16,146	17,573	18,696	19,346	20,300	20,517	20,919
2005	8,105	11,398	13,772	14,334	15,615	16,502	17,070	18,607	18,580	21,553	21,609	22,093
2006	6,831	10,232	11,614	12,828	14,165	14,953	15,708	16,901	17,055	17,494	17,413	19,516
2007	9,106	11,884	14,159	16,292	16,474	16,996	17,397	19,649	20,101	20,804	22,055	23,071
2008	8,166	12,016	13,938	14,761	15,590	14,933	15,315	17,971	18,591	18,508	18,840	18,721
2009	9,934	13,895	15,191	15,342	15,731	16,511	18,489	17,916	18,102	19,933	19,931	20,477
2010	12,627	16,734	19,814	20,226	23,101	28,601	28,511	28,757	29,905	29,761	29,071	
2011	13,325	18,976	21,502	25,622	26,014	26,364	26,687	27,013	28,079	28,139		
2012	12,430	16,218	18,954	19,646	20,194	21,313	21,133	20,947	21,320			
2013	14,430	20,860	23,768	23,985	26,311	25,926	27,121	27,341				
2014	16,705	18,755	20,452	22,104	21,868	21,712	21,520					
2015	12,567	15,341	16,834	18,016	18,861	19,425						
2016	12,855	15,898	18,816	18,600	19,711							
2017	11,815	13,756	13,469	14,042								
2018	12,958	12,126	11,356									
2019	10,535	10,423										
2020	11,561											

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12 TO 24	24 TO 36	36 TO 48	48 TO 60	60 TO 72	72 TO 84	84 TO 96	96 TO 108	108 TO 120	120 TO 132	132 TO 144	144 TO 156
1994	1.287	1.059	1.069	0.990	0.997	1.006	0.962	1.056	1.026	0.972	0.996	1.003
1995	1.340	1.034	0.992	1.136	1.137	0.988	1.039	1.014	1.010	1.011	1.046	1.009
1996	1.226	1.014	1.086	0.999	1.187	1.061	1.011	1.020	1.009	1.030	1.053	0.922
1997	1.222	1.119	1.004	1.038	1.049	1.080	1.023	0.995	1.040	1.009	1.009	1.054
1998	1.232	1.122	1.085	1.047	1.006	1.029	1.031	1.039	1.025	1.002	1.033	1.032
1999	1.398	1.253	1.064	1.095	1.033	1.108	1.004	1.003	1.031	1.026	1.031	1.032
2000	1.255	1.181	1.078	1.035	1.028	1.057	0.998	1.026	1.036	1.084	1.047	1.023
2001	1.879	1.191	1.084	1.005	1.042	1.030	1.038	1.094	1.017	1.028	1.004	1.071
2002	1.316	1.131	1.045	1.050	1.050	1.023	1.046	1.055	1.024	1.040	1.005	1.109
2003	1.434	1.057	1.124	1.021	1.031	1.099	1.026	1.034	1.033	1.027	1.208	0.957
2004	1.250	1.206	1.101	1.036	1.046	1.088	1.064	1.035	1.049	1.011	1.020	0.972
2005	1.406	1.208	1.041	1.089	1.057	1.034	1.090	0.999	1.160	1.003	1.022	1.005
2006	1.498	1.135	1.105	1.104	1.056	1.050	1.076	1.009	1.026	0.995	1.121	1.047
2007	1.305	1.191	1.151	1.011	1.032	1.024	1.129	1.023	1.035	1.060	1.046	1.001
2008	1.471	1.160	1.059	1.056	0.958	1.026	1.173	1.035	0.996	1.018	0.994	1.015
2009	1.399	1.093	1.010	1.025	1.050	1.120	0.969	1.010	1.101	1.000	1.027	
2010	1.325	1.184	1.021	1.142	1.238	0.997	1.009	1.040	0.995	0.977		
2011	1.424	1.133	1.192	1.015	1.013	1.012	1.012	1.039	1.002			
2012	1.305	1.169	1.037	1.028	1.055	0.992	0.991	1.018				
2013	1.446	1.139	1.009	1.097	0.985	1.046	1.008					
2014	1.123	1.090	1.081	0.989	0.993	0.991						
2015	1.221	1.097	1.070	1.047	1.030							
2016	1.237	1.184	0.988	1.060								
2017	1.164	0.979	1.043									
2018	0.936	0.937										
2019	0.989											
10 YR AVG.	1.217	1.101	1.051	1.047	1.041	1.029	1.052	1.024	1.042	1.016	1.049	1.023
3 YR AVG.	1.030	1.033	1.034	1.032	1.003	1.010	1.004	1.032	1.033	0.998	1.022	1.021
10 YR AVG EXCL HI LO	1.224	1.111	1.041	1.042	1.027	1.023	1.047	1.025	1.033	1.015	1.037	1.021
5 YR AVG EXCL HI LO	1.125	1.055	1.041	1.045	1.012	1.000	1.003	1.031	1.011	1.004	1.032	1.007
PRIOR SELECTED	1.256	1.130	1.072	1.055	1.044	1.036	1.033	1.024	1.023	1.020	1.018	1.016
SELECTED	1.245	1.124	1.069	1.054	1.041	1.034	1.033	1.024	1.023	1.019	1.018	1.016
CUMULATIVE	2.114	1.698	1.510	1.412	1.340	1.287	1.245	1.205	1.177	1.150	1.128	1.108

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	7,680	7,707	7,663	7,836	7,709	7,670	7,697	9,576	8,010	7,905	7,930	7,917	7,979	8,099	8,099
1995	13,820	13,793	13,835	14,151	14,432	14,435	14,274	14,967	14,915	14,989	15,053	15,478	15,282	15,283	
1996	10,766	11,050	11,023	11,092	11,103	11,367	11,728	11,814	11,706	12,348	12,544	12,474	12,493		
1997	10,772	11,200	11,449	11,525	11,868	13,623	13,267	13,492	12,359	12,596	12,605	12,644			
1998	8,868	8,945	9,199	9,254	9,970	10,491	10,561	10,499	10,531	10,456	10,458				
1999	10,770	11,469	11,982	13,588	13,590	13,533	13,736	13,863	13,914	14,041					
2000	14,413	14,494	16,577	16,433	16,794	16,930	17,251	17,454	17,655						
2001	18,670	18,903	19,201	18,993	19,877	20,724	20,649	20,630							
2002	19,037	19,679	20,268	20,986	21,106	21,259	21,353								
2003	19,414	19,387	19,539	20,098	20,705	20,164									
2004	20,324	20,417	22,497	22,353	23,345										
2005	22,205	22,299	20,868	20,889											
2006	20,432	20,379	20,255												
2007	23,100	23,588													
2008	18,995														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	ULT
1994	1.004	0.994	1.023	0.984	0.995	1.004	1.244	0.836	0.987	1.003	0.998	1.008	1.015	1.000	
1995	0.998	1.003	1.023	1.020	1.000	0.989	1.049	0.997	1.005	1.004	1.028	0.987	1.000		
1996	1.026	0.998	1.006	1.001	1.024	1.032	1.007	0.991	1.055	1.016	0.994	1.002			
1997	1.040	1.022	1.007	1.030	1.148	0.974	1.017	0.916	1.019	1.001	1.003				
1998	1.009	1.028	1.006	1.077	1.052	1.007	0.994	1.003	0.993	1.000					
1999	1.065	1.045	1.134	1.000	0.996	1.015	1.009	1.004	1.009						
2000	1.006	1.144	0.991	1.022	1.008	1.019	1.012								
2001	1.012	1.016	0.989	1.047	1.043	0.996	0.999								
2002	1.034	1.030	1.035	1.006	1.007	1.004									
2003	0.999	1.008	1.029	1.030	0.974										
2004	1.005	1.102	0.994	1.044											
2005	1.004	0.936	1.001												
2006	0.997	0.994													
2007	1.021														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
10 YR AVG.	1.015	1.033	1.019	1.028	1.025										
3 YR AVG.	1.007	1.011	1.008	1.027	1.008	1.006	1.007	1.006	1.007	1.006	1.008	0.999			
10 YR AVG EXCL HI LO	1.011	1.031	1.009	1.025	1.016										
5 YR AVG EXCL HI LO	1.003	1.011	1.008	1.032	1.004	1.009	1.007	0.999	1.011	1.003					
PRIOR SELECTED	1.015	1.015	1.012	1.009	1.008	1.004	1.004	1.002	1.002	1.002	1.002	1.000	1.000		
SELECTED	1.015	1.015	1.012	1.011	1.008	1.004	1.004	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
CUMULATIVE	1.090	1.074	1.058	1.046	1.035	1.027	1.022	1.018	1.016	1.013	1.011	1.009	1.007	1.005	1.003

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
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CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
1994	1,958	4,264	5,509	6,284	6,620	6,807	6,941	6,974	7,003	7,115	7,302	7,421
1995	2,113	5,682	7,068	7,821	8,281	8,545	8,749	9,145	9,469	9,757	10,016	10,277
1996	2,258	4,925	6,460	7,332	7,965	8,373	8,935	9,119	9,431	9,591	9,755	10,145
1997	2,498	4,728	5,927	6,527	6,960	7,408	7,675	8,003	8,445	8,649	8,852	8,980
1998	2,367	4,961	6,077	6,583	6,862	7,071	7,313	7,535	7,725	7,985	8,083	8,377
1999	2,250	4,346	5,728	6,822	7,410	7,833	8,300	8,570	8,819	9,304	9,548	9,881
2000	2,782	5,226	6,794	7,778	8,534	8,981	9,523	9,896	10,385	10,768	11,145	11,489
2001	3,101	7,538	9,740	11,391	12,383	13,113	13,692	14,066	14,929	15,080	15,407	15,747
2002	3,961	7,113	9,739	11,209	12,177	13,106	13,558	14,280	14,676	15,276	15,839	16,221
2003	3,522	7,945	10,254	11,582	12,269	12,916	13,773	14,365	14,955	15,614	16,062	16,575
2004	4,254	9,144	11,649	13,517	14,581	15,474	16,280	16,894	17,345	17,817	18,284	18,651
2005	4,608	9,097	11,690	13,408	14,693	15,313	15,714	16,949	17,485	17,893	18,103	18,341
2006	3,873	7,906	10,103	11,629	12,476	13,346	14,345	15,309	15,835	16,210	16,695	17,153
2007	4,488	9,766	12,577	14,505	15,382	16,199	16,687	17,167	17,582	18,006	18,503	18,729
2008	4,302	8,566	10,932	12,378	13,357	14,142	14,627	15,105	15,473	15,690	15,863	16,190
2009	5,152	10,357	12,693	14,069	14,750	15,406	16,110	16,551	17,107	17,366	17,661	17,939
2010	7,496	13,394	16,438	18,040	19,414	20,262	21,046	21,474	21,642	21,836	21,886	
2011	7,486	14,837	18,395	20,295	21,404	22,338	22,770	23,502	23,795	23,968		
2012	7,401	13,361	16,550	18,036	18,877	19,729	20,143	20,382	20,655			
2013	7,772	14,972	17,973	19,522	20,163	20,802	21,491	21,944				
2014	6,814	12,284	14,870	16,370	17,199	17,826	18,296					
2015	6,005	12,374	14,754	16,241	17,412	18,019						
2016	5,452	10,864	12,647	13,527	14,107							
2017	5,019	9,609	11,160	12,100								
2018	4,598	8,726	9,474									
2019	4,176	7,461										
2020	4,129											

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12 TO 24	24 TO 36	36 TO 48	48 TO 60	60 TO 72	72 TO 84	84 TO 96	96 TO 108	108 TO 120	120 TO 132	132 TO 144	144 TO 156
1994	2.178	1.292	1.141	1.053	1.028	1.020	1.005	1.004	1.016	1.026	1.016	1.006
1995	2.689	1.244	1.107	1.059	1.032	1.024	1.045	1.035	1.030	1.027	1.026	1.030
1996	2.181	1.312	1.135	1.086	1.051	1.067	1.021	1.034	1.017	1.017	1.040	1.023
1997	1.893	1.254	1.101	1.066	1.064	1.036	1.043	1.055	1.024	1.023	1.014	1.045
1998	2.096	1.225	1.083	1.042	1.030	1.034	1.030	1.025	1.034	1.012	1.036	1.029
1999	1.932	1.318	1.191	1.086	1.057	1.060	1.033	1.029	1.055	1.026	1.035	1.029
2000	1.879	1.300	1.145	1.097	1.052	1.060	1.039	1.049	1.037	1.035	1.031	1.025
2001	2.431	1.292	1.170	1.087	1.059	1.044	1.027	1.061	1.010	1.022	1.022	1.026
2002	1.796	1.369	1.151	1.086	1.076	1.034	1.053	1.028	1.041	1.037	1.024	1.023
2003	2.256	1.291	1.130	1.059	1.053	1.066	1.043	1.041	1.044	1.029	1.032	1.010
2004	2.150	1.274	1.160	1.079	1.061	1.052	1.038	1.027	1.027	1.026	1.020	1.028
2005	1.974	1.285	1.147	1.096	1.042	1.026	1.079	1.032	1.023	1.012	1.013	1.015
2006	2.041	1.278	1.151	1.073	1.070	1.075	1.067	1.034	1.024	1.030	1.027	1.019
2007	2.176	1.288	1.153	1.060	1.053	1.030	1.029	1.024	1.024	1.028	1.012	1.025
2008	1.991	1.276	1.132	1.079	1.059	1.034	1.033	1.024	1.014	1.011	1.021	1.011
2009	2.010	1.226	1.108	1.048	1.044	1.046	1.027	1.034	1.015	1.017	1.016	
2010	1.787	1.227	1.097	1.076	1.044	1.039	1.020	1.008	1.009	1.002		
2011	1.982	1.240	1.103	1.055	1.044	1.019	1.032	1.012	1.007			
2012	1.805	1.239	1.090	1.047	1.045	1.021	1.012	1.013				
2013	1.926	1.200	1.086	1.033	1.032	1.033	1.021					
2014	1.803	1.211	1.101	1.051	1.036	1.026						
2015	2.061	1.192	1.101	1.072	1.035							
2016	1.993	1.164	1.070	1.043								
2017	1.915	1.161	1.084									
2018	1.898	1.086										
2019	1.786											
10 YR AVG.	1.896	1.195	1.097	1.056	1.046	1.035	1.036	1.025	1.023	1.021	1.022	1.021
3 YR AVG.	1.866	1.137	1.085	1.055	1.034	1.027	1.022	1.011	1.010	1.010	1.016	1.018
10 YR AVG EXCL HI LO	1.889	1.203	1.096	1.057	1.045	1.032	1.033	1.025	1.022	1.022	1.022	1.022
5 YR AVG EXCL HI LO	1.935	1.172	1.090	1.047	1.038	1.027	1.023	1.016	1.013	1.019	1.017	1.020
PRIOR SELECTED	1.935	1.179	1.092	1.058	1.047	1.039	1.034	1.028	1.024	1.022	1.021	1.020
SELECTED	1.901	1.155	1.088	1.058	1.046	1.038	1.034	1.027	1.023	1.022	1.021	1.019
CUMULATIVE	3.816	2.008	1.739	1.599	1.511	1.444	1.392	1.347	1.311	1.282	1.254	1.228

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	7,463	7,514	7,456	7,639	7,551	7,572	7,630	7,693	7,752	7,787	7,841	7,834	7,879	7,849	7,924
1995	10,589	10,881	11,142	11,464	11,751	12,033	12,243	12,438	12,658	12,894	13,092	13,433	13,433	13,570	
1996	10,378	10,746	10,623	10,700	10,808	10,887	11,088	11,232	11,316	11,463	11,594	11,594	11,645		
1997	9,385	9,438	9,605	9,822	10,047	10,356	10,674	10,870	11,106	11,497	11,497	11,555			
1998	8,618	8,771	8,944	9,033	9,248	9,490	9,586	9,758	9,875	9,875	9,928				
1999	10,168	10,748	11,234	11,577	11,774	11,947	12,105	12,494	12,494	12,684					
2000	11,775	12,266	12,611	13,005	13,385	13,928	14,697	14,697	14,945						
2001	16,160	16,553	16,836	17,097	17,337	17,746	17,746	17,948							
2002	16,596	16,911	17,285	17,614	18,234	18,234	18,514								
2003	16,738	16,990	17,351	17,868	17,868	18,074									
2004	19,170	19,432	19,813	19,813	20,256										
2005	18,616	19,173	19,173	19,336											
2006	17,485	17,485	17,602												
2007	19,191	19,566													
2008	16,367														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
	TO	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	324	ULT
1994	1.007	0.992	1.025	0.988	1.003	1.008	1.008	1.008	1.005	1.007	0.999	1.006	0.996	1.010	
1995	1.028	1.024	1.029	1.025	1.024	1.017	1.016	1.018	1.019	1.015	1.026	1.000	1.010		
1996	1.035	0.989	1.007	1.010	1.007	1.018	1.013	1.007	1.013	1.011	1.000	1.004			
1997	1.006	1.018	1.023	1.023	1.031	1.031	1.018	1.022	1.035	1.000	1.005				
1998	1.018	1.020	1.010	1.024	1.026	1.010	1.018	1.012	1.000	1.005					
1999	1.057	1.045	1.031	1.017	1.015	1.013	1.032	1.000	1.015						
2000	1.042	1.028	1.031	1.029	1.041	1.055	1.000	1.017							
2001	1.024	1.017	1.016	1.014	1.024	1.000	1.011								
2002	1.019	1.022	1.019	1.035	1.000	1.015									
2003	1.015	1.021	1.030	1.000	1.012										
2004	1.014	1.020	1.000	1.022											
2005	1.030	1.000	1.008												
2006	1.000	1.007													
2007	1.020														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
10 YR AVG.	1.024	1.020	1.018	1.020	1.018										
3 YR AVG.	1.017	1.009	1.013	1.019	1.012	1.023	1.014	1.010	1.017	1.005	1.010	1.003			
10 YR AVG EXCL HI LO	1.023	1.019	1.018	1.021	1.018										
5 YR AVG EXCL HI LO	1.016	1.016	1.014	1.022	1.017	1.013	1.016	1.012	1.016	1.008					
PRIOR SELECTED	1.020	1.020	1.019	1.018	1.014	1.012	1.012	1.009	1.008	1.006	1.004	1.004	1.004	1.004	
SELECTED	1.020	1.020	1.020	1.020	1.016	1.013	1.012	1.009	1.009	1.006	1.005	1.004	1.004	1.004	
CUMULATIVE	1.205	1.181	1.158	1.136	1.113	1.095	1.081	1.068	1.059	1.049	1.043	1.038	1.034	1.030	1.026

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994	1,021	1,166	1,177	1,177	1,177	1,178	1,178	1,178	1,178	1,178	1,178	1,178
1995	1,042	1,328	1,335	1,338	1,341	1,341	1,341	1,341	1,343	1,343	1,343	1,343
1996	1,059	1,246	1,252	1,253	1,252	1,253	1,253	1,252	1,252	1,252	1,252	1,252
1997	1,097	1,247	1,255	1,255	1,256	1,259	1,257	1,257	1,257	1,257	1,257	1,256
1998	1,086	1,195	1,197	1,198	1,199	1,198	1,198	1,198	1,198	1,198	1,198	1,198
1999	1,063	1,095	1,105	1,108	1,103	1,103	1,104	1,105	1,105	1,105	1,105	1,105
2000	983	1,069	1,081	1,075	1,075	1,076	1,076	1,076	1,076	1,076	1,076	1,076
2001	1,270	1,418	1,134	1,137	1,139	1,139	1,141	1,141	1,141	1,141	1,141	1,141
2002	1,513	1,141	1,147	1,149	1,149	1,149	1,149	1,149	1,149	1,149	1,150	1,149
2003	1,160	1,235	1,237	1,238	1,241	1,242	1,243	1,242	1,242	1,242	1,242	1,243
2004	1,323	1,427	1,429	1,432	1,432	1,432	1,430	1,430	1,431	1,432	1,434	1,434
2005	1,358	1,402	1,408	1,411	1,411	1,411	1,411	1,411	1,409	1,411	1,411	1,411
2006	1,167	1,264	1,272	1,273	1,273	1,273	1,274	1,274	1,276	1,276	1,276	1,276
2007	1,116	1,201	1,208	1,208	1,211	1,212	1,212	1,212	1,212	1,213	1,213	1,213
2008	1,032	1,109	1,111	1,114	1,114	1,114	1,114	1,114	1,114	1,115	1,115	1,115
2009	1,108	1,208	1,215	1,218	1,218	1,218	1,218	1,219	1,219	1,219	1,219	1,219
2010	1,157	1,230	1,236	1,236	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238
2011	1,145	1,235	1,241	1,241	1,241	1,241	1,241	1,241	1,241	1,241	1,241	1,241
2012	1,180	1,260	1,264	1,264	1,265	1,268	1,268	1,269	1,270			
2013	1,127	1,170	1,173	1,176	1,177	1,178	1,178	1,178				
2014	1,109	1,164	1,170	1,170	1,170	1,171	1,171					
2015	1,022	1,066	1,070	1,070	1,071	1,073						
2016	914	988	994	995	996							
2017	881	942	944	945								
2018	907	942	945									
2019	997	1,048										
2020	765											

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	1.142	1.009	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.274	1.005	1.002	1.002	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000
1996	1.177	1.005	1.001	0.999	1.001	1.000	0.999	1.000	1.000	1.000	1.000	1.001
1997	1.137	1.006	1.000	1.001	1.002	0.998	1.000	1.000	1.000	1.000	0.999	1.001
1998	1.100	1.002	1.001	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999	1.030	1.009	1.003	0.995	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000
2000	1.087	1.011	0.994	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001
2001	1.117	0.800	1.003	1.002	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000
2002	0.754	1.005	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.001	0.999	1.001
2003	1.065	1.002	1.001	1.002	1.001	1.001	0.999	1.000	1.000	1.000	1.001	1.000
2004	1.079	1.001	1.002	1.000	1.000	0.999	1.000	1.001	1.001	1.001	1.000	1.000
2005	1.032	1.004	1.002	1.000	1.000	1.000	0.999	1.001	1.001	1.000	1.000	1.000
2006	1.083	1.006	1.001	1.000	1.000	1.001	1.000	1.002	1.000	1.000	1.000	1.000
2007	1.076	1.006	1.000	1.002	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000
2008	1.075	1.002	1.003	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000
2009	1.090	1.006	1.002	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	
2010	1.063	1.005	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000		
2011	1.079	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.001			
2012	1.068	1.003	1.000	1.001	1.002	1.000	1.001	1.001				
2013	1.038	1.003	1.003	1.001	1.001	1.000	1.000					
2014	1.050	1.005	1.000	1.000	1.001	1.000						
2015	1.043	1.004	1.000	1.001	1.002							
2016	1.081	1.006	1.001	1.001								
2017	1.069	1.002	1.001									
2018	1.039	1.003										
2019	1.051											
AVERAGE	1.073	0.997	1.001	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.053	1.004	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.078	1.005	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.054	1.004	1.001	1.001	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000
PRIOR SELECTED	1.069	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.065	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.069	1.004	1.002	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
WORKERS' COMPENSATION

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	1,178	1,178	1,178	1,178	1,178	1,178	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179
1995	1,343	1,343	1,343	1,343	1,343	1,344	1,344	1,344	1,344	1,344	1,346	1,346	1,346	1,346	
1996	1,253	1,253	1,253	1,253	1,253	1,255	1,255	1,255	1,255	1,255	1,256	1,256	1,256		
1997	1,257	1,257	1,257	1,257	1,257	1,258	1,258	1,258	1,258	1,258	1,258	1,258			
1998	1,198	1,198	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199				
1999	1,105	1,105	1,105	1,105	1,105	1,105	1,105	1,105	1,105	1,105					
2000	1,077	1,077	1,077	1,077	1,077	1,077	1,077	1,077	1,077						
2001	1,141	1,141	1,141	1,141	1,141	1,141	1,141	1,141							
2002	1,150	1,150	1,150	1,150	1,151	1,151	1,151								
2003	1,243	1,243	1,243	1,243	1,243	1,243									
2004	1,434	1,434	1,434	1,434	1,434										
2005	1,411	1,411	1,411	1,411											
2006	1,276	1,276	1,276												
2007	1,213	1,213													
2008	1,115														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	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	1.001	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000		
1996	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000		
1997	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000				
1998	1.000	1.001	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	1.000	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								
2002	1.000	1.000	1.000	1.001	1.000	1.000									
2003	1.000	1.000	1.000	1.000	1.000										
2004	1.000	1.000	1.000	1.000											
2005	1.000	1.000	1.000												
2006	1.000	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
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			
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 EXCL HI LO	1.000	1.000	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	1.000	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	(5)
Prior	\$5,754	0.944	\$5,434	\$319
1994	287	0.928	266	21
1995	1,747	0.912	1,593	154
1996	891	0.897	800	92
1997	1,146	0.883	1,012	134
1998	589	0.871	513	76
1999	1,449	0.863	1,250	199
2000	2,834	0.860	2,437	396
2001	2,860	0.854	2,444	416
2002	3,142	0.853	2,679	463
2003	2,441	0.849	2,073	368
2004	3,514	0.848	2,979	535
2005	2,667	0.847	2,260	407
2006	3,435	0.843	2,896	539
2007	4,882	0.837	4,086	796
2008	3,866	0.830	3,207	659
2009	4,499	0.820	3,691	808
2010	9,260	0.812	7,522	1,738
2011	7,093	0.804	5,704	1,390
2012	4,960	0.796	3,947	1,013
2013	8,710	0.789	6,874	1,837
2014	7,267	0.785	5,704	1,563
2015	6,943	0.781	5,422	1,521
2016	9,779	0.779	7,617	2,162
2017	8,239	0.778	6,412	1,827
2018	8,962	0.783	7,016	1,946
2019	10,015	0.795	7,958	2,057
2020	16,780	0.840	14,094	2,687
TOTAL	\$144,011		\$117,887	\$26,124

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$117,887
75%	123,639
85%	127,750
95%	133,785

Notes:

(1) - Per Exhibit I, Page 1A, Column (7).

(2) - Per AMI calculations, see Appendix A, Page 1.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$0	0.963	\$0	\$0
1994	0	0.944	0	0
1995	0	0.928	0	0
1996	787	0.912	718	69
1997	1,027	0.897	921	106
1998	526	0.883	464	62
1999	1,272	0.871	1,108	164
2000	2,399	0.863	2,069	330
2001	2,491	0.860	2,143	348
2002	2,675	0.854	2,286	389
2003	2,111	0.853	1,800	311
2004	3,008	0.849	2,554	454
2005	2,267	0.848	1,921	345
2006	3,001	0.847	2,542	458
2007	4,346	0.843	3,664	681
2008	3,486	0.837	2,917	568
2009	4,124	0.830	3,421	703
2010	8,483	0.820	6,959	1,524
2011	6,539	0.812	5,312	1,227
2012	4,595	0.804	3,695	900
2013	8,032	0.796	6,391	1,641
2014	6,645	0.789	5,244	1,401
2015	6,353	0.785	4,986	1,367
2016	8,891	0.781	6,944	1,947
2017	7,445	0.779	5,799	1,646
2018	7,898	0.778	6,147	1,751
2019	8,478	0.783	6,637	1,841
2020	11,413	0.795	9,069	2,344
2021	14,609	0.840	12,270	2,339
TOTAL	\$132,900		\$107,982	\$24,918

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$107,982
75%	113,250
85%	117,015
95%	122,543

Notes:

(1) - Per Exhibit I, Page 1B, Column (6).

(2) - Per AMI calculations, see Appendix A, Page 1.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$0	0.985	\$0	\$0
1994	0	0.963	0	0
1995	0	0.944	0	0
1996	682	0.928	632	49
1997	907	0.912	827	80
1998	471	0.897	422	48
1999	1,135	0.883	1,002	133
2000	2,106	0.871	1,834	272
2001	2,109	0.863	1,819	290
2002	2,331	0.860	2,005	326
2003	1,797	0.854	1,536	262
2004	2,601	0.853	2,218	383
2005	1,940	0.849	1,648	293
2006	2,550	0.848	2,162	389
2007	3,797	0.847	3,217	580
2008	3,103	0.843	2,616	487
2009	3,719	0.837	3,113	606
2010	7,776	0.830	6,450	1,326
2011	5,990	0.820	4,914	1,076
2012	4,236	0.812	3,441	795
2013	7,440	0.804	5,982	1,458
2014	6,127	0.796	4,876	1,252
2015	5,809	0.789	4,584	1,225
2016	8,135	0.785	6,385	1,750
2017	6,769	0.781	5,287	1,482
2018	7,138	0.779	5,559	1,578
2019	7,472	0.778	5,815	1,657
2020	9,661	0.783	7,563	2,098
2021	9,936	0.795	7,896	2,041
2022	14,829	0.840	12,454	2,374
TOTAL	\$130,566		\$106,257	\$24,309

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$106,257
75%	111,441
85%	115,147
95%	120,587

Notes:

- (1) - Per Exhibit I, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 1.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$0	1.000	\$0	\$0
1994	0	0.985	0	0
1995	0	0.963	0	0
1996	576	0.944	544	32
1997	785	0.928	729	57
1998	416	0.912	379	37
1999	1,017	0.897	912	105
2000	1,880	0.883	1,659	220
2001	1,851	0.871	1,612	239
2002	1,973	0.863	1,702	271
2003	1,566	0.860	1,347	219
2004	2,215	0.854	1,892	322
2005	1,678	0.853	1,431	247
2006	2,183	0.849	1,854	329
2007	3,227	0.848	2,735	492
2008	2,711	0.847	2,297	414
2009	3,310	0.843	2,791	519
2010	7,012	0.837	5,869	1,143
2011	5,491	0.830	4,555	936
2012	3,880	0.820	3,183	697
2013	6,858	0.812	5,571	1,287
2014	5,676	0.804	4,564	1,112
2015	5,357	0.796	4,262	1,094
2016	7,439	0.789	5,870	1,569
2017	6,194	0.785	4,862	1,332
2018	6,490	0.781	5,068	1,421
2019	6,752	0.779	5,259	1,493
2020	8,515	0.778	6,627	1,888
2021	8,411	0.783	6,585	1,826
2022	10,085	0.795	8,014	2,071
2023	15,052	0.840	12,642	2,410
TOTAL	\$128,599		\$104,815	\$23,784

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$104,815
75%	109,929
85%	113,584
95%	118,950

Notes:

- (1) - Per Exhibit I, Page 1D, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 1.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	FTE	LOSS RATE
	(1)	(2)	(3)
Prior**			
1994	\$8,211	N/A	
1995	15,317	N/A	
1996	12,537	N/A	
1997	12,702	N/A	
1998	10,517	N/A	
1999	14,134	N/A	
2000	17,778	N/A	
2001	20,807	N/A	
2002	21,656	N/A	
2003	20,515	16,960	1.210
2004	23,770	14,579	1.630
2005	22,003	15,398	1.429
2006	21,037	15,397	1.366
2007	24,448	15,773	1.550
2008	20,232	16,050	1.261
2009	22,438	15,977	1.404
2010	31,146	16,386	1.901
2011	31,061	16,721	1.858
2012	25,615	16,951	1.511
2013	30,654	17,025	1.801
2014	25,564	16,848	1.517
2015	24,962	16,959	1.472
2016	23,886	17,272	1.383
2017	20,338	17,242	1.180
2018	18,436	16,625	1.109
2019	17,476	16,744	1.044
2020	20,909	16,451	1.271
(PROJ.) 2020/2021	\$19,797	16,533	1.197
(PROJ.) 2021/2022	20,094	16,616	1.209
(PROJ.) 2022/2023	20,397	16,699	1.221

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$19,797	0.860	\$17,024	\$2,773
2022	20,094	0.860	17,280	2,814
2023	20,397	0.860	17,540	2,857

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$17,024	\$20,311	\$22,432	\$26,367
2022	17,280	20,616	22,770	26,764
2023	17,540	20,927	23,112	27,167

Notes:

- (1) - Per Exhibit I, Page 1A, Column (5). For projected years, (1) = (2) x (3).
(2) - Per STATE OF ALASKA.
(3) = (1) / (2). For the projected years, it is the trended average of prior years.
(4) = (1); (5) - Per Appendix A, Page 1, Column (7).
(6) = (4) x (5); (7) = (4) - (6).
(8) = (6).
(9) to (11) - Based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
LOSSES LIMITED TO \$1MM RETENTION

FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS LIMITED TO \$1MM RETENTION

ACCIDENT YEAR*	PROJECTED UNLIMITED LOSSES	RETENTION FACTORS	EXPECTED FUNDING AMOUNT AT RETENTION LIMIT
	(1)	(2)	(3)
2021	\$19,797	0.830	\$16,432
2022	20,094	0.830	16,678
2023	20,397	0.830	16,930

Notes:

(1) - Per Exhibit I, Page 6A, Column (4).

(2) - Based on industry increased limits factors for the STATE OF ALASKA.

(3) = (1) * (2)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
UNLIMITED

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	FTE	NUMBER OF CLAIMS PER 1,000 FTE (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	1,179	1.000	1,179	\$8,211	N/A		\$6,964
1995	1,346	1.000	1,346	15,317	N/A		11,380
1996	1,256	1.000	1,256	12,537	N/A		9,982
1997	1,258	1.000	1,258	12,702	N/A		10,097
1998	1,199	1.000	1,199	10,517	N/A		8,771
1999	1,105	1.000	1,105	14,134	N/A		12,791
2000	1,077	1.000	1,077	17,778	N/A		16,507
2001	1,141	1.000	1,141	20,807	N/A		18,236
2002	1,151	1.000	1,151	21,656	N/A		18,815
2003	1,243	1.000	1,243	20,515	16,960	73	16,504
2004	1,434	1.000	1,434	23,770	14,579	98	16,576
2005	1,411	1.000	1,411	22,003	15,398	92	15,594
2006	1,276	1.000	1,276	21,037	15,397	83	16,486
2007	1,213	1.000	1,213	24,448	15,773	77	20,155
2008	1,115	1.000	1,115	20,232	16,050	69	18,146
2009	1,219	1.000	1,219	22,438	15,977	76	18,407
2010	1,238	1.000	1,238	31,146	16,386	76	25,158
2011	1,242	1.000	1,242	31,061	16,721	74	25,008
2012	1,270	1.000	1,270	25,615	16,951	75	20,168
2013	1,178	1.000	1,178	30,654	17,025	69	26,019
2014	1,171	1.000	1,171	25,564	16,848	70	21,827
2015	1,073	1.000	1,073	24,962	16,959	63	23,260
2016	996	1.000	996	23,886	17,272	58	23,973
2017	945	1.001	946	20,338	17,242	55	21,497
2018	945	1.002	947	18,436	16,625	57	19,470
2019	1,048	1.004	1,052	17,476	16,744	63	16,606
2020	765	1.069	1,084	20,909	16,451	66	19,283
TOTAL	31,494		31,822	\$558,149			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2). For the latest year, it is (6) x (5)/1000.

