

**FLORIDA BIRTH RELATED NEUROLOGICAL INJURY  
COMPENSATION ASSOCIATION  
REVIEW OF OUTSTANDING LOSS RESERVES  
EVALUATED AS OF JUNE 30, 2018**

**Turner Consulting, Inc.  
August, 2018**

**TURNER CONSULTING, INC.**  
**CONSULTANTS AND ACTUARIES**

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August 13, 2018

Ms. Kenney Shipley  
Executive Director  
Florida Birth Related Neurological  
Injury Compensation Association  
2360 Christopher Place, Suite 1  
Tallahassee, Florida 32308

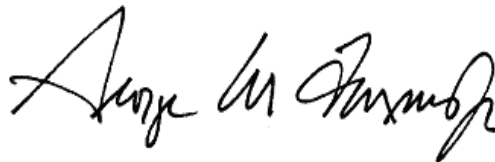
Re: NICA Outstanding Loss Reserves – Evaluated as of June 30, 2018

Dear Ms. Shipley:

Please find enclosed our report on loss and loss adjustment expense (LAE) reserves established for the Florida Birth Related Neurological Injury Association (NICA) as of June 30, 2018.

We have enjoyed working with you on this project and look forward to discussing any questions or comments you may have.

Sincerely,



George W. Turner Jr.  
Fellow of the Casualty Actuarial Society,  
Member of the American Academy of Actuaries

Cc: Tim Daughtry, Steve Lehmann

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**Table of Contents**

<b><u>Section</u></b>	<b><u>Page</u></b>
Introduction	
Purpose	1
Background	1
Distribution and Use	3
Conditions and Limitations	3
Executive Summary	8
Methodology	13
Historical NICA Inflation	22
Prospective NICA Inflation	23
Discount Rate	24
Payment Pattern	26
Incurred Projection Cumulative Development Factor	27
Risk Margin	28
Reinsurance Recoveries	30

## INTRODUCTION

### **Purpose**

Turner Consulting, Inc. (Turner Consulting) was requested by the Florida Birth Related Neurological Injury Compensation Association (NICA) to estimate the outstanding loss and loss adjustment expense (LAE) reserves related to claims incurred by NICA under the current definition of a “birth related neurological injury” (BRNI) as contained in Florida Statute 766.302. The loss and LAE reserve estimate is related to claims incurred prior to and evaluated as of June 30, 2018. The loss and LAE reserve estimates are developed on both a current (2018) cost level basis and after consideration of prospective period inflation and anticipated investment income.

### **Background**

The Florida Birth Related Neurological Injury Compensation Association (NICA) was created by Florida Statute to provide care for children beginning in 1989 that meet the birth related injury criteria as defined in Florida Statutes 766.301 to 766.316. The NICA statute replaces the traditional tort liability remedies with a no-fault type system for those children that meet the requirements as defined in the statute.

The qualifying child must be severely mentally and physically impaired. In addition, a claim must be filed within five years after birth. Prior to the 1994 birth year, a claim had to be filed within seven years of birth.

Care is to be provided for the life of the child. Funds are collected from the various medical care providers during each birth year and invested until payments are required on behalf of the qualifying claimants. There are very limited resources for collecting additional funds from the insurance industry and the Florida Office of Insurance Regulation in the event the funds collected from the medical care providers is not adequate. Due to the significant time period expected between the

time when funds are collected and actual benefits are paid, the estimated impact of inflation as well as an estimate of anticipated investment income must be considered in the establishment of overall loss and LAE reserve levels.

In reports issued prior to September 30, 2012 certain care provided by parents or guardians to claimants paid for by NICA was described as “family care”. While the estimates as developed in the prior reports as well as in the current report are based on a review of all amounts paid and case reserves established related to all care as covered under the NICA statutes, a separate estimate of the amounts related to “family care” was also shown. In the current report a separate estimate is no longer shown for the expense previously labeled as “family care” other than the segregation of amounts estimated for the retrospective portion of the class action settlement as described in the next paragraph. However, a separate estimate of the reserve amounts related to “family residential or custodial care” as defined in Florida Statute 766.302 (10) will be calculated for purposes of the threshold calculation as described in Florida Statute 766.314 (9). This statute specifically excludes benefits related to “family residential or custodial care” for purposes of the threshold calculation in the statute.

A class action settlement agreement was entered into during September 2012 which was approved pursuant to a November 26, 2012 Final Judgment and Order by the Florida Circuit Court. The settlement terms may impact benefits payable to all parents or guardians of a child born with a “birth-related neurological injury” in the State of Florida during the time period of January 1, 1989 through June 6, 2002, who obtained a final order which imposed on NICA the “continuing obligation under provisions of Section 766.31, Florida Statutes, to pay future expenses as incurred”. The estimated impact on the case reserves of this settlement agreement have been incorporated into the case reserve estimates as provided by NICA. The impact is separated into estimates related to the retrospective portion of the settlement (currently defined as prior to August 1, 2012) and the prospective portion of the settlement (currently defined as subsequent to July 31, 2012). It is

our understanding that all of the retrospective portion has been paid in full as of June 30, 2018. The retroactive portion of the settlement has been paid based on information submitted in writing to NICA by class members that either NICA agrees to pay or is ordered to pay by an administrative law judge. The reserve estimates as shown in the attached exhibits no longer include separate reserve estimate for the retrospective portion of the settlement agreement.

### **Qualifications**

I, George W. Turner Jr. am a consulting actuary for Turner Consulting, Inc. I am a Fellow of the Casualty Actuarial Society and a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the opinions as expressed in this report.

### **Distribution and Use**

This report is intended solely for the use of NICA and its Board of Directors and advisors. Any further use or distribution of this report is not intended or authorized without our prior written consent.

### **Conditions and Limitations**

In preparing the estimates as shown in this report we relied without audit or verification on loss, exposure and expense information provided to us by responsible employees of NICA.

The indicated ultimate loss and LAE estimates provided in this report are based on the accuracy of the loss projection methods including the estimation of claim frequency and average claim size for each birth year. In addition, the final loss and LAE reserve estimates will be affected by the prospective period inflation and investment returns realized by NICA. The combined impact of these factors results in a significant degree of uncertainty in the estimated NICA loss and LAE reserve evaluated as of June 30, 2018. This uncertainty arises from the estimation of a number of internal and external factors that have yet to occur or be reported, but

which will impact the ultimate settlement value of claims incurred prior to June 30, 2018. Due to the level of uncertainty with regard to the impact of these factors on the ultimate number and settlement value of actual losses there can be no guarantee that actual losses will not vary, perhaps significantly, from the estimates as shown in this report. However, we have employed actuarial methods and assumptions that are appropriate given the information as provided.

The loss and LAE reserve estimates as shown in this report reflect consideration of payments made on the behalf of NICA claimants by other providers, such as health insurance coverage, Medicaid, etc. Since the payments made by these other providers in many cases reduce the amounts that would otherwise be paid by NICA, any change in the portion of benefits covered by these other providers will impact the loss and LAE reserve estimates as shown in this report. To the extent any of these providers change the level of benefit payments (e.g. change from a primary provider to an excess provider) from those made previously, the reserve estimates as shown in this report will need to be adjusted.

An additional source of variation is introduced in the development of loss and LAE reserve estimates on a present value basis. This variation arises from the fact that actual loss and LAE payments may occur more rapidly or more slowly than contemplated in the assumed payment pattern. Thus, the calculated investment income would differ from the actual investment income earned in proportion to the variation in actual payments from expected payments.

The loss and LAE reserves as contained in this report include explicit consideration of estimated prospective period inflation and investment returns. Specifically, the loss reserve estimates include consideration of the anticipated investment income earned on funds collected prior to the actual payment of claims. The estimated investment income is based on the assumption that sufficient assets will be available for investment to cover the present value of the ultimate losses. To the extent sufficient funds are not available the ultimate loss reserve estimates will

need to be increased to account for the reduction in anticipated investment income.

Estimates of outstanding loss reserves as shown in the text and the accompanying exhibits (e.g. Exhibit I, Sheets 1a through 1c) are before consideration of anticipated reinsurance recoveries under specific and aggregate excess coverage purchased by NICA. An estimate of the NICA net retained loss reserve after consideration of the calculated anticipated specific and aggregate excess coverage recoveries is shown in Exhibit I, Sheet 4a. The estimated specific and aggregate excess coverage recoveries shown in Exhibit I, Sheets 4a and 4b include consideration of the actual commutation or negotiated amounts received to date and also an estimate of amounts recoverable under the commutation clause of current NICA reinsurance treaties with General Reinsurance Corporation (Gen Re). All specific excess reinsurance coverage related to birth years 2001 and prior has been commuted.

The remaining reinsurance recoveries as of June 30, 2018 include specific and aggregate excess recoveries related to birth years 2002 and 2003 and also buffer layer (i.e. \$ 3.0 million excess of \$ 20.0 million) aggregate excess recoveries related to birth years 1999 to 2001. Since recoveries under the remaining specific and aggregate excess coverage are disputed by the reinsurer and are subject to final decisions to be made by an arbitration panel in a pending arbitration proceeding, the amounts that will be ultimately recovered may vary from the estimated amounts shown in Exhibit I, Sheets 4a and 4b.

The estimated amounts recoverable under the Gen Re specific and aggregate excess coverage treaties purchased by NICA for these more recent birth years (e.g. 2002 and 2003) are based on our understanding of the four primary findings as described in the Panel Award issued after the Phase I hearing for the NICA / Gen Re commutation arbitration. Additional factors that impact commutation calculations will be decided in Phase II or later in the arbitration and further



proceedings may be necessary before commutation values are confirmed. Our estimates as shown in the current report reflect our understanding of the decisions expressed in the Phase I Panel Award, but do not include all factors that will be decided in Phase II.

For example, since the Phase I Panel Award specified the order of operations as well as the evaluation date to be used to value the claims in the calculation, changes were made to the order of operations and the evaluation dates incorporated in the reinsurance recovery calculations shown in NICA reports evaluated as of September 30, 2017 and prior. In those prior reports the reinsurance recovery calculation was based on the loss and ALAE information evaluated as of the current quarter or year end. Since one of the key findings of the Phase I Panel Award specifies the reinsurance commutation calculation is to be performed using loss information evaluated as of eighty-four months after the expiration of each birth year (e.g. as of 12/31/09 for BY 2002) and also the calculation is to incorporate expected loss and ALAE present valued to that date, the reinsurance commutation calculations will now reflect valuations as of earlier periods than had been used previously. In addition, several factors remain to be decided in the Phase II arbitration hearing. One of the key factors is the interest rate to be used to reflect that NICA did not receive the commutation funds 84 months after the end of each birth year. Based on the arbitration panel's indication that the parties should be put in the position they would have been in had the reinsurer paid the commutation proceeds to NICA several years ago (e.g. investment adjustment applied to birth year 2002 from the evaluation date of December 31, 2009 through the date of commutation) an adjustment is now needed to accomplish this. That is, since the Phase I Panel Award specified the evaluation date of the calculation to be eighty-four months after the end of each birth year, an additional factor must now be applied to adjust for the investment income that NICA would have earned over the intervening period. It is our understanding this factor as well as other factors will be the subject of the Phase II hearings.

Additional factors to be decided that may impact the final commutation calculation include the specific mortality assumptions and adjustments to be used in the commutation calculation, determination of the relevant aggregate attachment points, and the amount of loss development to be included in the adjustment of case reserves to an ultimate basis. Since the final commutation calculation will be dependent on the final values selected for each of these primary assumptions, the ultimate commutation values may vary from those reflected in this report. The reinsurance recovery as shown in the current report reflects our best estimate with regard to the mortality adjustment, aggregate attachment and loss development adjustment but does not include any adjustment for the interest rate or investment income to be credited for the time period from the specified commutation date to the current report date.

The credited investment income will likely be a significant amount. NICA proposes the proper investment income to be credited should be comparable to the amount they earned over the relevant periods on all other invested assets since NICA would have invested the commutation proceeds in accordance with its investment strategies and asset allocations the same as other invested assets. It is our understanding the average annual investment returns realized by NICA over each of the two periods beginning December 31, 2009 and 2010 through December 31, 2017 was 7.49 % and 6.67 %, respectively. Since the actual amount to be credited will be decided in the Phase II hearing and since NICA has not included a factor for investment income in prior reports, that amount will be included in the calculation once it has been decided.

The assumptions incorporated into the other three factors (i.e. mortality, aggregate attachment point, and loss development) have been used in prior reports.

The attached exhibits summarizing the assumptions and calculations underlying the estimates as set forth in this report are to be considered an integral part of the report. Thus an accurate understanding of the conclusions as set forth in the report

is conditional upon an examination of both the text and the attached exhibits. Further, any distribution of this report should be provided in its entirety and with the understanding that we are available to answer questions with regard to the methods and assumptions underlying the conclusions herein.

### **Executive Summary**

Overall, the outstanding loss and LAE (i.e. ALAE and ULAE) reserves after inflation and discount but prior to consideration of calculated reinsurance recoveries is \$832.4 million as of June 30, 2018 (see Exhibit I, Sheet 1a, Column (7)). This increased by \$3.13 million relative to the estimate as of March 31, 2018. The comparable estimate of outstanding loss and LAE reserves after consideration of calculated reinsurance recoveries is \$810.3 million (see Exhibit I, Sheet 4a, Column (12)). The change relative to the estimate shown in the prior report (i.e. March 31, 2018) is an increase of \$3.13 million. The comparable estimates of outstanding loss and ALAE reserves, excluding the consideration of ULAE reserves, are \$819.7 million and \$797.6 million, respectively.

Total case outstanding loss and ALAE reserves prior to adjustment for prospective inflation and discount increased by \$8.22 million during the quarter ending June 30, 2018. This includes an increase in case reserves of \$14.72 million related to new claims first reported during the quarter. Thus in the aggregate, case reserves established on claims reported prior to April 1, 2018 decreased by \$6.49 million relative to the case loss and ALAE reserves established as of March 31, 2018 (\$8.22 M minus \$14.72 M = (\$6.49 M)). The comparable estimate of case outstanding loss and ALAE reserves after inflation and discount increased by \$5.70 million during the quarter ending June 30, 2018.

The estimated ultimate loss and ALAE prior to reinsurance recoveries and after inflation and discount related to claims incurred in birth years 2017 and prior decreased by \$3.42 million relative to the estimates as set forth in the March 31, 2018 report. Due to the addition of another quarter, estimated ultimate loss and

ALAE related to birth year 2018 increased by \$11.29 million. In combination, the estimated ultimate loss and ALAE increased by \$7.88 million during the quarter ( $(\$3.42 \text{ M}) + \$11.29 \text{ M} = \$7.88 \text{ M}$ ). Total loss and ALAE payments made during the quarter was \$4.67 million. Since estimated ultimate loss and ALAE increased by \$7.88 million and loss payments were \$4.67 million, the total outstanding loss and ALAE increased by \$3.21 million relative to the estimates as set forth in the March 31, 2018 report ( $\$7.88 \text{ M} - \$4.67 \text{ M} = \$3.21 \text{ M}$ ).

The calculated reinsurance recoveries did not change from the estimates of \$22.11 million as set forth in the March 31, 2018 report. Since the estimated ultimate loss and ALAE prior to reinsurance recoveries increased by \$7.88 million and the reinsurance recoveries did not change, overall estimated ultimate loss and ALAE increased by \$7.88 million during the quarter ( $\$7.88 \text{ M} - \$0 \text{ M} = \$7.88 \text{ M}$ ). Thus as mentioned above, since loss and ALAE payments during the quarter were \$4.67 million, the total outstanding loss and ALAE increased by \$3.21 million relative to the estimates as set forth in the March 31, 2018 report ( $\$7.88 \text{ M} - \$4.67 \text{ M} = \$3.21 \text{ M}$ ). The overall change in estimates of ultimate loss and ALAE after inflation and discount during the quarter ending June 30, 2018 are shown in the following table.

Ultimate Loss & ALAE  
After Inflation & Discount  
Prior to Reinsurance Recoveries

Ultimate Loss & ALAE  
After Inflation & Discount  
After Reinsurance Recoveries

Birth Year	Ultimate Loss & ALAE After Inflation & Discount Prior to Reinsurance Recoveries			Ultimate Loss & ALAE After Inflation & Discount After Reinsurance Recoveries		
	@ 6/30/18	@ 3/31/18	Change (2) - (3)	@ 6/30/18	@ 3/31/18	Change (5) - (6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1989	25,879,332	25,909,219	(29,887)	25,879,332	25,909,219	(29,887)
1990	12,755,448	12,766,028	(10,579)	12,755,448	12,766,028	(10,579)
1991	25,072,996	25,057,791	15,205	25,072,996	25,057,791	15,205
1992	48,114,672	48,098,345	16,327	47,637,297	47,620,970	16,327
1993	42,904,457	42,940,930	(36,472)	21,496,392	21,532,865	(36,472)
1994	19,040,052	19,061,491	(21,439)	16,889,844	16,911,283	(21,439)
1995	30,080,947	29,950,211	130,736	27,208,370	27,077,634	130,736
1996	28,416,853	28,128,540	288,313	27,048,380	26,760,067	288,313
1997	36,747,525	36,323,702	423,822	34,191,046	33,767,224	423,822
1998	61,774,583	61,164,079	610,504	59,091,444	58,480,940	610,504
1999	26,268,418	26,278,710	(10,293)	20,385,269	20,395,562	(10,293)
2000	19,614,424	19,555,072	59,352	17,321,171	17,261,820	59,352
2001	26,129,798	26,025,252	104,545	23,278,983	23,174,438	104,545
2002	62,800,935	62,521,502	279,433	43,122,639	42,843,206	279,433
2003	17,146,505	17,105,810	40,695	15,146,143	15,105,447	40,695
2004	25,232,568	25,281,175	(48,607)	25,232,568	25,281,175	(48,607)
2005	30,140,188	30,199,402	(59,214)	30,140,188	30,199,402	(59,214)
2006	45,552,745	45,657,310	(104,565)	45,552,745	45,657,310	(104,565)
2007	37,816,640	38,057,073	(240,433)	37,816,640	38,057,073	(240,433)
2008	46,296,752	46,768,363	(471,610)	46,296,752	46,768,363	(471,610)
2009	54,441,430	55,153,484	(712,054)	54,441,430	55,153,484	(712,054)
2010	25,964,145	26,264,839	(300,694)	25,964,145	26,264,839	(300,694)
2011	45,706,678	45,862,119	(155,440)	45,706,678	45,862,119	(155,440)
2012	28,429,536	28,375,744	53,793	28,429,536	28,375,744	53,793
2013	32,980,297	34,191,133	(1,210,835)	32,980,297	34,191,133	(1,210,835)
2014	45,623,726	46,948,709	(1,324,983)	45,623,726	46,948,709	(1,324,983)
2015	43,664,248	41,175,188	2,489,059	43,664,248	41,175,188	2,489,059
2016	35,187,720	35,952,308	(764,588)	35,187,720	35,952,308	(764,588)
2017	47,264,688	49,691,689	(2,427,001)	47,264,688	49,691,689	(2,427,001)
2018	24,400,150	13,106,083	11,294,067	24,400,150	13,106,083	11,294,067
Totals All	1,051,448,456	1,043,571,300	7,877,156	985,226,268	977,349,112	7,877,156
1989 - 2017	1,027,048,306	1,030,465,217	(3,416,911)	960,826,118	964,243,028	(3,416,911)

Loss and LAE reserve estimates referenced above include the separate estimation of loss and ALAE and ULAE reserves. A separate estimate of the ULAE reserve as of June 30, 2018 is developed on Exhibit I, Sheets 5a and 5b. The present value of the ULAE reserve estimate as of June 30, 2018 is \$12.72 million. The ULAE reserve estimate is comprised of two elements. The first (\$11.77 million) relates to the loss adjustment expense not allocated to a specific claim file that is associated with actual settlement of claims incurred prior to June 30, 2018. The second component (\$0.95 million) is related to anticipated expenses associated with the collection of reinsurance recoveries.

The loss and LAE reserves are shown in the attached Exhibit I, Sheet 1a are stated on a present value basis. Since current case reserves established by NICA in the case reserve worksheets are recorded on a current (2018) cost level basis, both case reserves and the bulk / incurred but not reported (IBNR) reserves as shown in Exhibit I, Sheets 1a and 1c (excluding the retrospective portion of the class action settlement) have been adjusted to include the estimated impact of inflation between the current (2018) evaluation date and the time at which actual payments are expected to be made by NICA. In addition, the payment stream after adjustment for inflation has been discounted to reflect an estimate of the investment income expected to be earned by NICA on assets representing the reserve funds, between the evaluation date of this report and the time period payments are expected to be made.

The final present value loss and LAE reserve estimates related to all expected NICA benefits prior to consideration of anticipated specific and aggregate excess reinsurance recoveries are shown in Exhibit I, Sheet 1a. These estimates are based on our selected estimates with regard to the prospective period inflation rates, investment income, the tail factor applicable to incurred loss development subsequent to 354 months and the payment pattern related to outstanding loss and LAE reserves for each birth year. The present value loss and LAE reserve estimate of \$832.4 million is shown in Column (7) of Exhibit I, Sheet 1a. The

reserve estimates as shown in Exhibit I, Sheet 1a include consideration of expected payments related to all NICA benefits. The estimated loss and LAE reserve estimates prior to consideration of the retrospective portion of the class action settlement agreement as described previously are shown in Column (7) of Exhibit I, Sheet 1c. The estimated amounts expected to be paid related to the retrospective portion of the class action settlement are shown in Exhibit I, Sheet 1b.

Alternative estimates of the direct (before reinsurance recoveries) basis loss and ALAE reserve based on variation in the inflation, interest rate and tail factor are shown in Exhibit I, Sheets 2b to 2f in order to illustrate the impact on the loss and ALAE reserve of changes in some of the underlying key assumptions. Exhibit I, Sheet 3 illustrates the estimated cash flow by year related to the estimated outstanding loss and ALAE reserve established as of June 30, 2018.

Actuarial Standards of Practice provide that a risk margin may be included in an unpaid claim estimate, and if it is, the risk margin and the basis for calculating it should be disclosed. As part of our determination of actuarially sound and appropriate reserve levels for NICA, we have determined an appropriate risk margin as described later in this report.

We recommend that NICA set the risk margin at a level no lower than \$73.5 million. This produces a confidence level of approximately 80% that the reserves held by NICA as of December 31, 2017 will equal reserve levels required at that date based on actual incurred losses emerging over the life of these claims. The risk margin indication is provided on an annual basis and is not updated quarterly.

## **Methodology**

A change in procedure was included in our reports beginning with the September 2012 report. The change resulted in a segregation of the retrospective portion of the September 2012 class action paid and incurred amounts from other paid and incurred amounts. The retrospective portion of the class action is shown separately (Exhibit I, Sheet 1b) due to the short-term nature of these payments. As shown on Exhibit I, Sheet 1b, the majority of the payments related to retrospective portion of the class action have been made as of June 30, 2018.

The loss and LAE reserve amounts related to other than the retrospective portion of the class action are shown on Exhibit I, Sheet 1c. Specifically, the loss and LAE reserve amounts as set forth in Exhibit I, Sheet 1c and all following exhibits also described in the following text are based on information that excludes the retrospective portion of the class action settlement agreement shown in Exhibit I, Sheet 1b. The final reserve amounts shown in Exhibit I, Sheet 1a include both the retrospective portion shown in Exhibit I, Sheet 1b and the prospective portion of expenses that are included in the estimates shown in Exhibit I, Sheet 1c and the following exhibits.

As mentioned previously, the loss and LAE reserve estimates as shown in this report are adjusted to include the impact of prospective period inflation and anticipated investment income. The procedure used to estimate the loss and LAE reserves for all estimated NICA benefits, with the exception of those related to the retrospective portion of the class action settlement agreement, includes a three step process. This three step process is intended to explicitly recognize the impact of inflation and anticipated investment income. The first step is to adjust actual NICA historical paid and incurred loss development information to eliminate the historical impact of inflation on the paid and incurred loss development information. The actual historical incremental loss payments and case outstanding loss reserves are shown in Exhibit IX, Sheets 3a, 3b, and 3c, and Sheets 4a, 4b, and 4c, respectively. The historical loss payments and case reserve amounts are



adjusted to eliminate the estimated impact of inflation. The incremental loss payments and case outstanding loss reserves after adjustment to eliminate the impact of inflation are shown in Exhibit IX, Sheets 1a, 1b, and 1c, and Sheets 2a, 2b, and 2c, respectively. The paid and case reserve amounts shown on Exhibit IX, Sheets 1a, 1b, and 1c, and Sheets 2a, 2b, and 2c are adjusted to birth year cost levels. The birth year level paid and case outstanding amounts are used to develop the adjusted paid and incurred loss development triangles as shown in Exhibit VIII, Sheets 2a and 2b, and Exhibit VII, Sheets 2a and 2b, respectively.

The “second step” in the three step process is to adjust the birth year cost level estimates of outstanding loss and ALAE (see Exhibit IV, Sheet 1, Column (7)) to current (2018) cost levels. The adjustment of birth year level estimates of outstanding loss and ALAE related to all NICA benefits (except for the estimated retrospective portion of the September 2012 class action settlement) to 2018 cost level is shown in Exhibit III.

The final or “third” step in the three step loss reserve estimation process is to adjust the 2018 cost level loss reserve estimates referenced above to include the estimated impact of prospective inflation (2018 and subsequent) and anticipated investment income (discount). The prospective period inflation rate is based on a review of historical and recent inflation rates as measured by the Consumer Price Index (both the all items and medical services indices) over the time period from 1960 to 2017. The prospective period investment returns are selected based on the review of geometric averages for investment returns for a model portfolio invested per NICA’s current investment policy and for a conservative model portfolio over the period from 1926 to present as well as actual NICA investment returns over the period from 1991 to present. While the actual prospective period inflation rates and investment returns are subject to a significant degree of uncertainty the difference or increment between inflation and investment returns is of primary importance.

Based on a review of actual inflation and investment returns we selected an increment of one and one – half percent (1.50 %) and a prospective period inflation (combination of all items and medical services) rate of three and one-half (3.50%) percent. The indicated investment return percentage is then calculated to be five percent. In order to illustrate the impact on the loss reserve estimates of changes in the overall inflation and investment returns we also have included a range of estimates based on increments (average investment return minus average inflation rate) of one and two percent in addition to our selected estimate of one and one – half (1.50%) percent.

The loss and ALAE reserve estimates are developed based on the selected prospective period inflation rate, investment return and the assumed loss payment pattern for each birth year. The loss and ALAE payment patterns are developed separately for each birth year and are based on the estimated payments as shown in the NICA case reserve worksheets for the current open accepted claims. Due to the small number of open claims and the variability in the life expectancy for each claimant the payment patterns can vary by birth year. The estimated future period claim payments as shown in the NICA case reserve worksheets are all expressed at current (2018) cost levels. These prospective period claim payments are adjusted to include consideration of mortality on the prospective period loss and ALAE payment pattern. A summary of the estimated 2018 cost level payment patterns for each birth year are shown in Appendix A, Exhibit I, Sheets 1a, 1b, 2a, 2b, 3a, and 3b. An example of the calculation of the 2018 cost level payment pattern for the 1996 birth year is shown in Appendix A, Exhibit II, Sheets 1a, 1b, 2a, 2b, 3a, and 3b.

The loss reserves are developed based on a combination of the inflation rate, investment returns, estimated 2018 level loss and ALAE reserves by birth year and the assumed 2018 level payment pattern applicable to each birth year. The loss and ALAE reserves on a 2018 cost level basis, after prospective period inflation but before anticipated investment income and after prospective period inflation and

anticipated investment income are shown in columns (6), (7) and (8) of Exhibit I, Sheet 3, respectively.

### **Description of Loss Estimation Methods**

The birth year level paid and incurred loss development triangles (i.e. after adjustment to eliminate the impact of inflation) are used to develop estimates of ultimate losses for each birth year. The historical NICA inflation rates used to restate actual NICA loss and ALAE payments and case outstanding amounts are estimated separately for loss and ALAE payments and case outstanding amounts. The estimated NICA inflation rates are shown in Exhibit IX, Sheets 8a, 8b and 8c on both a paid and case outstanding basis. Additional information related to the calculation of the historical NICA inflation rates is shown in Appendix B.

The estimated ultimate loss and ALAE by birth year related to all NICA benefits except for the retrospective portion of the class action settlement are selected based on the review of six loss estimation methods. The six methods used in the development of estimated birth year level ultimate loss and ALAE include two traditional loss development methods (i.e. paid and incurred loss projections), a frequency / severity method, the Bornhuetter – Ferguson (BF) method, a Cape Cod method, and an incremental payment method. The final indicated ultimate loss and ALAE based on each method in addition to the final selected birth year level estimates are shown in Exhibit IV, Sheet 2.

The projection methods (shown in Sheet 1 of Exhibits VII and VIII) are based on the review of historical NICA paid and incurred loss development (after elimination of the impact of inflation) for a given birth year. The loss and ALAE payment and reporting patterns experienced for the more mature birth years are used in order to estimate expected future development applicable to the more immature birth years.

The frequency / severity method shown in Exhibit VI, Sheet 1 is based on the estimation of the average claim size and the estimated ultimate number of

accepted claims excluding the deceased claims when reported to NICA for each birth year. Specifically, the average claim size for each birth year is calculated as a weighted average of the average claim size shown for each individual birth year and the average claim size developed based on all birth years combined. In the more recent birth years, relatively greater weight is provided to the average claim size developed for all years combined.

The Bornhuetter – Ferguson method summarized in Exhibit V is a combination of the actual birth year level incurred loss and ALAE as of June 30, 2018 (shown in column (5)) and estimated unreported loss and ALAE (shown in column (4)). The unreported loss and ALAE is developed using the loss reporting pattern developed based on the NICA incurred loss and ALAE development triangle shown in Exhibit VII, Sheets 2a and 2b and the estimated initial expected loss and ALAE by birth year based on the results of the frequency / severity method shown in Exhibit VI, Sheet 1, column (14).

The Cape Cod method shown in Exhibit VI, Sheet 2 is based on the estimated NICA exposure levels (i.e. insured physicians) by birth year, the estimated NICA loss reporting pattern and the actual NICA birth year level incurred loss and ALAE. An estimate of the 2018 level NICA pure premium is calculated by dividing the 2018 level incurred loss and ALAE for all birth years combined by the reported NICA exposures (i.e. insured physicians multiplied by estimated percent reported). The 2018 level NICA pure premium is adjusted to the historical birth year level cost basis and then used to estimate the unreported loss and ALAE for each birth year (column (10)). The indicated birth year level ultimate loss and ALAE is based on a combination of the unreported loss and ALAE shown in column (10) and the actual reported loss and ALAE shown in column (3).

The final method included is described as an incremental payment method. The estimated birth year level ultimate loss and ALAE developed using this method is shown in Appendix E. The birth year level estimates of ultimate loss and ALAE as

shown in columns (6), (7) and (8) of Appendix E, Exhibit I, Sheet 1 are based on alternative technology (utilization) increases of 1.00%, 2.00% and 3.00%, respectively. The estimated birth year level ultimate loss and ALAE is a combination of actual loss and ALAE payments as of June 30, 2018 adjusted to each birth year cost level and an estimate of the remaining birth year level loss and ALAE payments (i.e. outstanding loss and ALAE as of June 30, 2018). The estimated remaining birth year level payments are developed based on a combination of the remaining open accepted claimants by birth year and the estimated average incremental loss and ALAE payment per claimant.

The estimated incremental loss and ALAE payment per claimant is based on a review of the average NICA incremental loss and ALAE payments by development period. The actual incremental loss and ALAE payments are adjusted to 2018 level and used to estimate the average incremental payment per open accepted claim by development period (See Appendix E, Exhibit IV, Sheets 3a and 3b). The selected 2018 level average incremental loss and ALAE payments for development periods 354 months and subsequent are based on the actual averages for development periods prior to 354 months adjusted to include consideration of estimated changes in utilization (alternatives of 1.00%, 2.00% and 3.00%). The final 2018 level average incremental loss and ALAE payment per open claim is shown in Appendix E, Exhibit II, Sheet 1 (or Appendix E, Exhibit IV, Sheets 1a and 1b).

The selected 2018 level incremental loss and ALAE payment per claimant for each development interval is adjusted to the appropriate birth year level (as shown in Appendix E, Exhibit II, Sheet 3, Column (5)) and also to include differences in the average claimant severity by birth year (as shown in Appendix E, Exhibit II, Sheet 2, Column (5)). The estimated remaining open accepted claims by birth year and development period are based on a combination of the ultimate open accepted claimants by birth year as of June 30, 2018 (see Appendix E, Exhibit II, Sheet 3, Column (8)), reporting pattern (as shown in Exhibit X, Sheet 1c, Column (11)), and

assumed mortality rates (see Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b) developed using the average remaining life expectancy per open accepted claim (see Appendix E, Exhibit VII, Column (9)) for each birth year.