(4) = Exhibit I, Page 1A, Column (5).

(6) = [(3) / [(5) / 1000]] ; (7) = [(3) / (4)] x 1000. For the latest year, it is the average of prior years.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	26.2%	49.8%	57.5%	62.6%	66.2%	69.2%	71.8%	74.3%	76.3%	78.0%
INCREMENTAL LOSS PAYOUT PATTERN	26.2%	23.6%	7.7%	5.0%	3.6%	3.1%	2.6%	2.4%	2.0%	1.7%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		32.0%	10.4%	6.8%	4.9%	4.2%	3.5%	3.3%	2.7%	2.4%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	26.2%	23.6%	7.7%	5.0%	3.6%	3.1%	2.6%	2.4%	2.0%	1.7%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$5,754	\$778	\$739	\$546	\$566	\$382	\$294	\$255	\$256	\$259	\$1,677
1994	\$8,211	287	287	0	0	0	0	0	0	0	0	0
1995	15,317	1,747	1,747	0	0	0	0	0	0	0	0	0
1996	12,537	891	104	105	106	107	108	361	0	0	0	0
1997	12,702	1,146	120	120	121	122	123	124	416	0	0	0
1998	10,517	589	63	55	55	56	56	57	57	191	0	0
1999	14,134	1,449	177	136	118	119	120	121	122	123	412	0
2000	17,778	2,834	435	293	226	196	197	199	200	202	203	682
2001	20,807	2,860	368	382	258	199	172	173	175	176	178	779
2002	21,656	3,142	467	345	358	241	186	161	162	164	165	895
2003	20,515	2,441	330	314	232	240	162	125	108	109	110	712
2004	23,770	3,514	506	407	386	285	296	200	154	133	134	1,012
2005	22,003	2,667	400	327	262	249	184	191	129	99	86	739
2006	21,037	3,435	434	450	367	295	280	207	215	145	112	929
2007	24,448	4,882	536	549	570	465	374	355	262	272	183	1,316
2008	20,232	3,866	380	383	392	407	332	267	253	187	194	1,071
2009	22,438	4,499	375	405	409	418	434	354	285	270	200	1,350
2010	31,146	9,260	777	707	764	770	789	818	668	537	510	2,921
2011	31,061	7,093	555	549	499	539	544	557	578	471	379	2,422
2012	25,615	4,960	365	359	356	323	349	352	361	374	305	1,815
2013	30,654	8,710	679	591	582	576	524	566	571	584	606	3,433
2014	25,564	7,267	622	518	451	444	439	399	432	435	446	3,081
2015	24,962	6,943	590	544	453	394	388	384	349	377	381	3,083
2016	23,886	9,779	888	755	696	580	505	497	492	447	483	4,435
2017	20,338	8,239	793	676	575	530	441	385	378	374	340	3,745
2018	18,436	8,962	1,064	761	648	551	508	423	369	363	359	3,916
2019	17,476	10,015	1,537	1,006	720	613	522	481	400	349	343	4,045
2020	20,909	16,780	5,368	1,752	1,146	820	699	594	548	456	397	5,000
2021	19,797		5,188	4,673	1,525	998	714	608	518	477	397	4,699
2022	20,094			5,265	4,743	1,548	1,013	725	617	525	484	5,173
2023	20,397				5,345	4,815	1,571	1,028	736	627	533	5,742
TOTAL	\$618,437	\$144,011	\$25,933	\$23,167	\$22,909	\$17,468	\$12,412	\$11,006	\$9,808	\$8,724	\$8,199	\$64,672

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(SAMOUNTS IN '000s)
UNLIMITED

REPORTED CLAIM COUNTS

ACCIDENT YEAR*		\$0.01 TO \$0	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
Prior	6,995	23,959	1,564	1,507	970	636	469	125	44	23	47	36,339
2010	116	780	79	88	85	42	33	8	5	0	2	1,238
2011	126	752	88	104	63	52	40	14	0	0	3	1,242
2012	134	750	109	100	65	68	30	11	2	1	0	1,270
2013	92	719	99	103	54	53	40	9	6	0	3	1,178
2014	103	719	90	109	58	47	33	7	1	1	3	1,171
2015	108	641	95	77	55	56	27	9	2	3	0	1,073
2016	67	612	95	103	58	31	21	4	2	0	3	996
2017	72	590	89	71	53	45	17	4	3	1	0	945
2018	86	584	87	78	46	39	20	5	0	0	0	945
2019	99	684	82	71	53	38	18	3	0	0	0	1,048
2020	92	353	109	89	64	36	19	3	0	0	0	765
TOTAL	8,090	31,143	2,586	2,500	1,624	1,143	767	202	65	29	61	48,210

REPORTED LOSSES

ACCIDENT YEAR*		\$0.01 TO \$0	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
Prior	(157)	18,591	11,070	24,448	34,573	44,589	71,636	44,239	26,250	19,797	80,153	\$375,188
2010	(0)	923	559	1454	3047	2929	5055	2996	3265	0	8,845	29,071
2011	0	968	616	1723	2212	3667	6502	4628	0	0	7,823	28,139
2012	0	938	760	1568	2316	4897	4912	3874	1185	869	0	21,320
2013	0	934	737	1650	1937	3712	5993	3021	3565	0	5,792	27,341
2014	(1)	1,029	657	1743	2071	3155	4873	2457	665	752	4,119	21,520
2015	0	903	674	1343	1997	3932	3636	3278	1051	2611	0	19,425
2016	0	885	675	1657	2037	2147	3295	1549	1137	0	6,329	19,711
2017	0	804	631	1148	1825	3163	2572	1194	1876	828	0	14,042
2018	0	775	602	1221	1593	2678	3026	1461	0	0	0	11,356
2019	0	865	574	1177	1815	2618	2516	858	0	0	0	10,423
2020	(0)	595	889	1399	2452	2597	2786	843	0	0	0	11,561
TOTAL	(\$159)	\$28,210	\$18,446	\$40,530	\$57,873	\$80,083	\$116,800	\$70,400	\$38,995	\$24,856	\$113,062	\$589,097

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							\$6
1994	\$4,976	\$4,976	\$4,976	\$4,976	\$4,976	\$4,976	0
1995	5,410	5,410	5,410	5,410	5,410	5,410	0
1996	5,965	5,965	5,965	5,965	5,965	5,965	0
1997	2,841	2,841	2,841	2,841	2,841	2,841	0
1998	4,724	4,724	4,724	4,724	4,724	4,724	0
1999	5,327	5,327	5,327	5,327	5,327	5,327	0
2000	7,453	7,453	7,453	7,453	7,453	7,453	0
2001	4,494	4,494	4,494	4,494	4,494	4,494	0
2002	3,114	3,081	3,114	3,114	3,106	3,081	25
2003	4,489	4,452	4,489	4,489	4,480	4,452	28
2004	7,612	7,612	7,615	7,615	7,603	7,603	0
2005	6,984	6,984	6,988	6,988	6,965	6,965	0
2006	8,952	8,952	8,948	8,948	8,913	8,913	0
2007	6,197	6,215	6,194	6,212	6,147	6,147	0
2008	6,201	6,238	6,200	6,235	6,140	6,140	0
2009	2,903	2,749	2,943	2,867	2,865	2,691	174
2010	1,388	1,406	1,479	1,559	1,362	1,362	0
2011	10,620	9,583	10,633	10,477	10,328	9,377	951
2012	7,250	7,304	7,406	7,567	7,179	7,179	0
2013	2,984	2,950	3,146	3,303	3,096	2,659	437
2014	5,415	4,952	5,495	5,210	5,268	4,171	1,097
2015	3,282	3,454	3,595	4,174	3,626	2,677	949
2016	7,957	8,081	8,038	8,253	8,082	6,238	1,844
2017	5,072	3,811	5,468	5,129	4,870	2,027	2,843
2018	15,427	12,342	13,481	11,301	13,138	6,415	6,723
2019	19,927	16,479	13,577	11,978	12,777	6,177	6,600
2020	6,624	6,278	7,447	6,446	6,699	136	6,563
TOTAL	\$173,588	\$164,113	\$167,447	\$163,057	\$163,836	\$135,601	\$28,240

Notes:

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

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

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$6	\$6			\$0
1994	\$4,976	0	0	\$4,976	\$4,976	0
1995	5,410	0	0	5,410	5,410	0
1996	5,965	0	0	5,965	5,965	0
1997	2,841	0	0	2,841	2,841	0
1998	4,724	0	0	4,724	4,724	0
1999	5,327	0	0	5,327	5,327	0
2000	7,453	0	0	7,453	7,453	0
2001	4,494	0	0	4,494	4,494	0
2002	3,106	25	25	3,081	3,106	0
2003	4,480	28	28	4,452	4,480	0
2004	7,603	0	0	7,603	7,603	0
2005	6,965	0	0	6,965	6,965	0
2006	8,913	0	0	8,913	8,913	0
2007	6,147	0	0	6,147	6,147	0
2008	6,140	0	0	6,140	6,140	0
2009	2,865	174	43	2,691	2,734	131
2010	1,362	0	0	1,362	1,362	0
2011	10,328	951	258	9,377	9,635	693
2012	7,179	0	0	7,179	7,179	0
2013	3,096	437	171	2,659	2,830	266
2014	5,268	1,097	409	4,171	4,581	687
2015	3,626	949	284	2,677	2,961	665
2016	8,082	1,844	494	6,238	6,731	1,351
2017	4,870	2,843	980	2,027	3,007	1,863
2018	13,138	6,723	2,416	6,415	8,832	4,306
2019	12,777	6,600	1,241	6,177	7,418	5,359
2020	6,699	6,563	525	136	660	6,038
2021	8,835		193		193	8,642
TOTAL	\$172,671	\$28,240	\$7,072	\$135,601	\$142,667	\$30,004

Notes:

- (1) - For 2020 and prior, ultimate losses based from Exhibit II, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit II, Page 6A.
 (2) - For 2020 and prior, loss reserves based from Exhibit II, Page 1A, Column (7).
 (3) - From Exhibit II, Page 8.
 (4) - From Exhibit II, Page 1A. Column (6).
 (5) = (3) + (4)
 (6) = (1) - (5)
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
(1)	(2)	(3)	(4)	(5)	(6)	
Prior		\$0	\$0			\$0
1994	\$4,976	0	0	\$4,976	\$4,976	0
1995	5,410	0	0	5,410	5,410	0
1996	5,965	0	0	5,965	5,965	0
1997	2,841	0	0	2,841	2,841	0
1998	4,724	0	0	4,724	4,724	0
1999	5,327	0	0	5,327	5,327	0
2000	7,453	0	0	7,453	7,453	0
2001	4,494	0	0	4,494	4,494	0
2002	3,106	0	0	3,106	3,106	0
2003	4,480	0	0	4,480	4,480	0
2004	7,603	0	0	7,603	7,603	0
2005	6,965	0	0	6,965	6,965	0
2006	8,913	0	0	8,913	8,913	0
2007	6,147	0	0	6,147	6,147	0
2008	6,140	0	0	6,140	6,140	0
2009	2,865	131	41	2,734	2,775	90
2010	1,362	0	0	1,362	1,362	0
2011	10,328	693	227	9,635	9,862	466
2012	7,179	0	0	7,179	7,179	0
2013	3,096	266	76	2,830	2,906	190
2014	5,268	687	269	4,581	4,849	419
2015	3,626	665	248	2,961	3,209	417
2016	8,082	1,351	404	6,731	7,135	947
2017	4,870	1,863	499	3,007	3,505	1,365
2018	13,138	4,306	1,484	8,832	10,315	2,823
2019	12,777	5,359	1,926	7,418	9,344	3,433
2020	6,699	6,038	1,135	660	1,796	4,903
2021	8,835	8,642	524	193	717	8,118
2022	8,978		196		196	8,782
TOTAL	\$181,649	\$30,004	\$7,028	\$142,667	\$149,696	\$31,953

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit II, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit II, Page 6A.
 (2) - For 2021 and prior, loss reserves based from Exhibit II, Page 1B, Column (6).
 (3) - From Exhibit II, Page 8.
 (4) - From Exhibit II, Page 1B, Column (5).
 (5) = (3) + (4)
 (6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
(1)	(2)	(3)	(4)	(5)	(6)	
Prior		\$0	\$0			\$0
1994	\$4,976	0	0	\$4,976	\$4,976	0
1995	5,410	0	0	5,410	5,410	0
1996	5,965	0	0	5,965	5,965	0
1997	2,841	0	0	2,841	2,841	0
1998	4,724	0	0	4,724	4,724	0
1999	5,327	0	0	5,327	5,327	0
2000	7,453	0	0	7,453	7,453	0
2001	4,494	0	0	4,494	4,494	0
2002	3,106	0	0	3,106	3,106	0
2003	4,480	0	0	4,480	4,480	0
2004	7,603	0	0	7,603	7,603	0
2005	6,965	0	0	6,965	6,965	0
2006	8,913	0	0	8,913	8,913	0
2007	6,147	0	0	6,147	6,147	0
2008	6,140	0	0	6,140	6,140	0
2009	2,865	90	41	2,775	2,816	49
2010	1,362	0	0	1,362	1,362	0
2011	10,328	466	116	9,862	9,978	350
2012	7,179	0	0	7,179	7,179	0
2013	3,096	190	52	2,906	2,957	138
2014	5,268	419	120	4,849	4,969	299
2015	3,626	417	163	3,209	3,372	254
2016	8,082	947	353	7,135	7,488	594
2017	4,870	1,365	408	3,505	3,913	957
2018	13,138	2,823	755	10,315	11,071	2,067
2019	12,777	3,433	1,183	9,344	10,527	2,250
2020	6,699	4,903	1,762	1,796	3,558	3,141
2021	8,835	8,118	1,133	717	1,850	6,985
2022	8,978	8,782	691	196	887	8,091
2023	9,121		199		199	8,922
TOTAL	\$190,770	\$31,953	\$6,976	\$149,696	\$156,672	\$34,098

Notes:

(1) - For 2022 and prior, ultimate losses based from Exhibit II, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit II, Page 6A.

(2) - For 2022 and prior, loss reserves based from Exhibit II, Page 1C, Column (6).

(3) - From Exhibit II, Page 8.

(4) - From Exhibit II, Page 1C, Column (5).

(5) = (3) + (4)

(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED INCURRED LOSSES @6/30/2020	INCURRED LARGE LOSSES AS OF @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	POPULATION	ESTIMATED LOSS RATE
	(1)	(1A)	(2)	(3)	(4)	(5)
Prior						
1994	\$4,976		1.000	\$4,976	N/A	
1995	5,410	\$2,416	1.000	5,410	N/A	
1996	5,965	2,610	1.000	5,965	N/A	
1997	2,841		1.000	2,841	N/A	
1998	4,724		1.000	4,724	N/A	
1999	5,327		1.000	5,327	N/A	
2000	7,453	2,465	1.000	7,453	N/A	
2001	4,494		1.000	4,494	N/A	
2002	3,114		1.000	3,114	N/A	
2003	4,489		1.000	4,489	647,188	0.007
2004	7,603	2,934	1.002	7,612	656,569	0.012
2005	6,965	2,193	1.004	6,984	663,085	0.011
2006	8,913	2,355	1.006	8,952	669,716	0.013
2007	6,147		1.008	6,197	674,510	0.009
2008	6,140		1.010	6,201	679,720	0.009
2009	2,867		1.013	2,903	692,314	0.004
2010	1,362		1.019	1,388	714,142	0.002
2011	10,477	4,791	1.025	10,620	723,147	0.015
2012	7,179	5,226	1.036	7,250	732,298	0.010
2013	2,848		1.048	2,984	739,998	0.004
2014	5,045		1.073	5,415	747,668	0.007
2015	2,979		1.102	3,282	755,310	0.004
2016	7,255	2,073	1.135	7,957	744,623	0.011
2017	3,780		1.342	5,072	751,471	0.007
2018	10,003	5,000	2.084	15,427	758,259	0.020
2019	8,733	5,032	4.025	19,927	731,007	0.027
2020	1,543			6,624	731,566	0.009
TOTAL	\$148,633	\$37,095		\$173,588		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED PAID LOSSES @6/30/2020	PAID LARGE LOSSES AS OF @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	POPULATION	ESTIMATED LOSS RATE
	(6)	(6A)	(7)	(8)	(9)	(10)
Prior						
1994	\$4,976		1.000	\$4,976	N/A	
1995	5,410	\$2,416	1.000	5,410	N/A	
1996	5,965	2,610	1.000	5,965	N/A	
1997	2,841		1.000	2,841	N/A	
1998	4,724		1.000	4,724	N/A	
1999	5,327		1.000	5,327	N/A	
2000	7,453	2,465	1.000	7,453	N/A	
2001	4,494		1.000	4,494	N/A	
2002	3,081		1.000	3,081	N/A	
2003	4,452		1.000	4,452	647,188	0.007
2004	7,603	2,934	1.002	7,612	656,569	0.012
2005	6,965	2,193	1.004	6,984	663,085	0.011
2006	8,913	2,355	1.006	8,952	669,716	0.013
2007	6,147		1.011	6,215	674,510	0.009
2008	6,140		1.016	6,238	679,720	0.009
2009	2,691		1.021	2,749	692,314	0.004
2010	1,362		1.032	1,406	714,142	0.002
2011	9,377	4,791	1.045	9,583	723,147	0.013
2012	7,179	5,226	1.064	7,304	732,298	0.010
2013	2,659		1.110	2,950	739,998	0.004
2014	4,171		1.187	4,952	747,668	0.007
2015	2,677		1.290	3,454	755,310	0.005
2016	6,238	2,073	1.443	8,081	744,623	0.011
2017	2,027		1.880	3,811	751,471	0.005
2018	6,415	4,438	3.715	12,342	758,259	0.016
2019	6,177	5,032	9.997	16,479	731,007	0.023
2020	136			6,278	731,566	0.009
TOTAL	\$135,601	\$36,533		\$164,113		

Notes:

(1), (4), (6) & (9) - Per STATE OF ALASKA.

(1A) & (6A) - Incurred and paid losses excluded in the development.

(2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	POPULATION	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Prior							
1994	0.009	N/A	\$4,976	0.0%	\$0	\$4,976	\$4,976
1995	0.009	N/A	5,410	0.0%	0	5,410	5,410
1996	0.009	N/A	5,965	0.0%	0	5,965	5,965
1997	0.009	N/A	2,841	0.0%	0	2,841	2,841
1998	0.009	N/A	4,724	0.0%	0	4,724	4,724
1999	0.009	N/A	5,327	0.0%	0	5,327	5,327
2000	0.009	N/A	7,453	0.0%	0	7,453	7,453
2001	0.009	N/A	4,494	0.0%	0	4,494	4,494
2002	0.009	N/A	3,098	0.0%	0	3,114	3,114
2003	0.009	647,188	5,707	0.0%	0	4,489	4,489
2004	0.009	656,569	5,790	0.2%	12	7,603	7,615
2005	0.009	663,085	5,847	0.4%	23	6,965	6,988
2006	0.009	669,716	5,905	0.6%	35	8,913	8,948
2007	0.009	674,510	5,948	0.8%	47	6,147	6,194
2008	0.009	679,720	5,994	1.0%	60	6,140	6,200
2009	0.009	692,314	6,105	1.2%	76	2,867	2,943
2010	0.009	714,142	6,297	1.9%	117	1,362	1,479
2011	0.009	723,147	6,377	2.5%	156	10,477	10,633
2012	0.009	732,298	6,457	3.5%	227	7,179	7,406
2013	0.009	739,998	6,525	4.6%	298	2,848	3,146
2014	0.009	747,668	6,593	6.8%	450	5,045	5,495
2015	0.009	755,310	6,660	9.2%	616	2,979	3,595
2016	0.009	744,623	6,566	11.9%	783	7,255	8,038
2017	0.009	751,471	6,626	25.5%	1,688	3,780	5,468
2018	0.009	758,259	6,686	52.0%	3,478	10,003	13,481
2019	0.009	731,007	6,446	75.2%	4,844	8,733	13,577
2020	0.009	731,566	6,451	91.5%	5,904	1,543	7,447
TOTAL			\$157,267		\$18,814	\$148,633	\$167,447

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	POPULATION	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
(8)	(9)	(10)	(11)	(12)	(13)	(14)	
Prior							
1994	0.009	N/A	\$4,976	0.0%	\$0	\$4,976	\$4,976
1995	0.009	N/A	5,410	0.0%	0	5,410	5,410
1996	0.009	N/A	5,965	0.0%	0	5,965	5,965
1997	0.009	N/A	2,841	0.0%	0	2,841	2,841
1998	0.009	N/A	4,724	0.0%	0	4,724	4,724
1999	0.009	N/A	5,327	0.0%	0	5,327	5,327
2000	0.009	N/A	7,453	0.0%	0	7,453	7,453
2001	0.009	N/A	4,494	0.0%	0	4,494	4,494
2002	0.009	N/A	3,098	0.0%	0	3,081	3,114
2003	0.009	647,188	5,707	0.0%	0	4,452	4,489
2004	0.009	656,569	5,790	0.2%	12	7,603	7,615
2005	0.009	663,085	5,847	0.4%	23	6,965	6,988
2006	0.009	669,716	5,905	0.6%	35	8,913	8,948
2007	0.009	674,510	5,948	1.1%	65	6,147	6,212
2008	0.009	679,720	5,994	1.6%	95	6,140	6,235
2009	0.009	692,314	6,105	2.1%	128	2,691	2,867
2010	0.009	714,142	6,297	3.1%	197	1,362	1,559
2011	0.009	723,147	6,377	4.3%	274	9,377	10,477
2012	0.009	732,298	6,457	6.0%	388	7,179	7,567
2013	0.009	739,998	6,525	9.9%	644	2,659	3,303
2014	0.009	747,668	6,593	15.8%	1,039	4,171	5,210
2015	0.009	755,310	6,660	22.5%	1,497	2,677	4,174
2016	0.009	744,623	6,566	30.7%	2,015	6,238	8,253
2017	0.009	751,471	6,626	46.8%	3,102	2,027	5,129
2018	0.009	758,259	6,686	73.1%	4,886	6,415	11,301
2019	0.009	731,007	6,446	90.0%	5,801	6,177	11,978
2020	0.009	731,566	6,451	97.8%	6,310	136	6,446
TOTAL			\$157,267		\$26,511	\$135,601	\$163,057

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit II, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit I, Columns (5) & (10).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
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AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												4,621
1995											3,169	3,645
1996										6,349	6,355	6,375
1997									2,776	2,820	2,815	2,815
1998								3,872	3,778	3,916	3,916	5,864
1999							3,908	3,951	3,968	3,961	3,962	3,988
2000						7,158	7,212	7,558	7,539	7,551	7,443	7,443
2001					3,267	3,218	3,259	3,262	3,347	3,391	3,315	3,279
2002				1,689	2,031	2,360	2,465	2,571	2,713	2,713	2,851	2,862
2003			2,811	3,534	3,793	3,954	3,965	4,086	4,272	4,364	4,372	4,380
2004		2,216	2,907	5,479	7,642	7,642	7,652	7,652	7,602	7,603	7,603	7,603
2005	1,451	5,002	5,708	6,187	6,655	6,715	6,702	6,660	6,675	6,676	6,701	6,782
2006	675	1,418	3,026	5,737	7,114	7,453	7,615	8,249	8,258	8,238	8,238	8,238
2007	822	1,593	3,275	4,213	4,431	4,199	4,301	4,826	5,134	5,425	5,829	6,148
2008	561	1,021	2,078	2,680	3,547	4,124	4,824	6,519	6,227	6,145	6,144	6,140
2009	827	1,336	1,073	1,796	2,062	2,362	2,459	2,452	2,507	2,847	2,867	2,867
2010	166	288	928	1,155	1,448	1,338	1,389	1,367	1,367	1,362	1,362	
2011	144	924	1,797	3,346	4,561	4,550	4,648	10,543	10,456	10,477		
2012	132	462	2,366	6,800	7,070	7,178	7,222	7,272	7,179			
2013	100	338	1,562	1,757	2,570	2,658	2,830	2,848				
2014	346	1,260	2,515	3,125	4,549	5,042	5,045					
2015	294	1,300	1,698	3,183	2,904	2,979						
2016	2,315	3,498	5,152	8,162	7,255							
2017	200	556	2,795	3,780								
2018	5,949	7,697	10,003									
2019	2,439	8,733										
2020	1,543											

INCURRED 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
	24	36	48	60	72	84	96	108	120	132	144	156
1994												1.000
1995											1.150	1.002
1996										1.001	1.003	1.002
1997									1.016	0.998	1.000	1.000
1998								0.976	1.037	1.000	1.497	1.012
1999							1.011	1.004	0.998	1.000	1.007	1.011
2000						1.008	1.048	0.997	1.002	0.986	1.000	0.999
2001					0.985	1.013	1.001	1.026	1.013	0.978	0.989	1.012
2002				1.202	1.162	1.044	1.043	1.055	1.000	1.051	1.004	1.001
2003			1.257	1.073	1.042	1.003	1.031	1.046	1.022	1.002	1.002	0.999
2004		1.312	1.885	1.395	1.000	1.001	1.000	0.993	1.000	1.000	1.000	1.000
2005	3.447	1.141	1.084	1.076	1.009	0.998	0.994	1.002	1.000	1.004	1.012	1.021
2006	2.101	2.134	1.896	1.240	1.048	1.022	1.083	1.001	0.998	1.000	1.000	1.000
2007	1.938	2.056	1.286	1.052	0.948	1.024	1.122	1.064	1.057	1.074	1.055	1.000
2008	1.820	2.035	1.290	1.324	1.163	1.170	1.351	0.955	0.987	1.000	0.999	1.000
2009	1.615	0.803	1.674	1.148	1.145	1.041	0.997	1.023	1.135	1.007	1.000	
2010	1.735	3.222	1.245	1.254	0.924	1.038	0.984	1.000	0.996	1.000		
2011	6.417	1.945	1.862	1.363	0.998	1.022	2.268	0.992	1.002			
2012	3.500	5.121	2.874	1.040	1.015	1.006	1.007	0.987				
2013	3.380	4.621	1.125	1.462	1.035	1.065	1.006					
2014	3.642	1.996	1.243	1.456	1.108	1.001						
2015	4.422	1.306	1.875	0.912	1.026							
2016	1.511	1.473	1.584	0.889								
2017	2.782	5.030	1.353									
2018	1.294	1.300										
2019	3.581											
AVERAGE	2.879	2.366	1.569	1.192	1.041	1.030	1.130	1.008	1.018	1.007	1.048	1.004
3 YR AVG.	2.552	2.601	1.604	1.086	1.056	1.024	1.427	0.993	1.044	1.002	1.018	1.000
EXCL HI LO	2.729	2.275	1.506	1.195	1.040	1.022	1.053	1.008	1.011	1.004	1.018	1.003
5 YR AVG EXCL HI LO	2.625	1.592	1.393	1.136	1.025	1.022	1.003	0.993	1.018	1.002	1.004	1.000
PRIOR SELECTED	2.956	1.901	1.557	1.185	1.029	1.027	1.024	1.011	1.011	1.006	1.006	1.003
AM BEST	1.366	1.145	1.072	1.029	1.011	1.004	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	2.930	1.932	1.553	1.182	1.030	1.027	1.024	1.011	1.011	1.006	1.006	1.002
CUMULATIVE	11.793	4.025	2.084	1.342	1.135	1.102	1.073	1.048	1.036	1.025	1.019	1.013

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
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CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,654	4,789	5,021	4,976	4,976	4,976
1995	3,654	5,404	5,418	5,418	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	
1996	6,387	6,387	6,395	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	
1997	2,815	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841			
1998	5,932	5,175	5,182	5,221	5,237	4,724	4,724	4,724	4,724	4,724	4,724				
1999	4,033	4,383	4,411	6,474	5,327	5,327	5,327	5,327	5,327	5,327					
2000	7,438	7,453	7,453	7,453	7,453	7,453	7,453	7,453	7,453						
2001	3,319	4,491	4,494	4,494	4,494	4,494	4,494	4,494							
2002	2,864	2,864	2,967	3,064	3,064	3,114	3,114								
2003	4,376	4,369	4,369	4,369	4,439	4,489									
2004	7,603	7,603	7,603	7,603	7,603										
2005	6,926	6,976	6,965	6,965											
2006	8,238	8,912	8,913												
2007	6,148	6,147													
2008	6,140														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.007	1.029	1.048	0.991	1.000	1.000	
1995	1.479	1.003	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1996	1.000	1.001	0.933	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1997	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1998	0.872	1.001	1.008	1.003	0.902	1.000	1.000	1.000	1.000	1.000					
1999	1.087	1.006	1.468	0.823	1.000	1.000	1.000	1.000	1.000						
2000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
2001	1.353	1.001	1.000	1.000	1.000	1.000	1.000								
2002	1.000	1.036	1.033	1.000	1.016	1.000									
2003	0.998	1.000	1.000	1.016	1.011										
2004	1.000	1.000	1.000	1.000											
2005	1.007	0.998	1.000												
2006	1.082	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.064	1.004	1.037	0.986	0.993	1.000	1.000	1.000	1.001	1.006	1.012	0.997	1.000	1.000	
3 YR AVG.	1.030	0.999	1.000	1.005	1.009	1.000	1.000	1.000	1.000	1.000	1.000	0.997			
EXCL HI LO	1.045	1.001	1.004	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 YR AVG EXCL HI LO	1.002	1.000	1.000	1.000	1.004	1.000	1.000	1.000	1.000	1.000					
PRIOR SELECTED	1.002	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
AM BEST	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.010	1.008	1.006	1.004	1.002	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 6/30 of the stated year.