The estimated average remaining life expectancy per birth year is shown in Appendix E, Exhibit VII, Column (9). The remaining open accepted claimants by birth year and development period are shown in Appendix E, Exhibit III, Sheets 3a through 3g. The remaining birth year level incremental loss and ALAE payments are developed as a product of the average 2018 level incremental payments per claimant adjusted to each birth year cost / severity level and the remaining open accepted claims. The resulting estimated remaining birth year level incremental loss and ALAE payments are shown in Appendix E, Exhibit III, Sheets 1a through 1g. A summary of the combination of the actual birth year level payments as of June 30, 2018 and the estimated remaining payments is shown in Appendix E, Exhibit I, Sheet 1.

The four assumptions that most significantly impact the overall loss and LAE reserve estimate are as follows:

1. Incurred Loss Development Factor – 354 months to Ultimate
2. Prospective Period Average Inflation Rate
3. Prospective Period Average Investment Return
4. Loss and Loss Adjustment Expense Payment Pattern

The loss and LAE (ALAE and ULAE) reserve estimates based on our selected estimate for each of the first three assumptions are shown in Exhibit I, Sheet 1a. In order to illustrate the impact of changes in these assumptions on the NICA loss reserve estimate we have provided a summary of alternative loss reserve estimates based on changes to each of these three assumptions. As mentioned previously the actual inflation rates and investment returns are not as critical as the difference in these two rates. A summary of the overall loss and ALAE (excluding

ULAE) reserve estimates based on several alternative assumption sets is shown below. Our actuarial central estimate is shown in Exhibit I, Sheet 2a and also shown in the first line of the following table.

<b>Inflation Rate</b>	<b>Investment Return</b>	<b>Tail Factor 354:Ult.</b>	<b>Present Value Outstanding Loss and ALAE Reserve in Million (\$)</b>
-----	-----	-----	-----
3.50%	5.00%	1.101	\$819.691
3.00%	5.00%	1.101	\$741.620
4.00%	5.00%	1.101	\$911.025
7.50%	9.00%	1.101	\$829.049
3.50%	5.00%	1.201	\$911.180
3.50%	5.00%	1.001	\$728.551

As mentioned previously and illustrated above the final present value loss and ALAE reserve estimated for the period ending June 30, 2018 is sensitive to each of the four assumptions described previously. The most significant factors are the relationship between the anticipated inflation and investment income rates, the magnitude of the incurred loss development tail factor and the payment pattern applicable to each birth year. Due to the prospective nature of each of these assumptions any estimate is subject to uncertainty. In addition the lack of comparable insurance industry data for use as a benchmark in the selection of the loss development factor and payment pattern coupled with the long term over which payments are expected to be made creates levels of potential variation in excess of that normally experienced for usual long tailed lines of business. The

remainder of this report summarizes the approach we have used in an effort to develop an estimate for each of these key assumptions.

The loss and allocated loss adjustment expense (ALAE) reserve estimates as developed in Exhibit II, Sheet 1 and subsequent do not include a provision for unallocated loss adjustment expense (ULAE) reserves. ULAE reserves are intended to cover anticipated loss adjustment expenses not covered in the loss and ALAE reserve estimates.

A summary of the procedure used in the estimation of the ULAE reserve is shown in Sheets 5a and 5b of Exhibit I. The total ULAE reserve as shown in item III of Exhibit I, Sheet 5a is made up of two components. The calculation of the ULAE reserve related to specific claims administration and settlement expenses for claims incurred prior to June 30, 2018 is shown in Exhibit I, Sheet 5b. This procedure is similar to that utilized in the calculation of NICA loss and ALAE reserves in that current expense levels are projected forward to estimated prospective period cost levels and then adjusted to a present value basis. The present value calculation includes consideration of both anticipated investment income and expected mortality over the time period. The second component of the overall ULAE reserve is related to anticipated expenses related to the collection of recoveries under reinsurance treaties covering birth years 1999 through 2003. The current estimate of these expenses is based on a current estimated average annual expense of \$950,000 and an estimated duration for the recovery process of one year (Exhibit I, Sheet 5a, Item II). The total ULAE reserve as shown in Item III of Exhibit I, Sheet 5a of \$12.72 million is the combination of the portion related to claim settlement (\$11.77 million) and portion related to the collection of outstanding reinsurance recoveries on claims incurred during birth years 1999 through 2003 (\$0.95 million).

The prospective period inflation rate of three (3%) percent is selected to project anticipated ULAE expense payment as opposed to the three and one-half (3.5%)



percent inflation rate selected to inflate loss and ALAE reserve. The somewhat lower inflation rate is based on the greater concentration of general and administrative expense expected for prospective period ULAE payments.

The mortality adjustment is developed based on current estimates of remaining life expectancy as included in the current NICA reserve worksheets. The final mortality adjustment is a blended average of average mortality assumptions for each birth year.

### **Historical NICA Inflation**

In order to measure NICA's historical inflationary increases in claims costs, we began by segregating NICA's claim costs into major claim cost groups. The following expense groups were identified:

- Family Residential or Custodial Care
- Nursing Care by Others
- Legal Costs
- Parental Awards
- Medical Expenses
- Other

Each of these major expense groups were then examined separately for inflationary impacts. For example, relative to nursing care, we tracked the hourly cost of nursing care as paid by NICA since the program began in 1989.

An increase in the hourly rate for most parents providing care occurred in June 2008. The increase in the hourly rate for most parents effective in June, 2008 (from \$9.70 per hour to \$15.00 per hour) resulted in cost under the expense category Nursing Care By Parents as shown on Appendix B, Exhibit I, Sheets 1, 2, and 3. Some of the major expense groups' inflation rates were estimated using CPI indices.

In addition, the daily rates used to estimate the future cost of custodial residential care were revised in December 2004, 2006, and 2012. The reserves for custodial residential care apply in the later years when the parents of NICA claimant have reached an age where they are no longer able to provide the level of care required. This change in the daily rate effectively results in the recognition of inflation that has taken place over a number of years related to the cost of custodial residential care. Since currently there are only two claims with current custodial residential care payments, this increase primarily affects case reserves. The estimated increase in the cost of custodial care recorded in 2004, 2006 and 2012 is 40%, 40%, and 95%, respectively.

We tabulated the total payments and case outstanding reserves by fiscal year for each of the major expense group. By far the largest expense category is nursing care with approximately forty-five percent of the total payments and eighty percent of the outstanding case reserves based on information provided for the period ending June 30, 2018. The historical inflation rate for each birth year is estimated by weighting the historical inflation rates by expense groups with that expense group's percentage of total payments (or case reserves) by year. Overall, the historical "true" inflation rate for NICA has been minimal. On a paid basis inflation has averaged approximately one percent over the time period from inception (1989) to current (2018) with the only major increase occurring during 2008 and 2009. This inflation rate does not include increases related to increased utilization of certain types of nursing and custodial care or increases in longevity relative to the initial estimates. These increases are reflected in the loss development triangles and are assumed to continue although at a decreasing rate as indicated by the declining loss development factors in the later development periods.

### **Prospective NICA Inflation**

Future inflation is estimated as a differential to various consumer price indices depending on the type of expense. The largest category, nursing expense is assumed to increase at approximately one to two percent above the CPI – all

indices annual increase. The overall average annual NICA inflation rate is estimated to be 1.00 to 2.00 percent above the CPI – All items index. We are assuming a 2.00 % increase in CPI – All items currently which gives a current estimate of inflation of 3.50 %.

### **Discount Rate**

Because of the long term nature of the liabilities of NICA it is reasonable to base discount rates to be used in the determination of NICA's reserve liabilities on a conservative estimate of investment returns likely to be realized on NICA's assets over a long term horizon. In determining assumptions for inflation and discount rates, we begin with the consumer price index for all items and determine anticipated inflation and discount rates based on long term relationships to the consumer price index.

The discount rate assumption is selected based on reasonable expectations for a prudent, conservative investment strategy. Appendix B, Exhibit II, Sheets 1 and 2 show the change in the CPI all items index as compared to returns for various classes of investments from 1926-2017. Specifically, we have examined returns for both large and small company stocks, long and intermediate government bonds, and treasury bills. These indices are taken from Ibbotson's 2009 S&P 500 Classic Yearbook and updated based on recent Federal Reserve data and U.S. Bureau of Labor Reports. We then calculated estimates of the overall return based on two "model" portfolios. One model portfolio is based on an asset allocation of 44% stocks and 56% fixed income. This model portfolio is labeled Model Portfolio (as shown in Column (13) of Appendix B, Exhibit II, Sheets 1 and 2). The second model portfolio is based on an asset allocation of 35% stocks, 60% bonds and 5% short term. This model portfolio is labeled Conservative Model Portfolio (as shown in Column (14) of Appendix B, Exhibit II, Sheets 1 and 2).

We also calculated the geometric average return, the arithmetic average return, and the standard deviation for each class of investment and the model portfolios.

Returns were then calculated for the periods 1926-1929, 1930-1939, 1940-1949, 1950-1959, 1960-1969, 1970-1979, 1980-1989, 1990-1999, 2000-2009 and 2010-2017.

Overall, the results of the two model portfolios over ten year periods average from 0 % to 10 % above the CPI - All items index. Actual results for NICA were also calculated for the period 1991-2017. NICA's actual results were adversely affected by the dramatic decline in the stock market in 2008. Overall NICA's actual returns over the period from 1991 to 2017 have averaged approximately 3.7% above the CPI – All items index.

Based on this analysis, we recommend that the discount rate used in the discounting of NICA's reserve liabilities ranges from 2 % to 4 % above the CPI - All items index. In our current reserve calculations we have assumed a 3.0 % spread to the CPI - All items index. Based on a current selected CPI – All items inflation rate of two percent this produces a discount rate of 5.0 %. The 5.0 % appears to be reasonable based on NICA's actual average investment returns for the last twenty years and based on the long term average as indicated for the Conservative model portfolio.

It should be noted that in valuing NICA's reserve liabilities, the spread between inflation and interest rates is the key variable rather than the nominal values of each. Here we have assumed a 1.50 % spread between the medical inflation rate and the investment rate. So at current levels of inflation and interest, this produces an assumption of 3.50 % for inflation and 5.00 % for interest income. If it turns out to be 5.00 % inflation and 6.50 % interest income, this has a minimal impact on the overall reserve levels. It is the spread between these two key factors that is the critical variable.

## **Payment Pattern**

The selection of the appropriate payment pattern is required to adjust current (2018) level loss reserves for both the estimated impact of future inflation and the consideration of anticipated investment income. The selected payment pattern has a significant impact on the final present value loss and loss adjustment expense reserve. Due to the long term nature of the NICA liabilities changes in the estimated payment pattern will likely evolve over time as additional NICA payment experience emerges.

The current selected loss and ALAE payment pattern varies by birth year and is based on a combination of the of the actual loss and ALAE payments made to date and the estimated future loss and ALAE payments as shown in the NICA case reserve worksheets. The estimated future loss and ALAE payments shown in the NICA case reserve worksheets are stated on current (2018) loss and expense levels. The estimated future loss and ALAE payments shown in these worksheets are adjusted to reflect the estimated impact of mortality. The survival probabilities used in this adjustment are based on the life expectancy as established by the NICA designated consulting physician. A slight change was made beginning December 31, 2013 in the life expectancies used in the development of the case reserve worksheets. The change is related to the claimants whose life expectancy remained the same based on the current review in comparison to the life expectancy established in the prior review by NICA's consulting physician. For these claimants the estimated remaining life expectancy was adjusted to account for the reduction in life expectancy that would be expected for one additional year of survival.

An example of the procedure used to estimate the payment pattern for birth year 1996 is shown in Appendix A, Exhibit II, Sheets 1a, 1b, 2a, 2b, 3a, and 3b. As described above the payment pattern selected for the 1996 birth year is based on a combination of loss and expense payments made to date relative to the estimated ultimate loss and expense and the estimated future loss and ALAE

payment based on the individual case reserve worksheets (adjusted for the probability of survival). A summary of the development of the remaining estimated payout percentages for the case reserve portion of the six open claims with reserve worksheets for the 1996 birth year is shown in Appendix A. The reserve payment pattern is combined with the actual payment pattern (1996 to 2018) to develop a full payment pattern for the 1996 birth year.

This process is repeated for each birth year and the resulting payment patterns are used for the birth years 2009 and prior. Alternatively, the loss and ALAE payment pattern used for birth years 2010 and subsequent is based on an average of the individual loss and ALAE payment patterns developed for 2009 and prior. The average payment pattern is used for the more recent birth years due to the relative immaturity of the case reserve estimates of the more recent birth years.

#### **Incurred Projection Cumulative Development Factor**

Due to the lack of available incurred loss and expense development information subsequent to 354 months of maturity (1989 birth year evaluated as of June 30, 2018) and the likelihood of continued incurred loss and expense development in the development periods subsequent to 354 months, we developed an estimate of the remaining future loss development (tail factor) excluding the impact of anticipated inflation. The estimated incurred development factor as developed in Appendix C is intended to capture the incurred loss development over the remaining life of the NICA claims.

The approach selected to estimate the remaining incurred loss and loss expense development is to fit an inverse power curve to the weighted average development factors (after adjustment to remove the estimated impact of inflation) as shown in Exhibit VII, Sheet 2b. Fitted tail factors for the period from 354 to 618 months are developed based on alternative fits to factors beginning with the 54:66, 66:78 and 78:90 month factors shown in Exhibit VII, Sheet 2b. Fitted tail factors are developed based on the use of the alternative selections of the values to include in

the least squares fit to the inverse power curve that range from the first eleven factors to the first five factors beginning with the 54:66, 66:78 and 78:90 month factors. A summary of the indicated 354 to ultimate incurred loss and expense tail factors based on the alternative inverse power curve fitted values as well as the final selected incurred loss and expense development factor of 1.101 is shown in Appendix C, Exhibit I.

An illustration of the development of fitted values and the calculation of the indicated 354 months to ultimate tail factor is shown for one of the alternatives in Appendix C, Exhibit II, Sheets 1 and 2. The development of the fitted values for this one illustration is shown in Appendix C, Exhibit II, Sheet 1. The indicated tail factor is based on the extrapolation of the fitted factors for an additional twenty-three years (a rough estimate of the remaining life expectancy of NICA claimants that have or will attain the age of twenty-nine). The extrapolated factors are shown for this one illustration in Column (7) of Appendix C, Exhibit II, Sheet 2.

### **Risk Margin**

Actuaries using a discounted property/casualty loss and loss adjustment expense reserve may include an appropriate risk margin. As part of our determination of actuarially sound and appropriate reserve levels for NICA, we have determined a risk margin to include consideration of the process variation in the aggregate loss and LAE reserve shown in this report.

In order to determine an appropriate risk margin, we used a simulation model that simulates the ultimate payments of open claims. Twenty-nine years of data were incorporated into the model (1989-2017). The data is based upon the actual claim count and claim payments reported by year to NICA, as well as estimated ultimate loss reserves and claim counts. The model is a frequency / severity model where the number of unpaid claims is first modeled and then the severity for each open claim is simulated. For years 1989 to 2012 the open claim count per year is fixed since there is a five year reporting requirement for claims to be made (prior to the

1995 birth year the claim reporting requirement was seven years). For the five years from 2013 to 2017, the number of claims per year is randomly generated based upon accepted claims reported to date and an estimate of the unreported claims. Once the number of claims is determined the severity of each individual open claim is then randomly simulated. The simulated severities are tested to be consistent with the estimated outstanding losses divided by the open claims. Losses for each year are simulated and summed across all twenty-nine years to determine the aggregate losses for all years.

We ran 10,000 iterations to develop a distribution of aggregate losses. In order to determine the risk margin we calculate the mean loss and the losses at various percentiles. The losses at the percentiles are then compared to the mean to determine a risk margin factor. The risk margin factors are then multiplied by the expected reserves calculated based on an assumed inflation rate of 3.50 % and an interest rate of 5.00 % to determine the corresponding risk margin at each percentile.

In our work for self insured entities, we have found that most prudent self-insured's use a risk margin determined at a confidence level varying from 75 to 90%. In the past, NICA has used a contingency reserve developed at approximately the 75% to 80% confidence level. Updating the calculation through December 31, 2017, the current gross risk margin of \$73.5 million produces a confidence level of approximately 80%. We recommend that NICA set the risk margin at a level no lower than \$73.5 million. This produces a confidence level of approximately 80% that the reserves held by NICA will be adequate to cover its future incurred loss and loss adjustment expense levels for birth years from 1989 to 2017. The following table shows the indicated gross risk margins at various confidence levels as of December 31, 2017.



<b>Confidence Level</b> -----	<b>Indicated Gross Risk Margin</b> -----
70.0%	\$ 43.57 Million
75.0%	\$ 56.99 Million
77.0%	\$ 62.69 Million
78.0%	\$ 66.04 Million
79.0%	\$ 69.48 Million
80.0%	\$ 72.13 Million
85.0%	\$ 91.18 Million
90.0%	\$ 114.30 Million
95.0%	\$ 151.10 Million

The above calculated risk margins include consideration of potential adverse deviation from the discounted actuarial central reserve estimate due to process variation in the overall claim amounts (i.e. frequency and severity). The above margin does not include consideration of potential deviation due to parameter variation, including the variation in the inflation and investment parameters used in the calculation of NICA loss reserves.

### **Reinsurance Recoveries**

NICA purchased reinsurance coverage excess of specific and aggregate attachments related to claims incurred during birth years from 1992 to 2003. The reinsurance coverage related to birth years 1992 and 1993 was commuted in 1998 and 2006, respectively. Recently reinsurance treaties provided by AUL/RMS, the reinsurer for birth years 1994 to 1998, and Munich Re, the reinsurer providing the specific excess coverage and aggregate excess coverage above \$ 23.0 million for birth years 1999 to 2001 were commuted. NICA received \$ 10.0 million and \$ 10.6 million in January 2013 from AUL/RMA and Munich Re, respectively for the commutation of specific and aggregate excess coverage provided under the two sets of reinsurance treaties. These agreed commutation amounts have been allocated to each respective birth year based on the previously estimated recovery amounts. The remaining outstanding reinsurance treaties were issued by Gen Re and provide aggregate excess coverage only for birth years 1999 to 2001 (\$3.0

million excess of \$20.0 million) and provide specific and aggregate excess coverage for claims incurred during birth years 2002 and 2003. The commutation of the Gen Re treaties is currently subject to arbitration hearings. Recently a Panel Award was issued related to Phase I of the arbitration hearings.

The estimates as shown in the current report related to the Gen Re reinsurance recoveries reflect changes in the procedure used in prior reports in response to the findings set forth under the Phase I Panel Award. The primary findings of the Phase I Panel Award addressed the order of application of limits and the discounting of losses, the applicability of loss development, mortality adjustments and the valuation date of the commutation calculation. However, specific factors and assumptions to be utilized in these calculations will be addressed in Phase II hearings. The primary changes to the commutation calculations in the current report relative to the procedures used in reports evaluated as of September 30, 2017 and prior are as follows:

1. A change in the order of application of the limits and attachments and the discounting of the estimated loss payments. Previously expected losses were inflated and discounted prior to application of attachments and limits but as a result of the recent arbitration findings the current procedure with regard to the specific excess coverage is to inflate then apply the attachments and limits then discount.
2. The valuation date of the loss information and the date to which the resulting values are discounted has been determined to be eighty-four months after the expiration date of each birth year. The commutation calculations shown in the prior reports were based on current losses and used the report date as the valuation date.

As mentioned previously in this report, the arbitration panel specified that the reinsurance commutation calculation should be based on the loss information

evaluated as of eighty-four months after expiration of each birth year (e.g. as of December 31, 2009 for birth year 2002) but the procedure and interest rate to be used in the adjustment from the commutation date (e.g. December 31, 2009) to the current date will be addressed in Phase II. In prior reports evaluated as of September 30, 2017 and prior, the commutation calculations were based on the current loss information and also the calculation evaluation date was the same so no adjustment was required to incorporate interest or investment return to the current date (e.g. June 30, 2018). The Panel Award specified an adjustment should be made to put the parties in the same position they would have been in had the commutations taken place on the specified date. NICA's position is if the funds had been received as of the commutation dates they would have been invested in the same manner as other NICA invested assets so the appropriate investment rate of return would be the actual average investment rate of return realized by NICA over the intervening period (e.g. December 31, 2009 to June 30, 2018 for birth year 2002). The actual average annual NICA investment return for the period from December 31, 2009 to December 31, 2017 was 7.49 % and the comparable average annual return over the period from December 31, 2010 to December 31, 2017 was 6.67%. However, since the actual investment rate to be used in the adjustment will be decided in the Phase II hearing, the reinsurance commutation calculation shown in the current report is before any adjustment for the investment return over the period from the commutation date calculation to the current evaluation date.

A summary of the actual reinsurance recoveries and the estimated reinsurance recoverables related to both the specific and aggregate excess reinsurance purchased by NICA is shown in Exhibit I, Sheet 4c. The final amounts that will actually be recovered under the Gen Re reinsurance treaties may vary from the estimates as shown in Exhibit I, Sheets 4a, 4b and 4c. To the extent the final amounts collected vary from the amounts calculated and shown in Exhibit I, Sheets 4a, 4b and 4c, the net retained loss and expense reserves evaluated as of June 30, 2018 will require adjustment.

Summary of Estimated Outstanding Loss & Expense  
Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income

Prior to Consideration of Reinsurance Recoveries / Recoverables  
Evaluated As of June 30, 2018

Assumptions :

(1) Prospective Inflation Rate (Est.)	3.50%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

Birth Year	Current Level Before Inflation and Present Value Adjust.			Loss & Expense - After Inflation and Present Value Adjustment			Selected Ultimate Loss and Expense Present Value Basis (4) + (7)
	Case (a)	Total (a)	Actual (b)	Case (a)	Incurred But Not Reported (IBNR) & Bulk	Total (a)	
	Outstanding	Outstanding	Paid Loss and Expense	Outstanding	(7) - (5)	Outstanding	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1989	10,983,818	14,629,267	14,457,377	8,575,732	2,846,223	11,421,954	25,879,332
1990	5,922,595	7,982,635	6,156,269	4,896,161	1,703,018	6,599,180	12,755,448
1991	18,536,486	21,181,030	9,046,273	14,025,717	2,001,006	16,026,723	25,072,996
1992	36,732,914	42,948,092	15,092,844	28,243,117	4,778,711	33,021,828	48,114,672
1993	24,376,891	30,435,656	19,863,797	18,454,002	4,586,658	23,040,660	42,904,457
1994	13,106,976	16,210,540	7,356,948	9,446,333	2,236,771	11,683,104	19,040,052
1995	22,210,821	25,996,162	10,319,438	16,884,005	2,877,503	19,761,509	30,080,947
1996	20,680,263	24,586,207	9,390,428	16,003,748	3,022,676	19,026,425	28,416,853
1997	27,464,563	33,016,045	12,282,153	20,351,643	4,113,729	24,465,372	36,747,525
1998	47,197,584	55,899,529	20,476,453	34,869,202	6,428,928	41,298,130	61,774,583
1999	14,421,029	18,210,462	12,049,141	11,260,373	2,958,903	14,219,276	26,268,418
2000	15,245,302	18,123,487	6,015,562	11,439,628	2,159,234	13,598,862	19,614,424
2001	21,488,298	24,742,289	7,540,149	16,144,824	2,444,825	18,589,649	26,129,798
2002	53,360,555	63,218,269	15,716,055	39,742,869	7,342,012	47,084,881	62,800,935
2003	13,540,663	15,957,782	4,503,829	10,727,695	1,914,981	12,642,676	17,146,505
2004	22,983,676	27,499,904	4,951,370	16,950,477	3,330,721	20,281,199	25,232,568
2005	24,888,108	32,030,613	7,401,376	17,668,285	5,070,527	22,738,812	30,140,188
2006	39,717,062	50,107,579	8,671,977	29,233,018	7,647,750	36,880,768	45,552,745
2007	29,084,920	38,111,940	9,233,881	21,812,777	6,769,982	28,582,759	37,816,640
2008	47,129,459	58,866,400	5,373,662	32,763,735	8,159,356	40,923,091	46,296,752
2009	51,669,038	66,087,218	6,776,300	37,266,077	10,399,052	47,665,130	54,441,430
2010	25,427,880	33,462,592	2,772,713	17,622,931	5,568,501	23,191,432	25,964,145
2011	43,417,020	60,623,799	4,034,720	29,844,257	11,827,701	41,671,958	45,706,678
2012	26,139,073	38,039,427	2,481,727	17,830,228	8,117,581	25,947,809	28,429,536
2013	27,191,536	43,541,914	3,470,772	18,428,435	11,081,090	29,509,525	32,980,297
2014	35,574,312	62,305,922	3,625,094	23,979,621	18,019,011	41,998,632	45,623,726
2015	31,424,595	62,512,231	1,751,089	21,069,541	20,843,617	41,913,158	43,664,248
2016	6,472,674	51,927,887	525,854	4,320,510	30,341,356	34,661,867	35,187,720
2017	6,483,627	70,536,720	419,099	4,305,975	42,539,614	46,845,589	47,264,688
2018 (6 Mo)	2,818,594	37,056,291	1,406	1,855,829	22,542,915	24,398,744	24,400,150
Totals:							
Excl. ULAE	765,690,332	1,145,847,889	231,757,758	556,016,746	263,673,953	819,690,699	1,051,448,456
ULAE (c)	N/A	N/A	N/A	-	12,716,714	12,716,714	N/A
Incl. ULAE	N/A	N/A	N/A	556,016,746	276,390,667	832,407,413	N/A

Notes: (a) Exhibit I, Sheet 1c plus Column (4) of Exhibit I, Sheet 1b. The estimates shown on Exhibit I, Sheet 1c are prior to inclusion of the reserve estimate for the retrospective portion of the class action settlement. Exhibit I, Sheet 1 b summarizes the estimated reserves related to the retrospective portion of the class action.  
 (b) See Exhibit I, Sheet 1c, Column (4) plus Exhibit I, Sheet 1b, Column (3).  
 (c) See Exhibit I, Sheet 5a. ULAE reserve estimates are developed based on an assumed expense inflation rate of three percent and investment return of five percent.

Summary of Case Reserves Related to Retroactive Portion of Class Action Settlement Agreement

Evaluated As of June 30, 2018

Birth Year	Incurring Amounts Related to Retroactive Payments (a) @ 6/30/18	Amounts Paid as of 6/30/18 Related to Retroactive Payments (a)	Case Reserves Related to Retroactive Payments (a) @ 6/30/18 (2) - (3)
(1)	(2)	(3)	(4)
1989	261,214	261,214	-
1990	758,051	758,051	-
1991	792,094	792,094	-
1992	1,951,145	1,951,145	-
1993	910,230	910,230	-
1994	634,196	634,196	-
1995	910,904	910,904	-
1996	797,021	797,021	-
1997	1,624,160	1,624,160	-
1998	2,006,630	2,006,630	-
1999	873,581	873,581	-
2000	599,907	589,907	10,000
2001	115,547	115,547	-
2002	840,587	840,587	-
2003	-	-	-
2004	-	-	-
2005	-	-	-
2006	-	-	-
2007	-	-	-
2008	-	-	-
2009	-	-	-
2010	-	-	-
2011	-	-	-
2012	-	-	-
2013	-	-	-
2014	-	-	-
2015	-	-	-
2016	-	-	-
2017	-	-	-
2018 (6 Mo)	-	-	-
Totals:	13,075,266	13,065,266	10,000

Note: (a) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action settlement. The reserve estimates for the retrospective portion of this class action are excluded from the NICA reserve estimates as developed in Exhibit I, Sheet 1c and subsequent. The total reserves as shown in Exhibit I, Sheet 1a include both the retrospective estimates shown above plus the estimates for all prospective amounts.

## Summary of Estimated Outstanding Loss &amp; Expense

Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income

Prior to Consideration of Reinsurance Recoveries / Recoverables - Prior to Inclusion of Retrospective Portion of Class Action  
Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	3.50%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

Excludes Case Reserves Related to Anticipated Retroactive Class Action Payments (a)

Birth Year	Current Level Before Inflation and Present Value Adjust.		Loss & Expense - After Inflation and Present Value Adjustment				Selected Ultimate Loss and Expense Present Value Basis (4) + (7)	Average Inflation & Present Value Factor (7) / (3)	
	Case (b) Outstanding	Total (b) Outstanding	Actual (b) Paid Loss and Expense	Case (c) Outstanding (2) X (9)	Incurred But Not Reported (IBNR) & Bulk (7) - (5)				Total (c) Outstanding
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1989	10,983,818	14,629,267	14,196,163	8,575,732	2,846,223	11,421,954	25,618,118	0.78076	
1990	5,922,595	7,982,635	5,398,218	4,896,161	1,703,018	6,599,180	11,997,397	0.82669	
1991	18,536,486	21,181,030	8,254,179	14,025,717	2,001,006	16,026,723	24,280,902	0.75665	
1992	36,732,914	42,948,092	13,141,699	28,243,117	4,778,711	33,021,828	46,163,527	0.76888	
1993	24,376,891	30,435,656	18,953,568	18,454,002	4,586,658	23,040,660	41,994,228	0.75703	
1994	13,106,976	16,210,540	6,722,752	9,446,333	2,236,771	11,683,104	18,405,857	0.72071	
1995	22,210,821	25,996,162	9,408,534	16,884,005	2,877,503	19,761,509	29,170,043	0.76017	
1996	20,680,263	24,586,207	8,593,407	16,003,748	3,022,676	19,026,425	27,619,832	0.77387	
1997	27,464,563	33,016,045	10,657,992	20,351,643	4,113,729	24,465,372	35,123,364	0.74101	
1998	47,197,584	55,899,529	18,469,823	34,869,202	6,428,928	41,298,130	59,767,953	0.73879	
1999	14,421,029	18,210,462	11,175,560	11,260,373	2,958,903	14,219,276	25,394,837	0.78083	
2000	15,235,302	18,113,487	5,425,655	11,429,628	2,159,234	13,588,862	19,014,517	0.75021	
2001	21,488,298	24,742,289	7,424,602	16,144,824	2,444,825	18,589,649	26,014,251	0.75133	
2002	53,360,555	63,218,269	14,875,468	39,742,869	7,342,012	47,084,881	61,960,348	0.74480	
2003	13,540,663	15,957,782	4,503,829	10,727,695	1,914,981	12,642,676	17,146,505	0.79226	
2004	22,983,676	27,499,904	4,951,370	16,950,477	3,330,721	20,281,199	25,232,568	0.73750	
2005	24,888,108	32,030,613	7,401,376	17,668,285	5,070,527	22,738,812	30,140,188	0.70991	
2006	39,717,062	50,107,579	8,671,977	29,233,018	7,647,750	36,880,768	45,552,745	0.73603	
2007	29,084,920	38,111,940	9,233,881	21,812,777	6,769,982	28,582,759	37,816,640	0.74997	
2008	47,129,459	58,866,400	5,373,662	32,763,735	8,159,356	40,923,091	46,296,752	0.69519	
2009	51,669,038	66,087,218	6,776,300	37,266,077	10,399,052	47,665,130	54,441,430	0.72125	
2010	25,427,880	33,462,592	2,772,713	17,622,931	5,568,501	23,191,432	25,964,145	0.69306	
2011	43,417,020	60,623,799	4,034,720	29,844,257	11,827,701	41,671,958	45,706,678	0.68739	
2012	26,139,073	38,039,427	2,481,727	17,830,228	8,117,581	25,947,809	28,429,536	0.68213	
2013	27,191,536	43,541,914	3,470,772	18,428,435	11,081,090	29,509,525	32,980,297	0.67773	
2014	35,574,312	62,305,922	3,625,094	23,979,621	18,019,011	41,998,632	45,623,726	0.67407	
2015	31,424,595	62,512,231	1,751,089	21,069,541	20,843,617	41,913,158	43,664,248	0.67048	
2016	6,472,674	51,927,887	525,854	4,320,510	30,341,356	34,661,867	35,187,720	0.66750	
2017	6,483,627	70,536,720	419,099	4,305,975	42,539,614	46,845,589	47,264,688	0.66413	
2018 (6 Mo)	2,818,594	37,056,291	1,406	1,855,829	22,542,915	24,398,744	24,400,150	0.65842	
Totals:									
Excl. ULAE	765,680,332	1,145,837,889	218,692,492	556,006,746	263,673,953	819,680,699	1,038,373,190	0.71535	
ULAE (d)	N/A	N/A	N/A	-	12,716,714	12,716,714	N/A	N/A	
Incl. ULAE	N/A	N/A	N/A	556,006,746	276,390,667	832,397,413	N/A	N/A	

Notes: (a) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

(b) See Exhibit III, Columns (8), (5) and (6) for case outstanding, total outstanding (case, bulk and IBNR) and paid, respectively.