STATE OF ALASKA
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UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												4,621
1995											2,803	2,847
1996										5,919	5,921	5,945
1997									2,758	2,805	2,815	2,815
1998								3,641	3,641	3,646	3,914	4,363
1999							3,873	3,920	3,934	3,958	3,959	3,967
2000						6,759	6,842	7,322	7,415	7,436	7,433	7,436
2001					3,023	3,082	3,124	3,146	3,197	3,268	3,291	3,279
2002				1,325	1,627	2,270	2,385	2,487	2,577	2,645	2,851	2,862
2003			1,128	2,188	3,146	3,856	3,895	3,990	4,205	4,241	4,308	4,352
2004		1,286	1,819	4,629	7,532	7,642	7,652	7,652	7,602	7,603	7,603	7,603
2005	310	1,752	5,129	5,771	6,365	6,609	6,636	6,660	6,675	6,676	6,694	6,782
2006	256	666	1,940	4,615	6,749	7,147	7,486	8,228	8,238	8,238	8,238	8,238
2007	273	958	2,747	3,435	3,660	4,192	4,281	4,529	5,007	5,291	5,795	6,148
2008	240	506	1,363	1,994	2,969	3,616	4,370	6,053	6,127	6,140	6,140	6,140
2009	493	707	844	1,385	1,899	2,178	2,419	2,449	2,507	2,662	2,690	2,691
2010	38	176	566	941	1,139	1,321	1,357	1,358	1,362	1,362	1,362	
2011	28	449	1,495	2,938	4,480	4,538	4,621	6,094	9,306	9,377		
2012	40	293	806	6,601	7,045	7,156	7,175	7,179	7,179			
2013	61	237	1,120	1,531	2,433	2,606	2,641	2,659				
2014	65	503	1,799	2,877	3,345	4,099	4,171					
2015	97	378	1,351	2,214	2,629	2,677						
2016	96	1,230	1,851	4,950	6,238							
2017	50	197	507	2,027								
2018	440	4,656	6,415									
2019	453	6,177										
2020	136											

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12 TO 24	24 TO 36	36 TO 48	48 TO 60	60 TO 72	72 TO 84	84 TO 96	96 TO 108	108 TO 120	120 TO 132	132 TO 144	144 TO 156
1994												1.000
1995											1.016	1.090
1996										1.000	1.004	1.002
1997									1.017	1.004	1.000	1.000
1998								1.000	1.001	1.074	1.115	1.012
1999							1.012	1.004	1.006	1.000	1.002	1.015
2000						1.012	1.070	1.013	1.003	1.000	1.000	1.000
2001					1.020	1.014	1.007	1.016	1.022	1.007	0.996	1.011
2002				1.228	1.395	1.051	1.043	1.036	1.026	1.078	1.004	1.001
2003			1.940	1.438	1.226	1.010	1.024	1.054	1.009	1.016	1.010	1.004
2004		1.414	2.545	1.627	1.015	1.001	1.000	0.993	1.000	1.000	1.000	1.000
2005	5.652	2.928	1.125	1.103	1.038	1.004	1.004	1.002	1.000	1.003	1.013	1.020
2006	2.602	2.913	2.379	1.462	1.059	1.047	1.099	1.001	1.000	1.000	1.000	1.000
2007	3.509	2.867	1.250	1.066	1.145	1.021	1.058	1.106	1.057	1.095	1.061	1.000
2008	2.108	2.694	1.463	1.489	1.218	1.209	1.385	1.012	1.002	1.000	1.000	1.000
2009	1.434	1.194	1.641	1.371	1.147	1.111	1.012	1.024	1.062	1.010	1.000	
2010	4.632	3.216	1.663	1.210	1.160	1.027	1.001	1.003	1.000	1.000		
2011	16.036	3.330	1.965	1.525	1.013	1.018	1.319	1.527	1.008			
2012	7.325	2.751	8.190	1.067	1.016	1.003	1.001	1.000				
2013	3.885	4.726	1.367	1.589	1.071	1.013	1.007					
2014	7.738	3.577	1.599	1.163	1.226	1.018						
2015	3.897	3.575	1.638	1.188	1.018							
2016	12.810	1.505	2.674	1.260								
2017	3.933	2.578	4.000									
2018	10.587	1.378										
2019	13.623											
AVERAGE	6.651	2.710	2.363	1.319	1.118	1.037	1.069	1.053	1.014	1.019	1.015	1.010
3 YR AVG.	9.381	1.820	2.771	1.204	1.105	1.011	1.109	1.177	1.023	1.003	1.020	1.000
EXCL HI LO	6.331	2.671	2.010	1.315	1.105	1.027	1.051	1.021	1.012	1.015	1.008	1.005
5 YR AVG EXCL HI LO	9.110	2.553	1.970	1.204	1.035	1.016	1.007	1.013	1.022	1.003	1.004	1.000
PRIOR SELECTED	4.242	2.719	1.942	1.308	1.122	1.094	1.071	1.040	1.018	1.012	1.010	1.006
AM BEST	2.114	1.442	1.234	1.111	1.048	1.021	1.010	1.005	1.002	1.002	1.001	1.001
SELECTED	4.590	2.691	1.976	1.303	1.118	1.087	1.070	1.043	1.018	1.012	1.011	1.005
CUMULATIVE	45.889	9.997	3.715	1.880	1.443	1.290	1.187	1.110	1.064	1.045	1.032	1.021

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,654	4,789	4,973	4,976	4,976	4,976
1995	3,104	3,236	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	5,410	
1996	5,957	5,957	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	5,965	
1997	2,815	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841	2,841			
1998	4,414	4,653	4,670	4,718	4,724	4,724	4,724	4,724	4,724	4,724	4,724				
1999	4,027	4,310	4,399	4,473	5,327	5,327	5,327	5,327	5,327	5,327					
2000	7,438	7,453	7,453	7,453	7,453	7,453	7,453	7,453							
2001	3,315	3,490	4,494	4,494	4,494	4,494	4,494	4,494							
2002	2,864	2,864	2,967	3,024	3,049	3,071	3,081								
2003	4,369	4,369	4,369	4,369	4,380	4,452									
2004	7,603	7,603	7,603	7,603	7,603										
2005	6,917	6,964	6,965	6,965											
2006	8,238	8,912	8,913												
2007	6,148	6,147													
2008	6,140														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.007	1.029	1.038	1.000	1.000	1.000	
1995	1.043	1.672	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	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1997	1.009	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	1.054	1.004	1.010	1.001	1.000	1.000	1.000	1.000	1.000	1.000					
1999	1.070	1.021	1.017	1.191	1.000	1.000	1.000	1.000	1.000						
2000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
2001	1.053	1.288	1.000	1.000	1.000	1.000	1.000								
2002	1.000	1.036	1.019	1.008	1.007	1.003									
2003	1.000	1.000	1.000	1.002	1.016										
2004	1.000	1.000	1.000	1.000											
2005	1.007	1.000	1.000												
2006	1.082	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.023	1.079	1.004	1.018	1.002	1.000	1.000	1.000	1.001	1.006	1.010	1.000	1.000	1.000	
3 YR AVG.	1.030	1.000	1.000	1.003	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
EXCL HI LO	1.020	1.032	1.003	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
5 YR AVG EXCL HI LO	1.002	1.000	1.000	1.001	1.002	1.000	1.000	1.000	1.000	1.000					
PRIOR SELECTED	1.005	1.005	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
AM BEST	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000						
SELECTED	1.005	1.005	1.002	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
CUMULATIVE	1.016	1.011	1.006	1.004	1.002	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
GENERAL LIABILITY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												291
1995											305	305
1996										279	279	
1997									542	542	542	
1998								183	184	184	185	
1999							214	214	215	215	215	
2000						198	198	198	198	198	191	
2001					214	214	215	215	215	211	211	
2002				188	189	190	190	190	185	185	185	
2003			188	189	190	190	190	185	185	185	185	
2004		127	142	144	144	144	142	142	142	142	142	
2005	89	111	123	120	119	116	116	116	116	117	118	
2006	180	198	215	217	218	218	218	218	217	217	217	
2007	118	130	143	146	146	147	148	150	150	153	155	
2008	104	124	139	141	144	148	148	150	150	153	153	
2009	64	89	98	102	105	105	105	106	107	107	107	
2010	37	51	65	72	74	74	74	83	83	83	83	
2011	31	54	79	81	81	82	87	87	88	88		
2012	60	74	90	91	91	96	96	96	96			
2013	54	66	81	85	91	92	92	93				
2014	31	44	63	73	73	74	75					
2015	23	33	48	52	54	56						
2016	35	56	63	66	66							
2017	40	48	58	60								
2018	104	141	148									
2019	31	63										
2020	56											

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
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								1.005	1.000	1.005	1.000	1.005
1999							1.000	1.005	1.000	1.000	1.000	0.995
2000						1.000	1.000	1.000	1.000	0.965	1.005	1.000
2001					1.000	1.005	1.000	1.000	0.981	1.000	1.000	1.005
2002				1.005	1.005	1.000	1.000	0.974	1.000	1.000	1.000	0.995
2003			1.005	1.005	1.000	1.000	0.974	1.000	1.000	1.000	1.000	1.000
2004		1.118	1.014	1.000	1.000	0.986	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.247	1.108	0.976	0.992	0.975	1.000	1.000	1.000	1.009	1.009	1.000	1.051
2006	1.100	1.086	1.009	1.005	1.000	1.000	1.000	0.995	1.000	1.000	1.005	1.000
2007	1.102	1.100	1.021	1.000	1.007	1.007	1.014	1.000	1.020	1.013	1.000	1.000
2008	1.192	1.121	1.014	1.021	1.028	1.000	1.014	1.000	1.020	1.000	1.000	1.000
2009	1.391	1.101	1.041	1.029	1.000	1.000	1.010	1.009	1.000	1.000	1.000	
2010	1.378	1.275	1.108	1.028	1.000	1.000	1.122	1.000	1.000	1.000		
2011	1.742	1.463	1.025	1.000	1.012	1.061	1.000	1.011	1.000			
2012	1.233	1.216	1.011	1.000	1.055	1.000	1.000	1.000				
2013	1.222	1.227	1.049	1.071	1.011	1.000	1.011					
2014	1.419	1.432	1.159	1.000	1.014	1.014						
2015	1.435	1.455	1.083	1.038	1.037							
2016	1.600	1.125	1.048	1.000								
2017	1.200	1.208	1.034									
2018	1.356	1.050										
2019	2.032											
AVERAGE	1.377	1.206	1.040	1.013	1.010	1.005	1.010	1.000	1.002	0.999	1.001	1.003
3 YR AVG.	1.529	1.128	1.055	1.013	1.021	1.005	1.004	1.004	1.000	1.000	1.000	1.000
EXCL HI LO	1.347	1.198	1.036	1.010	1.009	1.002	1.004	1.001	1.002	1.001	1.000	1.000
5 YR AVG EXCL HI LO	1.464	1.255	1.060	1.013	1.021	1.005	1.007	1.003	1.007	1.000	1.000	1.000
PRIOR SELECTED	1.353	1.261	1.056	1.014	1.007	1.003	1.004	1.002	1.002	1.001	1.000	1.000
SELECTED	1.429	1.197	1.048	1.012	1.009	1.004	1.004	1.002	1.002	1.001	1.000	1.000
CUMULATIVE	1.856	1.298	1.085	1.036	1.023	1.014	1.010	1.006	1.004	1.002	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
GENERAL LIABILITY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	291	291	291	291	291	291	291	291	291	292	292	292	278	278	278
1995	305	305	305	305	305	305	305	305	305	306	306	302	302	302	
1996	279	279	280	280	280	280	280	280	280	280	280	280	280		
1997	542	543	543	543	543	543	543	543	543	542	542	542			
1998	186	186	186	186	186	186	186	186	186	187	186				
1999	214	214	214	214	214	214	216	171	171	171					
2000	192	192	192	192	192	199	199	199	199						
2001	212	212	212	212	216	216	216	216							
2002	184	185	186	191	191	191	191								
2003	185	185	190	190	191	191									
2004	142	144	144	144	144										
2005	124	124	124	124											
2006	218	219	219												
2007	155	155													
2008	153														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
	TO	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	324	ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.003	1.000	1.000	0.952	1.000	1.000	
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.003	1.000	0.987	1.000	1.000		
1996	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1997	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.000				
1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.005	0.995					
1999	1.000	1.000	1.000	1.000	1.000	1.009	0.792	1.000	1.000						
2000	1.000	1.000	1.000	1.000	1.036	1.000	1.000	1.000							
2001	1.000	1.000	1.000	1.019	1.000	1.000	1.000								
2002	1.005	1.005	1.027	1.000	1.000	1.000									
2003	1.000	1.027	1.000	1.005	1.000										
2004	1.014	1.000	1.000	1.000											
2005	1.000	1.000	1.000												
2006	1.005	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.002	1.003	1.002	1.002	1.004	1.001	0.974	1.000	1.002	0.999	0.997	0.984	1.000	1.000	
3 YR AVG.	1.002	1.000	1.000	1.002	1.000	1.000	0.931	1.000	1.001	0.998	0.996	0.984			
EXCL HI LO	1.001	1.001	1.000	1.001	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000			
5 YR AVG EXCL HI LO	1.002	1.002	1.000	1.002	1.000	1.000	1.000	1.000	1.001	1.000					
PRIOR 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		
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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$6	1.000	\$6	\$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	1.000	0	0
2002	25	1.000	25	0
2003	28	1.000	28	0
2004	0	0.985	0	0
2005	0	0.971	0	0
2006	0	0.957	0	0
2007	0	0.955	0	0
2008	0	0.945	0	0
2009	174	0.934	163	11
2010	0	0.933	0	0
2011	951	0.927	882	69
2012	0	0.925	0	0
2013	437	0.932	407	30
2014	1,097	0.935	1,025	71
2015	949	0.931	883	66
2016	1,844	0.926	1,707	137
2017	2,843	0.928	2,640	203
2018	6,723	0.932	6,263	460
2019	6,600	0.920	6,070	530
2020	6,563	0.900	5,909	655
TOTAL	\$28,240		\$26,008	\$2,233

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$26,008
75%	32,982
85%	40,176
95%	53,734

Notes:

(1) - Per Exhibit II, Page 1A, Column (7).

(2) - Per AMI calculations, see Appendix A, Page 2.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	1.000	0	0
2002	0	1.000	0	0
2003	0	1.000	0	0
2004	0	1.000	0	0
2005	0	0.985	0	0
2006	0	0.971	0	0
2007	0	0.957	0	0
2008	0	0.955	0	0
2009	131	0.945	124	7
2010	0	0.934	0	0
2011	693	0.933	646	47
2012	0	0.927	0	0
2013	266	0.925	246	20
2014	687	0.932	641	47
2015	665	0.935	622	43
2016	1,351	0.931	1,258	93
2017	1,863	0.926	1,725	139
2018	4,306	0.928	3,998	308
2019	5,359	0.932	4,993	367
2020	6,038	0.920	5,553	485
2021	8,642	0.900	7,781	862
TOTAL	\$30,004		\$27,586	\$2,418

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$27,586
75%	34,983
85%	42,614
95%	56,995

Notes:

(1) - Per Exhibit II, Page 1B, Column (6).

(2) - Per AMI calculations, see Appendix A, Page 2.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0.985	0	0
2007	0	0.971	0	0
2008	0	0.957	0	0
2009	90	0.955	86	4
2010	0	0.945	0	0
2011	466	0.934	436	31
2012	0	0.933	0	0
2013	190	0.927	176	14
2014	419	0.925	387	32
2015	417	0.932	389	28
2016	947	0.935	885	62
2017	1,365	0.931	1,270	94
2018	2,823	0.926	2,612	210
2019	3,433	0.928	3,188	246
2020	4,903	0.932	4,568	335
2021	8,118	0.920	7,466	652
2022	8,782	0.900	7,906	876
TOTAL	\$31,953		\$29,370	\$2,584

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$29,370
75%	37,246
85%	45,369
95%	60,680

Notes:

- (1) - Per Exhibit II, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 2.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0.985	0	0
2008	0	0.971	0	0
2009	49	0.957	47	2
2010	0	0.955	0	0
2011	350	0.945	331	19
2012	0	0.934	0	0
2013	138	0.933	129	9
2014	299	0.927	277	22
2015	254	0.925	235	19
2016	594	0.932	553	40
2017	957	0.935	894	62
2018	2,067	0.931	1,924	143
2019	2,250	0.926	2,083	168
2020	3,141	0.928	2,916	225
2021	6,985	0.932	6,507	478
2022	8,091	0.920	7,441	650
2023	8,922	0.900	8,032	890
TOTAL	\$34,098		\$31,371	\$2,727

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$31,371
75%	39,783
85%	48,461
95%	64,815

Notes:

- (1) - Per Exhibit II, Page 1D, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 2.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	POPULATION	LOSS RATE
	(1)	(2)	(3)
Prior			
1994	\$4,976	N/A	
1995	5,410	N/A	
1996	5,965	N/A	
1997	2,841	N/A	
1998	4,724	N/A	
1999	5,327	N/A	
2000	7,453	N/A	
2001	4,494	N/A	
2002	3,106	N/A	
2003	4,480	647,188	0.007
2004	7,603	656,569	0.012
2005	6,965	663,085	0.011
2006	8,913	669,716	0.013
2007	6,147	674,510	0.009
2008	6,140	679,720	0.009
2009	2,865	692,314	0.004
2010	1,362	714,142	0.002
2011	10,328	723,147	0.014
2012	7,179	732,298	0.010
2013	3,096	739,998	0.004
2014	5,268	747,668	0.007
2015	3,626	755,310	0.005
2016	8,082	744,623	0.011
2017	4,870	751,471	0.006
2018	13,138	758,259	0.017
2019	12,777	731,007	0.017
2020	6,699	731,566	0.009
(PROJ.) 2020/2021	\$8,835	736,218	0.012
(PROJ.) 2021/2022	8,978	740,731	0.012
(PROJ.) 2022/2023	9,121	745,084	0.012

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$8,835	0.876	\$7,744	\$1,091
2022	8,978	0.876	7,869	1,109
2023	9,121	0.876	7,994	1,127

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$7,744	\$10,984	\$14,034	\$20,083
2022	7,869	11,161	14,260	20,407
2023	7,994	11,338	14,487	20,731

Notes:

- (1) - Per Exhibit II, Page 1A, Column (5). For projected years, (1) = (2) x (3)
 (2) - Per STATE OF ALASKA.
 (3) = (1) / (2). For the projected years, it is the trended average of prior years
 (4) = (1); (5) - Per Appendix A, Page 3, Column (7).
 (6) = (4) x (5); (7) = (4) - (6).
 (8) = (6).
 (9) to (11) - Based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
LOSSES LIMITED TO \$1MM RETENTION

FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS LIMITED TO \$1MM RETENTION

ACCIDENT YEAR*	PROJECTED UNLIMITED LOSSES	RETENTION FACTORS	EXPECTED FUNDING AMOUNT AT RETENTION LIMIT
	(1)	(2)	(3)
2021	\$8,835	0.725	\$6,405
2022	8,978	0.725	6,509
2023	9,121	0.725	6,613

Notes:

(1) - Per Exhibit II, Page 6A, Column (4).

(2) - Based on industry increased limits factors for the STATE OF ALASKA.

(3) = (1) * (2)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
GENERAL LIABILITY
UNLIMITED

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	POPULATION	NUMBER OF CLAIMS PER 10,000 PEOPLE (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	278	1.000	278	\$4,976	N/A		\$17,900
1995	302	1.000	302	5,410	N/A		17,914
1996	280	1.000	280	5,965	N/A		21,305
1997	542	1.000	542	2,841	N/A		5,242
1998	186	1.000	186	4,724	N/A		25,397
1999	171	1.000	171	5,327	N/A		31,152
2000	199	1.000	199	7,453	N/A		37,452
2001	216	1.000	216	4,494	N/A		20,807
2002	191	1.000	191	3,106	N/A		16,262
2003	191	1.000	191	4,480	647,188	3.0	23,455
2004	144	1.000	144	7,603	656,569	2.2	52,797
2005	124	1.000	124	6,965	663,085	1.9	56,171
2006	219	1.000	219	8,913	669,716	3.3	40,697
2007	155	1.000	155	6,147	674,510	2.3	39,661
2008	153	1.000	153	6,140	679,720	2.3	40,129
2009	107	1.000	107	2,865	692,314	1.5	26,779
2010	83	1.000	83	1,362	714,142	1.2	16,409
2011	88	1.002	88	10,328	723,147	1.2	117,188
2012	96	1.004	96	7,179	732,298	1.3	74,491
2013	93	1.006	94	3,096	739,998	1.3	33,085
2014	75	1.010	76	5,268	747,668	1.0	69,520
2015	56	1.014	57	3,626	755,310	0.8	63,833
2016	66	1.023	68	8,082	744,623	0.9	119,659
2017	60	1.036	62	4,870	751,471	0.8	78,369
2018	148	1.085	161	13,138	758,259	2.1	81,813
2019	63	1.298	82	12,777	731,007	1.1	156,220
2020	56	1.856	86	6,699	731,566	1.2	77,789
TOTAL	4,342		4,410	\$163,836			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2). For the latest year, it is (6) x (5)/10000.

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

(6) = [(3) / [(5) / 10000]] ; (7) = [(3) / (4)] x 1000. For the latest year, it is the average of prior years.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	2.2%	10.0%	26.9%	53.2%	69.3%	77.5%	84.2%	90.1%	94.0%	95.7%
INCREMENTAL LOSS PAYOUT PATTERN	2.2%	7.8%	16.9%	26.3%	16.1%	8.2%	6.7%	5.9%	3.9%	1.7%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		8.0%	17.3%	26.9%	16.5%	8.4%	6.9%	6.0%	3.9%	1.8%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	2.2%	7.8%	16.9%	26.3%	16.1%	8.2%	6.7%	5.9%	3.9%	1.7%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$6	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	\$4,976	0	0	0	0	0	0	0	0	0	0	0
1995	5,410	0	0	0	0	0	0	0	0	0	0	0
1996	5,965	0	0	0	0	0	0	0	0	0	0	0
1997	2,841	0	0	0	0	0	0	0	0	0	0	0
1998	4,724	0	0	0	0	0	0	0	0	0	0	0
1999	5,327	0	0	0	0	0	0	0	0	0	0	0
2000	7,453	0	0	0	0	0	0	0	0	0	0	0
2001	4,494	0	0	0	0	0	0	0	0	0	0	0
2002	3,106	25	25	0	0	0	0	0	0	0	0	0
2003	4,480	28	28	0	0	0	0	0	0	0	0	0
2004	7,603	0	0	0	0	0	0	0	0	0	0	0
2005	6,965	0	0	0	0	0	0	0	0	0	0	0
2006	8,913	0	0	0	0	0	0	0	0	0	0	0
2007	6,147	0	0	0	0	0	0	0	0	0	0	0
2008	6,140	0	0	0	0	0	0	0	0	0	0	0
2009	2,865	174	43	41	41	16	16	17	0	0	0	0
2010	1,362	0	0	0	0	0	0	0	0	0	0	0
2011	10,328	951	258	227	116	109	110	43	44	44	0	0
2012	7,179	0	0	0	0	0	0	0	0	0	0	0
2013	3,096	437	171	76	52	45	23	22	22	9	9	9
2014	5,268	1,097	409	269	120	81	71	36	34	34	14	28
2015	3,626	949	284	248	163	73	49	43	22	21	21	25
2016	8,082	1,844	494	404	353	232	103	70	62	31	30	65
2017	4,870	2,843	980	499	408	357	235	105	71	62	32	96
2018	13,138	6,723	2,416	1,484	755	618	541	355	158	107	94	194
2019	12,777	6,600	1,241	1,926	1,183	602	493	431	283	126	85	229
2020	6,699	6,563	525	1,135	1,762	1,082	551	451	394	259	115	288
2021	8,835		193	524	1,133	1,760	1,080	550	450	394	259	2,493
2022	8,978			196	691	1,495	2,321	1,425	725	594	519	1,012
2023	9,121				199	714	1,543	2,396	1,471	749	613	1,437
TOTAL	\$190,770	\$28,240	\$7,072	\$7,028	\$6,976	\$7,184	\$7,136	\$5,944	\$3,737	\$2,430	\$1,791	\$5,877

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
GENERAL LIABILITY
UNLIMITED

REPORTED CLAIM COUNTS

ACCIDENT YEAR*	\$0.01	\$5,000	\$10,000	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000	OVER	TOTAL	
	TO \$5,000	TO \$10,000	TO \$25,000	TO \$50,000	TO \$100,000	TO \$250,000	TO \$500,000	TO \$750,000	TO \$1,000,000			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior	3,785	3,762	312	389	252	191	171	69	30	9	21	8991
2010	15	42	9	5	6	9	2	0	0	0	0	88
2011	36	25	7	11	10	9	5	1	0	1	3	108
2012	59	23	4	8	6	4	5	1	0	0	1	111
2013	40	27	6	7	5	4	4	1	2	0	0	96
2014	18	23	3	7	8	3	8	1	3	1	0	75
2015	13	10	7	9	5	6	3	1	2	0	0	56
2016	21	13	7	5	1	6	7	0	3	2	1	66
2017	17	22	5	4	1	2	3	4	0	2	0	60
2018	36	75	4	12	5	3	6	4	2	0	1	148
2019	16	14	6	4	13	4	2	1	1	1	1	63
2020	18	21	4	7	4	1	0	0	0	0	1	56
TOTAL	4,074	4,057	374	468	316	242	216	83	43	16	29	9,918

REPORTED LOSSES

ACCIDENT YEAR*		\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
	\$0	\$5,000	\$10,000	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000	\$1,000,000	\$1,000,000	
Prior	(\$4,853)	\$3,177	\$2,242	\$6,449	\$8,946	\$13,546	\$26,357	\$23,643	\$18,038	\$7,914	\$42,019	\$147,477
2010	0	45	72	82	199	635	330	0	0	0	0	1,362
2011	0	40	47	166	341	692	653	286	0	999	7,253	10,477
2012	0	34	32	138	185	271	952	342	0	0	5,226	7,179
2013	0	51	44	103	187	321	580	350	1,213	0	0	2,848
2014	0	34	25	119	337	202	1,400	259	1,916	753	0	5,045
2015	0	10	60	171	232	411	694	300	1,102	0	0	2,979
2016	0	19	52	93	30	405	1,078	0	1,983	1,521	2,073	7,255
2017	0	28	34	60	45	160	500	1,246	0	1,706	0	3,780
2018	0	213	33	240	193	216	1,045	1,664	1,400	0	5,000	10,003
2019	0	31	59	99	580	332	450	500	650	1,000	5,032	8,733
2020	0	25	28	130	185	100	0	0	0	0	1,075	1,543
TOTAL	(\$4,853)	\$3,708	\$2,728	\$7,850	\$11,458	\$17,288	\$34,039	\$28,591	\$26,302	\$13,894	\$67,677	\$208,682

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							\$0
1994	\$614	\$614	\$614	\$614	\$614	\$614	0
1995	1,078	1,078	1,078	1,078	1,078	1,078	0
1996	245	245	245	245	245	245	0
1997	657	657	657	657	657	657	0
1998	1,630	1,630	1,630	1,630	1,630	1,630	0
1999	1,594	1,594	1,594	1,594	1,594	1,594	0
2000	857	857	857	857	857	857	0
2001	2,363	2,363	2,363	2,363	2,363	2,363	0
2002	1,737	1,737	1,737	1,737	1,737	1,737	0
2003	445	445	445	445	445	445	0
2004	965	965	965	965	965	965	0
2005	329	329	329	329	329	329	0
2006	510	510	510	510	510	510	0
2007	309	309	309	309	309	309	0
2008	418	418	418	418	418	418	0
2009	322	322	322	322	322	322	0
2010	2,813	2,813	2,813	2,813	2,813	2,813	0
2011	666	666	666	666	666	666	0
2012	1,891	1,891	1,891	1,891	1,891	1,891	0
2013	425	425	425	425	425	425	0
2014	618	618	618	618	618	618	0
2015	280	281	280	283	281	278	3
2016	211	218	213	226	217	210	7
2017	169	173	172	187	175	161	14
2018	490	303	486	469	437	258	179
2019	737	748	671	619	694	463	231
2020	421	397	383	415	404	145	259
TOTAL	\$22,794	\$22,606	\$22,693	\$22,687	\$22,697	\$22,003	\$693

Notes:

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

(5) = Average of (1), (2), (3) & (4).

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$614	0	0	\$614	\$614	0
1995	1,078	0	0	1,078	1,078	0
1996	245	0	0	245	245	0
1997	657	0	0	657	657	0
1998	1,630	0	0	1,630	1,630	0
1999	1,594	0	0	1,594	1,594	0
2000	857	0	0	857	857	0
2001	2,363	0	0	2,363	2,363	0
2002	1,737	0	0	1,737	1,737	0
2003	445	0	0	445	445	0
2004	965	0	0	965	965	0
2005	329	0	0	329	329	0
2006	510	0	0	510	510	0
2007	309	0	0	309	309	0
2008	418	0	0	418	418	0
2009	322	0	0	322	322	0
2010	2,813	0	0	2,813	2,813	0
2011	666	0	0	666	666	0
2012	1,891	0	0	1,891	1,891	0
2013	425	0	0	425	425	0
2014	618	0	0	618	618	0
2015	281	3	3	278	281	0
2016	217	7	5	210	215	2
2017	175	14	6	161	167	8
2018	437	179	99	258	356	80
2019	694	231	141	463	604	90
2020	404	259	110	145	255	149
2021	426		144		144	282
TOTAL	\$23,123	\$693	\$508	\$22,003	\$22,512	\$611

Notes:

(1) - For 2020 and prior, ultimate losses based from Exhibit III, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit III, Page 6A.

(2) - For 2020 and prior, loss reserves based from Exhibit III, Page 1A, Column (7).

(3) - From Exhibit III, Page 9.

(4) - From Exhibit III, Page 1A, Column (6).

(5) = (3) + (4)

(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$614	0	0	\$614	\$614	0
1995	1,078	0	0	1,078	1,078	0
1996	245	0	0	245	245	0
1997	657	0	0	657	657	0
1998	1,630	0	0	1,630	1,630	0
1999	1,594	0	0	1,594	1,594	0
2000	857	0	0	857	857	0
2001	2,363	0	0	2,363	2,363	0
2002	1,737	0	0	1,737	1,737	0
2003	445	0	0	445	445	0
2004	965	0	0	965	965	0
2005	329	0	0	329	329	0
2006	510	0	0	510	510	0
2007	309	0	0	309	309	0
2008	418	0	0	418	418	0
2009	322	0	0	322	322	0
2010	2,813	0	0	2,813	2,813	0
2011	666	0	0	666	666	0
2012	1,891	0	0	1,891	1,891	0
2013	425	0	0	425	425	0
2014	618	0	0	618	618	0
2015	281	0	0	281	281	0
2016	217	2	2	215	217	0
2017	175	8	6	167	173	2
2018	437	80	34	356	391	46
2019	694	90	49	604	653	40
2020	404	149	91	255	346	58
2021	426	282	113	144	258	168
2022	441		149		149	292
TOTAL	\$23,564	\$611	\$445	\$22,512	\$22,957	\$607

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit III, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit III, Page 6A.
(2) - For 2021 and prior, loss reserves based from Exhibit III, Page 1B, Column (6).
(3) - From Exhibit III, Page 9.
(4) - From Exhibit III, Page 1B, Column (5).
(5) = (3) + (4)
(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$614	0	0	\$614	\$614	0
1995	1,078	0	0	1,078	1,078	0
1996	245	0	0	245	245	0
1997	657	0	0	657	657	0
1998	1,630	0	0	1,630	1,630	0
1999	1,594	0	0	1,594	1,594	0
2000	857	0	0	857	857	0
2001	2,363	0	0	2,363	2,363	0
2002	1,737	0	0	1,737	1,737	0
2003	445	0	0	445	445	0
2004	965	0	0	965	965	0
2005	329	0	0	329	329	0
2006	510	0	0	510	510	0
2007	309	0	0	309	309	0
2008	418	0	0	418	418	0
2009	322	0	0	322	322	0
2010	2,813	0	0	2,813	2,813	0
2011	666	0	0	666	666	0
2012	1,891	0	0	1,891	1,891	0
2013	425	0	0	425	425	0
2014	618	0	0	618	618	0
2015	281	0	0	281	281	0
2016	217	0	0	217	217	0
2017	175	2	2	173	175	0
2018	437	46	34	391	424	13
2019	694	40	17	653	671	23
2020	404	58	32	346	378	26
2021	426	168	94	258	352	74
2022	441	292	120	149	269	172
2023	447		151		151	296
TOTAL	\$24,011	\$607	\$450	\$22,957	\$23,407	\$604

Notes:

(1) - For 2022 and prior, ultimate losses based from Exhibit III, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit III, Page 6A.

(2) - For 2022 and prior, loss reserves based from Exhibit III, Page 1C, Column (6).

(3) - From Exhibit III, Page 9.

(4) - From Exhibit III, Page 1C, Column (5).

(5) = (3) + (4)

(6) = (1) - (5)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED INCURRED LOSSES @6/30/2020	LOSS DEVLPMNT FACTORS	ULTIMATE INCURRED LOSSES	NUMBER OF VEHICLES	ESTIMATED LOSS RATE
(1)	(2)	(3)	(4)	(5)	
Prior					
1994	\$614	1.000	\$614	N/A	
1995	1,078	1.000	1,078	N/A	
1996	245	1.000	245	N/A	
1997	657	1.000	657	N/A	
1998	1,630	1.000	1,630	N/A	
1999	1,594	1.000	1,594	N/A	
2000	857	1.000	857	N/A	
2001	2,363	1.000	2,363	N/A	
2002	1,737	1.000	1,737	N/A	
2003	445	1.000	445	4,481	0.099
2004	965	1.000	965	3,545	0.272
2005	329	1.000	329	2,608	0.126
2006	510	1.000	510	2,608	0.196
2007	309	1.000	309	2,608	0.118
2008	418	1.000	418	2,700	0.155
2009	322	1.000	322	2,669	0.121
2010	2,813	1.000	2,813	2,696	1.043
2011	666	1.000	666	5,587	0.119
2012	1,891	1.000	1,891	6,334	0.299
2013	425	1.000	425	7,220	0.059
2014	618	1.000	618	7,275	0.085
2015	278	1.004	280	7,717	0.036
2016	210	1.008	211	7,717	0.027
2017	167	1.013	169	7,054	0.024
2018	469	1.045	490	7,089	0.069
2019	588	1.254	737	7,388	0.100
2020	194		421	7,366	0.057
TOTAL	\$22,394		\$22,794		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	UNLIMITED PAID LOSSES @6/30/2020	LOSS DEVLPMNT FACTORS	ULTIMATE INCURRED LOSSES	NUMBER OF VEHICLES	ESTIMATED LOSS RATE
(6)	(7)	(8)	(9)	(10)	
Prior					
1994	\$614	1.000	\$614	N/A	
1995	1,078	1.000	1,078	N/A	
1996	245	1.000	245	N/A	
1997	657	1.000	657	N/A	
1998	1,630	1.000	1,630	N/A	
1999	1,594	1.000	1,594	N/A	
2000	857	1.000	857	N/A	
2001	2,363	1.000	2,363	N/A	
2002	1,737	1.000	1,737	N/A	
2003	445	1.000	445	4,481	0.099
2004	965	1.000	965	3,545	0.272
2005	329	1.000	329	2,608	0.126
2006	510	1.000	510	2,608	0.196
2007	309	1.000	309	2,608	0.118
2008	418	1.000	418	2,700	0.155
2009	322	1.000	322	2,669	0.121
2010	2,813	1.000	2,813	2,696	1.043
2011	666	1.000	666	5,587	0.119
2012	1,891	1.000	1,891	6,334	0.299
2013	425	1.000	425	7,220	0.059
2014	618	1.000	618	7,275	0.085
2015	278	1.011	281	7,717	0.036
2016	210	1.040	218	7,717	0.028
2017	161	1.071	173	7,054	0.025
2018	258	1.174	303	7,089	0.043
2019	463	1.615	748	7,388	0.101
2020	145		397	7,366	0.054
TOTAL	\$22,003		\$22,606		

Notes:

(1), (4), (6) & (9) - Per STATE OF ALASKA.