(c) Based on application of the inflation and discount factors to the estimated payment stream as shown in Exhibit II, Sheets 2a, 2b, 3a, 3b, 4a and 4b.

(d) See Exhibit I, Sheet 5a. ULAE reserve estimates are developed based on an assumed expense inflation rate of three percent and investment return of five percent rather than the three and one-half percent inflation assumed for loss and ALAE.

Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	3.50%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments			
A. 2018 Level Basis (a)	1,145,837,889	765,680,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns (b)	3,395,235,690	N/A	N/A
2. After Anticipated Investment Returns (b)	819,680,699	556,006,746	263,673,953
II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)			
A. 2018 Level Basis (d)	1,145,847,889	765,690,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns	3,395,245,690	N/A	N/A
2. After Anticipated Investment Returns (d)	819,690,699	556,016,746	263,673,953

Notes: (a) See Exhibit I, Sheet 1c.

(b) See Exhibit I, Sheet 3, Columns (7) and (8). The allocation to case and bulk / IBNR is shown on Exhibit I, Sheet 1c, Columns (5) and (6).

(c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

(d) See Exhibit I, Sheet 1a.

Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	3.00%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments			
A. 2018 Level Basis (a)	1,145,837,889	765,680,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns (b)	2,833,525,170	N/A	N/A
2. After Anticipated Investment Returns (b)	741,610,313	505,190,757	236,419,556
II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)			
A. 2018 Level Basis	1,145,847,889	765,690,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns	2,833,535,170	N/A	N/A
2. After Anticipated Investment Returns	741,620,313	505,200,757	236,419,556

Notes: (a) Calculations for alternative assumption sets are not shown. However the calculations are similar to Exhibit III, Sheet 2.  
 (b) Calculations for alternative assumption sets are not shown. However they are similar to those shown in Exhibit I, Sheet 3.  
 (c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.



Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	4.00%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments			
A. 2018 Level Basis (a)	1,145,837,889	765,680,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns (b)	4,104,910,120	N/A	N/A
2. After Anticipated Investment Returns (b)	911,014,670	615,120,027	295,894,643
II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)			
A. 2018 Level Basis	1,145,847,889	765,690,332	380,157,556
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns	4,104,920,120	N/A	N/A
2. After Anticipated Investment Returns	911,024,670	615,130,027	295,894,643

Notes: (a) Calculations for alternative assumption sets are not shown. However the calculations are similar to Exhibit III, Sheet 2.  
 (b) Calculations for alternative assumption sets are not shown. However they are similar to those shown in Exhibit I, Sheet 3.  
 (c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	7.50%
(2) Prospective Investment Return (Est.)	9.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.101

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
<b>I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments</b>			
A. 2018 Level Basis (a)	1,145,837,889	765,680,332	380,157,556
<b>B. Prospective Period Cost Basis</b>			
1. Before Anticipated Investment Returns (b)	19,745,097,255	N/A	N/A
2. After Anticipated Investment Returns (b)	829,038,945	562,079,642	266,959,303
<b>II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)</b>			
A. 2018 Level Basis	1,145,847,889	765,690,332	380,157,556
<b>B. Prospective Period Cost Basis</b>			
1. Before Anticipated Investment Returns	19,745,107,255	N/A	N/A
2. After Anticipated Investment Returns	829,048,945	562,089,642	266,959,303

Notes: (a) Calculations for alternative assumption sets are not shown. However the calculations are similar to Exhibit III, Sheet 2.  
 (b) Calculations for alternative assumption sets are not shown. However they are similar to those shown in Exhibit I, Sheet 3.  
 (c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	3.50%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.201

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
<b>I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments</b>			
A. 2018 Level Basis (a)	1,277,009,151	765,680,332	511,328,818
<b>B. Prospective Period Cost Basis</b>			
1. Before Anticipated Investment Returns (b)	3,806,102,457	N/A	N/A
2. After Anticipated Investment Returns (b)	911,169,773	554,827,329	356,342,444
<b>II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)</b>			
A. 2018 Level Basis	1,277,019,151	765,690,332	511,328,818
<b>B. Prospective Period Cost Basis</b>			
1. Before Anticipated Investment Returns	3,806,112,457	N/A	N/A
2. After Anticipated Investment Returns	911,179,773	554,837,329	356,342,444

Notes: (a) Calculations for alternative assumption sets are not shown. However the calculations are similar to Exhibit III, Sheet 2.  
 (b) Calculations for alternative assumption sets are not shown. However they are similar to those shown in Exhibit I, Sheet 3.  
 (c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basey class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

Summary of Estimated Outstanding Loss & Expense  
 Before and After Consideration of Prospective Period Inflation and Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Prior to Consideration of Reinsurance Recoveries / Recoverables  
 Evaluated As of June 30, 2018

## Assumptions :

(1) Prospective Inflation Rate (Est.)	3.50%
(2) Prospective Investment Return (Est.)	5.00%
(3) Incurred Loss Development Factor - 354 to Ult.	1.001

	Outstanding Loss & ALAE (Case + Bulk + IBNR) @ 6/30/18 ----- (2)	Case Outstanding Loss & ALAE @ 6/30/18 ----- (3)	Bulk / IBNR Loss & ALAE @ 6/30/18 (2) - (3) ----- (4)
I. Excluding Case Reserves Related to Anticipated Retroactive Class Action Payments			
A. 2018 Level Basis (a)	1,015,092,015	765,680,332	249,411,683
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns (b)	2,985,162,312	N/A	N/A
2. After Anticipated Investment Returns (b)	728,541,054	557,463,736	171,077,319
II. Including Case Reserves Related to Anticipated Retroactive Class Action Payments (c)			
A. 2018 Level Basis	1,015,102,015	765,690,332	249,411,683
B. Prospective Period Cost Basis			
1. Before Anticipated Investment Returns	2,985,172,312	N/A	N/A
2. After Anticipated Investment Returns	728,551,054	557,473,736	171,077,319

- Notes: (a) Calculations for alternative assumption sets are not shown. However the calculations are similar to Exhibit III, Sheet 2.  
 (b) Calculations for alternative assumption sets are not shown. However they are similar to those shown in Exhibit I, Sheet 3.  
 (c) Current NICA case reserve worksheets include estimates of potential retrospective payments related to the recent Basesy class action. The estimated retrospective portion of this class action are excluded from the loss reserve development process. The estimated amounts are then added to the reserve estimates as shown above. A summary of the estimated retrospective payments is shown in Exhibit I, Sheet 1b.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
 Estimated Prospective Period Cost Level Basis - After Future Inflation & Anticipated Investment Income  
 Excluding ULAE Expense Reserve  
 Before Consideration of Reinsurance Recoveries  
 Excluding Estimated Retroactive Class Action Payments

Assumptions :

- (1) Prospective Inflation Rate (Est.) 3.50%
- (2) Prospective Investment Return (Est.) 5.00%

Calendar Year	Prospective Period Level Basis Estimated Prospective Period Loss & ALAE			Calendar Year	Prospective Period Level Basis Estimated Prospective Period Loss & ALAE		
	2018 Level Basis (a) Before Invest. Income	After Inflation Before (b) Invest. Income	After (c) Inflation and Invest. Income		2018 Level Basis (a) Before Invest. Income	After Inflation Before (b) Invest. Income	After (c) Inflation and Invest. Income
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2018	15,896,753	16,034,061	15,839,673	2068	9,104,530	50,848,135	4,434,147
2019	22,406,793	23,191,031	22,086,696	2069	8,660,041	50,058,497	4,157,417
2020	26,659,104	28,557,899	25,902,856	2070	8,198,983	49,052,162	3,879,847
2021	25,936,828	28,756,625	24,841,054	2071	7,778,496	48,165,291	3,628,285
2022	27,384,872	31,424,771	25,853,237	2072	7,581,503	48,588,576	3,485,877
2023	24,991,492	29,682,052	23,256,665	2073	7,273,623	48,246,968	3,296,542
2024	29,253,112	35,959,544	26,833,565	2074	6,530,769	44,835,697	2,917,583
2025	24,935,357	31,724,737	22,546,178	2075	6,130,773	43,562,741	2,699,760
2026	24,944,857	32,847,613	22,232,558	2076	5,752,746	42,307,314	2,497,101
2027	27,409,453	37,356,271	24,080,186	2077	5,648,074	42,991,342	2,416,642
2028	25,169,708	35,504,359	21,796,596	2078	5,025,634	39,592,399	2,119,600
2029	25,009,240	36,512,734	21,348,239	2079	4,683,827	38,191,104	1,947,220
2030	24,770,935	37,430,583	20,842,749	2080	4,518,433	38,131,993	1,851,625
2031	27,724,740	43,360,276	22,994,880	2081	4,039,917	35,286,983	1,631,882
2032	25,990,977	42,071,453	21,248,942	2082	3,818,538	34,520,695	1,520,423
2033	24,327,091	40,756,364	19,604,508	2083	3,442,823	32,213,464	1,351,242
2034	24,069,356	41,735,927	19,119,709	2084	3,160,969	30,611,414	1,222,896
2035	24,176,811	43,389,532	18,930,709	2085	2,903,461	29,101,774	1,107,226
2036	23,962,957	44,510,933	18,495,212	2086	2,655,019	27,543,012	998,020
2037	25,621,701	49,257,754	19,492,966	2087	2,553,559	27,417,641	946,168
2038	26,086,869	51,907,361	19,563,339	2088	2,193,052	24,371,005	800,982
2039	23,592,146	48,586,409	17,439,721	2089	1,986,863	22,852,445	715,307
2040	23,381,740	49,838,450	17,037,268	2090	1,803,078	21,464,443	639,868
2041	23,078,344	50,913,468	16,575,964	2091	1,623,874	20,007,727	568,040
2042	23,474,947	53,601,016	16,619,955	2092	1,467,678	18,716,161	506,068
2043	21,938,576	51,846,229	15,310,335	2093	1,279,423	16,886,535	434,854
2044	21,750,926	53,201,863	14,962,531	2094	1,146,355	15,659,786	384,060
2045	22,807,826	57,739,542	15,465,439	2095	998,394	14,115,907	329,710
2046	20,536,199	53,808,372	13,726,173	2096	879,737	12,873,597	286,375
2047	21,245,155	57,614,268	13,997,174	2097	781,215	11,832,008	250,671
2048	19,256,749	54,049,722	12,505,887	2098	662,138	10,379,497	209,427
2049	18,700,106	54,324,397	11,970,895	2099	575,399	9,335,497	179,392
2050	18,094,213	54,404,008	11,417,561	2100	487,881	8,192,608	149,934
2051	17,475,357	54,382,304	10,869,529	2101	422,701	7,346,534	128,047
2052	18,832,650	60,657,335	11,546,415	2102	348,120	6,262,074	103,948
2053	16,476,754	54,926,750	9,957,686	2103	289,847	5,396,336	85,312
2054	15,863,318	54,732,670	9,450,001	2104	244,133	4,704,322	70,830
2055	15,365,772	54,871,564	9,022,840	2105	197,295	3,934,838	56,423
2056	14,984,190	55,381,736	8,673,077	2106	157,609	3,253,348	44,430
2057	15,345,695	58,702,987	8,755,431	2107	129,140	2,758,999	35,884
2058	13,895,406	55,015,520	7,814,717	2108	106,184	2,347,956	29,084
2059	14,271,139	58,480,755	7,911,370	2109	78,274	1,791,393	21,133
2060	12,871,306	54,590,529	7,033,423	2110	63,423	1,502,305	16,879
2061	12,412,897	54,488,919	6,686,030	2111	45,801	1,122,854	12,015
2062	12,370,353	56,202,740	6,567,927	2112	34,842	884,090	9,010
2063	11,412,336	53,664,898	5,972,716	2113	27,596	724,740	7,034
2064	10,941,105	53,249,714	5,644,293	2114	20,074	545,645	5,044
2065	10,529,349	53,039,322	5,354,278	2115	13,416	377,424	3,323
2066	10,584,516	55,183,318	5,305,441	2116	11,269	328,135	2,751
2067	10,078,446	54,383,947	4,979,607	2117	4,833	145,647	1,163
Subtotals:	1,018,296,526	2,343,854,634	765,484,203	Subtotals:	127,541,362	1,051,381,057	54,196,496
				Totals - All Years	1,145,837,889	3,395,235,690	819,680,699

Notes: (a) See Exhibit II, Sheet 1, Columns (2) and (4).  
 (b) Calculated based on estimated incremental payments shown in columns (2) and (6) and the estimated annual inflation rate shown in Assumption #1 above. Payments are assumed to be made at the midpoint of each year.  
 (c) The inflated amounts before discount as shown in columns (3) and (7) are discounted to June 30, 2018 based on the assumed investment rate shown in Assumption # 2.

Summary of Estimates By Component - Outstanding Loss & Expense

Net of Estimated Reinsurance Recoveries / Recoverables  
Evaluated As of June 30, 2018

Birth Year	Prior to Reinsurance Recoverables			Specific X/S Recovery		Aggregate X/S Recovery				Net of Reinsurance Basis		
	Total O/S Loss and Exp. After Inflation and P.V. (a)	Actual (b) Paid Loss and Expense	Current Value Ultimate Loss & ALAE (2) + (3)	Actual Recovered (c) @ 6/30/18	Case O/S & Case Development Combined (d)	Calculated Recoverable on Case O/S & Case Development Recovered (e) @ 6/30/18	Calculated Recoverable on Case O/S & Case Development Combined (f)	Experience Refund Received to Date (g)	Additional Experience Refund Recoverable (h)	Paid Loss & Expense (3)-(5)-(7)-(9)	Outstanding Loss and Expense After Inflation and P.V. (2)-(6)-(8)-(10)	Indicated Ultimate and P.V. (11) + (12)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	11,421,954	14,457,377	25,879,332							14,457,377	11,421,954	25,879,332
1990	6,599,180	6,156,269	12,755,448							6,156,269	6,599,180	12,755,448
1991	16,026,723	9,046,273	25,072,996							9,046,273	16,026,723	25,072,996
1992	33,021,828	15,092,844	48,114,672	-	-	477,375	-	-		14,615,469	33,021,828	47,637,297
1993	23,040,660	19,863,797	42,904,457	11,408,065	-	10,000,000	-	-		(1,544,268)	23,040,660	21,496,392
1994	11,683,104	7,356,948	19,040,052	1,726,833	-	-	-	423,375		5,206,740	11,683,104	16,889,844
1995	19,761,509	10,319,438	30,080,947	2,497,577	-	-	-	375,000		7,446,862	19,761,509	27,208,370
1996	19,026,425	9,390,428	28,416,853	959,723	-	-	-	408,750		8,021,955	19,026,425	27,048,380
1997	24,465,372	12,282,153	36,747,525	2,132,728	-	-	-	423,750		9,725,674	24,465,372	34,191,046
1998	41,298,130	20,476,453	61,774,583	2,683,139	-	-	-	-		17,793,314	41,298,130	59,091,444
1999	14,219,276	12,049,141	26,268,418	3,143,106	-	2,597,638	-	-	142,405	6,308,398	14,076,871	20,385,269
2000	13,598,862	6,015,562	19,614,424	2,150,848	-	-	-	-	142,405	3,864,714	13,456,457	17,321,171
2001	18,589,649	7,540,149	26,129,798	2,708,409	-	-	-	-	142,405	4,831,740	18,447,244	23,278,983
2002	47,084,881	15,716,055	62,800,935	-	8,151,108	-	11,527,188	-	-	15,716,055	27,406,584	43,122,639
2003	12,642,676	4,503,829	17,146,505	-	2,000,362	-	-	-	-	4,503,829	10,642,314	15,146,143
2004	20,281,199	4,951,370	25,232,568							4,951,370	20,281,199	25,232,568
2005	22,738,812	7,401,376	30,140,188							7,401,376	22,738,812	30,140,188
2006	36,880,768	8,671,977	45,552,745							8,671,977	36,880,768	45,552,745
2007	28,582,759	9,233,881	37,816,640							9,233,881	28,582,759	37,816,640
2008	40,923,091	5,373,662	46,296,752							5,373,662	40,923,091	46,296,752
2009	47,665,130	6,776,300	54,441,430							6,776,300	47,665,130	54,441,430
2010	23,191,432	2,772,713	25,964,145							2,772,713	23,191,432	25,964,145
2011	41,671,958	4,034,720	45,706,678							4,034,720	41,671,958	45,706,678
2012	25,947,809	2,481,727	28,429,536							2,481,727	25,947,809	28,429,536
2013	29,509,525	3,470,772	32,980,297							3,470,772	29,509,525	32,980,297
2014	41,998,632	3,625,094	45,623,726							3,625,094	41,998,632	45,623,726
2015	41,913,158	1,751,089	43,664,248							1,751,089	41,913,158	43,664,248
2016	34,661,867	525,854	35,187,720							525,854	34,661,867	35,187,720
2017	46,845,589	419,099	47,264,688							419,099	46,845,589	47,264,688
2018 (6 Mo)	24,398,744	1,406	24,400,150							1,406	24,398,744	24,400,150
Totals:												
Excl. ULAE	819,690,699	231,757,758	1,051,448,456	29,410,427	10,151,471	13,075,013	11,527,188	1,630,875	427,215	187,641,443	797,584,825	985,226,268
ULAE (i)										N/A	12,716,714	N/A
Incl. ULAE										N/A	810,301,540	N/A

- Notes: (a) See Exhibit I, Sheet 1a, Column (7).  
 (b) See Exhibit I, Sheet 1a, Column (4).  
 (c) See Exhibit I, Sheet 4b, Column (4).  
 (d) See Exhibit I, Sheet 4b, Column (7).  
 (e) See Exhibit I, Sheet 4b, Column (10).  
 (f) See Exhibit I, Sheet 4b, Column (13).  
 (g) See Exhibit I, Sheet 4b, Column (14).  
 (h) See Exhibit I, Sheet 4b, Column (15).  
 (i) See Exhibit I, Sheet 5a.

Summary of Estimated Reinsurance Recoveries / Recoverables

Evaluated As of June 30, 2018

Birth Year	Specific Excess Reinsurance (a)						Aggregate Excess Reinsurance (a)						Experience Refund Received to Date (d)	Additional Experience Refund Recoverable (e)
	Retention	Excess Layer	Actual Recovered (b) @ 6/30/18	Calculated (c) Recoverable on Case O/S	Calculated (c) Recoverable on Estimated Case Development	Calculated (c) Recoverable on Case O/S & Case Development Combined (5) + (6)	Retention	Excess Layer	Actual Recovered (b) @ 6/30/18	Calculated (c) Recoverable on Case O/S	Calculated (c) Recoverable on Estimated Case Development	Calculated (c) Recoverable on Case O/S & Case Development Combined (11) + (12)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1989	100%	N/A					100%	N/A						
1990	100%	N/A					100%	N/A						
1991	100%	N/A					100%	N/A						
1992	4,000,000	2,500,000	-	Commuted			21,530,000	10,000,000	477,375	Commuted				
1993	4,000,000	2,500,000	11,408,065				21,530,000	10,000,000	10,000,000					
1994	4,000,000	2,500,000	1,726,833				21,530,000	10,000,000	-				423,375	
1995	4,000,000	2,500,000	2,497,577				19,940,000	10,000,000	-				375,000	
1996	4,000,000	2,500,000	959,723				19,940,000	10,000,000	-				408,750	
1997	4,000,000	2,500,000	2,132,728				22,900,000	10,000,000	-				423,750	
1998	4,250,000	2,500,000	2,683,139				23,500,000	10,000,000	-					
1999	4,250,000	2,500,000	3,143,106	-	-	-	20,000,000	13,000,000	2,597,638	-	-	-		142,405
2000	4,250,000	2,500,000	2,150,848	-	-	-	20,000,000	13,000,000	-	-	-	-		142,405
2001	4,250,000	2,500,000	2,708,409	-	-	-	20,000,000	13,000,000	-	-	-	-		142,405
2002	4,250,000	2,500,000		7,117,767	1,033,342	8,151,108	20,000,000	13,000,000		10,523,676	1,003,511	11,527,188		
2003	4,250,000	2,500,000		1,628,508	371,855	2,000,362	20,000,000	13,000,000		-	-	-		
2004	100%	N/A												
2005	100%	N/A												
2006	100%	N/A												
2007	100%	N/A												
2008	100%	N/A												
2009	100%	N/A												
2010	100%	N/A												
2011	100%	N/A												
2012	100%	N/A												
2013	100%	N/A												
2014	100%	N/A												
2015	100%	N/A												
2016	100%	N/A												
2017	100%	N/A												
2018 (6 Mo)	100%	N/A												
<b>Totals:</b>			29,410,427	8,746,275	1,405,196	10,151,471			13,075,013	10,523,676	1,003,511	11,527,188	1,630,875	427,215

Notes: (a) The specific and aggregate excess recoveries and recoverables shown are based on final amounts received as a result of negotiations and arbitration proceedings for birth years 1992 to 2001 (AUL/RMS and Munich Re) and the estimates as developed for birth years 1999 to 2003. The reinsurance treaties provided by AUL/RMS and Munich Re have been commuted. The actual amounts that will be received for birth years 1999 to 2003 are subject to final decisions related to current arbitration proceedings between NICA and General Reinsurance Corporation. A Panel Award related to Phase I of these proceedings was received March 26, 2018.

(b) The amounts recovered to date from the various reinsurers (AUL/RMS and Munich Re) are based on three separate reinsurance negotiation / arbitration proceedings. It is our understanding amounts received to date are \$21,408,065 (birth year 1993), \$10,000,000 (birth years 1994 to 1998), and \$10,600,000 (birth years 1999 to 2001). These amounts have been allocated to each birth year based on the calculated recoverables developed as of September 30, 2012.

(c) See Exhibit I, Sheet 4c, Item I. The remaining recoverables include an aggregate only layer (\$3.0 million excess of \$20.0 million) related to birth years 1999 to 2001 and both aggregate and specific excess layers related to birth years 2002 and 2003. All remaining specific and aggregate excess recoveries are related to treaties provided by General Reinsurance Corporation. Since the amount received for these birth years will be based on the final results of current arbitration proceedings, the ultimate amount may vary, perhaps significantly, from the amounts shown. The amounts as shown above are based on our understanding the issues as provided in the Phase I Panel Award of the current arbitration proceedings plus our current estimate of the assumptions that will be decided in Phase II of the arbitration proceedings. The most significant remaining assumptions in order of estimated impact include interest rate to be used in the adjustment from the arbitration date to the current evaluation, mortality adjustment, aggregate attachment applicable to birth year 2002, and loss development adjustment. NICA's position is the interest rate used in each adjustment should be the rate actually realized by NICA on their investments during the time horizon. Due to the uncertainty with regard to the final arbitration results, the estimated remaining reinsurance recoverable shown above is based on amount shown in Item I of Exhibit I, Sheet 4c which is prior to the adjustment for invest returns that would have been realized from the commutation date to the current time.

(d) Actual experience refund received to date.

(e) Additional experience refund recoverable from General Reinsurance Corporation (Gen Re) related to birth years from 1999 to 2001. The total gross premium for these birth years (1999 - 2001) before consideration of loss and administrative expenses paid by Gen Re is \$1,265,822. The ultimate loss paid by Gen Re for these birth years (1999 - 2001) is zero, and the administrative expense amount is \$411,392 (32.5% of the total gross premium). The total net profit for these birth years (1999 - 2001) is \$854,430 (\$1,265,822 - \$411,392). Per Article XV of the treaty, Gen Re owes NICA 50% of this net profit, and the amount is \$427,215. This recoverable amount is before any interest that may be awarded, and allocated to each birth year from 1999 to 2001.

Estimated Reinsurance Recovery  
Birth Years 1999 - 2003

Evaluated As of June 30, 2018

Birth Year	Specific Excess Recovery			Aggregate Excess Recovery			Combined Specific and Aggregate Excess Recovery		
	Calculated Recoverable on Case O/S	Recoverable on Estimated Case Development	Calculated Recoverable on Case O/S & Case Development Combined (2) + (3)	Calculated Recoverable on Case O/S	Recoverable on Estimated Case Development	Calculated Recoverable on Case O/S & Case Development Combined (5) + (6)	Calculated Recoverable on Case O/S	Recoverable on Estimated Case Development	Calculated Recoverable on Case O/S & Case Development Combined (4) + (7)
<b>I. Evaluated As of 84 Months From End of Treaty Term (a)</b>									
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	7,117,767	1,033,342	8,151,108	10,523,676	1,003,511	11,527,188	17,641,443	2,036,853	19,678,296
2003	1,628,508	371,855	2,000,362	-	-	-	1,628,508	371,855	2,000,362
Totals:	8,746,275	1,405,196	10,151,471	10,523,676	1,003,511	11,527,188	19,269,951	2,408,707	21,678,659
<b>II. Trended to 12/31/17 Based on Average Return Realized by NICA over Each Period (b) (i.e. 7.49% for Birth Year 2002 and 6.67% for Birth Year 2003)</b>									
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	12,684,935	1,841,571	14,526,506	18,754,781	1,788,409	20,543,189	31,439,716	3,629,979	35,069,695
2003	2,559,092	584,345	3,143,437	-	-	-	2,559,092	584,345	3,143,437
Totals:	15,244,027	2,425,916	17,669,943	18,754,781	1,788,409	20,543,189	33,998,808	4,214,324	38,213,132
<b>III. Trended to 12/31/17 Based on Assumed Investment Rate of 5.00% (b)</b>									
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	10,516,183	1,526,716	12,042,899	15,548,263	1,482,643	17,030,906	26,064,446	3,009,359	29,073,806
2003	2,291,474	523,237	2,814,711	-	-	-	2,291,474	523,237	2,814,711
Totals:	12,807,657	2,049,953	14,857,610	15,548,263	1,482,643	17,030,906	28,355,920	3,532,596	31,888,516
<b>IV. Trended to 12/31/17 Based on Assumed Investment Rate of 1.50% (b)</b>									
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	8,018,112	1,164,052	9,182,163	11,854,844	1,130,448	12,985,292	19,872,955	2,294,500	22,167,455
2003	1,807,391	412,701	2,220,092	-	-	-	1,807,391	412,701	2,220,092
Totals:	9,825,503	1,576,753	11,402,255	11,854,844	1,130,448	12,985,292	21,680,346	2,707,201	24,387,547

Notes: (a) Estimated recovery evaluated at point in time 84 months from end of treaty year as specified in Phase I Award of NICA / Gen Re arbitration. For example, the treaty covering birth year 2002 based on loss information evaluated as of 12/31/09, and all values are discounted to 12/31/09. The loss experience used in the estimation of reinsurance recovery applicable to birth year 2002 would be evaluated 84 months after the expiration of the 2002 treaty or as of December 31, 2009.

(b) The Phase I Award specified the evaluation date applicable to each treaty year. However, the interest rate that is to be used in the adjustment of the reinsurance recovery from the specified evaluation date (e.g. December 31, 2009) to the current date (e.g. December 31, 2017) was not specified in the Phase I Award. Three alternative interest rates are shown in order to illustrate the potential uncertainty. NICA's position is that the funds would have been included with their other investments and thus the appropriate rate is the actual return realized by NICA over each time horizon. This alternative is shown in Item II above.



## Development of Unallocated Loss Adjustment Expense (ULAE) Reserve

Evaluated As of June 30, 2018

I. ULAE Reserve Related to Settlement of Outstanding Claims (a)	11,766,714
II. ULAE Reserve Related to Collection of Reinsurance Recoveries on Claims Incurred Prior to June 30, 2018 (b) \$ 950,000 x 1	950,000
III. Total ULAE Reserve (I) + (II)	12,716,714

Notes: (a) See Exhibit I, Sheet 5b.

(b) The estimated unallocated loss adjustment expense related to the expense associated with the collection of reinsurance recoveries on claims incurred during birth years 1999 to 2003 is based on current expense budgets as prepared by NICA and a current estimate of one year for the arbitration of collection process related to these claims. Specifically, the estimate is based on average annual expense of \$ 950,000 over the next one year.

Development of Unallocated Loss Adjustment Expense (ULAE) Reserve  
Portion Related to Claims Settlement  
Evaluated As of June 30, 2018

Assumptions:

1. Estimated Calendar Year 2018 Level ULAE Payment (a):	602,912
2. Prospective Inflation Rate - Expense (b):	3.00%
3. Prospective Investment Return (b):	5.00%

Year	2018 Level Expense	Prospective Loss Level (Inflation) Factor	Present Value Factor	Before Mortality			After Mortality	
				Prospective Level Expense (2) x (3)	Present Value of Prospective Level Expense (5) x (4)	Weighted Average Probability of Survival	Prospective Level Expense (5) x (7)	Present Value of Prospective Level Expense (6) x (7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	602,912	1.015	0.976	611,889	597,142	0.9717	594,594	580,265
2	602,912	1.045	0.929	630,246	585,768	0.9532	600,720	558,326
3	602,912	1.077	0.885	649,153	574,611	0.9346	606,704	537,036
4	602,912	1.109	0.843	668,627	563,666	0.9161	612,530	516,375
5	602,912	1.142	0.803	688,686	552,929	0.8976	618,184	496,325
6	602,912	1.177	0.765	709,347	542,397	0.8792	623,649	476,869
7	602,912	1.212	0.728	730,627	532,066	0.8608	628,912	457,993
8	602,912	1.248	0.694	752,546	521,931	0.8424	633,954	439,681
9	602,912	1.286	0.661	775,122	511,990	0.8241	638,760	421,919
10	602,912	1.324	0.629	798,376	502,238	0.8058	643,313	404,691
11	602,912	1.364	0.599	822,327	492,671	0.7875	647,593	387,985
12	602,912	1.405	0.571	846,997	483,287	0.7693	651,586	371,788
13	602,912	1.447	0.543	872,407	474,081	0.7511	655,276	356,089
14	602,912	1.490	0.518	898,579	465,051	0.7330	658,650	340,878
15	602,912	1.535	0.493	925,537	456,193	0.7149	661,693	326,146
16	602,912	1.581	0.469	953,303	447,504	0.6969	664,392	311,882
17	602,912	1.629	0.447	981,902	438,980	0.6790	666,729	298,075
18	602,912	1.677	0.426	1,011,359	430,618	0.6612	668,685	284,714
19	602,912	1.728	0.406	1,041,700	422,416	0.6434	670,240	271,787
20	602,912	1.780	0.386	1,072,951	414,370	0.6257	671,373	259,282
21	602,912	1.833	0.368	1,105,139	406,477	0.6081	672,063	247,189
22	602,912	1.888	0.350	1,138,294	398,735	0.5906	672,286	235,496
23	602,912	1.945	0.334	1,172,442	391,140	0.5732	672,018	224,193
24	602,912	2.003	0.318	1,207,616	383,690	0.5558	671,233	213,268
25	602,912	2.063	0.303	1,243,844	376,381	0.5386	669,903	202,709
26	602,912	2.125	0.288	1,281,159	369,212	0.5214	668,000	192,508
27	602,912	2.189	0.274	1,319,594	362,180	0.5043	665,497	182,654
28	602,912	2.254	0.261	1,359,182	355,281	0.4873	662,369	173,139
29	602,912	2.322	0.249	1,399,957	348,514	0.4704	658,590	163,953
30	602,912	2.392	0.237	1,441,956	341,875	0.4536	654,135	155,090
31	602,912	2.463	0.226	1,485,215	335,363	0.4370	648,981	146,541
32	602,912	2.537	0.215	1,529,771	328,976	0.4204	643,102	138,298
33	602,912	2.613	0.205	1,575,664	322,709	0.4039	636,475	130,355
34	602,912	2.692	0.195	1,622,934	316,562	0.3876	629,078	122,705
35	602,912	2.773	0.186	1,671,622	310,533	0.3714	620,892	115,341
36	602,912	2.856	0.177	1,721,771	304,618	0.3554	611,900	108,258
37	602,912	2.941	0.168	1,773,424	298,816	0.3395	602,086	101,449
38	602,912	3.030	0.160	1,826,627	293,124	0.3238	591,437	94,909
39	602,912	3.121	0.153	1,881,426	287,541	0.3082	579,942	88,633
40	602,912	3.214	0.146	1,937,869	282,064	0.2929	567,597	82,616
41	602,912	3.311	0.139	1,996,005	276,691	0.2778	554,400	76,852
42	602,912	3.410	0.132	2,055,885	271,421	0.2628	540,359	71,339
43	602,912	3.512	0.126	2,117,561	266,251	0.2482	525,487	66,072
44	602,912	3.618	0.120	2,181,088	261,179	0.2337	509,806	61,048
45	602,912	3.726	0.114	2,246,521	256,204	0.2196	493,345	56,264
46	602,912	3.838	0.109	2,313,916	251,324	0.2058	476,143	51,716
47	602,912	3.953	0.103	2,383,334	246,537	0.1923	458,246	47,402
48	602,912	4.072	0.099	2,454,834	241,841	0.1791	439,707	43,318
49	602,912	4.194	0.094	2,528,479	237,235	0.1663	420,592	39,462
50	602,912	4.320	0.089	2,604,333	232,716	0.1540	400,973	35,830
Totals:	30,145,600			69,019,146	19,365,101		30,434,178	11,766,714