(2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
AUTO LIABILITY
(AMOUNTS IN '000s)
UNLIMITED

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	NUMBER OF VEHICLES	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	0.056	N/A	\$614	0.0%	\$0	\$614	\$614
1995	0.056	N/A	1,078	0.0%	0	1,078	1,078
1996	0.056	N/A	245	0.0%	0	245	245
1997	0.056	N/A	657	0.0%	0	657	657
1998	0.056	N/A	1,630	0.0%	0	1,630	1,630
1999	0.056	N/A	1,594	0.0%	0	1,594	1,594
2000	0.056	N/A	857	0.0%	0	857	857
2001	0.056	N/A	2,363	0.0%	0	2,363	2,363
2002	0.056	N/A	1,737	0.0%	0	1,737	1,737
2003	0.056	4,481	249	0.0%	0	445	445
2004	0.056	3,545	197	0.0%	0	965	965
2005	0.056	2,608	145	0.0%	0	329	329
2006	0.056	2,608	145	0.0%	0	510	510
2007	0.056	2,608	145	0.0%	0	309	309
2008	0.056	2,700	150	0.0%	0	418	418
2009	0.056	2,669	148	0.0%	0	322	322
2010	0.056	2,696	150	0.0%	0	2,813	2,813
2011	0.056	5,587	310	0.0%	0	666	666
2012	0.056	6,334	352	0.0%	0	1,891	1,891
2013	0.056	7,220	401	0.0%	0	425	425
2014	0.056	7,275	404	0.0%	0	618	618
2015	0.056	7,717	428	0.4%	2	278	280
2016	0.056	7,717	428	0.8%	3	210	213
2017	0.056	7,054	392	1.3%	5	167	172
2018	0.056	7,089	394	4.3%	17	469	486
2019	0.056	7,388	410	20.3%	83	588	671
2020	0.056	7,366	409	46.2%	189	194	383
TOTAL			\$16,030		\$299	\$22,394	\$22,693

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	NUMBER OF VEHICLES	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior							
1994	0.056	N/A	\$614	0.0%	\$0	\$614	\$614
1995	0.056	N/A	1,078	0.0%	0	1,078	1,078
1996	0.056	N/A	245	0.0%	0	245	245
1997	0.056	N/A	657	0.0%	0	657	657
1998	0.056	N/A	1,630	0.0%	0	1,630	1,630
1999	0.056	N/A	1,594	0.0%	0	1,594	1,594
2000	0.056	N/A	857	0.0%	0	857	857
2001	0.056	N/A	2,363	0.0%	0	2,363	2,363
2002	0.056	N/A	1,737	0.0%	0	1,737	1,737
2003	0.056	4,481	249	0.0%	0	445	445
2004	0.056	3,545	197	0.0%	0	965	965
2005	0.056	2,608	145	0.0%	0	329	329
2006	0.056	2,608	145	0.0%	0	510	510
2007	0.056	2,608	145	0.0%	0	309	309
2008	0.056	2,700	150	0.0%	0	418	418
2009	0.056	2,669	148	0.0%	0	322	322
2010	0.056	2,696	150	0.0%	0	2,813	2,813
2011	0.056	5,587	310	0.0%	0	666	666
2012	0.056	6,334	352	0.0%	0	1,891	1,891
2013	0.056	7,220	401	0.0%	0	425	425
2014	0.056	7,275	404	0.0%	0	618	618
2015	0.056	7,717	428	1.1%	5	278	283
2016	0.056	7,717	428	3.8%	16	210	226
2017	0.056	7,054	392	6.7%	26	161	187
2018	0.056	7,089	394	14.8%	58	258	469
2019	0.056	7,388	410	38.1%	156	463	619
2020	0.056	7,366	409	66.1%	270	145	415
TOTAL			\$16,030		\$531	\$22,003	\$22,687

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit III, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit III, Columns (5) & (10).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	12	24	36	48	60	72	84	96	108	120	132	144
1994												614
1995											1,096	1,096
1996										245	245	245
1997									657	657	657	657
1998								1,630	1,630	1,630	1,630	1,630
1999							1,595	1,595	1,595	1,594	1,595	1,595
2000						852	857	857	857	857	857	857
2001					2,363	2,363	2,363	2,363	2,363	2,363	2,363	2,363
2002				1,078	1,827	1,737	1,737	1,737	1,737	1,737	1,737	1,737
2003			485	480	445	445	445	445	445	445	445	445
2004		549	648	954	969	970	964	964	965	965	965	965
2005	389	322	335	330	329	329	329	329	329	329	329	329
2006	403	183	286	419	454	554	512	512	512	512	512	510
2007	338	360	363	352	309	309	309	309	309	309	309	309
2008	299	487	449	420	418	418	418	418	418	418	418	418
2009	342	413	333	322	322	322	322	322	322	322	322	322
2010	1,197	2,807	2,875	2,935	2,935	2,813	2,813	2,813	2,813	2,813	2,813	
2011	334	522	663	663	664	667	666	666	666	666		
2012	321	1,127	1,452	1,471	1,471	1,483	1,971	1,891				
2013	380	437	423	443	425	425	425					
2014	264	316	361	496	493	618	618					
2015	181	208	283	278	278							
2016	172	157	224	210	210							
2017	148	148	167	167								
2018	265	258	469									
2019	252	588										
2020	194											

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	12 TO 24	24 TO 36	36 TO 48	48 TO 60	60 TO 72	72 TO 84	84 TO 96	96 TO 108	108 TO 120	120 TO 132	132 TO 144	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	0.999	1.001	1.000	1.000
2000						1.006	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
2002				1.695	0.951	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003			0.990	0.927	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004		1.180	1.472	1.016	1.001	0.994	1.000	1.001	1.000	1.000	1.000	1.000
2005	0.828	1.040	0.985	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001
2006	0.454	1.563	1.465	1.084	1.220	0.924	1.000	1.000	1.000	1.000	0.997	1.000
2007	1.065	1.008	0.970	0.878	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.629	0.922	0.935	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.208	0.806	0.967	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	
2010	2.345	1.024	1.021	1.000	0.958	1.000	1.000	1.000	1.000	1.000		
2011	1.563	1.270	1.000	1.002	1.005	0.999	1.000	1.000	1.000			
2012	3.511	1.288	1.013	1.000	1.008	1.329	0.960	1.000				
2013	1.150	0.968	1.047	0.959	1.000	1.000	1.000					
2014	1.197	1.142	1.373	0.994	1.254	1.000						
2015	1.149	1.359	0.985	1.000	1.000							
2016	0.913	1.425	0.937	1.000								
2017	0.995	1.128	1.003									
2018	0.972	1.818										
2019	2.329											
AVERAGE	1.421	1.196	1.078	1.036	1.026	1.017	0.997	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.432	1.457	0.975	0.998	1.085	1.110	0.987	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.334	1.178	1.058	0.998	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.039	1.309	1.012	0.998	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.501	1.191	1.032	1.005	1.004	1.003	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	1.366	1.145	1.072	1.029	1.011	1.004	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	1.481	1.200	1.032	1.005	1.004	1.004	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.858	1.254	1.045	1.013	1.008	1.004	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614
1995	1,096	1,078	1,096	1,096	1,096	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	
1996	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
1997	657	657	657	657	657	657	657	657	657	657	657	657			
1998	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630				
1999	1,595	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594				
2000	857	857	857	857	857	857	857	857							
2001	2,363	2,363	2,363	2,363	2,363	2,363	2,363	2,363							
2002	1,737	1,737	1,737	1,737	1,737	1,737	1,737								
2003	445	445	445	445	445	445									
2004	965	965	965	965	965										
2005	329	329	329	329											
2006	510	510	510												
2007	309	309													
2008	418														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
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	1.000
1995	0.984	1.017	1.000	1.000	0.984	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	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	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	1.000
1999	0.999	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	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	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	1.000
2003	1.000	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	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	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	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	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	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	1.000	1.000
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	0.999	1.001	1.000	1.000	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.	1.000	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	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	1.000
5 YR AVG 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	1.000
PRIOR 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	1.000
AM BEST	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	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	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												614
1995											1,078	1,078
1996										245	245	245
1997									657	657	657	657
1998								1,630	1,630	1,630	1,630	1,630
1999							1,594	1,594	1,594	1,594	1,594	1,595
2000						852	857	857	857	857	857	857
2001					2,363	2,363	2,363	2,363	2,363	2,363	2,363	2,363
2002				411	535	1,737	1,737	1,737	1,737	1,737	1,737	1,737
2003			445	445	445	445	445	445	445	445	445	445
2004		525	567	949	964	965	964	964	965	965	965	965
2005	183	255	329	329	329	329	329	329	329	329	329	329
2006	97	114	195	268	377	489	512	512	512	512	512	510
2007	258	303	309	309	309	309	309	309	309	309	309	309
2008	227	364	418	418	418	418	418	418	418	418	418	418
2009	259	297	322	322	322	322	322	322	322	322	322	322
2010	340	2,279	2,446	2,813	2,813	2,813	2,813	2,813	2,813	2,813	2,813	
2011	130	260	663	663	664	666	666	666	666	666		
2012	310	352	1,343	1,349	1,363	1,383	1,883	1,891	1,891			
2013	355	362	423	425	425	425	425	425				
2014	209	266	336	426	464	618	618					
2015	100	192	278	278	278	278						
2016	95	154	207	210	210							
2017	95	144	158	161								
2018	162	207	258									
2019	69	463										
2020	145											

PAID 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
	24	36	48	60	72	84	96	108	120	132	144	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	1.001	1.000
2000						1.006	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
2002				1.302	3.247	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
2004		1.080	1.674	1.016	1.001	0.999	1.000	1.001	1.000	1.000	1.000	1.000
2005	1.393	1.290	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001
2006	1.175	1.711	1.374	1.407	1.297	1.047	1.000	1.000	1.000	1.000	0.997	1.000
2007	1.174	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.604	1.148	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.147	1.084	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	
2010	6.703	1.073	1.150	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
2011	2.000	2.550	1.000	1.002	1.003	1.000	1.000	1.000	1.000			
2012	1.135	3.815	1.004	1.010	1.014	1.362	1.004	1.000				
2013	1.020	1.169	1.005	1.000	1.000	1.000	1.000					
2014	1.273	1.263	1.267	1.089	1.333	1.000						
2015	1.920	1.450	1.000	1.000	1.000							
2016	1.620	1.348	1.010	1.000								
2017	1.525	1.094	1.022									
2018	1.279	1.245										
2019	6.693											
AVERAGE	2.111	1.489	1.100	1.055	1.193	1.028	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	3.166	1.229	1.011	1.030	1.111	1.121	1.001	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.841	1.347	1.064	1.032	1.050	1.004	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.688	1.285	1.012	1.003	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.787	1.380	1.101	1.030	1.022	1.008	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	2.114	1.442	1.234	1.111	1.048	1.021	1.010	1.005	1.002	1.002	1.001	1.001
SELECTED	1.829	1.376	1.096	1.030	1.029	1.011	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	2.952	1.615	1.174	1.071	1.040	1.011	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
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CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614
1995	1,078	1,078	1,078	1,096	1,096	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	614
1996	245	245	245	245	245	245	245	245	245	245	245	245	245	245	
1997	657	657	657	657	657	657	657	657	657	657	657	657	657		
1998	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630		
1999	1,595	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594	1,594		
2000	857	857	857	857	857	857	857	857	857	857					
2001	2,363	2,363	2,363	2,363	2,363	2,363	2,363	2,363	2,363						
2002	1,737	1,737	1,737	1,737	1,737	1,737	1,737								
2003	445	445	445	445	445	445									
2004	965	965	965	965	965										
2005	329	329	329	329											
2006	510	510	510												
2007	309	309													
2008	418														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
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	1.017	1.000	0.984	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	1.000	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		
1999	0.999	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	1.001	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		
2019	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	1.000	1.001	1.000	0.998	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 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	
PRIOR 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	
AM BEST	1.001	1.001	1.001	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
AUTO LIABILITY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												348
1995											416	416
1996										308	308	308
1997									330	330	330	330
1998								343	343	343	343	343
1999							404	404	404	404	404	404
2000						314	314	314	314	314	314	314
2001					298	298	298	298	298	298	298	298
2002				313	313	313	313	313	313	313	313	313
2003			223	223	223	223	223	223	223	223	223	223
2004		302	302	302	302	302	302	302	302	300	300	300
2005	263	275	276	276	276	276	276	276	274	274	274	274
2006	84	95	96	96	96	96	96	96	96	96	96	96
2007	147	159	159	159	159	159	159	159	159	159	159	159
2008	160	171	172	172	172	172	172	172	172	172	172	172
2009	147	175	175	175	172	172	173	173	172	172	172	172
2010	181	187	187	187	187	187	187	187	187	187	187	
2011	170	183	183	183	183	183	183	183	183	183		
2012	271	291	291	294	294	291	291	291	291			
2013	218	231	233	234	233	233	233	233				
2014	169	176	178	178	178	178	178					
2015	102	108	109	109	108	108						
2016	85	88	89	89	89							
2017	72	83	83	83								
2018	107	122	126									
2019	45	83										
2020	36											

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
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						1.000	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	1.003
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	1.013
2004		1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.993	1.000	1.000	1.000
2005	1.046	1.004	1.000	1.000	1.000	1.000	1.000	0.993	1.000	1.000	1.000	1.000
2006	1.131	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.082	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.069	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.190	1.000	1.000	0.983	1.000	1.006	1.000	0.994	1.000	1.000	1.000	
2010	1.033	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
2011	1.076	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	1.074	1.000	1.010	1.000	0.990	1.000	1.000	1.000				
2013	1.060	1.009	1.004	0.996	1.000	1.000	1.000					
2014	1.041	1.011	1.000	1.000	1.000	1.000						
2015	1.059	1.009	1.000	0.991	1.000							
2016	1.035	1.011	1.000	1.000								
2017	1.153	1.000	1.000									
2018	1.140	1.033										
2019	1.844											
AVERAGE	1.136	1.006	1.001	0.998	0.999	1.000	1.000	0.999	1.000	1.000	1.000	1.001
3 YR AVG.	1.379	1.015	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.089	1.005	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.117	1.010	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.074	1.007	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.085	1.007	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.092	1.007	0.999	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
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CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
AUTO LIABILITY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348
1995	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
1996	308	308	308	308	308	308	308	308	308	307	307	307	307	307	307
1997	330	330	330	330	330	330	330	330	330	328	328	328	328	328	328
1998	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
1999	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404
2000	314	313	313	313	313	313	313	313	313	313	313	313	313	313	313
2001	299	299	299	299	299	299	284	284	284	284	284	284	284	284	284
2002	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
2003	226	226	221	221	221	221	221	221	221	221	221	221	221	221	221
2004	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
2005	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274
2006	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
2007	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159
2008	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
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	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	1.000
1996	1.000	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	1.000
1997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.994	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	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	1.000
2000	0.997	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	0.950	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	1.000
2003	1.000	0.978	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	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	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	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	1.000	1.000
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.000	0.998	1.000	1.000	0.995	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.000	1.000	1.000	1.000	0.983	1.000	1.000	1.000	0.998	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	0.999	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.000	1.000	1.000	1.000	0.999	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	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	0.998	0.998	0.999	0.999	0.999	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	3	0.985	3	0
2016	7	0.977	7	0
2017	14	0.964	13	0
2018	179	0.963	172	7
2019	231	0.966	223	8
2020	259	0.958	248	11
TOTAL	\$693		\$667	\$26

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$667
75%	1,106
85%	1,516
95%	2,402

Notes:

(1) - Per Exhibit III, Page 1A, Column (7).

(2) - Per AMI calculations, see Appendix A, Page 3.

(3) = (1) x (2).

(4) = (3) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	2	0.985	2	0
2017	8	0.977	8	0
2018	80	0.964	78	3
2019	90	0.963	86	3
2020	149	0.966	144	5
2021	282	0.958	270	12
TOTAL	\$611		\$588	\$23

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$588
75%	974
85%	1,335
95%	2,116

Notes:

- (1) - Per Exhibit III, Page 1B, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 3.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	2	0.985	2	0
2018	46	0.977	45	1
2019	40	0.964	39	1
2020	58	0.963	56	2
2021	168	0.966	163	6
2022	292	0.958	279	12
TOTAL	\$607		\$584	\$23

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$584
75%	968
85%	1,327
95%	2,103

Notes:

- (1) - Per Exhibit III, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 3.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	13	0.985	13	0
2019	23	0.977	23	1
2020	26	0.964	25	1
2021	74	0.963	72	3
2022	172	0.966	166	6
2023	296	0.958	283	12
TOTAL	\$604		\$581	\$23

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$581
75%	963
85%	1,321
95%	2,093

Notes:

- (1) - Per Exhibit III, Page 1D, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 3.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	NUMBER OF VEHICLES	LOSS RATE
	(1)	(2)	(3)
Prior			
1994	\$614	N/A	
1995	1,078	N/A	
1996	245	N/A	
1997	657	N/A	
1998	1,630	N/A	
1999	1,594	N/A	
2000	857	N/A	
2001	2,363	N/A	
2002	1,737	N/A	
2003	445	4,481	0.099
2004	965	3,545	0.272
2005	329	2,608	0.126
2006	510	2,608	0.196
2007	309	2,608	0.118
2008	418	2,700	0.155
2009	322	2,669	0.121
2010	2,813	2,696	1.043
2011	666	5,587	0.119
2012	1,891	6,334	0.299
2013	425	7,220	0.059
2014	618	7,275	0.085
2015	281	7,717	0.036
2016	217	7,717	0.028
2017	175	7,054	0.025
2018	437	7,089	0.062
2019	694	7,388	0.094
2020	404	7,366	0.055
(PROJ.) 2020/2021	\$426	7,212	0.059
(PROJ.) 2021/2022	441	7,400	0.060
(PROJ.) 2022/2023	447	7,425	0.060

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$426	0.949	\$404	\$22
2022	441	0.949	418	23
2023	447	0.949	424	23

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$404	\$411	\$591	\$1,321
2022	418	425	612	1,367
2023	424	431	620	1,387

Notes:

(1) - Per Exhibit III, Page 1A, Column (5). For projected years, (1) = (2) x (3).

(2) - Per STATE OF ALASKA.

(3) = (1) / (2). For the projected years, it is the trended average of prior years.

(4) = (1); (5) - Per Appendix A, Page 3, Column (7).

(6) = (4) x (5); (7) = (4) - (6).

(8) = (6).

(9) to (11) - Based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
AUTO LIABILITY
(\$AMOUNTS IN '000s)
LOSSES LIMITED TO \$1MM RETENTION

FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS LIMITED TO \$1MM RETENTION

ACCIDENT YEAR*	PROJECTED UNLIMITED LOSSES	RETENTION FACTORS	EXPECTED FUNDING AMOUNT AT RETENTION LIMIT
	(1)	(2)	(3)
2021	\$426	0.700	\$298
2022	441	0.700	309
2023	447	0.700	313

Notes:

(1) - Per Exhibit III, Page 6A, Column (4).

(2) - Based on industry increased limits factors for the STATE OF ALASKA.

(3) = (1) * (2)

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
AUTO LIABILITY
UNLIMITED

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	NUMBER OF VEHICLES	NUMBER OF CLAIMS PER 1,000 VEHICLES (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	348	1.000	348	\$614	N/A		\$1765
1995	416	1.000	416	1,078	N/A		2,591
1996	307	1.000	307	245	N/A		798
1997	328	1.000	328	657	N/A		2,004
1998	343	1.000	343	1,630	N/A		4,752
1999	404	1.000	404	1,594	N/A		3,946
2000	313	1.000	313	857	N/A		2,739
2001	284	1.000	284	2,363	N/A		8,324
2002	313	1.000	313	1,737	N/A		5,551
2003	221	1.000	221	445	4,481	49	2,015
2004	300	0.999	300	965	3,545	85	3,220
2005	274	0.999	274	329	2,608	105	1,204
2006	96	0.999	96	510	2,608	37	5,323
2007	159	0.998	159	309	2,608	61	1,946
2008	172	0.998	172	418	2,700	64	2,435
2009	172	0.998	172	322	2,669	64	1,877
2010	187	0.998	187	2,813	2,696	69	15,066
2011	183	0.998	183	666	5,587	33	3,647
2012	291	0.998	291	1,891	6,334	46	6,510
2013	233	0.998	233	425	7,220	32	1,827
2014	178	0.998	178	618	7,275	24	3,477
2015	108	0.998	108	281	7,717	14	2,608
2016	89	0.998	89	217	7,717	12	2,440
2017	83	0.998	83	175	7,054	12	2,117
2018	126	0.999	126	437	7,089	18	3,470
2019	83	1.007	84	694	7,388	11	8,302
2020	36	1.092	155	404	7,366	21	2,599
TOTAL	6,047		6,163	\$22,697			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2). For the latest year, it is (6) x (5)/1000.

(4) = Exhibit III, Page 1A, Column (5).

(6) = [(3) / [(5) / 1000]] ; (7) = [(3) / (4)] x 1000. For the latest year, it is the average of prior years.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
AUTO LIABILITY
UNLIMITED

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	33.9%	61.9%	85.2%	93.3%	96.2%	98.9%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	33.9%	28.1%	23.3%	8.1%	2.8%	2.8%	1.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		42.4%	35.2%	12.3%	4.3%	4.2%	1.6%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	33.9%	28.1%	23.3%	8.1%	2.8%	2.8%	1.0%	0.0%	0.0%	0.0%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	\$614	0	0	0	0	0	0	0	0	0	0	0
1995	1,078	0	0	0	0	0	0	0	0	0	0	0
1996	245	0	0	0	0	0	0	0	0	0	0	0
1997	657	0	0	0	0	0	0	0	0	0	0	0
1998	1,630	0	0	0	0	0	0	0	0	0	0	0
1999	1,594	0	0	0	0	0	0	0	0	0	0	0
2000	857	0	0	0	0	0	0	0	0	0	0	0
2001	2,363	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
2003	445	0	0	0	0	0	0	0	0	0	0	0
2004	965	0	0	0	0	0	0	0	0	0	0	0
2005	329	0	0	0	0	0	0	0	0	0	0	0
2006	510	0	0	0	0	0	0	0	0	0	0	0
2007	309	0	0	0	0	0	0	0	0	0	0	0
2008	418	0	0	0	0	0	0	0	0	0	0	0
2009	322	0	0	0	0	0	0	0	0	0	0	0
2010	2,813	0	0	0	0	0	0	0	0	0	0	0
2011	666	0	0	0	0	0	0	0	0	0	0	0
2012	1,891	0	0	0	0	0	0	0	0	0	0	0
2013	425	0	0	0	0	0	0	0	0	0	0	0
2014	618	0	0	0	0	0	0	0	0	0	0	0
2015	281	3	3	0	0	0	0	0	0	0	0	0
2016	217	7	5	2	0	0	0	0	0	0	0	0
2017	175	14	6	6	2	0	0	0	0	0	0	0
2018	437	179	99	34	34	13	0	0	0	0	0	0
2019	694	231	141	49	17	17	6	0	0	0	0	0
2020	404	259	110	91	32	11	11	4	0	0	0	0
2021	426		144	113	94	33	11	11	4	0	0	15
2022	441			149	120	99	35	12	12	4	0	10
2023	447				151	125	104	36	13	12	5	0
TOTAL	\$24,011	\$693	\$508	\$445	\$450	\$298	\$167	\$64	\$29	\$17	\$5	\$25

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
AUTO LIABILITY
UNLIMITED

REPORTED CLAIM COUNTS

ACCIDENT YEAR*	\$0	\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior	2,184	7,328	168	111	55	26	8	10	3	1	2	9896
2010	39	158	7	1	3	2	0	0	0	0	1	211
2011	56	137	3	4	0	0	0	1	0	0	0	201
2012	180	145	11	3	0	0	0	0	1	0	1	341
2013	147	102	9	8	1	1	0	0	0	0	0	268
2014	36	131	4	3	2	0	2	0	0	0	0	178
2015	25	77	1	2	2	0	1	0	0	0	0	108
2016	32	47	7	2	0	1	0	0	0	0	0	89
2017	27	45	5	6	0	0	0	0	0	0	0	83
2018	47	62	9	5	1	1	1	0	0	0	0	126
2019	21	47	8	3	2	1	0	1	0	0	0	83
2020	7	19	6	3	0	1	0	0	0	0	0	36
TOTAL	2,801	8,298	238	151	66	33	12	12	4	1	4	11,620

REPORTED LOSSES

ACCIDENT YEAR*	\$0	\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
Prior	(\$1)	\$5,150	\$1,167	\$1,766	\$1,888	\$1,912	\$1,254	\$3,442	\$1,932	\$975	\$3,373	\$22,856
2010	0	157	48	11	113	161	0	0	0	0	2,323	2,813
2011	0	122	18	60	0	0	0	466	0	0	0	666
2012	0	150	78	41	0	0	0	0	571	0	1,053	1,891
2013	0	124	63	133	48	57	0	0	0	0	0	425
2014	0	140	26	45	96	0	311	0	0	0	0	618
2015	0	83	5	31	57	0	102	0	0	0	0	278
2016	0	67	49	29	0	65	0	0	0	0	0	210
2017	0	51	34	82	0	0	0	0	0	0	0	167
2018	0	87	69	67	30	100	116	0	0	0	0	469
2019	0	73	58	32	66	80	0	278	0	0	0	588
2020	0	37	44	55	0	57	0	0	0	0	0	194
TOTAL	(\$1)	\$6,204	\$1,658	\$2,353	\$2,298	\$2,432	\$1,783	\$4,185	\$2,503	\$975	\$6,748	\$31,175

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	\$961	\$961	\$961	\$961	\$961	\$961	\$0
1995	2,768	2,768	2,768	2,768	2,768	2,768	0
1996	1,185	1,185	1,185	1,185	1,185	1,185	0
1997	3,264	3,264	3,264	3,264	3,264	3,264	0
1998	1,711	1,711	1,711	1,711	1,711	1,711	0
1999	1,982	1,982	1,982	1,982	1,982	1,982	0
2000	3,044	3,044	3,044	3,044	3,044	3,044	0
2001	3,531	3,531	3,531	3,531	3,531	3,531	0
2002	3,514	3,514	3,514	3,514	3,514	3,514	0
2003	2,943	2,943	2,943	2,943	2,943	2,943	0
2004	1,408	1,408	1,408	1,408	1,408	1,408	0
2005	667	667	667	667	667	667	0
2006	965	965	965	965	965	965	0
2007	1,936	1,936	1,936	1,936	1,936	1,936	0
2008	596	596	596	596	596	596	0
2009	1,332	1,332	1,332	1,332	1,332	1,332	0
2010	133	133	133	133	133	133	0
2011	660	660	660	660	660	660	0
2012	642	642	642	642	642	642	0
2013	814	814	814	814	814	814	0
2014	120	120	120	120	120	120	0
2015	265	266	265	265	265	265	0
2016	539	541	539	541	539	539	0
2017	230	232	232	235	229	229	0
2018	654	619	642	619	633	524	109
2019	406	420	409	422	414	258	156
2020	450	447	199	359	419	52	366
TOTAL	\$36,720	\$36,701	\$36,462	\$36,617	\$36,677	\$36,044	\$633

Notes:

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

(5) = Average of (1), (2), (3) & (4).

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$961	0	0	\$961	\$961	0
1995	2,768	0	0	2,768	2,768	0
1996	1,185	0	0	1,185	1,185	0
1997	3,264	0	0	3,264	3,264	0
1998	1,711	0	0	1,711	1,711	0
1999	1,982	0	0	1,982	1,982	0
2000	3,044	0	0	3,044	3,044	0
2001	3,531	0	0	3,531	3,531	0
2002	3,514	0	0	3,514	3,514	0
2003	2,943	0	0	2,943	2,943	0
2004	1,408	0	0	1,408	1,408	0
2005	667	0	0	667	667	0
2006	965	0	0	965	965	0
2007	1,936	0	0	1,936	1,936	0
2008	596	0	0	596	596	0
2009	1,332	0	0	1,332	1,332	0
2010	133	0	0	133	133	0
2011	660	0	0	660	660	0
2012	642	0	0	642	642	0
2013	814	0	0	814	814	0
2014	120	0	0	120	120	0
2015	265	0	0	265	265	0
2016	539	0	0	539	539	0
2017	229	0	0	229	229	0
2018	633	109	99	524	623	10
2019	414	156	95	258	353	62
2020	419	366	160	52	212	207
2021	474		150		150	324
TOTAL	\$37,151	\$633	\$504	\$36,044	\$36,548	\$603

Notes:

- (1) - For 2020 and prior, ultimate losses based from Exhibit IV, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit IV, Page 6.
(2) - For 2020 and prior, loss reserves based from Exhibit IV, Page 1A, Column (7).
(3) - From Exhibit IV, Page 9.
(4) - From Exhibit IV, Page 1A, Column (6).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$961	0	0	\$961	\$961	0
1995	2,768	0	0	2,768	2,768	0
1996	1,185	0	0	1,185	1,185	0
1997	3,264	0	0	3,264	3,264	0
1998	1,711	0	0	1,711	1,711	0
1999	1,982	0	0	1,982	1,982	0
2000	3,044	0	0	3,044	3,044	0
2001	3,531	0	0	3,531	3,531	0
2002	3,514	0	0	3,514	3,514	0
2003	2,943	0	0	2,943	2,943	0
2004	1,408	0	0	1,408	1,408	0
2005	667	0	0	667	667	0
2006	965	0	0	965	965	0
2007	1,936	0	0	1,936	1,936	0
2008	596	0	0	596	596	0
2009	1,332	0	0	1,332	1,332	0
2010	133	0	0	133	133	0
2011	660	0	0	660	660	0
2012	642	0	0	642	642	0
2013	814	0	0	814	814	0
2014	120	0	0	120	120	0
2015	265	0	0	265	265	0
2016	539	0	0	539	539	0
2017	229	0	0	229	229	0
2018	633	10	7	623	631	3
2019	414	62	56	353	409	6
2020	419	207	125	212	337	82
2021	474	324	125	150	275	199
2022	499		157		157	341
TOTAL	\$37,650	\$603	\$471	\$36,548	\$37,019	\$631

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit IV, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit IV, Page 6.
(2) - For 2021 and prior, loss reserves based from Exhibit IV, Page 1B, Column (6).
(3) - From Exhibit IV, Page 9.
(4) - From Exhibit IV, Page 1B, Column (5).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$961	0	0	\$961	\$961	0
1995	2,768	0	0	2,768	2,768	0
1996	1,185	0	0	1,185	1,185	0
1997	3,264	0	0	3,264	3,264	0
1998	1,711	0	0	1,711	1,711	0
1999	1,982	0	0	1,982	1,982	0
2000	3,044	0	0	3,044	3,044	0
2001	3,531	0	0	3,531	3,531	0
2002	3,514	0	0	3,514	3,514	0
2003	2,943	0	0	2,943	2,943	0
2004	1,408	0	0	1,408	1,408	0
2005	667	0	0	667	667	0
2006	965	0	0	965	965	0
2007	1,936	0	0	1,936	1,936	0
2008	596	0	0	596	596	0
2009	1,332	0	0	1,332	1,332	0
2010	133	0	0	133	133	0
2011	660	0	0	660	660	0
2012	642	0	0	642	642	0
2013	814	0	0	814	814	0
2014	120	0	0	120	120	0
2015	265	0	0	265	265	0
2016	539	0	0	539	539	0
2017	229	0	0	229	229	0
2018	633	3	2	631	632	1
2019	414	6	4	409	413	2
2020	419	82	74	337	411	8
2021	474	199	98	275	372	102
2022	499	341	141	157	299	200
2023	517		163		163	354
TOTAL	\$38,167	\$631	\$483	\$37,019	\$37,501	\$665

Notes:

- (1) - For 2022 and prior, ultimate losses based from Exhibit IV, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit IV, Page 6.
(2) - For 2022 and prior, loss reserves based from Exhibit IV, Page 1C, Column (6).
(3) - From Exhibit IV, Page 9.
(4) - From Exhibit IV, Page 1C, Column (5).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED INCURRED LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	PROPERTY VALUE (\$MM)	ESTIMATED LOSS RATE
	(1)	(2)	(3)	(4)	(5)
Prior					
1994	\$961	1.000	\$961	N/A	
1995	2,768	1.000	2,768	N/A	
1996	1,185	1.000	1,185	N/A	
1997	3,264	1.000	3,264	N/A	
1998	1,711	1.000	1,711	N/A	
1999	1,982	1.000	1,982	N/A	
2000	3,044	1.000	3,044	N/A	
2001	3,531	1.000	3,531	N/A	
2002	3,514	1.000	3,514	N/A	
2003	2,943	1.000	2,943	3,319	887
2004	1,408	1.000	1,408	3,518	400
2005	667	1.000	667	4,059	164
2006	965	1.000	965	4,177	231
2007	1,936	1.000	1,936	4,245	456
2008	596	1.000	596	4,372	136
2009	1,332	1.000	1,332	4,503	296
2010	133	1.000	133	4,638	29
2011	660	1.000	660	4,713	140
2012	642	1.000	642	4,695	137
2013	814	1.000	814	5,132	159
2014	120	1.000	120	5,849	21
2015	265	1.000	265	6,090	44
2016	539	1.000	539	7,507	72
2017	229	1.008	230	7,436	31
2018	619	1.057	654	7,241	90
2019	337	1.203	406	7,298	56
2020	54		450	7,701	58
TOTAL	\$36,219		\$36,720		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED PAID LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	PROPERTY VALUE (\$MM)	ESTIMATED LOSS RATE
	(6)	(7)	(8)	(9)	(10)
Prior					
1994	\$961	1.000	\$961	N/A	
1995	2,768	1.000	2,768	N/A	
1996	1,185	1.000	1,185	N/A	
1997	3,264	1.000	3,264	N/A	
1998	1,711	1.000	1,711	N/A	
1999	1,982	1.000	1,982	N/A	
2000	3,044	1.000	3,044	N/A	
2001	3,531	1.000	3,531	N/A	
2002	3,514	1.000	3,514	N/A	
2003	2,943	1.000	2,943	3,319	887
2004	1,408	1.000	1,408	3,518	400
2005	667	1.000	667	4,059	164
2006	965	1.000	965	4,177	231
2007	1,936	1.000	1,936	4,245	456
2008	596	1.000	596	4,372	136
2009	1,332	1.000	1,332	4,503	296
2010	133	1.000	133	4,638	29
2011	660	1.000	660	4,713	140
2012	642	1.000	642	4,695	137
2013	814	1.000	814	5,132	159
2014	120	1.000	120	5,849	21
2015	265	1.001	266	6,090	44
2016	539	1.004	541	7,507	72
2017	229	1.014	232	7,436	31
2018	524	1.180	619	7,241	85
2019	258	1.628	420	7,298	58
2020	52		447	7,701	58
TOTAL	\$36,044		\$36,701		

Notes:

- (1), (4), (6) & (9) - Per STATE OF ALASKA.
 (2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PROPERTY VALUE (\$MM)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	58.217	N/A	\$961	0.0%	\$0	\$961	\$961
1995	58.217	N/A	2,768	0.0%	0	2,768	2,768
1996	58.217	N/A	1,185	0.0%	0	1,185	1,185
1997	58.217	N/A	3,264	0.0%	0	3,264	3,264
1998	58.217	N/A	1,711	0.0%	0	1,711	1,711
1999	58.217	N/A	1,982	0.0%	0	1,982	1,982
2000	58.217	N/A	3,044	0.0%	0	3,044	3,044
2001	58.217	N/A	3,531	0.0%	0	3,531	3,531
2002	58.217	N/A	3,514	0.0%	0	3,514	3,514
2003	58.217	3,319	193	0.0%	0	2,943	2,943
2004	58.217	3,518	205	0.0%	0	1,408	1,408
2005	58.217	4,059	236	0.0%	0	667	667
2006	58.217	4,177	243	0.0%	0	965	965
2007	58.217	4,245	247	0.0%	0	1,936	1,936
2008	58.217	4,372	255	0.0%	0	596	596
2009	58.217	4,503	262	0.0%	0	1,332	1,332
2010	58.217	4,638	270	0.0%	0	133	133
2011	58.217	4,713	274	0.0%	0	660	660
2012	58.217	4,695	273	0.0%	0	642	642
2013	58.217	5,132	299	0.0%	0	814	814
2014	58.217	5,849	341	0.0%	0	120	120
2015	58.217	6,090	355	0.0%	0	265	265
2016	58.217	7,507	437	0.0%	0	539	539
2017	58.217	7,436	433	0.8%	3	229	232
2018	58.217	7,241	422	5.4%	23	619	642
2019	58.217	7,298	425	16.9%	72	337	409
2020	58.217	7,701	448	32.4%	145	54	199
TOTAL			\$27,578		\$243	\$36,219	\$36,462

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PROPERTY VALUE (\$MM)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior							
1994	58.217	N/A	\$961	0.0%	\$0	\$961	\$961
1995	58.217	N/A	2,768	0.0%	0	2,768	2,768
1996	58.217	N/A	1,185	0.0%	0	1,185	1,185
1997	58.217	N/A	3,264	0.0%	0	3,264	3,264
1998	58.217	N/A	1,711	0.0%	0	1,711	1,711
1999	58.217	N/A	1,982	0.0%	0	1,982	1,982
2000	58.217	N/A	3,044	0.0%	0	3,044	3,044
2001	58.217	N/A	3,531	0.0%	0	3,531	3,531
2002	58.217	N/A	3,514	0.0%	0	3,514	3,514
2003	58.217	3,319	193	0.0%	0	2,943	2,943
2004	58.217	3,518	205	0.0%	0	1,408	1,408
2005	58.217	4,059	236	0.0%	0	667	667
2006	58.217	4,177	243	0.0%	0	965	965
2007	58.217	4,245	247	0.0%	0	1,936	1,936
2008	58.217	4,372	255	0.0%	0	596	596
2009	58.217	4,503	262	0.0%	0	1,332	1,332
2010	58.217	4,638	270	0.0%	0	133	133
2011	58.217	4,713	274	0.0%	0	660	660
2012	58.217	4,695	273	0.0%	0	642	642
2013	58.217	5,132	299	0.0%	0	814	814
2014	58.217	5,849	341	0.0%	0	120	120
2015	58.217	6,090	355	0.1%	0	265	265
2016	58.217	7,507	437	0.4%	2	539	541
2017	58.217	7,436	433	1.4%	6	229	235
2018	58.217	7,241	422	15.2%	64	524	619
2019	58.217	7,298	425	38.6%	164	258	422
2020	58.217	7,701	448	68.4%	307	52	359
TOTAL			\$27,578		\$543	\$36,044	\$36,617