Notes: (a) Estimated current level (2018) unallocated expense based on expense allocation of expected on-going claims expense.  
(b) Investment and inflation rates consistent with selection used in loss and ALAE reserve estimates. Inflation rate slightly less than applied to loss and ALAE due to difference in expected inflation related to loss adjustment expenses.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries

Reserve @ 6/30/18 1,145,837,889

Calendar Year	Estimated Prospective Period Payments 2018 Level Basis (a)	Calendar Year	Estimated Prospective Period Payments 2018 Level Basis (a)
----- (1)	----- (2)	----- (3)	----- (4)
2018	15,896,753	2068	9,104,530
2019	22,406,793	2069	8,660,041
2020	26,659,104	2070	8,198,983
2021	25,936,828	2071	7,778,496
2022	27,384,872	2072	7,581,503
2023	24,991,492	2073	7,273,623
2024	29,253,112	2074	6,530,769
2025	24,935,357	2075	6,130,773
2026	24,944,857	2076	5,752,746
2027	27,409,453	2077	5,648,074
2028	25,169,708	2078	5,025,634
2029	25,009,240	2079	4,683,827
2030	24,770,935	2080	4,518,433
2031	27,724,740	2081	4,039,917
2032	25,990,977	2082	3,818,538
2033	24,327,091	2083	3,442,823
2034	24,069,356	2084	3,160,969
2035	24,176,811	2085	2,903,461
2036	23,962,957	2086	2,655,019
2037	25,621,701	2087	2,553,559
2038	26,086,869	2088	2,193,052
2039	23,592,146	2089	1,986,863
2040	23,381,740	2090	1,803,078
2041	23,078,344	2091	1,623,874
2042	23,474,947	2092	1,467,678
2043	21,938,576	2093	1,279,423
2044	21,750,926	2094	1,146,355
2045	22,807,826	2095	998,394
2046	20,536,199	2096	879,737
2047	21,245,155	2097	781,215
2048	19,256,749	2098	662,138
2049	18,700,106	2099	575,399
2050	18,094,213	2100	487,881
2051	17,475,357	2101	422,701
2052	18,832,650	2102	348,120
2053	16,476,754	2103	289,847
2054	15,863,318	2104	244,133
2055	15,365,772	2105	197,295
2056	14,984,190	2106	157,609
2057	15,345,695	2107	129,140
2058	13,895,406	2108	106,184
2059	14,271,139	2109	78,274
2060	12,871,306	2110	63,423
2061	12,412,897	2111	45,801
2062	12,370,353	2112	34,842
2063	11,412,336	2113	27,596
2064	10,941,105	2114	20,074
2065	10,529,349	2115	13,416
2066	10,584,516	2116	11,269
2067	10,078,446	2117	4,833
Subtotals:	1,018,296,526	Subtotals:	127,541,362
		Totals - All Years	1,145,837,889

Note: (a) See Column (2) of Exhibit II, Sheets 2a and 2b.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year ----- (1)	Totals All BY'S (c) ----- (2)
Reserve @ 6/30/18 (a)	1,145,837,889

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2018	15,896,753
2019	22,406,793
2020	26,659,104
2021	25,936,828
2022	27,384,872
2023	24,991,492
2024	29,253,112
2025	24,935,357
2026	24,944,857
2027	27,409,453
2028	25,169,708
2029	25,009,240
2030	24,770,935
2031	27,724,740
2032	25,990,977
2033	24,327,091
2034	24,069,356
2035	24,176,811
2036	23,962,957
2037	25,621,701
2038	26,086,869
2039	23,592,146
2040	23,381,740
2041	23,078,344
2042	23,474,947
2043	21,938,576
2044	21,750,926
2045	22,807,826
2046	20,536,199
2047	21,245,155
2048	19,256,749
2049	18,700,106
2050	18,094,213
2051	17,475,357
2052	18,832,650
2053	16,476,754
2054	15,863,318
2055	15,365,772
2056	14,984,190
2057	15,345,695
2058	13,895,406
2059	14,271,139
2060	12,871,306
2061	12,412,897
2062	12,370,353
2063	11,412,336
2064	10,941,105
2065	10,529,349
2066	10,584,516
2067	10,078,446
Subtotals 2018 to 2067:	1,018,296,526

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

(c) Sum of columns (2) to (11) of Exhibit II Sheets 3a, 4a, and 5a.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year ----- (1)	Totals All BY'S (c) ----- (2)
Reserve @ 6/30/18 (a)	1,145,837,889

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2068	9,104,530
2069	8,660,041
2070	8,198,983
2071	7,778,496
2072	7,581,503
2073	7,273,623
2074	6,530,769
2075	6,130,773
2076	5,752,746
2077	5,648,074
2078	5,025,634
2079	4,683,827
2080	4,518,433
2081	4,039,917
2082	3,818,538
2083	3,442,823
2084	3,160,969
2085	2,903,461
2086	2,655,019
2087	2,553,559
2088	2,193,052
2089	1,986,863
2090	1,803,078
2091	1,623,874
2092	1,467,678
2093	1,279,423
2094	1,146,355
2095	998,394
2096	879,737
2097	781,215
2098	662,138
2099	575,399
2100	487,881
2101	422,701
2102	348,120
2103	289,847
2104	244,133
2105	197,295
2106	157,609
2107	129,140
2108	106,184
2109	78,274
2110	63,423
2111	45,801
2112	34,842
2113	27,596
2114	20,074
2115	13,416
2116	11,269
2117	4,833
Subtotals 2068 to 2117:	127,541,362
Totals 2018 to 2117:	1,145,837,889

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

(c) Sum of columns (2) to (11) of Exhibit II Sheets 3a, 4a, and 5a.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 2009	BY 2010	BY 2011	BY 2012	BY 2013	BY 2014	BY 2015	BY 2016	BY 2017	BY 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	66,087,218	33,462,592	60,623,799	38,039,427	43,541,914	62,305,922	62,512,231	51,927,887	70,536,720	37,056,291

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2018	887,189	223,030	429,473	284,767	404,429	587,850	570,466	566,792	545,393	132,569
2019	792,041	461,631	797,086	531,162	641,064	1,135,956	1,157,904	928,931	1,511,413	566,611
2020	1,613,632	517,915	824,909	492,909	597,873	900,308	1,118,761	942,750	1,238,547	785,106
2021	1,570,949	640,440	925,486	510,115	554,815	839,651	886,681	910,881	1,256,972	643,365
2022	1,723,567	588,765	1,144,430	572,310	574,182	779,181	826,941	721,924	1,214,480	652,936
2023	1,517,436	566,879	1,052,089	707,703	644,189	806,379	767,386	673,285	962,543	630,864
2024	1,854,098	623,459	1,012,981	650,600	796,586	904,696	794,173	624,796	897,693	499,995
2025	1,444,742	693,332	1,114,087	626,416	732,312	1,118,722	891,002	646,605	833,042	466,308
2026	1,422,733	630,213	1,238,945	688,939	705,090	1,028,456	1,101,788	725,442	862,120	432,725
2027	1,631,765	629,284	1,126,155	766,150	775,466	990,226	1,012,888	897,061	967,234	447,830
2028	1,351,916	629,266	1,124,496	696,402	862,374	1,089,061	975,237	824,680	1,196,055	502,431
2029	1,329,951	620,864	1,124,464	695,376	783,865	1,211,115	1,072,576	794,025	1,099,549	621,293
2030	1,370,776	631,139	1,109,449	695,356	782,711	1,100,858	1,192,782	873,277	1,058,676	571,162
2031	1,965,675	682,347	1,127,809	686,071	782,688	1,099,236	1,084,194	971,147	1,164,343	549,931
2032	1,760,411	743,609	1,219,315	697,425	772,238	1,099,204	1,082,597	882,736	1,294,834	604,820
2033	1,568,172	771,888	1,328,788	754,011	785,017	1,084,527	1,082,566	881,436	1,176,955	672,604
2034	1,528,783	799,422	1,379,322	821,708	848,710	1,102,475	1,068,111	881,411	1,175,222	611,371
2035	1,502,093	785,857	1,428,523	852,957	924,909	1,191,925	1,085,787	869,642	1,175,188	610,471
2036	1,511,826	768,234	1,404,282	883,383	960,083	1,298,939	1,173,883	884,033	1,159,496	610,453
2037	1,665,580	791,391	1,372,792	868,392	994,330	1,348,337	1,279,277	955,760	1,178,685	602,302
2038	1,700,731	787,086	1,414,172	848,919	977,457	1,396,434	1,327,928	1,041,571	1,274,318	612,270
2039	1,394,416	791,605	1,406,479	874,508	955,538	1,372,737	1,375,296	1,081,181	1,388,729	661,947
2040	1,356,180	758,888	1,414,554	869,751	984,341	1,341,954	1,351,958	1,119,748	1,441,542	721,378
2041	1,324,247	737,292	1,356,090	874,745	978,987	1,382,405	1,321,642	1,100,746	1,492,964	748,812
2042	1,390,269	710,038	1,317,500	838,591	984,607	1,374,885	1,361,480	1,076,063	1,467,629	775,522
2043	1,244,206	693,629	1,268,798	814,727	943,913	1,382,779	1,354,074	1,108,499	1,434,718	762,362
2044	1,213,092	672,284	1,239,477	784,611	917,052	1,325,627	1,361,848	1,102,469	1,477,965	745,267
2045	1,381,564	658,051	1,201,335	766,479	883,153	1,287,905	1,305,562	1,108,798	1,469,925	767,731
2046	1,136,440	632,410	1,175,900	742,892	862,744	1,240,297	1,268,410	1,062,971	1,478,365	763,555
2047	1,249,940	612,829	1,130,082	727,163	836,195	1,211,634	1,221,523	1,032,723	1,417,263	767,939
2048	1,066,934	603,889	1,095,091	698,830	818,491	1,174,348	1,193,294	994,548	1,376,933	736,199
2049	1,032,893	586,521	1,079,116	677,192	786,599	1,149,485	1,156,573	971,564	1,326,033	715,250
2050	1,003,520	571,914	1,048,081	667,313	762,243	1,104,696	1,132,086	941,666	1,295,389	688,810
2051	966,209	556,459	1,021,978	648,122	751,124	1,070,492	1,087,975	921,729	1,255,526	672,892
2052	1,174,563	534,705	994,362	631,980	729,522	1,054,875	1,054,288	885,814	1,228,944	652,185
2053	905,046	518,372	955,488	614,902	711,353	1,024,538	1,038,908	858,387	1,181,059	638,377
2054	869,581	504,236	926,302	590,863	692,130	999,021	1,009,029	845,865	1,144,490	613,503
2055	838,260	489,556	901,042	572,815	665,072	972,025	983,899	821,538	1,127,794	594,507
2056	810,610	470,930	874,809	557,194	644,757	934,024	957,312	801,078	1,095,360	585,835
2057	877,243	458,533	841,525	540,972	627,174	905,494	919,886	779,430	1,068,079	568,986
2058	746,909	454,020	819,373	520,390	608,915	880,801	891,788	748,959	1,039,217	554,816
2059	840,803	435,469	811,309	506,691	585,747	855,158	867,469	726,082	998,590	539,823
2060	688,158	423,218	778,159	501,704	570,328	822,621	842,214	706,281	968,087	518,719
2061	659,443	407,524	756,267	481,205	564,716	800,967	810,170	685,719	941,687	502,874
2062	684,978	390,135	728,222	467,667	541,641	793,084	788,843	659,629	914,272	489,161
2063	603,428	379,190	697,150	450,324	526,404	760,679	781,080	642,265	879,486	474,920
2064	576,169	363,065	677,591	431,110	506,882	739,279	749,165	635,945	856,334	456,850
2065	551,406	353,215	648,777	419,015	485,254	711,864	728,089	609,960	847,907	444,824
2066	606,605	334,809	631,176	401,196	471,640	681,489	701,088	592,800	813,262	440,447
2067	560,502	319,009	598,285	390,312	451,584	662,370	671,174	570,817	790,382	422,450

Subtotals 2018 to 2067: 59,467,677 29,007,849 52,093,369 32,394,332 36,748,496 52,131,069 51,839,049 42,691,462 57,460,694 29,853,362

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 2009	BY 2010	BY 2011	BY 2012	BY 2013	BY 2014	BY 2015	BY 2016	BY 2017	BY 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	66,087,218	33,462,592	60,623,799	38,039,427	43,541,914	62,305,922	62,512,231	51,927,887	70,536,720	37,056,291

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2068	474,017	307,002	570,052	369,973	439,333	634,203	652,344	546,461	761,072	410,565
2069	447,837	292,765	548,596	352,514	416,439	616,997	624,603	531,129	728,598	395,340
2070	423,869	280,162	523,155	339,245	396,787	584,845	607,658	508,544	708,157	378,471
2071	401,808	267,095	500,634	323,513	381,853	557,247	575,993	494,747	678,043	367,853
2072	407,195	253,324	477,284	309,586	364,145	536,272	548,812	468,966	659,648	352,210
2073	407,793	242,185	452,675	295,147	348,468	511,403	528,155	446,835	625,273	342,655
2074	335,269	227,138	432,770	279,929	332,215	489,388	503,662	430,017	595,767	324,799
2075	313,509	217,228	405,883	267,620	315,087	466,562	481,980	410,075	573,343	309,472
2076	293,460	203,161	388,174	250,994	301,232	442,506	459,500	392,422	546,754	297,824
2077	308,275	190,320	363,037	240,042	282,517	423,049	435,808	374,119	523,217	284,013
2078	255,592	181,563	340,091	224,498	270,190	396,766	416,645	354,829	498,814	271,786
2079	237,817	170,178	324,442	210,309	252,694	379,454	390,760	339,227	473,095	259,110
2080	249,684	159,466	304,098	200,632	236,722	354,882	373,710	318,152	452,292	245,750
2081	204,567	147,285	284,958	188,051	225,830	332,452	349,511	304,270	424,192	234,944
2082	202,631	137,102	263,190	176,215	211,669	317,154	327,420	284,567	405,684	220,347
2083	174,721	128,461	244,994	162,754	198,346	297,267	312,354	266,581	379,414	210,733
2084	160,329	116,922	229,553	151,502	183,195	278,557	292,767	254,314	355,433	197,087
2085	147,044	109,672	208,933	141,953	170,529	257,278	274,340	238,367	339,078	184,630
2086	134,723	99,301	195,977	129,202	159,782	239,491	253,384	223,364	317,816	176,135
2087	149,171	90,589	177,445	121,190	145,429	224,397	235,866	206,302	297,812	165,090
2088	111,381	82,705	161,877	109,730	136,411	204,240	221,000	192,039	275,063	154,699
2089	101,009	75,451	147,789	100,103	123,512	191,575	201,148	179,935	256,046	142,882
2090	90,941	67,814	134,826	91,391	112,675	173,459	188,675	163,772	239,908	133,003
2091	81,646	59,520	121,180	83,375	102,869	158,240	170,834	153,617	218,358	124,621
2092	77,449	53,334	106,360	74,936	93,846	144,469	155,845	139,090	204,818	113,426
2093	64,786	47,610	95,305	65,772	84,348	131,797	142,282	126,887	185,450	106,393
2094	61,794	41,488	85,077	58,936	74,032	118,458	129,802	115,844	169,179	96,332
2095	50,173	36,045	74,137	52,611	66,338	103,971	116,665	105,683	154,456	87,880
2096	43,570	31,123	64,410	45,846	59,218	93,165	102,397	94,987	140,908	80,232
2097	40,953	26,474	55,614	39,830	51,604	83,166	91,754	83,370	126,646	73,195
2098	32,054	22,313	47,307	34,391	44,833	72,472	81,907	74,705	111,158	65,787
2099	27,018	18,799	39,872	29,254	38,711	62,963	71,375	66,688	99,605	57,741
2100	22,520	15,547	33,593	24,656	32,929	54,365	62,010	58,113	88,915	51,740
2101	19,535	12,629	27,782	20,773	27,753	46,245	53,542	50,487	77,482	46,187
2102	15,602	10,090	22,568	17,180	23,382	38,976	45,545	43,593	67,315	40,248
2103	12,008	8,249	18,030	13,956	19,338	32,838	38,386	37,082	58,123	34,967
2104	9,453	6,349	14,741	11,149	15,708	27,158	32,341	31,253	49,441	30,192
2105	7,317	4,875	11,346	9,116	12,550	22,061	26,747	26,332	41,670	25,682
2106	5,578	3,666	8,712	7,016	10,260	17,625	21,727	21,777	35,108	21,646
2107	4,373	2,736	6,551	5,388	7,898	14,410	17,358	17,690	29,035	18,237
2108	11,071	2,026	4,889	4,051	6,064	11,091	14,192	14,133	23,586	15,082
2109	-	4,982	3,620	3,023	4,560	8,516	10,923	11,555	18,843	12,252
2110	-	-	8,902	2,239	3,403	6,404	8,388	8,894	15,406	9,788
2111	-	-	-	5,505	2,520	4,779	6,307	6,829	11,858	8,003
2112	-	-	-	-	6,196	3,539	4,706	5,135	9,105	6,160
2113	-	-	-	-	-	8,702	3,486	3,832	6,847	4,730
2114	-	-	-	-	-	-	8,571	2,838	5,109	3,557
2115	-	-	-	-	-	-	-	6,978	3,784	2,654
2116	-	-	-	-	-	-	-	-	9,304	1,965
2117	-	-	-	-	-	-	-	-	-	4,833
Subtotals 2068 to 2117:	6,619,541	4,454,744	8,530,430	5,645,095	6,793,418	10,174,853	10,673,182	9,236,424	13,076,026	7,202,929
Totals 2018 to 2117:	66,087,218	33,462,592	60,623,799	38,039,427	43,541,914	62,305,922	62,512,231	51,927,887	70,536,720	37,056,291