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit IV, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit IV, Columns (5) & (10).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												961
1995											2,768	2,768
1996										1,185	1,185	1,185
1997									3,264	3,264	3,264	3,264
1998								1,711	1,711	1,711	1,711	1,711
1999							1,981	1,982	1,982	1,982	1,982	1,939
2000						3,068	3,048	3,044	3,044	3,044	2,977	2,977
2001					3,503	3,532	3,532	3,531	3,532	3,204	3,204	3,531
2002				3,013	3,184	3,511	3,512	3,514	3,355	3,355	3,514	3,514
2003			2,606	2,610	2,791	2,942	2,946	2,911	2,912	2,944	2,943	2,943
2004		1,408	1,477	1,479	1,492	1,413	1,408	1,408	1,408	1,408	1,408	1,408
2005	737	962	687	667	682	682	682	667	667	667	667	667
2006	685	749	749	938	1,158	1,058	965	965	965	965	965	965
2007	1,670	1,977	1,966	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
2008	132	669	690	596	596	596	596	596	596	596	596	596
2009	884	1,104	1,336	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332
2010	155	159	133	133	133	133	133	133	133	133	133	
2011	1,018	565	660	660	660	660	660	660	660	660		
2012	1,192	629	866	652	642	642	642	642	642			
2013	417	654	789	880	880	814	814	814				
2014	192	120	120	120	120	120	120					
2015	45	43	66	196	265	265						
2016	446	1,181	1,150	645	539							
2017	387	224	235	229								
2018	805	824	619									
2019	400	337										
2020	54											

INCURRED 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
	24	36	48	60	72	84	96	108	120	132	144	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	0.977
1999							1.001	1.000	1.000	1.000	0.978	0.999
2000						0.993	0.999	1.000	1.000	0.978	1.000	1.023
2001					1.008	1.000	1.000	1.000	0.907	1.000	1.102	1.000
2002				1.057	1.103	1.000	1.001	0.955	1.000	1.047	1.000	1.000
2003			1.002	1.069	1.054	1.001	0.988	1.000	1.011	1.000	1.000	1.000
2004		1.049	1.001	1.009	0.947	0.996	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.305	0.714	0.971	1.022	1.000	1.000	0.978	1.000	1.000	1.000	1.000	1.000
2006	1.093	1.000	1.252	1.235	0.914	0.912	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.184	0.994	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	5.068	1.031	0.864	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000
2009	1.249	1.210	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.026	0.836	1.000	1.000	1.000	1.000	1.004	1.000	1.000	1.000		
2011	0.555	1.168	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	0.528	1.377	0.753	0.985	1.001	1.000	1.000	1.000				
2013	1.568	1.206	1.115	1.000	0.926	1.000	1.000					
2014	0.625	1.000	0.997	1.000	1.000	1.000						
2015	0.956	1.527	2.979		1.000							
2016	2.648	0.974	0.561	0.834								
2017	0.578	1.051	0.972									
2018	1.024	0.750										
2019	0.843											
AVERAGE	1.350	1.059	1.097	1.038	0.997	0.993	0.998	0.997	0.995	1.002	1.005	1.000
3 YR AVG.	0.815	0.925	1.504	1.063	0.975	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.127	1.050	0.993	1.029	0.995	0.999	0.999	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	0.941	1.008	1.028	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.249	1.152	1.037	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	1.366	1.145	1.072	1.029	1.011	1.004	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	1.230	1.138	1.049	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.480	1.203	1.057	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	961	961	961	961	957	957	961	961	961	961	961	961	961	961	961
1995	2,768	2,768	2,768	2,755	2,755	2,768	2,768	2,768	2,768	2,768	2,768	2,768	2,768	2,768	2,768
1996	1,185	1,185	1,172	1,172	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185
1997	3,264	3,186	3,186	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264
1998	1,671	1,671	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711
1999	1,938	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982
2000	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044
2001	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531
2002	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514
2003	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943	2,943
2004	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
2005	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667
2006	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965
2007	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
2008	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO	168 TO	180 TO	192 TO	204 TO	216 TO	228 TO	240 TO	252 TO	264 TO	276 TO	288 TO	300 TO	312 TO	324 TO
	168	180	192	204	216	228	240	252	264	276	288	300	312	324	ULT
1994	1.000	1.000	1.000	0.996	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995	1.000	1.000	0.995	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1996	1.000	0.989	1.000	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997	0.976	1.000	1.024	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	1.024	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	1.023	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	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	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	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	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	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	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	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	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	1.000	1.000
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.000	1.001	1.002	1.001	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.	1.000	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	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	1.000
5 YR AVG 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	1.000
PRIOR 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	1.000
AM BEST	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	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	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
 AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
MARINE
 (SAMOUNTS IN '000s)
 LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												961
1995											2,768	2,768
1996										1,185	1,185	1,185
1997									3,264	3,264	3,264	3,264
1998								1,711	1,711	1,711	1,711	1,711
1999							1,981	1,982	1,982	1,982	1,982	1,938
2000						3,044	3,044	3,044	3,044	3,044	2,977	2,977
2001					3,322	3,436	3,531	3,531	3,531	3,204	3,204	3,531
2002				2,601	2,795	3,119	3,512	3,514	3,355	3,355	3,514	3,514
2003			2,560			2,774	2,941	2,942	2,911	2,912	2,944	2,943
2004		1,328	1,336	1,345	1,377	1,406	1,408	1,408	1,408	1,408	1,408	1,408
2005	522	557	667	667	667	682	682	667	667	667	667	667
2006	173	607	737	833	965	965	965	965	965	965	965	965
2007	1,026	1,931	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
2008	74	575	580	596	596	596	596	596	596	596	596	596
2009	718	1,101	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332
2010	102	133	133	133	133	133	133	133	133	133	133	
2011	167	495	660	660	660	660	660	660	660	660		
2012	373	416	608	642	642	642	642	642	642			
2013	203	369	580	796	814	814	814	814				
2014	79	120	120	120	120	120	120					
2015	30	43	64	185	265	265						
2016	314	1,075	1,150	539	539							
2017	109	195	195	229								
2018	199	274	524									
2019	20	258										
2020	52											

PAID 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
	24	36	48	60	72	84	96	108	120	132	144	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	0.977
1999							1.001	1.000	1.000	1.000	0.978	1.000
2000						1.000	1.000	1.000	1.000	0.978	1.000	1.023
2001					1.034	1.028	1.000	1.000	0.907	1.000	1.102	1.000
2002				1.075	1.116	1.126	1.001	0.955	1.000	1.047	1.000	1.000
2003			1.015	1.068	1.060	1.000	0.989	1.000	1.011	1.000	1.000	1.000
2004		1.006	1.007	1.024	1.021	1.001	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.067	1.197	1.000	1.000	1.022	1.000	0.978	1.000	1.000	1.000	1.000	1.000
2006	3.509	1.214	1.130	1.158	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.882	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	7.770	1.009	1.028	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000
2009	1.533	1.210	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.304	1.000	1.000	1.000	1.000	1.000	1.004	1.000	1.000	1.000		
2011	2.964	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	1.115	1.462	1.056	1.000	1.001	1.000	1.000	1.000				
2013	1.818	1.572	1.372	1.023	1.000	1.000	1.000					
2014	1.519	1.000	0.997	1.000	1.000	1.000						
2015	1.433	1.484	2.898	1.434	1.000							
2016	3.425	1.070	0.468	1.000								
2017	1.784	1.000	1.170									
2018	1.375	1.911										
2019	12.866											
AVERAGE	3.024	1.231	1.143	1.052	1.017	1.010	0.998	0.997	0.995	1.002	1.005	1.000
3 YR AVG.	5.342	1.327	1.512	1.145	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	2.418	1.197	1.060	1.027	1.011	1.002	0.999	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	2.214	1.185	1.180	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.799	1.396	1.156	1.005	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	2.114	1.442	1.234	1.111	1.048	1.021	1.010	1.005	1.002	1.002	1.001	1.001
SELECTED	1.944	1.380	1.163	1.011	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	3.166	1.628	1.180	1.014	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	961	961	961	961	957	957	961	961	961	961	961	961	961	961	961
1995	2,768	2,768	2,768	2,755	2,755	2,768	2,768	2,768	2,768	2,768	2,768	2,768	2,768	2,768	
1996	1,185	1,185	1,172	1,172	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	1,185	
1997	3,264	3,186	3,186	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264		
1998	1,671	1,671	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711			
1999	1,938	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982	1,982				
2000	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044						
2001	3,531	3,531	3,531	3,531	3,531	3,531	3,531	3,531							
2002	3,514	3,514	3,514	3,514	3,514	3,514	3,514								
2003	2,943	2,943	2,943	2,943	2,943	2,943									
2004	1,408	1,408	1,408	1,408	1,408										
2005	667	667	667	667											
2006	965	965	965												
2007	1,936	1,936													
2008	596														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO	168 TO	180 TO	192 TO	204 TO	216 TO	228 TO	240 TO	252 TO	264 TO	276 TO	288 TO	300 TO	312 TO	324 TO
	168	180	192	204	216	228	240	252	264	276	288	300	312	324	ULT
1994	1.000	1.000	1.000	0.996	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1995	1.000	1.000	0.995	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1996	1.000	0.989	1.000	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1997	0.976	1.000	1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1998	1.000	1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1999	1.023	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							
2001	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									
2003	1.000	1.000	1.000	1.000	1.000										
2004	1.000	1.000	1.000	1.000											
2005	1.000	1.000	1.000												
2006	1.000	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.000	1.001	1.002	1.001	1.001	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		
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 EXCL HI LO	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
AM BEST	1.001	1.001	1.001	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
MARINE

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												221
1995											251	251
1996										250	250	250
1997									274	274	274	274
1998								240	240	240	240	240
1999							278	278	278	278	278	278
2000						313	313	313	313	313	313	313
2001					490	490	490	490	490	490	490	490
2002				654	654	654	654	654	654	654	654	654
2003			740	741	741	741	741	741	741	741	737	737
2004		84	84	100	100	100	100	100	100	100	100	100
2005	40	49	49	49	49	49	49	49	49	49	49	49
2006	33	40	40	40	40	40	40	40	40	40	40	40
2007	34	39	39	39	39	39	39	39	39	39	39	39
2008	33	36	36	36	36	36	36	36	36	36	36	36
2009	24	26	26	26	26	26	26	26	26	26	26	26
2010	30	38	38	38	38	38	38	38	38	38	38	
2011	38	44	44	44	44	44	44	44	44	44		
2012	47	50	51	51	51	50	50	50	50			
2013	39	43	43	43	43	43	43	43				
2014	14	16	16	16	16	16	16					
2015	31	37	37	37	37	37						
2016	16	22	22	22	22							
2017	27	30	30	30								
2018	25	26	26									
2019	20	30										
2020	11											

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
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						1.000	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
2002				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998
2003			1.001	1.000	1.000	1.000	1.000	1.000	1.000	0.995	1.000	1.000
2004		1.000	1.190	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.225	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.212	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.083	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.267	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
2011	1.158	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	1.064	1.020	1.000	1.000	0.980	1.000	1.000	1.000				
2013	1.103	1.000	1.000	1.000	1.000	1.000	1.000					
2014	1.143	1.000	1.000	1.000	1.000	1.000						
2015	1.194	1.000	1.000	1.000	1.000							
2016	1.375	1.000	1.000	1.000								
2017	1.111	1.000	1.000									
2018	1.040	1.000										
2019	1.500											
AVERAGE	1.181	1.001	1.013	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 YR AVG.	1.217	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	1.167	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 EXCL HI LO	1.227	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.173	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.198	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.198	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
MARINE

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	DEVELOPMENT MONTHS								300	312	324
							228	240	252	264	276	288					
1994	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221
1995	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
1996	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250		
1997	274	274	274	274	274	274	274	274	274	274	274	274	274	274			
1998	240	240	240	240	240	240	240	240	240	240	240	240	240				
1999	278	278	278	278	278	278	278	278	278	278	278	278					
2000	313	313	313	313	313	313	313	313	313								
2001	490	490	490	490	490	490	490	490									
2002	653	653	653	653	653	653	653										
2003	737	737	737	737	737	737											
2004	100	100	100	100	100												
2005	49	49	49	49													
2006	40	40	40														
2007	39	39															
2008	36																
2009																	
2010																	
2011																	
2012																	
2013																	
2014																	
2015																	
2016																	
2017																	
2018																	
2019																	
2020																	

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
	TO	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	324	ULT
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		
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	1.000	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		
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		
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		
2019	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		
2020	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	1.000	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 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	
PRIOR 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	
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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	0.985	0	0
2016	0	0.976	0	0
2017	0	0.975	0	0
2018	109	0.982	107	2
2019	156	0.973	152	4
2020	366	0.962	353	14
TOTAL	\$633		\$613	\$20

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$613
75%	815
85%	974
95%	1,313

Notes:

- (1) - Per Exhibit IV, Page 1A, Column (7).
(2) - Per AMI calculations, see Appendix A, Page 4.
(3) = (1) x (2).
'(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	0.985	0	0
2017	0	0.976	0	0
2018	10	0.975	10	0
2019	62	0.982	61	1
2020	207	0.973	201	6
2021	324	0.962	312	12
TOTAL	\$603		\$584	\$19

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$584
75%	776
85%	927
95%	1,251

Notes:

- (1) - Per Exhibit IV, Page 1B, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 4.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	0.985	0	0
2018	3	0.976	3	0
2019	6	0.975	6	0
2020	82	0.982	80	1
2021	199	0.973	194	5
2022	341	0.962	328	13
TOTAL	\$631		\$611	\$20

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$611
75%	812
85%	970
95%	1,308

Notes:

- (1) - Per Exhibit IV, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 4.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	1	0.985	1	0
2019	2	0.976	2	0
2020	8	0.975	7	0
2021	102	0.982	100	2
2022	200	0.973	194	5
2023	354	0.962	340	13
TOTAL	\$665		\$644	\$21

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$644
75%	857
85%	1,024
95%	1,381

Notes:

- (1) - Per Exhibit IV, Page 1D, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 4.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	PROPERTY VALUE (\$MM)	LOSS RATE
	(1)	(2)	(3)
Prior			
1994	\$961	N/A	
1995	2,768	N/A	
1996	1,185	N/A	
1997	3,264	N/A	
1998	1,711	N/A	
1999	1,982	N/A	
2000	3,044	N/A	
2001	3,531	N/A	
2002	3,514	N/A	
2003	2,943	3,319	887
2004	1,408	3,518	400
2005	667	4,059	164
2006	965	4,177	231
2007	1,936	4,245	456
2008	596	4,372	136
2009	1,332	4,503	296
2010	133	4,638	29
2011	660	4,713	140
2012	642	4,695	137
2013	814	5,132	159
2014	120	5,849	20
2015	265	6,090	44
2016	539	7,507	72
2017	229	7,436	31
2018	633	7,241	87
2019	414	7,298	57
2020	419	7,701	54
(PROJ.) 2020/2021	\$474	7,873	60.20
(PROJ.) 2021/2022	499	8,200	60.80
(PROJ.) 2022/2023	517	8,423	61.41

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$474	0.950	\$450	\$24
2022	499	0.950	474	25
2023	517	0.950	492	25

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$450	\$620	\$748	\$1,003
2022	474	653	788	1,057
2023	492	677	818	1,097

Notes:

(1) - Per Exhibit IV, Page 1A, Column (5). For projected years, (1) = (2) x (3).

(2) - Per STATE OF ALASKA.

(3) = (1) / (2). For the projected years, it is the trended average of prior years.

(4) = (1); (5) - Per Appendix A, Page 4, Column (7).

(6) = (4) x (5); (7) = (4) - (6).

(8) = (6).

(9) to (11) - Based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
MARINE
LIMITED TO RETENTION

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	PROPERTY VALUE (\$MM)	NUMBER OF CLAIMS PER \$B PROPERTY VALUE (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	221	1.000	221	\$961	N/A		\$4,348
1995	251	1.000	251	2,768	N/A		11,027
1996	250	1.000	250	1,185	N/A		4,741
1997	274	1.000	274	3,264	N/A		11,912
1998	240	1.000	240	1,711	N/A		7,129
1999	278	1.000	278	1,982	N/A		7,130
2000	313	1.000	313	3,044	N/A		9,725
2001	490	1.000	490	3,531	N/A		7,206
2002	653	1.000	653	3,514	N/A		5,381
2003	737	1.000	737	2,943	3,319	222	3,993
2004	100	1.000	100	1,408	3,518	28	14,079
2005	49	1.000	49	667	4,059	12	13,609
2006	40	1.000	40	965	4,177	10	24,129
2007	39	1.000	39	1,936	4,245	9	49,653
2008	36	1.000	36	596	4,372	8	16,568
2009	26	1.000	26	1,332	4,503	6	51,250
2010	38	1.000	38	133	4,638	8	3,513
2011	44	1.000	44	660	4,713	9	15,003
2012	50	1.000	50	642	4,695	11	12,850
2013	43	1.000	43	814	5,132	8	18,941
2014	16	1.000	16	120	5,849	3	7,491
2015	37	1.000	37	265	6,090	6	7,172
2016	22	1.000	22	539	7,507	3	24,480
2017	30	1.000	30	229	7,436	4	7,620
2018	26	1.000	26	633	7,241	4	24,357
2019	30	1.000	30	414	7,298	4	13,811
2020	11	1.198	51	419	7,701	7	8,203
TOTAL	4,344		4,384	\$36,677			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2). For the latest year, it is (6) x (5)/1000.

(4) = Exhibit IV, Page 1A, Column (5).

(6) = [(3) / [(5) / 1000]] ; (7) = [(3) / (4)] x 1000. For the latest year, it is the average of prior years.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	31.6%	61.4%	84.8%	98.6%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	31.6%	29.8%	23.4%	13.8%	1.0%	0.3%	0.1%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		43.6%	34.1%	20.2%	1.5%	0.4%	0.2%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	31.6%	29.8%	23.4%	13.8%	1.0%	0.3%	0.1%	0.0%	0.0%	0.0%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	\$961	0	0	0	0	0	0	0	0	0	0	0
1995	2,768	0	0	0	0	0	0	0	0	0	0	0
1996	1,185	0	0	0	0	0	0	0	0	0	0	0
1997	3,264	0	0	0	0	0	0	0	0	0	0	0
1998	1,711	0	0	0	0	0	0	0	0	0	0	0
1999	1,982	0	0	0	0	0	0	0	0	0	0	0
2000	3,044	0	0	0	0	0	0	0	0	0	0	0
2001	3,531	0	0	0	0	0	0	0	0	0	0	0
2002	3,514	0	0	0	0	0	0	0	0	0	0	0
2003	2,943	0	0	0	0	0	0	0	0	0	0	0
2004	1,408	0	0	0	0	0	0	0	0	0	0	0
2005	667	0	0	0	0	0	0	0	0	0	0	0
2006	965	0	0	0	0	0	0	0	0	0	0	0
2007	1,936	0	0	0	0	0	0	0	0	0	0	0
2008	596	0	0	0	0	0	0	0	0	0	0	0
2009	1,332	0	0	0	0	0	0	0	0	0	0	0
2010	133	0	0	0	0	0	0	0	0	0	0	0
2011	660	0	0	0	0	0	0	0	0	0	0	0
2012	642	0	0	0	0	0	0	0	0	0	0	0
2013	814	0	0	0	0	0	0	0	0	0	0	0
2014	120	0	0	0	0	0	0	0	0	0	0	0
2015	265	0	0	0	0	0	0	0	0	0	0	0
2016	539	0	0	0	0	0	0	0	0	0	0	0
2017	229	0	0	0	0	0	0	0	0	0	0	0
2018	633	109	99	7	2	1	0	0	0	0	0	0
2019	414	156	95	56	4	1	0	0	0	0	0	0
2020	419	366	160	125	74	6	1	1	0	0	0	0
2021	474		150	125	98	58	4	1	1	0	0	38
2022	499			157	141	111	65	5	1	1	0	17
2023	517				163	154	121	71	5	1	1	0
TOTAL	\$38,167	\$633	\$504	\$471	\$483	\$330	\$193	\$78	\$7	\$2	\$1	\$55

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
MARINE

REPORTED CLAIM COUNTS

ACCIDENT YEAR*	\$0.01	\$5,000	\$10,000	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000	OVER	TOTAL	
	TO \$5,000	TO \$10,000	TO \$25,000	TO \$50,000	TO \$100,000	TO \$250,000	TO \$500,000	TO \$750,000	TO \$1,000,000			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior	1,940	5,287	249	209	112	83	61	26	9	5	0	7,981
2010	6	27	3	2	1	0	0	0	0	0	0	39
2011	14	23	4	2	5	0	2	0	0	0	0	50
2012	28	17	0	3	2	5	1	0	0	0	0	56
2013	27	13	2	0	1	3	1	1	0	0	0	48
2014	5	7	0	2	1	1	0	0	0	0	0	16
2015	14	21	1	0	0	0	1	0	0	0	0	37
2016	9	7	1	0	2	1	2	0	0	0	0	22
2017	11	16	0	0	1	1	1	0	0	0	0	30
2018	12	6	1	2	2	0	3	0	0	0	0	26
2019	13	13	2	0	0	1	1	0	0	0	0	30
2020	6	4	0	0	1	0	0	0	0	0	0	11
TOTAL	2,085	5,441	263	220	128	95	73	27	9	5	0	8,346

REPORTED LOSSES

ACCIDENT YEAR*	\$0.01 TO \$5,000		\$5,000 TO \$10,000		\$10,000 TO \$25,000		\$25,000 TO \$50,000		\$50,000 TO \$100,000		\$100,000 TO \$250,000		\$250,000 TO \$500,000		\$500,000 TO \$750,000		\$750,000 TO \$1,000,000		OVER \$1,000,000		TOTAL
	\$0	\$5,000	\$10,000	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000	\$1,000,000	\$1,000,000										
Prior	(\$2,808)	\$4,031	\$1,720	\$3,404	\$3,950	\$5,985	\$9,877	\$9,207	\$5,199	\$4,553	\$0										\$45,119
2010	0	29	18	43	43	0	0	0	0	0	0										133
2011	0	23	32	44	172	0	388	0	0	0	0										660
2012	0	24	0	44	74	379	121	0	0	0	0										642
2013	0	12	16	0	42	239	114	391	0	0	0										814
2014	0	13	0	25	30	52	0	0	0	0	0										120
2015	0	38	8	0	0	0	220	0	0	0	0										265
2016	0	15	5	0	73	77	367	0	0	0	0										539
2017	0	17	0	0	33	64	115	0	0	0	0										229
2018	0	11	7	41	79	0	480	0	0	0	0										619
2019	0	23	11	0	0	79	225	0	0	0	0										337
2020	0	9	0	0	45	0	0	0	0	0	0										54
TOTAL	(\$2,808)	\$4,245	\$1,818	\$3,601	\$4,541	\$6,876	\$11,908	\$9,599	\$5,199	\$4,553	\$0										\$49,532

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	\$239	\$239	\$239	\$239	\$239	\$239	\$0
1995	370	370	370	370	370	370	0
1996	61	61	61	61	61	61	0
1997	130	130	130	130	130	130	0
1998	461	461	461	461	461	461	0
1999	165	165	165	165	165	165	0
2000	109	109	109	109	109	109	0
2001	795	795	795	795	795	795	0
2002	251	251	251	251	251	251	0
2003	100	100	100	100	100	100	0
2004	15	15	15	15	15	15	0
2005	96	96	96	96	96	96	0
2006	392	392	392	392	392	392	0
2007	26	26	26	26	26	26	0
2008	486	486	486	486	486	486	0
2009	864	864	864	864	864	864	0
2010	37	37	37	37	37	37	0
2011	395	395	395	395	395	395	0
2012	412	412	412	412	412	412	0
2013	324	324	324	324	324	324	0
2014	12	12	12	12	12	12	0
2015	544	544	544	544	544	544	0
2016	2	2	2	7	2	2	0
2017	612	606	609	606	608	470	138
2018	26	25	36	77	31	0	31
2019	0	0	21	141	11	0	11
2020	255	255	314	250	269	1	268
TOTAL	\$7,179	\$7,172	\$7,265	\$7,364	\$7,205	\$6,756	\$449

Notes:

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

(5) = Average of (1), (2), (3) & (4).

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$239	0	0	\$239	\$239	0
1995	370	0	0	370	370	0
1996	61	0	0	61	61	0
1997	130	0	0	130	130	0
1998	461	0	0	461	461	0
1999	165	0	0	165	165	0
2000	109	0	0	109	109	0
2001	795	0	0	795	795	0
2002	251	0	0	251	251	0
2003	100	0	0	100	100	0
2004	15	0	0	15	15	0
2005	96	0	0	96	96	0
2006	392	0	0	392	392	0
2007	26	0	0	26	26	0
2008	486	0	0	486	486	0
2009	864	0	0	864	864	0
2010	37	0	0	37	37	0
2011	395	0	0	395	395	0
2012	412	0	0	412	412	0
2013	324	0	0	324	324	0
2014	12	0	0	12	12	0
2015	544	0	0	544	544	0
2016	2	0	0	2	2	0
2017	608	138	113	470	583	25
2018	31	31	22	0	22	9
2019	11	11	5	0	5	6
2020	269	268	73	1	74	194
2021	237		60		60	177
TOTAL	\$7,442	\$449	\$274	\$6,756	\$7,030	\$412

Notes:

- (1) - For 2020 and prior, ultimate losses based from Exhibit V, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit V, Page 6.
 (2) - For 2020 and prior, loss reserves based from Exhibit V, Page 1A, Column (7).
 (3) - From Exhibit V, Page 9.
 (4) - From Exhibit V, Page 1A, Column (6).
 (5) = (3) + (4)
 (6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$239	0	0	\$239	\$239	0
1995	370	0	0	370	370	0
1996	61	0	0	61	61	0
1997	130	0	0	130	130	0
1998	461	0	0	461	461	0
1999	165	0	0	165	165	0
2000	109	0	0	109	109	0
2001	795	0	0	795	795	0
2002	251	0	0	251	251	0
2003	100	0	0	100	100	0
2004	15	0	0	15	15	0
2005	96	0	0	96	96	0
2006	392	0	0	392	392	0
2007	26	0	0	26	26	0
2008	486	0	0	486	486	0
2009	864	0	0	864	864	0
2010	37	0	0	37	37	0
2011	395	0	0	395	395	0
2012	412	0	0	412	412	0
2013	324	0	0	324	324	0
2014	12	0	0	12	12	0
2015	544	0	0	544	544	0
2016	2	0	0	2	2	0
2017	608	25	25	583	608	0
2018	31	9	8	22	29	2
2019	11	6	4	5	9	2
2020	269	194	87	74	161	108
2021	237	177	55		55	182
2022	240		61		61	179
TOTAL	\$7,682	\$412	\$239	\$6,970	\$7,210	\$473

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit V, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit V, Page 6.
(2) - For 2021 and prior, loss reserves based from Exhibit V, Page 1B, Column (6).
(3) - From Exhibit V, Page 9.
(4) - From Exhibit V, Page 1B, Column (5).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	\$239	0	0	\$239	\$239	0
1995	370	0	0	370	370	0
1996	61	0	0	61	61	0
1997	130	0	0	130	130	0
1998	461	0	0	461	461	0
1999	165	0	0	165	165	0
2000	109	0	0	109	109	0
2001	795	0	0	795	795	0
2002	251	0	0	251	251	0
2003	100	0	0	100	100	0
2004	15	0	0	15	15	0
2005	96	0	0	96	96	0
2006	392	0	0	392	392	0
2007	26	0	0	26	26	0
2008	486	0	0	486	486	0
2009	864	0	0	864	864	0
2010	37	0	0	37	37	0
2011	395	0	0	395	395	0
2012	412	0	0	412	412	0
2013	324	0	0	324	324	0
2014	12	0	0	12	12	0
2015	544	0	0	544	544	0
2016	2	0	0	2	2	0
2017	608	0	0	608	608	0
2018	31	2	2	29	31	0
2019	11	2	1	9	10	0
2020	269	108	75	161	236	33
2021	237	182	65	55	120	117
2022	240		49	61	109	131
2023	244		62		62	182
TOTAL	\$7,926	\$293	\$253	\$7,210	\$7,463	\$464

Notes:

- (1) - For 2022 and prior, ultimate losses based from Exhibit V, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit V, Page 6.
 (2) - For 2022 and prior, loss reserves based from Exhibit V, Page 1C, Column (6).
 (3) - From Exhibit V, Page 9.
 (4) - From Exhibit V, Page 1C, Column (5).
 (5) = (3) + (4)
 (6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED INCURRED LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	FTE	ESTIMATED LOSS RATE
(1)	(2)	(3)	(4)	(5)	
Prior					
1994	\$239	1.000	\$239	N/A	
1995	370	1.000	370	N/A	
1996	61	1.000	61	N/A	
1997	130	1.000	130	N/A	
1998	461	1.000	461	N/A	
1999	165	1.000	165	N/A	
2000	109	1.000	109	N/A	
2001	795	1.000	795	N/A	
2002	251	1.000	251	N/A	
2003	100	1.000	100	16,960	0.006
2004	15	1.000	15	14,579	0.001
2005	96	1.000	96	15,398	0.006
2006	392	1.000	392	15,397	0.025
2007	26	1.000	26	15,773	0.002
2008	486	1.000	486	16,050	0.030
2009	864	1.000	864	15,977	0.054
2010	37	1.000	37	16,386	0.002
2011	395	1.000	395	16,721	0.024
2012	412	1.000	412	16,951	0.024
2013	324	1.000	324	17,025	0.019
2014	12	1.000	12	16,848	0.001
2015	544	1.000	544	16,959	0.032
2016	2	1.000	2	17,272	0.000
2017	606	1.010	612	17,242	0.035
2018	25	1.046	26	16,625	0.002
2019	0	1.090	0	16,744	0.000
2020	250		255	16,451	0.016
TOTAL	\$7,166		\$7,179		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED PAID LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	FTE	ESTIMATED LOSS RATE
(6)	(7)	(8)	(9)	(10)	
Prior					
1994	\$239	1.000	\$239	N/A	
1995	370	1.000	370	N/A	
1996	61	1.000	61	N/A	
1997	130	1.000	130	N/A	
1998	461	1.000	461	N/A	
1999	165	1.000	165	N/A	
2000	109	1.000	109	N/A	
2001	795	1.000	795	N/A	
2002	251	1.000	251	N/A	
2003	100	1.000	100	16,960	0.006
2004	15	1.000	15	14,579	0.001
2005	96	1.000	96	15,398	0.006
2006	392	1.000	392	15,397	0.025
2007	26	1.000	26	15,773	0.002
2008	486	1.000	486	16,050	0.030
2009	864	1.000	864	15,977	0.054
2010	37	1.000	37	16,386	0.002
2011	395	1.000	395	16,721	0.024
2012	412	1.000	412	16,951	0.024
2013	324	1.000	324	17,025	0.019
2014	12	1.000	12	16,848	0.001
2015	544	1.000	544	16,959	0.032
2016	2	1.017	2	17,272	0.000
2017	470	1.101	606	17,242	0.035
2018	0	1.430	25	16,625	0.002
2019	0	2.185	0	16,744	0.000
2020	1		255	16,451	0.015
TOTAL	\$6,756		\$7,172		

Notes:

- (1), (4), (6) & (9) - Per STATE OF ALASKA.
 (2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	FTE	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	0.016	N/A	\$239	0.0%	\$0	\$239	\$239
1995	0.016	N/A	370	0.0%	0	370	370
1996	0.016	N/A	61	0.0%	0	61	61
1997	0.016	N/A	130	0.0%	0	130	130
1998	0.016	N/A	461	0.0%	0	461	461
1999	0.016	N/A	165	0.0%	0	165	165
2000	0.016	N/A	109	0.0%	0	109	109
2001	0.016	N/A	795	0.0%	0	795	795
2002	0.016	N/A	251	0.0%	0	251	251
2003	0.016	16,960	263	0.0%	0	100	100
2004	0.016	14,579	226	0.0%	0	15	15
2005	0.016	15,398	239	0.0%	0	96	96
2006	0.016	15,397	239	0.0%	0	392	392
2007	0.016	15,773	245	0.0%	0	26	26
2008	0.016	16,050	249	0.0%	0	486	486
2009	0.016	15,977	248	0.0%	0	864	864
2010	0.016	16,386	254	0.0%	0	37	37
2011	0.016	16,721	259	0.0%	0	395	395
2012	0.016	16,951	263	0.0%	0	412	412
2013	0.016	17,025	264	0.0%	0	324	324
2014	0.016	16,848	261	0.0%	0	12	12
2015	0.016	16,959	263	0.0%	0	544	544
2016	0.016	17,272	268	0.0%	0	2	2
2017	0.016	17,242	267	0.9%	3	606	609
2018	0.016	16,625	258	4.4%	11	25	36
2019	0.016	16,744	260	8.2%	21	0	21
2020	0.016	16,451	255	25.0%	64	250	314
TOTAL			\$7,161		\$99	\$7,166	\$7,265

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	FTE	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior							
1994	0.016	N/A	\$239	0.0%	\$0	\$239	\$239
1995	0.016	N/A	370	0.0%	0	370	370
1996	0.016	N/A	61	0.0%	0	61	61
1997	0.016	N/A	130	0.0%	0	130	130
1998	0.016	N/A	461	0.0%	0	461	461
1999	0.016	N/A	165	0.0%	0	165	165
2000	0.016	N/A	109	0.0%	0	109	109
2001	0.016	N/A	795	0.0%	0	795	795
2002	0.016	N/A	251	0.0%	0	251	251
2003	0.016	16,960	263	0.0%	0	100	100
2004	0.016	14,579	226	0.0%	0	15	15
2005	0.016	15,398	239	0.0%	0	96	96
2006	0.016	15,397	239	0.0%	0	392	392
2007	0.016	15,773	245	0.0%	0	26	26
2008	0.016	16,050	249	0.0%	0	486	486
2009	0.016	15,977	248	0.0%	0	864	864
2010	0.016	16,386	254	0.0%	0	37	37
2011	0.016	16,721	259	0.0%	0	395	395
2012	0.016	16,951	263	0.0%	0	412	412
2013	0.016	17,025	264	0.0%	0	324	324
2014	0.016	16,848	261	0.0%	0	12	12
2015	0.016	16,959	263	0.0%	0	544	544
2016	0.016	17,272	268	1.7%	5	2	7
2017	0.016	17,242	267	9.2%	25	470	606
2018	0.016	16,625	258	30.1%	77	0	77
2019	0.016	16,744	260	54.2%	141	0	141
2020	0.016	16,451	255	74.7%	191	1	250
TOTAL			\$7,161		\$439	\$6,756	\$7,364

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit V, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit V, Columns (5) & (10).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												239
1995											370	370
1996										61	61	61
1997									130	130	130	130
1998								461	461	461	461	461
1999							165	165	165	165	165	165
2000						109	109	109	109	109	109	109
2001					795	795	795	795	795	784	784	795
2002				251	251	251	251	251	251	251	251	251
2003			333	333	333	333	333	333	333	100	100	100
2004		268	263	15	15	15	15	15	15	15	15	15
2005	96	121	121	96	96	96	96	96	96	96	96	96
2006	306	318	326	326	348	392	392	392	392	392	392	392
2007	36	36	26	26	26	26	26	26	26	26	26	26
2008	260	241	241	336	486	486	486	486	486	486	486	486
2009	793	881	869	864	864	864	864	864	864	864	864	864
2010	10	42	37	37	37	37	37	37	37	37	37	
2011	242	224	249	399	395	395	395	395	395	395		
2012	200	303	331	445	438	412	412	412	412			
2013	254	326	324	324	324	324	324	324				
2014	0	66	15	12	12	12	12					
2015	281	300	300	544	544	544						
2016	0	0	0	2	2							
2017	205	285	635	606								
2018	0	25	25									
2019	0	0										
2020	250											

INCURRED 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
	24	36	48	60	72	84	96	108	120	132	144	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						1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001					1.000	1.000	1.000	1.000	0.986	1.000	1.014	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	0.300	1.000	1.000	1.000
2004		0.981	0.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	1.260	1.000	0.793	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
2006	1.039	1.025	1.000	1.067	1.126	1.000	1.000	1.000	1.000	1.000	1.001	1.000
2007	1.000	0.722	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000
2008	0.927	1.000	1.394	1.446	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.111	0.986	0.994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	4.200	0.881	1.000	1.000	1.000	1.000	1.006	1.000	1.000	1.000		
2011	0.926	1.112	1.602	0.990	1.000	0.999	1.000	1.000	1.000			
2012	1.515	1.092	1.344	0.984	0.941	1.000	1.000	1.000				
2013	1.283	0.994	1.000	0.999	1.000	1.000	1.000					
2014		0.227	0.827	1.000	1.000	1.000						
2015	1.068	1.001	1.812	1.000	1.000							
2016				1.000								
2017	1.391	2.230	0.955									
2018		1.000										
2019												
AVERAGE	1.429	1.018	1.056	1.032	1.004	1.000	1.000	1.000	0.952	0.999	1.001	1.000
3 YR AVG.	1.247	1.153	1.198	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.177	0.983	1.076	1.004	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.247	0.998	1.100	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.217	1.036	1.039	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	1.366	1.145	1.072	1.029	1.011	1.004	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	1.223	1.042	1.036	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.333	1.090	1.046	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239
1995	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
1996	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
1997	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
1998	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461
1999	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
2000	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
2001	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795
2002	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
2003	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2004	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2005	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
2006	392	392	392	392	392	392	392	392	392	392	392	392	392	392	392
2007	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2008	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	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	1.001	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	0.998	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	0.997	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	1.004	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	0.983	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	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	
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	1.000	
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	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 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	
PRIOR 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	
AM BEST	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
 AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
AVIATION
 (SAMOUNTS IN '000s)
 LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												239
1995											370	370
1996										61	61	61
1997									130	130	130	130
1998								461	461	461	461	461
1999							165	165	165	165	165	165
2000						109	109	109	109	109	109	109
2001					739	795	795	795	795	784	784	795
2002				251	251	251	251	251	251	251	251	251
2003			268	333	333	100	100	333	333	100	100	100
2004		15	15	15	15	15	15	15	15	15	15	15
2005	96	96	96	96	96	96	96	96	96	96	96	96
2006	149	318	321	326	348	392	392	392	392	392	392	392
2007	26	26	26	26	26	26	26	26	26	26	26	26
2008	164	235	237	298	486	486	486	486	486	486	486	486
2009	398	828	853	864	864	864	864	864	864	864	864	864
2010	6	7	37	37	37	37	37	37	37	37	37	
2011	63	224	235	243	395	395	395	395	395	395		
2012	47	63	216	419	412	412	412	412	412			
2013	254	322	324	324	324	324	324	324				
2014	0	0	1	12	12	12	12					
2015	0	5	292	544	544	544						
2016	0	0	0	2	2							
2017	129	169	382	470								
2018	0	0	0									
2019	0	0										
2020	1											

PAID 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
	24	36	48	60	72	84	96	108	120	132	144	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						1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001					1.076	1.000	1.000	1.000	0.986	1.000	1.014	1.000
2002				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003			1.243	1.000	0.300	1.000	3.330	1.000	0.300	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
2005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
2006	2.134	1.009	1.016	1.067	1.126	1.000	1.000	1.000	1.000	1.000	1.001	1.000
2007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000
2008	1.433	1.009	1.257	1.631	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	2.080	1.030	1.013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.167	5.286	1.000	1.000	1.000	1.000	1.006	1.000	1.000	1.000		
2011	3.556	1.049	1.034	1.626	1.000	0.999	1.000	1.000	1.000			
2012	1.340	3.429	1.940	0.983	1.001	1.000	1.000	1.000				
2013	1.268	1.006	1.000	0.999	1.000	1.000	1.000					
2014			12.409	1.000	1.000	1.000						
2015		58.372	1.864	1.000	1.000							
2016				1.000								
2017	1.312	2.266	1.230									
2018												
2019												
AVERAGE	1.629	6.455	2.000	1.087	0.967	1.000	1.156	1.000	0.952	0.999	1.001	1.000
3 YR AVG.	1.290	30.319	5.168	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.467	1.808	1.216	1.053	1.006	1.000	1.000	1.000	0.999	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.326	2.266	1.678	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.859	1.497	1.261	1.088	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	2.114	1.442	1.234	1.111	1.048	1.021	1.010	1.005	1.002	1.002	1.001	1.001
SELECTED	1.812	1.528	1.298	1.083	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	3.960	2.185	1.430	1.101	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	DEVELOPMENT MONTHS								
	228	240	252	264	276	288	300	312	324						
1994	239	239	239	239	239	239	239	239	239	239	239	239	239	239	239
1995	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
1996	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
1997	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
1998	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461
1999	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
2000	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
2001	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795
2002	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
2003	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2004	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2005	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
2006	392	392	392	392	392	392	392	392	392	392	392	392	392	392	392
2007	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2008	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	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	1.007	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	1.001	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	0.998	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	0.997	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	1.004	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	0.983	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	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	
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	1.000	
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	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 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	
PRIOR 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	
AM BEST	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
AVIATION

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												8
1995											12	12
1996										19	19	19
1997									26	26	26	26
1998								30	30	30	30	30
1999							39	39	39	39	39	39
2000						16	16	16	16	16	16	16
2001					26	26	26	26	26	26	26	26
2002				13	13	13	13	13	13	13	13	13
2003			7	7	7	7	7	7	7	7	7	7
2004		9	9	9	9	9	9	9	9	9	9	9
2005	7	8	8	8	8	8	8	8	8	8	8	8
2006	7	7	8	8	8	9	9	9	10	10	10	10
2007	2	3	3	3	3	3	3	3	3	3	3	3
2008	6	7	7	8	8	8	9	9	9	9	9	9
2009	7	9	11	12	12	12	12	12	12	12	12	12
2010	1	4	5	5	5	5	5	5	5	5	5	
2011	4	4	5	5	5	5	5	5	5	5		
2012	7	7	8	8	8	8	8	8	8			
2013	6	5	6	6	6	6	6	6				
2014	0	1	2	2	2	2	2					
2015	5	6	6	7	7	7						
2016	0	0	0	1	1							
2017	5	6	8	8								
2018	0	2	2									
2019	1	2										
2020	2											

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
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						1.000	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
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	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
2005	1.143	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	1.143	1.000	1.000	1.125	1.000	1.000	1.111	1.000	1.000	1.000	1.000
2007	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.167	1.000	1.143	1.000	1.000	1.125	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.286	1.222	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	4.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
2011	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	1.000	1.143	1.000	1.000	1.000	1.000	1.000	1.000				
2013	0.833	1.200	1.000	1.000	1.000	1.000	1.000					
2014		2.000	1.000	1.000	1.000	1.000						
2015	1.200	1.000	1.167		1.000							
2016				1.000								
2017	1.200	1.333	1.000									
2018		1.000										
2019	2.000											
AVERAGE	1.444	1.182	1.029	1.000	1.008	1.008	1.000	1.007	1.000	1.000	1.000	1.000
3 YR AVG.	1.467	1.111	1.056	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	1.250	1.128	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.133	1.178	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.204	1.143	1.011	1.000	1.001	1.001	1.000	1.001	1.000	1.000	1.000	1.000
SELECTED	1.323	1.150	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.561	1.179	1.026	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
AVIATION

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	DEVELOPMENT MONTHS								300	312	324
							228	240	252	264	276	288					
1994	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1995	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1996	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1997	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
1998	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
1999	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2000	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
2001	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2002	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
2003	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
2004	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2005	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2006	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2007	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2008	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2009																	
2010																	
2011																	
2012																	
2013																	
2014																	
2015																	
2016																	
2017																	
2018																	
2019																	
2020																	

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.000	1.000
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
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	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	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	1.000
5 YR AVG 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	1.000
PRIOR 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	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	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	0.985	0	0
2017	138	0.980	135	3
2018	31	0.975	30	1
2019	11	0.964	10	0
2020	268	0.949	254	14
TOTAL	\$449		\$431	\$17

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$431
75%	574
85%	685
95%	924

Notes:

- (1) - Per Exhibit V, Page 1A, Column (7).
(2) - Per AMI calculations, see Appendix A, Page 5.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	25	0.985	25	0
2018	9	0.980	9	0
2019	6	0.975	6	0
2020	194	0.964	187	7
2021	177	0.949	168	9
TOTAL	\$412		\$395	\$17

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$395
75%	526
85%	628
95%	847

Notes:

- (1) - Per Exhibit V, Page 1B, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 5.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	2	0.985	2	0
2019	2	0.980	2	0
2020	108	0.975	105	3
2021	182	0.964	175	7
2022	179	0.949	170	9
TOTAL	\$473		\$454	\$18

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$454
75%	604
85%	722
95%	973

Notes:

- (1) - Per Exhibit V, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 5.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	0	1.000	0	0
2019	0	0.985	0	0
2020	33	0.980	32	1
2021	117	0.975	114	3
2022	131	0.964	126	5
2023	182	0.949	173	9
TOTAL	\$464		\$446	\$18

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$446
75%	593
85%	709
95%	956

Notes:

- (1) - Per Exhibit V, Page 1D, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 5.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
AVIATION
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	FTE	LOSS RATE
	(1)	(2)	(3)
Prior			
1994	\$239	N/A	
1995	370	N/A	
1996	61	N/A	
1997	130	N/A	
1998	461	N/A	
1999	165	N/A	
2000	109	N/A	
2001	795	N/A	
2002	251	N/A	
2003	100	16,960	0.006
2004	15	14,579	0.001
2005	96	15,398	0.006
2006	392	15,397	0.025
2007	26	15,773	0.002
2008	486	16,050	0.030
2009	864	15,977	0.054
2010	37	16,386	0.002
2011	395	16,721	0.024
2012	412	16,951	0.024
2013	324	17,025	0.019
2014	12	16,848	0.001
2015	544	16,959	0.032
2016	2	17,272	0.000
2017	608	17,242	0.035
2018	31	16,625	0.002
2019	11	16,744	0.001
2020	269	16,451	0.016
(PROJ.) 2020/2021	\$237	16,533	0.014
(PROJ.) 2021/2022	240	16,616	0.014
(PROJ.) 2022/2023	244	16,699	0.015

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$237	0.938	\$222	\$15
2022	240	0.938	225	15
2023	244	0.938	229	15

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$222	\$306	\$369	\$495
2022	225	310	374	502
2023	229	315	381	511

Notes:

- (1) - Per Exhibit V, Page 1A, Column (5). For projected years, (1) = (2) x (3).
 (2) - Per STATE OF ALASKA.
 (3) = (1) / (2). For the projected years, it is the trended average of prior years.
 (4) = (1); (5) - Per Appendix A, Page 5, Column (7).
 (6) = (4) x (5); (7) = (4) - (6).
 (8) = (6).
 (9) to (11) - Based on Monte Carlo Simulation.
 * All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
AVIATION
LIMITED TO RETENTION

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	FTE	NUMBER OF CLAIMS PER 10,000 FTE (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	8	1.000	8	\$239			\$29,851
1995	12	1.000	12	370			30,826
1996	19	1.000	19	61			3,233
1997	26	1.000	26	130			4,999
1998	30	1.000	30	461			15,381
1999	39	1.000	39	165			4,227
2000	16	1.000	16	109			6,802
2001	26	1.000	26	795			30,571
2002	13	1.000	13	251			19,315
2003	7	1.000	7	100	16,960	4.1	14,348
2004	9	1.000	9	15	14,579	6.2	1,652
2005	8	1.000	8	96	15,398	5.2	11,976
2006	10	1.000	10	392	15,397	6.5	39,232
2007	3	1.000	3	26	15,773	1.9	8,633
2008	9	1.000	9	486	16,050	5.6	53,994
2009	12	1.000	12	864	15,977	7.5	72,035
2010	5	1.000	5	37	16,386	3.1	7,446
2011	5	1.000	5	395	16,721	3.0	78,966
2012	8	1.000	8	412	16,951	4.7	51,529
2013	6	1.000	6	324	17,025	3.5	53,970
2014	2	1.000	2	12	16,848	1.2	6,205
2015	7	1.000	7	544	16,959	4.1	77,726
2016	1	1.000	1	2	17,272	0.6	1,641
2017	8	1.000	8	608	17,242	4.6	76,025
2018	2	1.026	2	31	16,625	1.2	15,108
2019	2	1.179	2	11	16,744	1.4	4,451
2020	2	1.561	4	269	16,451	2.5	65,774
TOTAL	295		297	\$7,205			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2).

(4) = Exhibit V, Page 1A, Column (5).

(6) = [(3) / [(5) / 1000]] ; (7) = [(3) / (4)] x 1000.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	25.3%	45.8%	69.9%	90.8%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	25.3%	20.5%	24.2%	20.9%	7.5%	1.7%	0.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		27.4%	32.4%	27.9%	10.1%	2.3%	0.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	25.3%	20.5%	24.2%	20.9%	7.5%	1.7%	0.0%	0.0%	0.0%	0.0%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	\$239	0	0	0	0	0	0	0	0	0	0	0
1995	370	0	0	0	0	0	0	0	0	0	0	0
1996	61	0	0	0	0	0	0	0	0	0	0	0
1997	130	0	0	0	0	0	0	0	0	0	0	0
1998	461	0	0	0	0	0	0	0	0	0	0	0
1999	165	0	0	0	0	0	0	0	0	0	0	0
2000	109	0	0	0	0	0	0	0	0	0	0	0
2001	795	0	0	0	0	0	0	0	0	0	0	0
2002	251	0	0	0	0	0	0	0	0	0	0	0
2003	100	0	0	0	0	0	0	0	0	0	0	0
2004	15	0	0	0	0	0	0	0	0	0	0	0
2005	96	0	0	0	0	0	0	0	0	0	0	0
2006	392	0	0	0	0	0	0	0	0	0	0	0
2007	26	0	0	0	0	0	0	0	0	0	0	0
2008	486	0	0	0	0	0	0	0	0	0	0	0
2009	864	0	0	0	0	0	0	0	0	0	0	0
2010	37	0	0	0	0	0	0	0	0	0	0	0
2011	395	0	0	0	0	0	0	0	0	0	0	0
2012	412	0	0	0	0	0	0	0	0	0	0	0
2013	324	0	0	0	0	0	0	0	0	0	0	0
2014	12	0	0	0	0	0	0	0	0	0	0	0
2015	544	0	0	0	0	0	0	0	0	0	0	0
2016	2	0	0	0	0	0	0	0	0	0	0	0
2017	608	138	113	25	0	0	0	0	0	0	0	0
2018	31		22	8	2	0	0	0	0	0	0	0
2019	11	11	5	4	1	0	0	0	0	0	0	0
2020	269	268	73	87	75	27	6	0	0	0	0	0
2021	237		60	55	65	56	20	5	0	0	0	(24)
2022	240			61	49	57	49	18	4	0	0	2
2023	244				62	50	59	51	18	4	0	0
TOTAL	\$7,926	\$449	\$274	\$239	\$253	\$191	\$135	\$73	\$22	\$4	\$0	-\$21

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
AVIATION

REPORTED CLAIM COUNTS

ACCIDENT YEAR*	\$0	\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior	243	212	21	38	22	17	25	0	0	0	0	578
2010	3	2	1	0	1	0	0	0	0	0	0	7
2011	0	0	0	1	2	0	2	0	0	0	0	5
2012	2	1	0	1	0	2	2	0	0	0	0	8
2013	4	0	0	1	0	1	1	0	0	0	0	7
2014	0	1	0	1	0	0	0	0	0	0	0	2
2015	2	1	0	1	0	1	2	0	0	0	0	7
2016	0	1	0	0	0	0	0	0	0	0	0	1
2017	3	0	1	0	0	1	3	0	0	0	0	8
2018	1	0	0	1	0	0	0	0	0	0	0	2
2019	2	0	0	0	0	0	0	0	0	0	0	2
2020	1	0	0	0	0	0	1	0	0	0	0	2
TOTAL	261	218	23	44	25	22	36	0	0	0	0	629

REPORTED LOSSES

ACCIDENT YEAR*	\$0	\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL
Prior	(\$379)	\$212	\$157	\$615	\$765	\$1,256	\$5,044	\$0	\$0	\$0	\$0	\$7,669
2010	0	2	6	0	29	0	0	0	0	0	0	37
2011	0	0	0	14	65	0	316	0	0	0	0	395
2012	0	1	0	14	0	152	245	0	0	0	0	412
2013	0	0	0	17	0	56	250	0	0	0	0	324
2014	0	1	0	11	0	0	0	0	0	0	0	12
2015	0	0	0	14	0	100	430	0	0	0	0	544
2016	0	2	0	0	0	0	0	0	0	0	0	2
2017	0	0	6	0	0	100	500	0	0	0	0	606
2018	0	0	0	25	0	0	0	0	0	0	0	25
2019	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	250	0	0	0	0	250
TOTAL	(\$379)	\$218	\$169	\$710	\$859	\$1,664	\$7,035	\$0	\$0	\$0	\$0	\$10,276

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ALL APPROACHES COMBINED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES BY METHOD				SELECTED ULTIMATE LOSSES	PAID LOSSES @6/30/2020	TOTAL LOSS RESERVES @6/30/2020
	ILDA	PLDA	BFILA	BFPLA			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							\$0
1994	\$65	\$65	\$65	\$65	\$65	\$65	0
1995	853	853	853	853	853	853	0
1996	52	52	52	52	52	52	0
1997	823	823	823	823	823	823	0
1998	1,104	1,104	1,104	1,104	1,104	1,104	0
1999	122	122	122	122	122	122	0
2000	388	388	388	388	388	388	0
2001	583	583	583	583	583	583	0
2002	183	183	183	183	183	183	0
2003	229	229	229	229	229	229	0
2004	229	229	229	229	229	229	0
2005	1,577	1,577	1,577	1,577	1,577	1,577	0
2006	89	89	89	89	89	89	0
2007	1,300	1,300	1,300	1,300	1,300	1,300	0
2008	1,090	1,090	1,090	1,090	1,090	1,090	0
2009	438	438	438	438	438	438	0
2010	229	229	229	229	229	229	0
2011	367	367	367	367	367	367	0
2012	132	132	132	132	132	132	0
2013	409	409	409	409	409	409	0
2014	1,286	1,286	1,286	1,286	1,286	1,286	0
2015	2,209	2,209	2,209	2,209	2,209	2,209	0
2016	24	24	24	24	24	24	0
2017	29	29	29	29	29	29	0
2018	312	317	312	329	312	312	0
2019	2,659	2,632	2,642	2,632	2,641	1,288	1,353
2020	1,136	1,134	23	746	760	0	760
TOTAL	\$17,917	\$17,893	\$16,789	\$17,519	\$17,526	\$15,412	\$2,114

Notes:

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

(5) = Average of (1), (2), (3) & (4).

(6) - Per STATE OF ALASKA

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2021
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2020	ESTIMATED PAID LOSSES FOR FY2021	PAID LOSSES AS OF @6/30/2020	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED LOSS RESERVES AS OF @6/30/2021
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	65	0	0	65	65	0
1995	853	0	0	853	853	0
1996	52	0	0	52	52	0
1997	823	0	0	823	823	0
1998	1,104	0	0	1,104	1,104	0
1999	122	0	0	122	122	0
2000	388	0	0	388	388	0
2001	583	0	0	583	583	0
2002	183	0	0	183	183	0
2003	229	0	0	229	229	0
2004	229	0	0	229	229	0
2005	1,577	0	0	1,577	1,577	0
2006	89	0	0	89	89	0
2007	1,300	0	0	1,300	1,300	0
2008	1,090	0	0	1,090	1,090	0
2009	438	0	0	438	438	0
2010	229	0	0	229	229	0
2011	367	0	0	367	367	0
2012	132	0	0	132	132	0
2013	409	0	0	409	409	0
2014	1,286	0	0	1,286	1,286	0
2015	2,209	0	0	2,209	2,209	0
2016	24	0	0	24	24	0
2017	29	0	0	29	29	0
2018	312	0	0	312	312	0
2019	2,641	1,353	1,114	1,288	2,402	239
2020	760	760	658	0	658	102
2021	966		313		313	653
TOTAL	\$18,492	\$2,114	\$2,086	\$15,412	\$17,498	\$994

Notes:

- (1) - For 2020 and prior, ultimate losses based from Exhibit VI, Page 1A, Column (5). For 2021, ultimate loss is the projected loss in Exhibit VI, Page 6.
(2) - For 2020 and prior, loss reserves based from Exhibit VI, Page 1A, Column (7).
(3) - From Exhibit VI, Page 9.
(4) - From Exhibit VI, Page 1A, Column (6).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2022
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2021	ESTIMATED PAID LOSSES FOR FY2022	ESTIMATED PAID LOSSES AS OF @6/30/2021	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED LOSS RESERVES AS OF @6/30/2022
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	65	0	0	65	65	0
1995	853	0	0	853	853	0
1996	52	0	0	52	52	0
1997	823	0	0	823	823	0
1998	1,104	0	0	1,104	1,104	0
1999	122	0	0	122	122	0
2000	388	0	0	388	388	0
2001	583	0	0	583	583	0
2002	183	0	0	183	183	0
2003	229	0	0	229	229	0
2004	229	0	0	229	229	0
2005	1,577	0	0	1,577	1,577	0
2006	89	0	0	89	89	0
2007	1,300	0	0	1,300	1,300	0
2008	1,090	0	0	1,090	1,090	0
2009	438	0	0	438	438	0
2010	229	0	0	229	229	0
2011	367	0	0	367	367	0
2012	132	0	0	132	132	0
2013	409	0	0	409	409	0
2014	1,286	0	0	1,286	1,286	0
2015	2,209	0	0	2,209	2,209	0
2016	24	0	0	24	24	0
2017	29	0	0	29	29	0
2018	312	0	0	312	312	0
2019	2,641	239	239	2,402	2,641	0
2020	760	102	84	658	742	18
2021	966	653	445	313	758	208
2022	1,025		332		332	693
TOTAL	\$19,517	\$994	\$1,100	\$17,498	\$18,598	\$919

Notes:

- (1) - For 2021 and prior, ultimate losses based from Exhibit VI, Page 1B, Column (1). For 2022, ultimate loss is the projected loss in Exhibit VI, Page 6.
(2) - For 2021 and prior, loss reserves based from Exhibit VI, Page 1B, Column (6).
(3) - From Exhibit VI, Page 9.
(4) - From Exhibit VI, Page 1B, Column (5).
(5) = (3) + (4)
(6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF UNDISCOUNTED LOSS RESERVES
AS OF JUNE 30, 2023
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	LOSS RESERVES AS OF @6/30/2022	ESTIMATED PAID LOSSES FOR FY2023	ESTIMATED PAID LOSSES AS OF @6/30/2022	ESTIMATED PAID LOSSES AS OF @6/30/2023	ESTIMATED LOSS RESERVES AS OF @6/30/2023
	(1)	(2)	(3)	(4)	(5)	(6)
Prior		\$0	\$0			\$0
1994	65	0	0	65	65	0
1995	853	0	0	853	853	0
1996	52	0	0	52	52	0
1997	823	0	0	823	823	0
1998	1,104	0	0	1,104	1,104	0
1999	122	0	0	122	122	0
2000	388	0	0	388	388	0
2001	583	0	0	583	583	0
2002	183	0	0	183	183	0
2003	229	0	0	229	229	0
2004	229	0	0	229	229	0
2005	1,577	0	0	1,577	1,577	0
2006	89	0	0	89	89	0
2007	1,300	0	0	1,300	1,300	0
2008	1,090	0	0	1,090	1,090	0
2009	438	0	0	438	438	0
2010	229	0	0	229	229	0
2011	367	0	0	367	367	0
2012	132	0	0	132	132	0
2013	409	0	0	409	409	0
2014	1,286	0	0	1,286	1,286	0
2015	2,209	0	0	2,209	2,209	0
2016	24	0	0	24	24	0
2017	29	0	0	29	29	0
2018	312	0	0	312	312	0
2019	2,641	0	0	2,641	2,641	0
2020	760	18	18	742	760	0
2021	966	208	57	758	814	152
2022	1,025	693	566	332	898	127
2023	1,087		352		352	735
TOTAL	\$20,604	\$919	\$992	\$18,598	\$19,590	\$1,014

Notes:

- (1) - For 2022 and prior, ultimate losses based from Exhibit VI, Page 1C, Column (1). For 2023, ultimate loss is the projected loss in Exhibit VI, Page 6.
 (2) - For 2022 and prior, loss reserves based from Exhibit VI, Page 1C, Column (6).
 (3) - From Exhibit VI, Page 9.
 (4) - From Exhibit VI, Page 1C, Column (5).
 (5) = (3) + (4)
 (6) = (1) - (5)

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - LOSS DEVELOPMENT APPROACH
AS OF JUNE 30, 2020
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED INCURRED LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	PROPERTY VALUE (\$MM)	ESTIMATED LOSS RATE
	(1)	(2)	(3)	(4)	(5)
Prior					
1994	\$65	1.000	\$65	N/A	
1995	853	1.000	853	N/A	
1996	52	1.000	52	N/A	
1997	823	1.000	823	N/A	
1998	1,104	1.000	1,104	N/A	
1999	122	1.000	122	N/A	
2000	388	1.000	388	N/A	
2001	583	1.000	583	N/A	
2002	183	1.000	183	N/A	
2003	229	1.000	229	3,319	0.069
2004	229	1.000	229	3,518	0.065
2005	1,577	1.000	1,577	4,059	0.389
2006	89	1.000	89	4,177	0.021
2007	1,300	1.000	1,300	4,245	0.306
2008	1,090	1.000	1,090	4,372	0.249
2009	438	1.000	438	4,503	0.097
2010	229	1.000	229	4,638	0.049
2011	367	1.000	367	4,713	0.078
2012	132	1.000	132	4,695	0.028
2013	409	1.000	409	5,132	0.080
2014	1,286	1.000	1,286	5,849	0.220
2015	2,209	1.000	2,209	6,090	0.363
2016	24	1.000	24	7,507	0.003
2017	29	1.000	29	7,436	0.004
2018	312	1.000	312	7,241	0.043
2019	2,632	1.010	2,659	7,298	0.364
2020	0	1.022	1,136	7,701	0.147
TOTAL	\$16,756		\$17,917		

PAID LOSS DEVELOPMENT APPROACH

ACCIDENT YEAR*	LIMITED PAID LOSSES @6/30/2020	LOSS DEVLPMT FACTORS	ULTIMATE INCURRED LOSSES	PROPERTY VALUE (\$MM)	ESTIMATED LOSS RATE
	(6)	(7)	(8)	(9)	(10)
Prior					
1994	\$65	1.000	\$65	N/A	
1995	853	1.000	853	N/A	
1996	52	1.000	52	N/A	
1997	823	1.000	823	N/A	
1998	1,104	1.000	1,104	N/A	
1999	122	1.000	122	N/A	
2000	388	1.000	388	N/A	
2001	583	1.000	583	N/A	
2002	183	1.000	183	N/A	
2003	229	1.000	229	3,319	0.069
2004	229	1.000	229	3,518	0.065
2005	1,577	1.000	1,577	4,059	0.389
2006	89	1.000	89	4,177	0.021
2007	1,300	1.000	1,300	4,245	0.306
2008	1,090	1.000	1,090	4,372	0.249
2009	438	1.000	438	4,503	0.097
2010	229	1.000	229	4,638	0.049
2011	367	1.000	367	4,713	0.078
2012	132	1.000	132	4,695	0.028
2013	409	1.000	409	5,132	0.080
2014	1,286	1.000	1,286	5,849	0.220
2015	2,209	1.000	2,209	6,090	0.363
2016	24	1.000	24	7,507	0.003
2017	29	1.000	29	7,436	0.004
2018	312	1.016	317	7,241	0.044
2019	1,288	1.099	2,632	7,298	0.361
2020	0	3.090	1,134	7,701	0.147
TOTAL	\$15,412		\$17,893		

Notes:

(1), (4), (6) & (9) - Per STATE OF ALASKA.

(2) & (7) - Per State's historical loss pattern, supplemented by AM Best insurance industry 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 incurred 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.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE LOSSES - BORNHUETTER-FERGUSON APPROACH
AS OF JUNE 30, 2020
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

BORNHUETTER-FERGUSON INCURRED LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PROPERTY VALUE (\$MM)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNREPORTED	IBNR RESERVES	UNLIMITED INCURRED LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Prior							
1994	0.143	N/A	\$65	0.0%	\$0	\$65	\$65
1995	0.143	N/A	853	0.0%	0	853	853
1996	0.143	N/A	52	0.0%	0	52	52
1997	0.143	N/A	823	0.0%	0	823	823
1998	0.143	N/A	1,104	0.0%	0	1,104	1,104
1999	0.143	N/A	122	0.0%	0	122	122
2000	0.143	N/A	388	0.0%	0	388	388
2001	0.143	N/A	583	0.0%	0	583	583
2002	0.143	N/A	183	0.0%	0	183	183
2003	0.143	3,319	475	0.0%	0	229	229
2004	0.143	3,518	504	0.0%	0	229	229
2005	0.143	4,059	581	0.0%	0	1,577	1,577
2006	0.143	4,177	598	0.0%	0	89	89
2007	0.143	4,245	608	0.0%	0	1,300	1,300
2008	0.143	4,372	626	0.0%	0	1,090	1,090
2009	0.143	4,503	645	0.0%	0	438	438
2010	0.143	4,638	664	0.0%	0	229	229
2011	0.143	4,713	675	0.0%	0	367	367
2012	0.143	4,695	672	0.0%	0	132	132
2013	0.143	5,132	735	0.0%	0	409	409
2014	0.143	5,849	837	0.0%	0	1,286	1,286
2015	0.143	6,090	872	0.0%	0	2,209	2,209
2016	0.143	7,507	1,075	0.0%	0	24	24
2017	0.143	7,436	1,064	0.0%	0	29	29
2018	0.143	7,241	1,036	0.0%	0	312	312
2019	0.143	7,298	1,045	1.0%	10	2,632	2,642
2020	0.143	7,701	1,102	2.1%	23	0	23
TOTAL			\$17,985		\$33	\$16,756	\$16,789

BORNHUETTER-FERGUSON PAID LOSS APPROACH

ACCIDENT YEAR*	ESTIMATED LOSS RATE	PROPERTY VALUE (\$MM)	EXPECTED ULTIMATE LOSSES	EXPECTED % OF LOSSES UNPAID	LOSS RESERVES	UNLIMITED PAID LOSSES @6/30/2020	ULTIMATE INCURRED LOSSES
	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior							
1994	0.143	N/A	\$65	0.0%	\$0	\$65	\$65
1995	0.143	N/A	853	0.0%	0	853	853
1996	0.143	N/A	52	0.0%	0	52	52
1997	0.143	N/A	823	0.0%	0	823	823
1998	0.143	N/A	1,104	0.0%	0	1,104	1,104
1999	0.143	N/A	122	0.0%	0	122	122
2000	0.143	N/A	388	0.0%	0	388	388
2001	0.143	N/A	583	0.0%	0	583	583
2002	0.143	N/A	183	0.0%	0	183	183
2003	0.143	3,319	475	0.0%	0	229	229
2004	0.143	3,518	504	0.0%	0	229	229
2005	0.143	4,059	581	0.0%	0	1,577	1,577
2006	0.143	4,177	598	0.0%	0	89	89
2007	0.143	4,245	608	0.0%	0	1,300	1,300
2008	0.143	4,372	626	0.0%	0	1,090	1,090
2009	0.143	4,503	645	0.0%	0	438	438
2010	0.143	4,638	664	0.0%	0	229	229
2011	0.143	4,713	675	0.0%	0	367	367
2012	0.143	4,695	672	0.0%	0	132	132
2013	0.143	5,132	735	0.0%	0	409	409
2014	0.143	5,849	837	0.0%	0	1,286	1,286
2015	0.143	6,090	872	0.0%	0	2,209	2,209
2016	0.143	7,507	1,075	0.0%	0	24	24
2017	0.143	7,436	1,064	0.0%	0	29	29
2018	0.143	7,241	1,036	1.6%	17	312	329
2019	0.143	7,298	1,045	9.0%	94	1,288	2,632
2020	0.143	7,701	1,102	67.6%	746	0	746
TOTAL			\$17,985		\$857	\$15,412	\$17,519

Notes:

(1) & (8) - The average of the loss rates of prior years as shown in Columns (5) and (10) of Exhibit VI, Page 2.

(2) & (9) - Per STATE OF ALASKA.

(3) = (1) x (2); (10) = (8) x (9). For 2002 & prior, average of Exhibit VI, Columns (5) & (10).

(4) = (1 - (1/ILDF)); (11) = (1 - (1/PLDF)).

(5) = (3) x (4); (12) = (10) x (11).

(6) & (13) - Per STATE OF ALASKA.

(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).

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												65
1995											853	853
1996										77	77	77
1997									823	823	823	823
1998								1,104	1,104	1,104	1,104	1,104
1999							138	122	122	122	122	122
2000						388	388	388	388	388	388	388
2001					599	599	587	587	587	587	583	583
2002				186	186	186	186	183	183	183	183	183
2003			229	229	229	229	229	229	229	229	229	229
2004		232	242	229	229	229	229	229	229	229	229	229
2005	2,909	2,269	202	1,582	1,692	1,692	1,692	1,577	1,577	1,577	1,577	1,577
2006	264	176	91	90	90	90	89	89	89	89	89	89
2007	1,510	1,310	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
2008	827	827	1,065	1,085	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090
2009	127	865	865	438	438	438	438	438	438	438	438	438
2010	229	230	230	230	230	229	229	229	229	229	229	
2011	418	409	413	367	367	367	367	367	367	367		
2012	142	128	132	136	136	132	132	132	132			
2013	235	469	409	409	409	409	409	409				
2014	2,438	1,289	1,286	1,286	1,286	1,286	1,286					
2015	2,238	2,231	2,209	2,209	2,209	2,209						
2016	190	76	24	24	24							
2017	106	34	29	29								
2018	987	356	312									
2019	2,747	2,632										
2020	0											

INCURRED 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
	24	36	48	60	72	84	96	108	120	132	144	156
1994												1.000
1995											1.000	1.000
1996										1.000	1.000	0.987
1997									1.000	1.000	1.000	1.000
1998								1.000	1.000	1.000	1.000	1.000
1999							0.884	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
2001					1.000	0.980	1.000	1.000	1.000	0.993	1.000	1.000
2002				1.000	1.000	1.000	1.000	0.984	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
2004		1.043	0.946	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	0.780	0.089	7.832	1.070	1.000	1.000	0.932	1.000	1.000	1.000	1.000	1.000
2006	0.667	0.517	0.989	1.000	1.000	0.989	1.000	1.000	1.000	1.000	0.996	1.000
2007	0.868	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.000	1.288	1.019	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	6.811	1.000	0.506	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.004	1.000	1.000	1.000	0.996	1.000	0.999	1.000	1.000	1.000		
2011	0.978	1.010	0.889	1.000	1.000	0.999	1.000	1.000	1.000			
2012	0.901	1.031	1.030	1.000	0.970	1.000	1.000	1.000				
2013	1.996	0.872	1.000	1.000	1.000	1.000	1.000					
2014	0.529	0.998	1.000	1.000	1.000	1.000						
2015	0.997	0.990	1.000	1.000	1.000							
2016	0.402	0.320	1.000	1.000								
2017	0.323	0.843	1.000									
2018	0.361	0.876										
2019	0.958											
AVERAGE	1.238	0.858	1.414	1.005	0.998	0.998	0.988	0.999	1.000	1.000	1.000	0.999
3 YR AVG.	0.547	0.680	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	0.880	0.884	0.990	1.000	1.000	0.999	0.995	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	0.574	0.903	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.011	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	1.361	1.143	1.071	1.029	1.011	1.004	1.002	1.000	1.000	1.000	1.000	1.000
SELECTED	1.011	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.022	1.010	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE INCURRED LOSS DEVELOPMENT FACTORS
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

INCURRED LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS														
	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
1995	853	853	853	853	853	853	853	853	853	853	853	853	853	853	
1996	76	77	77	77	76	76	76	76	76	52	52	52	52		
1997	823	823	823	823	823	823	823	823	823	823	823	823			
1998	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104				
1999	122	122	122	122	122	122	122	122	122	122					
2000	388	388	388	388	388	388	388	388	388						
2001	583	583	583	583	583	583	583	583							
2002	183	183	183	183	183	183	183								
2003	229	229	229	229	229	229									
2004	229	229	229	229	229										
2005	1,577	1,577	1,577	1,577											
2006	89	89	89												
2007	1,300	1,300													
2008	1,090														
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

INCURRED LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
	168	180	192	204	216	228	240	252	264	276	288	300	312	324	ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	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		
1996	1.013	1.000	1.000	0.987	1.000	1.000	1.000	1.000	0.683	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				
1998	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	1.004	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	0.999	1.000	1.000	1.000								
2002	1.000	1.000	1.003	1.000	1.000	1.000									
2003	1.000	0.999	1.000	1.000	1.000										
2004	1.001	1.000	1.000	1.000											
2005	1.000	1.000	1.000												
2006	1.000	1.000													
2007	1.000														
2008															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.001	1.000	1.000	0.999	1.000	1.000	1.000	1.000	0.947	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			
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 EXCL HI LO	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
AM BEST	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												65
1995											853	853
1996										77	77	77
1997									823	823	823	823
1998								1,104	1,104	1,104	1,104	1,104
1999							122	122	122	122	122	122
2000						388	388	388	388	388	388	388
2001					583	583	583	583	583	583	583	583
2002				183	183	183	183	183	183	183	183	183
2003			229	229	229	229	229	229	229	229	229	229
2004		219	229	229	229	229	229	229	229	229	229	229
2005	580	1,562	1,577	1,577	1,577	1,692	1,692	1,577	1,577	1,577	1,577	1,577
2006	71	89	89	89	89	89	89	89	89	89	89	89
2007	826	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
2008	211	458	1,065	1,085	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090
2009	93	438	438	438	438	438	438	438	438	438	438	438
2010	229	230	230	230	230	229	229	229	229	229	229	
2011	246	362	367	367	367	367	367	367	367	367		
2012	102	128	132	132	132	132	132	132	132			
2013	62	373	409	409	409	409	409	409				
2014	211	1,289	1,286	1,286	1,286	1,286	1,286					
2015	1,184	1,412	1,509	2,209	2,209	2,209						
2016	20	24	24	24	24							
2017	14	29	29	29								
2018	32	308	312									
2019	0	1,288										
2020	0											

PAID 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
	24	36	48	60	72	84	96	108	120	132	144	156
1994												1.000
1995											1.000	1.000
1996										1.000	1.000	0.987
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						1.000	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
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	1.000
2004		1.046	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005	2.693	1.010	1.000	1.000	1.073	1.000	0.932	1.000	1.000	1.000	1.000	1.000
2006	1.254	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996	1.000
2007	1.574	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	2.171	2.325	1.019	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	4.710	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010	1.004	1.000	1.000	1.000	0.996	1.000	0.999	1.000	1.000	1.000		
2011	1.472	1.014	1.000	1.000	1.000	0.999	1.000	1.000	1.000			
2012	1.255	1.031	1.000	1.000	1.000	1.000	1.000	1.000				
2013	6.016	1.097	1.000	1.000	1.000	1.000	1.000					
2014	6.109	0.998	1.000	1.000	1.000	1.000						
2015	1.193	1.069	1.464	1.000	1.000							
2016	1.222	1.000	1.000	1.000								
2017	2.111	1.000	1.000									
2018	9.645	1.012										
2019												
AVERAGE	3.031	1.107	1.032	1.000	1.005	1.000	0.995	1.000	1.000	1.000	1.000	0.999
3 YR AVG.	5.878	1.004	1.155	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EXCL HI LO	2.648	1.021	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 YR AVG EXCL HI LO	1.667	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	2.756	1.087	1.013	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
AM BEST	2.108	1.441	1.231	1.112	1.048	1.021	1.010	1.005	1.002	1.002	1.001	1.001
SELECTED	2.811	1.082	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	3.090	1.099	1.016	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF THE PAID LOSS DEVELOPMENT FACTORS
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PAID LOSS DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324
1994	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
1995	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853
1996	76	76	77	77	76	76	76	76	76	52	52	52	52	52	52
1997	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823
1998	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104
1999	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122
2000	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388
2001	583	583	583	583	583	583	583	583	583	583	583	583	583	583	583
2002	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
2003	229	229	229	229	229	229	229	229	229	229	229	229	229	229	229
2004	229	229	229	229	229	229	229	229	229	229	229	229	229	229	229
2005	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577	1,577
2006	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
2007	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
2008	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090	1,090
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
2020															

PAID LOSS DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	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	1.000
1996	1.000	1.013	1.000	0.987	1.000	1.000	1.000	1.000	0.683	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	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	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	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	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	1.000
2002	1.000	1.000	1.003	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	0.999	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	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	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	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	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	1.000	1.000
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
AVERAGE	1.000	1.001	1.000	0.999	1.000	1.000	1.000	1.000	0.947	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	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	1.000
5 YR AVG 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	1.000
PRIOR 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	1.000
AM BEST	1.001	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	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	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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
PROPERTY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	DEVELOPMENT MONTHS											
	12	24	36	48	60	72	84	96	108	120	132	144
1994												14
1995											31	31
1996										23	23	23
1997									33	33	33	33
1998								21	21	21	21	21
1999							20	20	20	20	20	20
2000						24	24	24	24	24	24	24
2001					16	16	16	16	16	16	16	16
2002				14	14	14	14	14	14	14	14	14
2003			35	35	35	35	35	35	35	35	34	34
2004		37	37	37	37	37	37	37	37	37	37	37
2005	30	34	34	34	34	34	34	34	34	34	34	34
2006	22	24	24	24	24	24	24	24	24	24	24	24
2007	23	27	27	27	27	27	27	27	27	27	27	27
2008	22	23	23	23	23	23	23	23	23	23	23	23
2009	13	16	16	16	16	16	16	16	16	16	16	16
2010	15	15	15	15	15	15	15	15	15	15	15	
2011	21	24	24	24	24	24	24	24	24	24		
2012	18	19	19	19	19	19	19	19	19			
2013	24	29	29	29	29	29	29	29				
2014	17	18	18	18	18	18	18					
2015	14	15	15	15	15	15						
2016	15	15	15	15	15							
2017	18	19	19	19								
2018	19	19	19									
2019	31	36										
2020	14											

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
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						1.000	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
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	0.971	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
2005	1.133	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007	1.174	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008	1.045	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009	1.231	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		
2011	1.143	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2012	1.056	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
2013	1.208	1.000	1.000	1.000	1.000	1.000	1.000					
2014	1.059	1.000	1.000	1.000	1.000	1.000						
2015	1.071	1.000	1.000	1.000	1.000							
2016	1.000	1.000	1.000	1.000								
2017	1.056	1.000	1.000									
2018	1.000	1.000										
2019	1.161											
AVERAGE	1.095	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.000
3 YR AVG.	1.072	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	1.092	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 EXCL HI LO	1.042	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRIOR SELECTED	1.070	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
SELECTED	1.075	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CUMULATIVE	1.075	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 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF CLAIM COUNT DEVELOPMENT FACTORS
PROPERTY

REPORTED CLAIM COUNT DEVELOPMENT

ACCIDENT YEAR*	156	168	180	192	204	216	DEVELOPMENT MONTHS							300	312	324
							228	240	252	264	276	288				
1994	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1995	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
1996	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
1997	33	33	33	33	33	33	33	33	33	33	33	33	33			
1998	21	21	21	21	21	21	21	21	21	21	21					
1999	20	20	20	20	20	20	20	20	20	20						
2000	24	24	24	24	24	24	24	24	24							
2001	16	16	16	16	16	16	16	16								
2002	14	14	14	14	14	14	14									
2003	34	34	34	34	34	34										
2004	37	37	37	37	37											
2005	34	34	34	34												
2006	24	24	24													
2007	27	27														
2008	23															
2009																
2010																
2011																
2012																
2013																
2014																
2015																
2016																
2017																
2018																
2019																
2020																

CLAIM COUNT DEVELOPMENT FACTORS

ACCIDENT YEAR*	156 TO 168	168 TO 180	180 TO 192	192 TO 204	204 TO 216	216 TO 228	228 TO 240	240 TO 252	252 TO 264	264 TO 276	276 TO 288	288 TO 300	300 TO 312	312 TO 324	324 TO ULT
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		
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	1.000	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		
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		
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															
2009															
2010															
2011															
2012															
2013															
2014															
2015															
2016															
2017															
2018															
2019															
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 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	
PRIOR 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	
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	1.000

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF DISCOUNTED RESERVES
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	0	0.985	0	0
2019	1,353	0.980	1,326	27
2020	760	0.981	745	15
TOTAL	\$2,114		\$2,073	\$41

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$2,073
75%	2,755
85%	3,293
95%	4,441

Notes:

(1) - Per Exhibit VI, Page 1A, Column (7).

(2) - Per AMI calculations, see Appendix A, Page 6.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2021
CALCULATION OF DISCOUNTED RESERVES
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
(1)	(2)	(3)	(4)	
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	0	1.000	0	0
2019	239	0.985	236	4
2020	102	0.980	100	2
2021	653	0.981	641	13
TOTAL	\$994		\$976	\$18

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$976
75%	1,297
85%	1,550
95%	2,091

Notes:

(1) - Per Exhibit VI, Page 1B, Column (6).

(2) - Per AMI calculations, see Appendix A, Page 6.

(3) = (1) x (2).

(4) = (1) - (3). Excludes investment income on the margin.

(5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2022
CALCULATION OF DISCOUNTED RESERVES
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	0	1.000	0	0
2019	0	1.000	0	0
2020	18	0.985	18	0
2021	208	0.980	204	4
2022	693	0.981	680	13
TOTAL	\$919		\$902	\$18

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$902
75%	1,199
85%	1,432
95%	1,932

Notes:

- (1) - Per Exhibit VI, Page 1C, Column (6).
 (2) - Per AMI calculations, see Appendix A, Page 6.
 (3) = (1) x (2).
 (4) = (1) - (3). Excludes investment income on the margin.
 (5) = (3) + margin based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2023
CALCULATION OF DISCOUNTED RESERVES
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	TOTAL RESERVES	DISCOUNT FACTORS	TOTAL DISCOUNTED RESERVES	FUTURE INVESTMENT INCOME
	(1)	(2)	(3)	(4)
Prior	\$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	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	0	1.000	0	0
2009	0	1.000	0	0
2010	0	1.000	0	0
2011	0	1.000	0	0
2012	0	1.000	0	0
2013	0	1.000	0	0
2014	0	1.000	0	0
2015	0	1.000	0	0
2016	0	1.000	0	0
2017	0	1.000	0	0
2018	0	1.000	0	0
2019	0	1.000	0	0
2020	0	1.000	0	0
2021	152	0.985	149	2
2022	127	0.980	125	3
2023	735	0.981	721	14
TOTAL	\$1,014		\$995	\$19

ESTIMATING DISCOUNTED RESERVES AT VARIOUS CONFIDENCE LEVELS

CONFIDENCE LEVELS	DISCOUNTED RESERVES
	(5)
EXPECTED	\$995
75%	1,323
85%	1,581
95%	2,132

Notes:

- (1) - Per Exhibit VI, Page 1D, Column (6).
(2) - Per AMI calculations, see Appendix A, Page 6.
(3) = (1) x (2).
(4) = (1) - (3). Excludes investment income on the margin.
(5) = (3) + margin based on Monte Carlo Simulation.
* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
CALCULATION OF PROJECTED LOSSES
PROPERTY
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

PROJECTED ULTIMATE LOSSES

ACCIDENT YEAR*	SELECTED ULTIMATE LOSSES	PROPERTY VALUE (\$MM)	LOSS RATE
	(1)	(2)	(3)
Prior			
1994	\$65	N/A	
1995	853	N/A	
1996	52	N/A	
1997	823	N/A	
1998	1,104	N/A	
1999	122	N/A	
2000	388	N/A	
2001	583	N/A	
2002	183	N/A	
2003	229	3,319	0.07
2004	229	3,518	0.07
2005	1,577	4,059	0.39
2006	89	4,177	0.02
2007	1,300	4,245	0.31
2008	1,090	4,372	0.25
2009	438	4,503	0.10
2010	229	4,638	0.05
2011	367	4,713	0.08
2012	132	4,695	0.03
2013	409	5,132	0.08
2014	1,286	5,849	0.22
2015	2,209	6,090	0.36
2016	24	7,507	0.00
2017	29	7,436	0.00
2018	312	7,241	0.04
2019	2,641	7,298	0.36
2020	760	7,701	0.10
(PROJ.) 2020/2021	\$966	8,086	0.12
(PROJ.) 2021/2022	1,025	8,491	0.12
(PROJ.) 2022/2023	1,087	8,915	0.12

DISCOUNTED FUNDING REQUIREMENTS FOR PROSPECTIVE YEARS

ACCIDENT YEAR*	PROJECTED LOSSES	DISCOUNT FACTORS	DISCOUNTED PROJECTED LOSSES	FUTURE INVESTMENT INCOME
	(4)	(5)	(6)	(7)
2021	\$966	0.963	\$930	\$36
2022	1,025	0.963	987	38
2023	1,087	0.963	1,047	40

DISCOUNTED FUNDING REQUIREMENTS AT VARIOUS CONFIDENCE LEVELS

ACCIDENT YEAR*	EXPECTED LEVEL	75% LEVEL	85% LEVEL	95% LEVEL
	(8)	(9)	(10)	(11)
2021	\$930	\$1,280	\$1,547	\$2,073
2022	987	1,359	1,642	2,200
2023	1,047	1,441	1,741	2,334

Notes:

(1) - Per Exhibit VI, Page 1A, Column (5). For projected years, (1) = (2) x (3).

(2) - Per STATE OF ALASKA.

(3) = (1) / (2). For the projected years, it is the trended average of prior years.

(4) = (1); (5) - Per Appendix A, Page 3, Column (7).

(6) = (4) x (5); (7) = (4) - (6).

(8) = (6).

(9) to (11) - Based on Monte Carlo Simulation.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF ULTIMATE CLAIM FREQUENCY AND ULTIMATE CLAIM SEVERITY
AS OF JUNE 30, 2020
PROPERTY
LIMITED TO RETENTION

ACCIDENT YEAR*	CLAIMS REPORTED @6/30/2020	DEVELOPMENT FACTORS	ULTIMATE CLAIM COUNT	ULTIMATE LOSSES	PROPERTY VALUE (\$MM)	NUMBER OF CLAIMS PER \$B OF PROPERTY VALUE (FREQUENCY)	AVERAGE CLAIM (SEVERITY) (WHOLE DOLLARS)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1994	14	1.000	14	\$65	N/A		\$4,639
1995	31	1.000	31	853	N/A		27,524
1996	23	1.000	23	52	N/A		2,259
1997	33	1.000	33	823	N/A		24,942
1998	21	1.000	21	1,104	N/A		52,585
1999	20	1.000	20	122	N/A		6,122
2000	24	1.000	24	388	N/A		16,173
2001	16	1.000	16	583	N/A		36,426
2002	14	1.000	14	183	N/A		13,104
2003	34	1.000	34	229	3,319	10	6,730
2004	37	1.000	37	229	3,518	11	6,198
2005	34	1.000	34	1,577	4,059	8	46,376
2006	24	1.000	24	89	4,177	6	3,702
2007	27	1.000	27	1,300	4,245	6	48,165
2008	23	1.000	23	1,090	4,372	5	47,412
2009	16	1.000	16	438	4,503	4	27,385
2010	15	1.000	15	229	4,638	3	15,260
2011	24	1.000	24	367	4,713	5	15,290
2012	19	1.000	19	132	4,695	4	6,948
2013	29	1.000	29	409	5,132	6	14,107
2014	18	1.000	18	1,286	5,849	3	71,484
2015	15	1.000	15	2,209	6,090	2	147,333
2016	15	1.000	15	24	7,507	2	1,630
2017	19	1.000	19	29	7,436	3	1,524
2018	19	1.000	19	312	7,241	3	16,406
2019	36	1.000	36	2,641	7,298	5	73,396
2020	14	1.075	36	760	7,701	5	20,915
TOTAL	614		636	\$17,526			

Notes:

(1) & (5) - Per STATE OF ALASKA.

(2) - Per STATE OF ALASKA's historical loss patterns.

(3) = (1) x (2). For the latest year, it is (6) x (5)/1000.

(4) = Exhibit VI, Page 1A, Column (5).

(6) = [(3) / [(5) / 1000]] ; (7) = [(3) / (4)] x 1000. For the latest year, it is the average of prior years.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF PAID LOSS CASH FLOW
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

YEAR	1	2	3	4	5	6	7	8	9	10
CUMULATIVE LOSS PAYOUT PATTERN	32.4%	91.0%	98.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
INCREMENTAL LOSS PAYOUT PATTERN	32.4%	58.6%	7.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF UNPAID AT 6/30/2020		86.6%	11.0%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PAYOUT AS PERCENTAGE OF ULTIMATE LOSS	32.4%	58.6%	7.4%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSS	ESTIMATED UNPAID 6/30/2020	ESTIMATED FUTURE PAYMENTS FOR FISCAL YEAR ENDING									
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 & SUBSEQUENT
Prior		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	\$65	0	0	0	0	0	0	0	0	0	0	0
1995	853	0	0	0	0	0	0	0	0	0	0	0
1996	52	0	0	0	0	0	0	0	0	0	0	0
1997	823	0	0	0	0	0	0	0	0	0	0	0
1998	1,104	0	0	0	0	0	0	0	0	0	0	0
1999	122	0	0	0	0	0	0	0	0	0	0	0
2000	388	0	0	0	0	0	0	0	0	0	0	0
2001	583	0	0	0	0	0	0	0	0	0	0	0
2002	183	0	0	0	0	0	0	0	0	0	0	0
2003	229	0	0	0	0	0	0	0	0	0	0	0
2004	229	0	0	0	0	0	0	0	0	0	0	0
2005	1,577	0	0	0	0	0	0	0	0	0	0	0
2006	89	0	0	0	0	0	0	0	0	0	0	0
2007	1,300	0	0	0	0	0	0	0	0	0	0	0
2008	1,090	0	0	0	0	0	0	0	0	0	0	0
2009	438	0	0	0	0	0	0	0	0	0	0	0
2010	229	0	0	0	0	0	0	0	0	0	0	0
2011	367	0	0	0	0	0	0	0	0	0	0	0
2012	132	0	0	0	0	0	0	0	0	0	0	0
2013	409	0	0	0	0	0	0	0	0	0	0	0
2014	1,286	0	0	0	0	0	0	0	0	0	0	0
2015	2,209	0	0	0	0	0	0	0	0	0	0	0
2016	24	0	0	0	0	0	0	0	0	0	0	0
2017	29	0	0	0	0	0	0	0	0	0	0	0
2018	312	0	0	0	0	0	0	0	0	0	0	0
2019	2,641	1,353	1,114	239	0	0	0	0	0	0	0	0
2020	760	760	658	84	18	0	0	0	0	0	0	0
2021	966		313	445	57	12	0	0	0	0	0	139
2022	1,025			332	566	72	15	0	0	0	0	40
2023	1,087				352	637	81	17	0	0	0	0
TOTAL	\$20,604	\$2,114	\$2,086	\$1,100	\$992	\$721	\$96	\$17	\$0	\$0	\$0	\$179

Notes:

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SIZE OF LOSS DISTRIBUTION
AS OF JUNE 30, 2020
PROPERTY
UNLIMITED

REPORTED CLAIM COUNTS

ACCIDENT YEAR*	\$0.01 TO \$5,000	\$5,000 TO \$10,000	\$10,000 TO \$25,000	\$25,000 TO \$50,000	\$50,000 TO \$100,000	\$100,000 TO \$250,000	\$250,000 TO \$500,000	\$500,000 TO \$750,000	\$750,000 TO \$1,000,000	OVER \$1,000,000	TOTAL	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior	210	426	95	70	39	29	15	7	2	3	0	896
2010	3	8	0	3	0	0	1	0	0	0	0	15
2011	8	7	1	5	4	0	1	0	0	0	0	26
2012	10	5	2	2	1	1	0	0	0	0	0	21
2013	16	5	2	5	1	0	0	1	0	0	0	30
2014	4	8	2	1	1	0	1	0	0	1	0	18
2015	6	4	2	0	0	0	1	0	0	2	0	15
2016	10	4	0	1	0	0	0	0	0	0	0	15
2017	12	6	0	1	0	0	0	0	0	0	0	19
2018	5	10	0	2	0	1	1	0	0	0	0	19
2019	6	5	5	5	5	4	5	0	0	1	0	36
2020	3	6	2	0	2	0	0	0	0	1	0	14
TOTAL	293	494	111	95	53	35	25	8	2	8	0	1,124

REPORTED LOSSES

ACCIDENT YEAR*		\$0.01	\$5,000	\$10,000	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000		
	\$0	TO \$5,000	TO \$10,000	TO \$25,000	TO \$50,000	TO \$100,000	TO \$250,000	TO \$500,000	TO \$750,000	TO \$1,000,000	OVER \$1,000,000	TOTAL
Prior	(\$3,263)	\$670	\$703	\$1,079	\$1,431	\$2,178	\$2,211	\$2,932	\$1,845	\$1,665	\$1,437	\$12,889
2010	0	16	0	48	0	0	164	0	0	0	0	229
2011	0	16	7	65	138	0	142	0	0	0	0	367
2012	0	9	16	24	30	53	0	0	0	0	0	132
2013	0	10	14	95	36	0	0	254	0	0	0	409
2014	0	19	14	23	34	0	196	0	0	0	4,078	4,365
2015	0	7	18	0	0	0	184	0	0	0	2,766	2,976
2016	0	6	0	19	0	0	0	0	0	0	0	24
2017	0	10	0	19	0	0	0	0	0	0	0	29
2018	0	30	0	35	0	64	183	0	0	0	0	312
2019	0	10	44	116	201	269	993	0	0	0	2,000	3,632
2020	0	15	16	0	84	0	0	0	0	0	3,923	4,037
TOTAL	(\$3,263)	\$818	\$832	\$1,523	\$1,953	\$2,564	\$4,073	\$3,186	\$1,845	\$1,665	\$14,204	\$29,400

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
WORKERS' COMPENSATION

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	26.2%	26.2%	100.0%	0.985	86.0%	0.860
2	49.8%	23.6%	73.8%	0.957	62.0%	0.840
3	57.5%	7.7%	50.2%	0.929	39.9%	0.795
4	62.6%	5.0%	42.5%	0.902	33.3%	0.783
5	66.2%	3.6%	37.4%	0.875	29.1%	0.778
6	69.2%	3.1%	33.8%	0.850	26.4%	0.779
7	71.8%	2.6%	30.8%	0.825	24.0%	0.781
8	74.3%	2.4%	28.2%	0.801	22.1%	0.785
9	76.3%	2.0%	25.7%	0.778	20.3%	0.789
10	78.0%	1.7%	23.7%	0.755	18.9%	0.796
11	79.7%	1.7%	22.0%	0.733	17.7%	0.804
12	81.4%	1.7%	20.3%	0.712	16.5%	0.812
13	83.0%	1.5%	18.6%	0.691	15.2%	0.820
14	84.7%	1.7%	17.0%	0.671	14.1%	0.830
15	86.3%	1.7%	15.3%	0.651	12.8%	0.837
16	88.1%	1.7%	13.7%	0.632	11.5%	0.843
17	89.9%	1.8%	11.9%	0.614	10.1%	0.847
18	91.3%	1.5%	10.1%	0.596	8.6%	0.848
19	92.5%	1.2%	8.7%	0.579	7.4%	0.849
20	93.6%	1.1%	7.5%	0.562	6.4%	0.853
21	94.4%	0.8%	6.4%	0.546	5.5%	0.854
22	95.3%	0.9%	5.6%	0.530	4.8%	0.860
23	95.9%	0.6%	4.7%	0.514	4.1%	0.863
24	96.3%	0.4%	4.1%	0.499	3.6%	0.871
25	96.7%	0.4%	3.7%	0.485	3.3%	0.883
26	97.1%	0.4%	3.3%	0.471	3.0%	0.897
27	97.5%	0.4%	2.9%	0.457	2.7%	0.912
28	97.9%	0.4%	2.5%	0.444	2.3%	0.928
29	98.3%	0.4%	2.1%	0.431	2.0%	0.944
30	98.7%	0.4%	1.7%	0.418	1.7%	0.963
31	100.0%	1.3%	1.3%	0.406	1.3%	0.985
32	100.0%	0.0%	0.0%	0.394	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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:	3.0%
Starting Year:	0
Ending Year:	32

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
GENERAL LIABILITY

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	2.2%	2.2%	100.0%	0.985	87.6%	0.876
2	10.0%	7.8%	97.8%	0.957	88.1%	0.900
3	26.9%	16.9%	90.0%	0.929	82.8%	0.920
4	53.2%	26.3%	73.1%	0.902	68.1%	0.932
5	69.3%	16.1%	46.8%	0.875	43.5%	0.928
6	77.5%	8.2%	30.7%	0.850	28.4%	0.926
7	84.2%	6.7%	22.5%	0.825	20.9%	0.931
8	90.1%	5.9%	15.8%	0.801	14.7%	0.935
9	94.0%	3.9%	9.9%	0.778	9.2%	0.932
10	95.7%	1.7%	6.0%	0.755	5.6%	0.925
11	96.9%	1.2%	4.3%	0.733	4.0%	0.927
12	97.9%	1.0%	3.1%	0.712	2.9%	0.933
13	98.4%	0.5%	2.1%	0.691	2.0%	0.934
14	98.9%	0.5%	1.6%	0.671	1.5%	0.945
15	99.4%	0.5%	1.1%	0.651	1.0%	0.955
16	99.6%	0.2%	0.6%	0.632	0.6%	0.957
17	99.8%	0.2%	0.4%	0.614	0.4%	0.971
18	100.0%	0.2%	0.2%	0.596	0.2%	0.985
19	100.0%	0.0%	0.0%	0.579	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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: 3.0%
Starting Year: 0
Ending Year: 19

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
AUTO LIABILITY

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	33.9%	33.9%	100.0%	0.985	94.9%	0.949
2	61.9%	28.1%	66.1%	0.957	63.3%	0.958
3	85.2%	23.3%	38.1%	0.929	36.8%	0.966
4	93.3%	8.1%	14.8%	0.902	14.3%	0.963
5	96.2%	2.8%	6.7%	0.875	6.4%	0.964
6	98.9%	2.8%	3.8%	0.850	3.7%	0.977
7	100.0%	1.0%	1.1%	0.825	1.0%	0.985
8	100.0%	0.0%	0.0%	0.801	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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:	3.0%
Starting Year:	0
Ending Year:	8

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
MARINE

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	31.6%	31.6%	100.0%	0.985	95.0%	0.950
2	61.4%	29.8%	68.4%	0.957	65.8%	0.962
3	84.8%	23.4%	38.6%	0.929	37.5%	0.973
4	98.6%	13.8%	15.2%	0.902	15.0%	0.982
5	99.6%	1.0%	1.4%	0.875	1.4%	0.975
6	99.9%	0.3%	0.4%	0.850	0.4%	0.976
7	100.0%	0.1%	0.1%	0.825	0.1%	0.985
8	100.0%	0.0%	0.0%	0.801	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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:	3.0%
Starting Year:	0
Ending Year:	8

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
AVIATION

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	25.3%	25.3%	100.0%	0.985	93.8%	0.938
2	45.8%	20.5%	74.7%	0.957	71.0%	0.949
3	69.9%	24.2%	54.2%	0.929	52.3%	0.964
4	90.8%	20.9%	30.1%	0.902	29.3%	0.975
5	98.3%	7.5%	9.2%	0.875	9.0%	0.980
6	100.0%	1.7%	1.7%	0.850	1.7%	0.985
7	100.0%	0.0%	0.0%	0.825	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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:	3.0%
Starting Year:	0
Ending Year:	7

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
CALCULATION OF DISCOUNT FACTORS
AS OF JUNE 30, 2020
PROPERTY

PAYMENT YEARS	CUMULATIVE PAYMENT PATTERN	INCREMENTAL PAYMENTS	REMAINING PAYMENTS AT THE BEGINNING OF PERIOD	DISCOUNT FACTOR	PRESENT VALUE OF REMAINING PAYMENTS	PRESENT VALUE DISCOUNT FACTOR
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	32.4%	32.4%	100.0%	0.985	96.3%	0.963
2	91.0%	58.6%	67.6%	0.957	66.3%	0.981
3	98.4%	7.4%	9.0%	0.929	8.9%	0.980
4	100.0%	1.6%	1.6%	0.902	1.6%	0.985
5	100.0%	0.0%	0.0%	0.875	0.0%	1.000

Notes:

(2) - Per STATE OF ALASKA's historical loss patterns .

(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: 3.0%
Starting Year: 0
Ending Year: 5

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
ALL COVERAGES COMBINED
(\$AMTS IN THOUSANDS)

1. Estimated net undiscounted reserves at 6/30/2019	\$180,053
2. Loss payments during 2020 for accident years 2019 and prior	(\$23,563)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	(\$5,346)
4. Estimated ultimate losses for accident year 2020	\$29,459
5. Loss payments during 2020 for accident year 2020	(\$4,462)
6. Estimated net undiscounted reserves at 6/30/2020	\$176,141

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix C, Column (3).
- (3) - Total from Appendix D, Column (3).
- (4) - Total from Exhibits I to VI, Page 1, Column (5) for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

1. Estimated net undiscounted reserves at 6/30/2019	\$149,635
2. Loss payments during 2020 for accident years 2019 and prior	(\$10,630)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	(\$11,774)
4. Estimated ultimate losses for accident year 2020	\$20,909
5. Loss payments during 2020 for accident year 2020	(\$4,129)
6. Estimated net undiscounted reserves at 6/30/2020	\$144,011

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 1, Column (3).
- (2) - Total from Appendix C, Page 1, Column (3).
- (4) - See Exhibit I, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

1. Estimated net undiscounted reserves at 6/30/2019	\$25,838
2. Loss payments during 2020 for accident years 2019 and prior	(\$10,584)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	\$6,423
4. Estimated ultimate losses for accident year 2020	\$6,699
5. Loss payments during 2020 for accident year 2020	(\$136)
6. Estimated net undiscounted reserves at 6/30/2020	\$28,240

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 2, Column (3).
- (2) - Total from Appendix C, Page 2, Column (3).
- (4) - See Exhibit II, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

1. Estimated net undiscounted reserves at 6/30/2019	\$449
2. Loss payments during 2020 for accident years 2019 and prior	(\$448)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	\$434
4. Estimated ultimate losses for accident year 2020	\$404
5. Loss payments during 2020 for accident year 2020	(\$145)
6. Estimated net undiscounted reserves at 6/30/2020	\$693

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 3, Column (3).
- (2) - Total from Appendix C, Page 3, Column (3).
- (4) - See Exhibit III, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 6/30/2019	\$1,226
2. Loss payments during 2020 for accident years 2019 and prior	(\$521)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	(\$438)
4. Estimated ultimate losses for accident year 2020	\$419
5. Loss payments during 2020 for accident year 2020	(\$52)
6. Estimated net undiscounted reserves at 6/30/2020	\$633

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 4, Column (3).
- (2) - Total from Appendix C, Page 4, Column (3).
- (4) - See Exhibit IV, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 6/30/2019	\$522
2. Loss payments during 2020 for accident years 2019 and prior	(\$88)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	(\$253)
4. Estimated ultimate losses for accident year 2020	\$269
5. Loss payments during 2020 for accident year 2020	(\$1)
6. Estimated net undiscounted reserves at 6/30/2020	\$449

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 5, Column (3).
- (2) - Total from Appendix C, Page 5, Column (3).
- (4) - See Exhibit V, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
ANALYSIS OF NET UNDISCOUNTED RESERVE CHANGE
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

1. Estimated net undiscounted reserves at 6/30/2019	\$2,383
2. Loss payments during 2020 for accident years 2019 and prior	(\$1,292)
3. Change in estimated ultimate losses for accident years 2019 and prior due to re-evaluation at 6/30/2020	\$263
4. Estimated ultimate losses for accident year 2020	\$760
5. Loss payments during 2020 for accident year 2020	\$0
6. Estimated net undiscounted reserves at 6/30/2020	\$2,114

Notes:

- (1) - Per 2019 Actuarial Report.
- (2) - Total from Appendix D, Page 6, Column (3).
- (2) - Total from Appendix C, Page 6, Column (3).
- (4) - See Exhibit VI, Page 1A, Column (5), for accident year 2020.
- (5) - Per STATE OF ALASKA.
- (6) = Sum of (1) through (5).

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior (Reserve)	\$6,764	\$5,754	(\$1,011)
1994	8,119	8,211	92
1995	15,317	15,317	0
1996	12,505	12,537	31
1997	12,646	12,702	56
1998	10,498	10,517	18
1999	13,988	14,134	146
2000	17,556	17,778	222
2001	20,812	20,807	(5)
2002	21,579	21,656	78
2003	20,999	20,515	(484)
2004	23,015	23,770	755
2005	22,133	22,003	(131)
2006	21,292	21,037	(255)
2007	24,138	24,448	310
2008	20,285	20,232	(53)
2009	22,359	22,438	79
2010	31,965	31,146	(818)
2011	31,475	31,061	(414)
2012	25,838	25,615	(222)
2013	31,089	30,654	(435)
2014	26,261	25,564	(697)
2015	25,330	24,962	(368)
2016	24,108	23,886	(222)
2017	21,308	20,338	(970)
2018	20,950	18,436	(2,515)
2019	22,436	17,476	(4,961)
TOTAL	\$554,767	\$542,993	(\$11,774)

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
GENERAL LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior (Reserve)	\$0	\$6	\$6
1994	4,976	4,976	0
1995	5,410	5,410	0
1996	5,965	5,965	0
1997	2,841	2,841	0
1998	4,724	4,724	0
1999	5,327	5,327	0
2000	7,453	7,453	0
2001	4,494	4,494	0
2002	3,103	3,106	3
2003	4,424	4,480	56
2004	7,603	7,603	0
2005	6,965	6,965	0
2006	8,952	8,913	(39)
2007	6,148	6,147	(0)
2008	6,140	6,140	(0)
2009	2,875	2,865	(10)
2010	1,362	1,362	0
2011	10,333	10,328	(5)
2012	7,511	7,179	(332)
2013	3,248	3,096	(152)
2014	5,494	5,268	(226)
2015	3,836	3,626	(210)
2016	8,932	8,082	(850)
2017	4,726	4,870	145
2018	11,436	13,138	1,702
2019	6,440	12,777	6,337
TOTAL	\$150,720	\$157,143	\$6,423

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
AUTO LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior (Reserve)	\$0	\$0	\$0
1994	614	614	0
1995	1,078	1,078	0
1996	245	245	0
1997	657	657	0
1998	1,630	1,630	0
1999	1,594	1,594	0
2000	857	857	0
2001	2,363	2,363	0
2002	1,737	1,737	0
2003	445	445	0
2004	965	965	0
2005	329	329	0
2006	510	510	0
2007	309	309	0
2008	418	418	0
2009	322	322	0
2010	2,813	2,813	0
2011	666	666	0
2012	1,891	1,891	(0)
2013	425	425	0
2014	621	618	(3)
2015	284	281	(3)
2016	220	217	(3)
2017	186	175	(11)
2018	328	437	109
2019	350	694	344
TOTAL	\$21,859	\$22,293	\$434

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
MARINE
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior	\$0	\$0	\$0
1994	961	961	0
1995	2,768	2,768	0
1996	1,185	1,185	0
1997	3,264	3,264	0
1998	1,711	1,711	0
1999	1,982	1,982	0
2000	3,044	3,044	0
2001	3,531	3,531	0
2002	3,514	3,514	0
2003	2,943	2,943	0
2004	1,408	1,408	0
2005	667	667	0
2006	965	965	0
2007	1,936	1,936	0
2008	596	596	0
2009	1,332	1,332	0
2010	133	133	0
2011	660	660	0
2012	642	642	0
2013	814	814	0
2014	120	120	0
2015	266	265	(0)
2016	647	539	(108)
2017	248	229	(20)
2018	884	633	(251)
2019	473	414	(59)
TOTAL	\$36,696	\$36,258	(\$438)

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior (Reserve)	\$0	\$0	\$0
1994	239	239	0
1995	370	370	0
1996	61	61	0
1997	130	130	0
1998	461	461	0
1999	165	165	0
2000	109	109	0
2001	795	795	0
2002	251	251	0
2003	100	100	0
2004	15	15	0
2005	96	96	0
2006	392	392	0
2007	26	26	0
2008	486	486	0
2009	864	864	0
2010	37	37	0
2011	395	395	0
2012	412	412	0
2013	324	324	0
2014	12	12	0
2015	548	544	(4)
2016	10	2	(8)
2017	646	608	(38)
2018	37	31	(6)
2019	208	11	(198)
TOTAL	\$7,190	\$6,937	(\$253)

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF ESTIMATED ULTIMATE LOSSES
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	ESTIMATED ULTIMATE LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior	\$0	\$0	\$0
1994	65	65	0
1995	853	853	0
1996	52	52	0
1997	823	823	0
1998	1,104	1,104	0
1999	122	122	0
2000	388	388	0
2001	583	583	0
2002	183	183	0
2003	229	229	0
2004	229	229	0
2005	1,577	1,577	0
2006	89	89	0
2007	1,300	1,300	0
2008	1,090	1,090	0
2009	438	438	0
2010	229	229	0
2011	367	367	0
2012	132	132	0
2013	409	409	0
2014	1,286	1,286	0
2015	2,209	2,209	0
2016	24	24	(0)
2017	32	29	(4)
2018	370	312	(59)
2019	2,316	2,641	325
TOTAL	\$16,503	\$16,766	\$263

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior			
1994	\$7,849	\$7,924	\$75
1995	13,433	13,570	138
1996	11,594	11,645	52
1997	11,497	11,555	59
1998	9,875	9,928	52
1999	12,494	12,684	190
2000	14,697	14,945	248
2001	17,746	17,948	201
2002	18,234	18,514	281
2003	17,868	18,074	206
2004	19,813	20,256	443
2005	19,173	19,336	162
2006	17,485	17,602	117
2007	19,191	19,566	374
2008	16,190	16,367	177
2009	17,661	17,939	278
2010	21,836	21,886	50
2011	23,795	23,968	172
2012	20,382	20,655	273
2013	21,491	21,944	453
2014	17,826	18,296	470
2015	17,412	18,019	606
2016	13,527	14,107	581
2017	11,160	12,100	940
2018	8,726	9,474	747
2019	4,176	7,461	3,284
TOTAL	\$405,132	\$415,762	\$10,630

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
GENERAL LIABILITY
(\$AMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior			
1994	\$4,976	\$4,976	\$0
1995	5,410	5,410	0
1996	5,965	5,965	0
1997	2,841	2,841	0
1998	4,724	4,724	0
1999	5,327	5,327	0
2000	7,453	7,453	0
2001	4,494	4,494	0
2002	3,071	3,081	10
2003	4,380	4,452	72
2004	7,603	7,603	0
2005	6,965	6,965	0
2006	8,912	8,913	0
2007	6,148	6,147	(0)
2008	6,140	6,140	(0)
2009	2,690	2,691	1
2010	1,362	1,362	0
2011	9,306	9,377	71
2012	7,179	7,179	0
2013	2,641	2,659	18
2014	4,099	4,171	72
2015	2,629	2,677	48
2016	4,950	6,238	1,287
2017	507	2,027	1,520
2018	4,656	6,415	1,759
2019	453	6,177	5,724
TOTAL	\$124,882	\$135,465	\$10,584

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
AUTO LIABILITY
(SAMOUNTS IN '000s)
UNLIMITED

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior			
1994	\$614	\$614	\$0
1995	1,078	1,078	0
1996	245	245	0
1997	657	657	0
1998	1,630	1,630	0
1999	1,594	1,594	0
2000	857	857	0
2001	2,363	2,363	0
2002	1,737	1,737	0
2003	445	445	0
2004	965	965	0
2005	329	329	0
2006	510	510	0
2007	309	309	0
2008	418	418	0
2009	322	322	0
2010	2,813	2,813	0
2011	666	666	0
2012	1,891	1,891	0
2013	425	425	0
2014	618	618	0
2015	278	278	0
2016	210	210	0
2017	158	161	3
2018	207	258	51
2019	69	463	394
TOTAL	\$21,410	\$21,859	\$448

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
MARINE
(SAMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019 (1)	@6/30/2020 (2)	
Prior			(3)
1994	\$961	\$961	\$0
1995	2,768	2,768	0
1996	1,185	1,185	0
1997	3,264	3,264	0
1998	1,711	1,711	0
1999	1,982	1,982	0
2000	3,044	3,044	0
2001	3,531	3,531	0
2002	3,514	3,514	0
2003	2,943	2,943	0
2004	1,408	1,408	0
2005	667	667	0
2006	965	965	0
2007	1,936	1,936	0
2008	596	596	0
2009	1,332	1,332	0
2010	133	133	0
2011	660	660	0
2012	642	642	0
2013	814	814	0
2014	120	120	0
2015	265	265	0
2016	539	539	0
2017	195	229	33
2018	274	524	250
2019	20	258	238
TOTAL	\$35,470	\$35,992	\$521

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
AVIATION
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior			
1994	\$239	\$239	\$0
1995	370	370	0
1996	61	61	0
1997	130	130	0
1998	461	461	0
1999	165	165	0
2000	109	109	0
2001	795	795	0
2002	251	251	0
2003	100	100	0
2004	15	15	0
2005	96	96	0
2006	392	392	0
2007	26	26	0
2008	486	486	0
2009	864	864	0
2010	37	37	0
2011	395	395	0
2012	412	412	0
2013	324	324	0
2014	12	12	0
2015	544	544	0
2016	2	2	0
2017	382	470	88
2018	0	0	0
2019	0	0	0
TOTAL	\$6,668	\$6,756	\$88

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
COMPARISON OF PAID LOSSES
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)
LIMITED TO RETENTION

ACCIDENT YEAR*	PAID LOSSES		INCREASE OR DECREASE
	@6/30/2019	@6/30/2020	
	(1)	(2)	(3)
Prior			
1994	\$65	\$65	\$0
1995	853	853	0
1996	52	52	0
1997	823	823	0
1998	1,104	1,104	0
1999	122	122	0
2000	388	388	0
2001	583	583	0
2002	183	183	0
2003	229	229	0
2004	229	229	0
2005	1,577	1,577	0
2006	89	89	0
2007	1,300	1,300	0
2008	1,090	1,090	0
2009	438	438	0
2010	229	229	0
2011	367	367	0
2012	132	132	0
2013	409	409	0
2014	1,286	1,286	0
2015	2,209	2,209	0
2016	24	24	0
2017	29	29	0
2018	308	312	4
2019	0	1,288	1,288
TOTAL	\$14,120	\$15,412	\$1,292

Notes:

(1) - Per 2019 Actuarial Report.

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

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

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
WORKERS' COMPENSATION
(\$AMOUNTS IN '000s)

ACCIDENT YEAR*	STATUTORY WORKERS' COMPENSATION SELF-INSURED RETENTION	AMHS CREW WORKERS' COMPENSATION SELF-INSURED RETENTION
1994	UNLIMITED	N/A
1995	UNLIMITED	N/A
1996	UNLIMITED	N/A
1997	UNLIMITED	N/A
1998	UNLIMITED	N/A
1999	UNLIMITED	N/A
2000	UNLIMITED	N/A
2001	UNLIMITED	N/A
2002	UNLIMITED	UNLIMITED
2003	UNLIMITED	UNLIMITED
2004	UNLIMITED	UNLIMITED
2005	UNLIMITED	UNLIMITED
2006	UNLIMITED	UNLIMITED
2007	UNLIMITED	UNLIMITED
2008	UNLIMITED	UNLIMITED
2009	UNLIMITED	UNLIMITED
2010	UNLIMITED	UNLIMITED
2011	UNLIMITED	UNLIMITED
2012	UNLIMITED	UNLIMITED
2013	UNLIMITED	UNLIMITED
2014	UNLIMITED	UNLIMITED
2015	UNLIMITED	UNLIMITED
2016	UNLIMITED	UNLIMITED
2017	UNLIMITED	UNLIMITED
2018	UNLIMITED	UNLIMITED
2019	UNLIMITED	UNLIMITED
2020	UNLIMITED	UNLIMITED

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
GENERAL LIABILITY
(SAMOUNTS IN '000s)

FISCAL YEAR*	GENERAL LIABILITY SELF-INSURED RETENTION	MEDICAL MALPRACTICE SELF-INSURED RETENTION
1994	5,000	5,000
1995	5,000	5,000
1996	5,000	5,000
1997	5,000	5,000
1998	5,000	5,000
1999	5,000	5,000
2000	5,000	5,000
2001	5,000	5,000
2002	UNLIMITED	UNLIMITED
2003	UNLIMITED	UNLIMITED
2004	UNLIMITED	UNLIMITED
2005	UNLIMITED	UNLIMITED
2006	UNLIMITED	UNLIMITED
2007	UNLIMITED	UNLIMITED
2008	UNLIMITED	UNLIMITED
2009	UNLIMITED	UNLIMITED
2010	UNLIMITED	UNLIMITED
2011	UNLIMITED	UNLIMITED
2012	UNLIMITED	UNLIMITED
2013	UNLIMITED	UNLIMITED
2014	UNLIMITED	UNLIMITED
2015	UNLIMITED	UNLIMITED
2016	UNLIMITED	UNLIMITED
2017	UNLIMITED	UNLIMITED
2018	UNLIMITED	UNLIMITED
2019	UNLIMITED	UNLIMITED
2020	UNLIMITED	UNLIMITED

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
AUTO LIABILITY
(SAMOUNTS IN '000s)

FISCAL YEAR*	SELF-INSURED RETENTION
1994	2,000
1995	2,000
1996	2,000
1997	2,000
1998	2,000
1999	2,000
2000	2,000
2001	2,000
2002	UNLIMITED
2003	UNLIMITED
2004	UNLIMITED
2005	UNLIMITED
2006	UNLIMITED
2007	UNLIMITED
2008	UNLIMITED
2009	UNLIMITED
2010	UNLIMITED
2011	UNLIMITED
2012	UNLIMITED
2013	UNLIMITED
2014	UNLIMITED
2015	UNLIMITED
2016	UNLIMITED
2017	UNLIMITED
2018	UNLIMITED
2019	UNLIMITED
2020	UNLIMITED

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
MARINE
(\$AMOUNTS IN '000s)

FISCAL YEAR*	PROTECTION & INDEMNITY SELF-INSURED RETENTION	HULL & MACHINERY SELF-INSURED RETENTION	AMHS FERRY DOCKS SELF-INSURED RETENTION
1994	1,000	1,000	250
1995	1,000	1,000	N/A
1996	1,000	1,000	N/A
1997	1,000	1,000	N/A
1998	1,000	1,000	N/A
1999	1,000	1,000	N/A
2000	1,000	1,000	N/A
2001	1,000	1,000	N/A
2002	1,000	1,000	N/A
2003	1,000	1,000	N/A
2004	1,000	1,000	N/A
2005	1,000	1,000	N/A
2006	1,000	1,000	N/A
2007	1,000	1,000	N/A
2008	1,000	1,000	N/A
2009	1,000	1,000	N/A
2010	1,000	750	N/A
2011	1,000	750	N/A
2012	1,000	750	N/A
2013	500	750	N/A
2014	500	750	N/A
2015	500	750	N/A
2016	500	750	N/A
2017	500	500	N/A
2018	500	500	N/A
2019	500	500	N/A
2020	500	500	N/A

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
AVIATION
(SAMOUNTS IN '000s)

FISCAL YEAR*	SELF-INSURED RETENTION
1994	250
1995	250
1996	250
1997	250
1998	250
1999	250
2000	250
2001	250
2002	250
2003	250
2004	250
2005	250
2006	250
2007	250
2008	250
2009	250
2010	250
2011	250
2012	250
2013	250
2014	250
2015	250
2016	250
2017	250
2018	250
2019	250
2020	250

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
SELF-INSURED RETENTIONS BY FISCAL YEAR
AS OF JUNE 30, 2020
PROPERTY
(\$AMOUNTS IN '000s)

FISCAL YEAR*	SELF-INSURED RETENTION
1994	1,000
1995	1,000
1996	1,000
1997	1,000
1998	1,000
1999	1,000
2000	1,000
2001	1,000
2002	1,000
2003	1,000
2004	1,000
2005	1,000
2006	1,000
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
2018	1,000
2019	1,000
2020	1,000

Notes:

Per STATE OF ALASKA.

* All Accident Years are 12-month periods ending 6/30 of the stated year.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$1,000,000
WORKERS' COMPENSATION

CLAIM NUMBER	EVENT DATE	ACCIDENT PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
400001894-1	7/20/1983	1984	\$1,154,638	\$214,392	\$1,369,030
400008295-1	9/28/1986	1987	1,398,106	521,161	1,919,267
400006005-1	8/27/1987	1988	1,169,395	637,862	1,807,257
400005920-1	7/27/1987	1988	1,283,106	711,849	1,994,955
400009346-1	5/15/1989	1989	1,719,451	0	1,719,451
400008108-1	7/11/1988	1989	1,159,404	0	1,159,404
400010072-1	2/8/1990	1990	1,552,524	868,588	2,421,112
400009368-1	7/25/1989	1990	1,244,718	155,299	1,400,017
400024859-1	12/22/1994	1995	824,823	376,901	1,201,724
400023764-1	7/5/1994	1995	1,402,761	1,117,289	2,520,050
400026211-1	3/27/1996	1996	802,758	282,159	1,084,916
400026116-1	2/12/1996	1996	746,892	547,287	1,294,180
209701180-1	9/12/1997	1998	789,531	397,587	1,187,118
202000071-1	6/23/1999	1999	588,194	717,373	1,305,568
209901885-1	3/13/1999	1999	1,387,586	61,977	1,449,563
209901880-1	2/22/1999	1999	906,721	332,678	1,239,399
4400100562-1	6/28/2000	2000	1,270,636	456,239	1,726,875
201000011-1	1/5/2000	2000	2,679,570	1,021,572	3,701,141
202000164-1	7/13/1999	2000	909,625	515,401	1,425,026
1100011146-1	6/25/2001	2001	768,269	866,767	1,635,036
4400100727-1	2/2/2001	2001	1,210,969	824,437	2,035,406
4410006674-1	6/6/2002	2002	881,409	1,322,440	2,203,849
4410005800-1	12/25/2001	2002	1,539,523	577,109	2,116,632
4410005844-1	12/20/2001	2002	842,481	393,246	1,235,727
4410005200-1	8/3/2001	2002	672,941	341,459	1,014,400
2003054127	6/24/2003	2003	1,143,767	281,730	1,425,497
2003053062	3/17/2003	2003	806,253	270,179	1,076,432
4410007091-1	8/31/2002	2003	1,167,913	848,067	2,015,980
2004056523	6/6/2004	2004	894,781	641,600	1,536,381
2004055684	5/18/2004	2004	971,051	47,309	1,018,360
2004055647	5/10/2004	2004	788,675	720,580	1,509,255
2003054926	12/21/2003	2004	981,052	1,258,305	2,239,357
2005057729	6/13/2005	2005	1,128,330	1,252,602	2,380,932
2004056815	12/12/2004	2005	1,885,005	157,620	2,042,626
2006059115	3/31/2006	2006	910,571	698,507	1,609,079
2006058933	2/21/2006	2006	1,069,625	1,026,544	2,096,169
2005058474	9/1/2005	2006	854,111	883,782	1,737,892
2007061176	6/30/2007	2007	542,158	707,844	1,250,002
2007060961	5/29/2007	2007	2,056,018	1,419,950	3,475,968
2006060349	12/29/2006	2007	473,244	824,589	1,297,833
2006059576	7/10/2006	2007	850,653	364,753	1,215,406
2007061791	10/22/2007	2008	443,293	997,363	1,440,656
2007061612	10/12/2007	2008	809,225	1,005,187	1,814,412
2007061178	7/17/2007	2008	1,181,921	378,046	1,559,967
2009064048	5/31/2009	2009	931,179	561,276	1,492,455
2009063549	1/22/2009	2009	843,711	392,044	1,235,756
2008063136	10/6/2008	2009	1,101,607	1,414,055	2,515,662
2009064619	9/17/2009	2010	161,859	1,553,673	1,715,532
2009064282	7/13/2009	2010	1,891,089	5,238,299	7,129,388
2011066879	3/10/2011	2011	930,953	1,046,266	1,977,219
2010066411	11/18/2010	2011	1,720,793	2,815,552	4,536,345
2010066250	10/12/2010	2011	1,267,616	42,049	1,309,665
2013-WC000078	3/11/2013	2013	278,492	2,229,969	2,508,461
2013-WC000057	3/9/2013	2013	587,428	920,908	1,508,336
2012069646	10/5/2012	2013	843,762	931,849	1,775,611
2014-WC001849	5/1/2014	2014	382,840	917,984	1,300,824
2014-WC001850	5/1/2014	2014	384,258	801,882	1,186,140
2014-WC001830	4/28/2014	2014	599,986	1,032,354	1,632,339
2015-WC004050	10/28/2015	2016	289,067	910,660	1,199,727
2015-WC003765	9/4/2015	2016	352,480	2,091,861	2,444,341
2015-WC003465	7/6/2015	2016	1,187,263	1,497,780	2,685,043

Notes:
(1) to (6) - Per STATE OF ALASKA.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$500,000
GENERAL LIABILITY

CLAIM NUMBER	EVENT DATE	CLAIM PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
200863096-1-1	6/22/1985	1985	1,208,630	0	1,208,630
100860192-1-1	5/9/1986	1986	565,061	0	565,061
400476287-1-1	5/12/1987	1987	562,315	0	562,315
200863439-2-1	12/9/1986	1987	1,520,567	0	1,520,567
200901138-1-1	8/26/1986	1987	721,941	0	721,941
200901554-1-1	3/25/1987	1987	516,088	0	516,088
200880486-3-1	1/23/1988	1988	556,819	0	556,819
200880295-3-1	1/23/1988	1988	660,000	0	660,000
200880486-5-1	1/23/1988	1988	556,926	0	556,926
200880295-1-1	1/23/1988	1988	2,315,899	0	2,315,899
200880486-2-1	1/23/1988	1988	1,502,101	0	1,502,101
202890724-1-1	9/27/1987	1988	891,799	0	891,799
202880467-1-1	9/2/1988	1989	1,771,066	0	1,771,066
200901568-1-1	7/12/1988	1989	3,845,499	0	3,845,499
200913910-1-1	2/24/1991	1991	515,157	0	515,157
200910570-1-1	2/9/1991	1991	1,565,608	0	1,565,608
100920313-1-1	5/23/1992	1992	1,164,961	0	1,164,961
100920287-1-1	9/17/1991	1992	2,926,293	0	2,926,293
1100001036-1-1	8/8/1991	1992	684,730	0	684,730
100930307-1-1	5/31/1993	1993	624,120	0	624,120
100940367-1-1	3/19/1994	1994	507,232	0	507,232
100940423-1-1	2/8/1994	1994	1,286,997	0	1,286,997
100940264-1-1	12/30/1993	1994	931,432	0	931,432
100950459-1-1	12/22/1994	1995	2,415,599	0	2,415,599
100950502-1-1	9/9/1994	1995	601,262	0	601,262
100960430-1-1	6/2/1996	1996	2,610,360	0	2,610,360
1998061780-1	3/1/1998	1998	740,425	0	740,425
100980154-1-1	12/23/1997	1998	869,526	0	869,526
100980209-1-1	11/26/1997	1998	576,741	0	576,741
100980217-1-1	8/27/1997	1998	548,325	0	548,325
1100002029-1-1	5/14/1999	1999	950,024	0	950,024
1998065647-1	9/18/1998	1999	965,742	0	965,742
1100011149-1-1	12/17/1999	2000	2,464,936	0	2,464,936
202990829-1-1	10/7/1999	2000	1,006,803	0	1,006,803
100200011-1-1	7/29/1999	2000	864,518	0	864,518
1100002012-1-1	7/24/1999	2000	503,673	0	503,673
1100002002-1-1	4/12/2001	2001	739,298	0	739,298
2000069903-1	8/1/2000	2001	1,196,403	0	1,196,403
1100002116-1-1	10/21/2001	2002	554,891	0	554,891
2003052611-1	1/6/2003	2003	540,243	0	540,243
2002055381-1	12/30/2002	2003	527,381	0	527,381
2002053240-1	12/18/2002	2003	827,155	0	827,155
2004056729-1	3/1/2004	2004	551,055	0	551,055
2004055097-1	2/4/2004	2004	2,934,012	0	2,934,012
2004054968-1	1/21/2004	2004	1,947,576	0	1,947,576
2003054387-1	9/29/2003	2004	701,572	0	701,572
2004057095-1	11/5/2004	2005	2,192,926	0	2,192,926
2004056526-1	10/22/2004	2005	798,646	0	798,646
2004056944-1	7/24/2004	2005	656,303	0	656,303
2006059400-1	6/14/2006	2006	654,796	0	654,796
2005058456-1	10/27/2005	2006	2,354,932	0	2,354,932
2005058899-1	8/12/2005	2006	622,402	0	622,402
2005061954-2	8/5/2005	2006	1,072,841	0	1,072,841
2005-GL007079	7/15/2005	2006	674,420	0	674,420
2007064855-2	1/15/2007	2007	580,910	0	580,910
2006069838-1	12/5/2006	2007	815,574	0	815,574
2006-GL001728	12/5/2006	2007	551,398	0	551,398
2006060521-1	9/2/2006	2007	1,521,097	0	1,521,097
2008065717-1	6/13/2008	2008	524,789	0	524,789
2008066617-3	1/1/2008	2008	1,193,571	0	1,193,571
2007064322-1	9/11/2007	2008	717,500	0	717,500
2009065256-1	1/16/2009	2009	342,544	157,456	500,000
2011067170-2	5/1/2011	2011	4,791,280	0	4,791,280
2011-GL007085	5/1/2011	2011	121,083	1,100,000	1,221,083
2011070034-1	2/3/2011	2011	1,240,551	0	1,240,551
2011067509-1	1/15/2011	2011	998,694	0	998,694
2012068864-1	4/6/2012	2012	5,225,509	0	5,225,509
2013-GL001549	4/1/2013	2013	588,484	0	588,484
2012-GL002978	9/18/2012	2013	624,429	0	624,429
2014-GL004441	5/11/2014	2014	666,484	0	666,484
2014-GL001779	4/4/2014	2014	752,547	0	752,547
2014-GL003162	3/13/2014	2014	514,274	185,726	700,000
2013-GL003008	12/6/2013	2014	78,039	471,961	550,000
2015-GL004006	1/28/2015	2015	550,189	0	550,189
2017-GL005794	8/1/2014	2015	551,323	0	551,323
2016-GL007340	6/27/2016	2016	9,663	590,337	600,000
2017-GL006389	3/12/2016	2016	684,614	0	684,614
2016-GL004212	1/10/2016	2016	698,883	0	698,883
2015-GL004090	11/14/2015	2016	751,705	0	751,705
2015-GL005096	8/14/2015	2016	769,703	0	769,703
2015-GL005993	8/8/2015	2016	2,072,680	0	2,072,680
2017-GL006156	5/10/2017	2017	72,088	752,912	825,000
2016-GL007147	7/6/2016	2017	881,486	0	881,486
2018-GL007228	3/3/2018	2018	320,685	429,315	750,000
2017-GL007359	12/24/2017	2018	21,530	478,470	500,000
2017-GL006317	8/11/2017	2018	4,438,489	561,511	5,000,000
2017-GL006995	7/3/2017	2018	89,107	560,893	650,000
2019-GL008913	4/1/2019	2019	28,553	621,447	650,000
2019-GL007903	1/18/2019	2019	5,032,310	0	5,032,310
2019-GL007833	1/17/2019	2019	233,653	266,347	500,000
2018-GL007233	7/1/2018	2019	377,181	622,819	1,000,000
2019-GL008878	7/17/2019	2020	20,974	1,054,026	1,075,000

Notes:
(1) to (6) - Per STATE OF ALASKA.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$500,000
AUTO LIABILITY

CLAIM NUMBER	EVENT DATE	ACCIDENT PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
200903434-4-1	11/25/1990	1991	\$975,000	\$0	\$975,000
100990052-1-1	12/24/1998	1999	668,442	0	668,442
202980936-1-1	10/25/1998	1999	670,708	0	670,708
1100002071-1-1	1/8/2000	2000	593,077	0	593,077
1100001060-1-1	1/7/2001	2001	2,000,360	0	2,000,360
2208020594-1-1	3/27/2002	2002	1,372,427	0	1,372,427
2009064385-1	8/3/2009	2010	2,322,715	0	2,322,715
2012068744-1	3/31/2012	2012	570,511	0	570,511
2012068624-1	3/15/2012	2012	1,052,695	0	1,052,695

Notes:

(1) to (6) - Per STATE OF ALASKA.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$500,000
MARINE

CLAIM NUMBER	EVENT DATE	CLAIM PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
100920028-1-1	7/13/1991	1992	\$529,977	\$0	\$529,977
300001505-1-1	10/29/1991	1992	578,476	0	578,476
300002140-1-1	5/12/1995	1995	989,131	0	989,131
300002627-1-1	8/12/1997	1998	577,705	0	577,705
300002895-1-1	10/31/1998	1999	637,524	0	637,524
300002856-1-1	8/12/1998	1999	522,606	0	522,606
100200136-1-1	6/6/2000	2000	1,125,892	0	1,125,892
300004299-1-1	10/1/2000	2001	606,843	0	606,843
300004919-1-1	4/12/2002	2002	565,556	0	565,556
2003052615-1	1/4/2003	2003	531,481	0	531,481
2004055580-1	5/10/2004	2004	1,194,857	0	1,194,857
2006058859-1	1/27/2006	2006	782,276	0	782,276
2006059907-1	9/25/2006	2007	649,138	0	649,138
2009063544-1	1/30/2009	2009	782,014	0	782,014

Notes:

(1) to (6) - Per STATE OF ALASKA.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$250,000
AVIATION

CLAIM NUMBER	EVENT DATE	CLAIM PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
200921995-1-1	7/2/1992	1993	\$622,162	0	\$622,162
100930378-1-1	11/12/1992	1993	2,986,710	0	2,986,710
100950042-1-1	10/11/1994	1995	400,000	0	400,000
100980097-1-1	12/5/1997	1998	472,500	0	472,500
2208015622-1-1	1/23/2001	2001	285,301	0	285,301
1100002008-1-1	7/19/2001	2002	386,750	0	386,750
2006059175-1	4/21/2006	2006	333,193	0	333,193
2008062288-1	4/10/2008	2008	375,246	0	375,246
2009064043-1	5/13/2009	2009	394,686	0	394,686
2009064104-1	5/12/2009	2009	271,765	0	271,765
2013-HU000140	3/30/2013	2013	253,861	0	253,861
2015-AP006153	1/31/2015	2015	1,216,990	0	1,216,990
2016-AI005684	10/28/2016	2017	657,496	0	657,496
2020-AV009328	5/28/2020	2020	846	300,000	300,846

Notes:

(1) to (6) - Per STATE OF ALASKA.

STATE OF ALASKA
ACTUARIAL REVIEW OF SELF-INSURANCE PROGRAM
AS OF JUNE 30, 2020
LIST OF LARGE LOSSES
LOSSES GREATER THAN \$250,000
PROPERTY

CLAIM NUMBER	EVENT DATE	CLAIM PERIOD	UNLIMITED PAID LOSSES @6/30/2020	UNLIMITED CASE RESERVES @6/30/2020	UNLIMITED INCURRED LOSSES @6/30/2020
(1)	(2)	(3)	(4)	(5)	(6)
100850075-1-1	11/22/1984	1985	\$298,037	0	\$298,037
100850096-1-1	11/13/1984	1985	746,362	0	746,362
100880105-1-1	2/26/1988	1988	337,624	0	337,624
100900053-1-1	11/21/1989	1990	335,406	0	335,406
100910126-1-1	4/2/1991	1991	284,894	0	284,894
100950171-1-1	1/13/1995	1995	539,933	0	539,933
100970126-1-1	12/22/1996	1997	385,454	0	385,454
100980082-1-1	11/22/1997	1998	849,207	0	849,207
1100001054-1-1	12/16/2000	2001	471,008	0	471,008
2005057236-1	2/12/2005	2005	495,664	0	495,664
2004056657-1	11/20/2004	2005	558,612	0	558,612
2007060413-1	1/20/2007	2007	1,436,848	0	1,436,848
2008062249-2	4/2/2008	2008	815,898	0	815,898
2009064247-1	6/22/2009	2009	323,527	0	323,527
2013-PR000041	3/11/2013	2013	254,000	0	254,000
2014-PR001579	3/4/2014	2014	4,078,137	0	4,078,137
2014-PR002338	8/30/2014	2015	1,252,800	0	1,252,800
2014-PR002322	8/25/2014	2015	1,513,667	0	1,513,667
2018-PR007879	11/30/2018	2019	0	250,000	250,000
2018-PR007894	11/30/2018	2019	0	250,000	250,000
2018-PR007745	11/30/2018	2019	1,000,000	1,000,000	2,000,000
2020-PR009357	2/21/2020	2020	1,000,000	2,922,512	3,922,512

Notes:

(1) to (6) - Per STATE OF ALASKA.

IV. GLOSSARY OF TERMS

Glossary of Terms

<i>Accident Year</i>	Attributing to a given year the total cost of losses which occur in that year.
<i>Bornhuetter-Ferguson Approach (BFA)</i>	Approach which combines reported and paid losses with the expected unreported and unpaid losses to estimate ultimate losses.
<i>Case Reserve</i>	Estimate of unpaid loss on reported claims.
<i>Discount Reserve</i>	The present value, calculated at selected interest rates and payout patterns, of the payment of outstanding losses.
<i>Expected Loss</i>	Exposures multiplied by the pure premium.
<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).
<i>Incurred Loss</i>	Paid loss plus the case reserve.
<i>IBNR Reserve</i>	Reserve for claims incurred but not reported and for future changes to the case reserves.
<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.
<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.

Glossary of Terms

(continued)

<i>Paid Loss</i>	Amount paid on open and closed claims.
<i>Pure Premium</i>	The value of losses per unit of exposure.
<i>Ultimate Loss</i>	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.