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 1999	BY 2000	BY 2001	BY 2002	BY 2003	BY 2004	BY 2005	BY 2006	BY 2007	BY 2008
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	18,210,462	18,113,487	24,742,289	63,218,269	15,957,782	27,499,904	32,030,613	50,107,579	38,111,940	58,866,400

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2018	248,918	254,019	449,137	1,130,837	337,737	450,372	541,369	936,696	784,290	730,992
2019	403,817	374,626	591,647	1,243,057	418,305	431,233	562,227	816,798	1,076,022	648,942
2020	493,432	409,997	594,812	1,560,220	579,979	667,482	821,975	1,314,697	1,319,956	1,204,173
2021	629,938	388,393	575,995	1,529,246	556,201	648,161	731,286	1,276,101	1,253,952	1,180,506
2022	611,015	690,310	765,220	1,627,367	589,500	716,383	736,934	1,385,755	1,360,607	1,291,964
2023	595,274	635,800	683,049	1,451,703	522,747	624,357	612,565	1,290,810	1,146,058	1,144,194
2024	710,518	738,751	837,263	2,327,268	623,783	787,176	720,122	1,527,477	1,378,385	1,403,986
2025	556,010	570,123	647,835	1,867,669	597,834	591,572	511,425	1,224,130	1,038,116	1,100,510
2026	654,221	542,543	636,500	1,812,021	579,506	751,295	482,904	1,198,077	994,514	1,083,818
2027	658,438	616,204	767,316	1,965,176	619,887	844,007	904,238	1,331,994	1,165,959	1,241,634
2028	611,645	538,637	681,765	1,726,586	533,151	714,271	771,642	1,365,651	933,268	1,040,438
2029	594,374	510,802	667,921	1,704,637	515,983	702,373	746,421	1,333,967	920,913	1,022,685
2030	572,714	480,670	646,909	1,636,300	498,759	682,333	710,404	1,292,898	876,371	1,220,069
2031	623,660	541,313	736,390	1,893,920	574,002	850,689	804,200	1,451,691	1,050,560	1,355,815
2032	536,907	443,432	675,616	1,663,493	500,267	749,193	798,404	1,334,744	911,356	1,286,498
2033	516,331	402,602	596,137	1,510,424	440,547	663,998	719,858	1,193,866	766,125	1,151,957
2034	498,104	378,872	579,614	1,455,483	422,028	647,957	698,302	1,160,388	846,634	1,129,505
2035	481,980	357,416	566,507	1,419,463	406,654	635,662	684,114	1,131,499	814,271	1,293,213
2036	462,510	334,716	574,759	1,369,771	386,329	616,230	659,111	1,095,117	778,387	1,263,403
2037	464,232	341,736	634,383	1,494,170	415,023	689,717	709,571	1,192,315	871,809	1,386,479
2038	482,734	470,988	594,860	1,504,797	425,790	716,853	724,215	1,190,515	877,977	1,345,410
2039	411,319	398,400	526,169	1,246,722	336,197	569,623	607,518	1,001,251	687,606	1,183,136
2040	394,852	379,584	510,363	1,250,863	320,390	554,365	591,744	971,052	660,126	1,156,615
2041	380,048	362,408	497,506	1,225,110	307,147	542,357	581,688	944,546	635,866	1,132,671
2042	362,785	353,516	527,261	1,252,900	315,849	573,599	598,087	990,978	682,126	1,191,573
2043	347,175	328,503	464,098	1,133,424	275,685	509,433	547,497	883,708	585,081	1,077,887
2044	333,017	313,699	451,578	1,141,330	263,528	497,616	538,374	858,399	610,652	1,054,206
2045	355,143	326,178	470,745	1,201,949	298,881	584,425	596,370	947,744	707,434	1,135,171
2046	302,000	284,746	419,483	1,059,967	234,954	465,820	506,763	801,119	564,337	1,000,494
2047	300,892	287,920	465,076	1,139,241	253,632	520,937	550,113	870,646	632,107	1,097,113
2048	273,240	259,213	390,616	986,268	209,881	437,410	481,034	748,620	523,289	949,697
2049	259,264	247,443	376,435	955,587	197,944	423,384	468,504	723,087	503,957	924,544
2050	246,385	236,593	364,511	919,081	187,775	411,843	460,263	700,065	486,666	901,460
2051	232,138	225,748	348,561	879,414	175,235	395,665	443,990	673,380	467,415	874,682
2052	244,749	233,773	396,534	967,138	214,864	498,577	520,031	791,887	594,982	1,004,178
2053	206,854	206,544	323,217	818,812	155,201	370,482	472,223	638,561	434,562	827,113
2054	193,671	197,430	307,978	776,711	143,991	354,834	455,989	635,692	417,222	800,889
2055	181,484	189,016	294,799	779,293	134,318	341,409	443,604	612,096	401,561	776,530
2056	170,163	181,200	283,476	749,455	125,991	329,972	434,732	590,328	387,414	881,193
2057	165,039	182,979	309,282	788,819	133,291	361,061	457,583	629,650	433,637	944,717
2058	146,964	166,432	256,387	680,599	107,547	301,734	406,775	543,496	357,293	827,107
2059	151,958	164,128	261,424	693,067	121,474	350,483	444,730	578,096	416,130	868,663
2060	125,781	153,296	231,742	617,463	91,577	275,858	382,411	499,603	329,777	774,807
2061	115,768	147,212	219,722	589,148	84,154	263,110	370,260	478,227	316,560	748,750
2062	106,464	145,087	233,677	593,710	86,256	274,234	380,208	492,123	340,371	772,299
2063	96,937	135,844	196,322	527,188	70,440	238,057	345,978	436,620	291,121	696,894
2064	88,137	130,492	184,959	498,374	64,143	225,781	333,842	416,398	278,859	671,113
2065	79,986	125,345	174,904	474,191	58,707	214,892	324,210	397,345	267,604	646,546
2066	79,442	121,287	171,763	464,705	64,264	242,161	343,647	410,458	309,198	667,520
2067	67,233	121,388	176,161	456,126	55,315	217,630	323,753	396,609	286,242	658,053
Subtotals 2018 to 2067:	17,825,659	16,627,354	23,338,384	58,760,267	15,632,644	25,528,065	28,063,208	45,706,972	34,774,726	50,771,811

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.



Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 1999	BY 2000	BY 2001	BY 2002	BY 2003	BY 2004	BY 2005	BY 2006	BY 2007	BY 2008
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	18,210,462	18,113,487	24,742,289	63,218,269	15,957,782	27,499,904	32,030,613	50,107,579	38,111,940	58,866,400

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2068	57,457	110,606	142,860	392,104	42,889	179,557	287,445	340,187	233,091	570,239
2069	50,742	105,882	131,906	366,067	37,959	167,276	273,076	321,443	221,448	544,254
2070	44,650	101,236	122,147	340,737	33,731	156,217	260,888	303,705	210,668	519,426
2071	39,119	96,643	113,425	318,955	30,099	146,206	250,575	286,825	200,664	495,621
2072	33,828	94,430	116,727	311,944	29,537	146,425	248,450	287,134	213,008	500,731
2073	31,898	87,616	98,746	283,102	28,199	148,113	246,469	269,567	218,265	477,699
2074	24,839	82,945	86,960	254,085	20,174	115,493	213,871	237,451	170,200	423,094
2075	20,887	78,375	78,334	233,119	17,279	105,410	200,321	221,716	160,023	398,872
2076	17,413	73,801	70,629	214,383	14,830	96,300	188,460	206,813	150,546	375,696
2077	15,076	72,780	73,911	214,578	15,071	100,528	192,801	211,697	167,516	391,004
2078	11,651	64,656	56,355	179,687	10,651	79,216	165,132	178,574	132,269	330,697
2079	9,327	60,111	49,813	163,707	8,895	71,265	153,707	165,226	123,463	308,934
2080	7,973	55,607	45,177	151,981	9,122	74,700	155,293	158,465	140,343	306,551
2081	5,678	51,150	37,993	134,577	5,993	56,631	131,472	140,061	106,546	266,946
2082	4,299	47,970	37,075	127,154	5,472	54,082	126,253	135,110	110,945	261,790
2083	3,189	42,484	28,088	109,338	3,861	43,998	111,048	117,032	90,859	227,466
2084	2,292	38,315	23,511	97,093	2,980	38,094	100,218	106,207	82,992	208,140
2085	1,604	34,286	19,560	86,281	2,280	32,864	90,527	95,997	75,653	189,784
2086	1,089	30,423	16,155	76,617	1,725	28,222	81,786	86,372	68,797	172,358
2087	793	28,121	15,230	71,686	1,779	30,410	82,509	85,368	87,307	180,648
2088	442	23,283	10,284	58,182	891	19,994	64,127	68,657	55,365	139,112
2089	264	20,049	8,063	50,560	623	16,672	56,662	60,654	49,362	123,984
2090	148	17,063	6,103	42,978	414	13,656	49,055	53,169	43,390	109,410
2091	78	14,337	4,544	36,379	268	11,102	42,348	46,248	37,910	95,890
2092	38	12,187	3,764	31,869	190	9,663	37,903	41,647	37,181	88,064
2093	17	9,702	2,320	25,121	99	7,082	30,659	34,048	28,046	71,678
2094	7	7,796	1,585	20,441	69	5,982	26,514	28,837	29,058	64,444
2095	2	6,156	1,047	16,467	30	4,306	21,371	24,011	19,807	51,443
2096	1	4,773	656	12,851	15	3,281	17,398	19,783	16,210	42,742
2097	0	3,816	460	10,460	8	2,834	15,110	17,438	15,614	38,675
2098	0	2,703	229	7,524	3	1,833	11,246	12,847	10,410	28,414
2099	-	6,829	124	5,507	1	1,336	8,795	10,096	8,065	22,621
2100	-	-	122	3,964	0	959	6,801	7,787	6,131	17,730
2101	-	-	-	8,505	0	688	5,229	5,885	5,610	14,368
2102	-	-	-	-	0	502	4,029	4,537	3,729	10,824
2103	-	-	-	-	-	939	2,843	3,145	2,311	7,632
2104	-	-	-	-	-	-	7,015	2,219	1,581	5,531
2105	-	-	-	-	-	-	-	4,646	1,040	3,913
2106	-	-	-	-	-	-	-	-	1,791	2,703
2107	-	-	-	-	-	-	-	-	-	5,465
2108	-	-	-	-	-	-	-	-	-	-
2109	-	-	-	-	-	-	-	-	-	-
2110	-	-	-	-	-	-	-	-	-	-
2111	-	-	-	-	-	-	-	-	-	-
2112	-	-	-	-	-	-	-	-	-	-
2113	-	-	-	-	-	-	-	-	-	-
2114	-	-	-	-	-	-	-	-	-	-
2115	-	-	-	-	-	-	-	-	-	-
2116	-	-	-	-	-	-	-	-	-	-
2117	-	-	-	-	-	-	-	-	-	-
Subtotals 2068 to 2117:	384,803	1,486,133	1,403,905	4,458,002	325,138	1,971,839	3,967,405	4,400,607	3,337,215	8,094,589
Totals 2018 to 2117:	18,210,462	18,113,487	24,742,289	63,218,269	15,957,782	27,499,904	32,030,613	50,107,579	38,111,940	58,866,400

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 1989	BY 1990	BY 1991	BY 1992	BY 1993	BY 1994	BY 1995	BY 1996	BY 1997	BY 1998
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	14,629,267	7,982,635	21,181,030	42,948,092	30,435,656	16,210,540	25,996,162	24,586,207	33,016,045	55,899,529

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2018	386,610	194,000	393,831	771,488	903,225	332,368	465,144	406,518	495,558	1,051,687
2019	523,093	334,200	619,885	1,090,175	1,107,156	333,126	700,032	561,636	621,081	1,425,934
2020	547,387	389,778	629,763	1,304,534	1,163,226	375,259	765,799	959,661	992,157	1,532,107
2021	517,434	373,100	613,066	1,302,382	1,146,093	364,273	744,216	909,564	957,930	1,499,635
2022	524,324	390,741	680,289	1,453,019	1,124,352	398,048	839,216	885,467	1,011,422	1,504,224
2023	488,043	349,323	594,305	1,275,249	951,676	359,702	781,413	891,540	903,037	1,361,893
2024	632,692	383,260	747,481	1,508,454	1,011,674	455,067	979,807	1,010,907	1,135,291	1,674,673
2025	447,107	320,751	563,347	1,241,807	808,779	349,354	754,257	800,857	891,290	1,486,016
2026	430,451	310,661	550,522	1,186,442	759,173	348,235	740,626	765,508	867,622	1,413,766
2027	457,333	335,006	615,940	1,375,350	810,655	390,641	793,946	794,418	956,161	1,521,089
2028	409,219	283,616	523,294	1,231,940	674,332	337,734	703,041	695,746	814,391	1,327,422
2029	395,967	273,865	510,598	1,252,851	673,169	336,389	689,697	668,331	793,064	1,342,154
2030	382,121	259,919	520,598	1,189,779	660,717	329,774	669,990	687,609	767,331	1,299,485
2031	448,779	286,176	583,533	1,310,373	733,605	419,370	744,421	741,937	920,650	1,540,215
2032	387,712	260,052	546,629	1,255,069	679,143	357,114	677,008	659,980	798,417	1,312,755
2033	346,673	225,988	477,577	1,124,568	598,432	317,486	621,997	611,359	702,256	1,232,947
2034	335,842	215,107	463,500	1,079,762	582,315	313,292	606,412	588,733	681,873	1,169,096
2035	326,051	206,115	520,292	1,052,391	570,117	311,448	593,667	568,943	664,207	1,145,448
2036	315,242	193,989	504,515	1,018,996	554,334	304,747	575,841	546,787	642,854	1,110,705
2037	341,611	208,626	548,514	1,158,252	619,843	342,896	618,363	571,263	720,716	1,235,333
2038	356,659	202,294	502,384	1,082,211	611,087	382,936	619,668	567,156	750,239	1,297,209
2039	286,292	163,945	461,398	928,743	518,706	291,483	531,285	490,443	588,186	1,061,288
2040	277,028	154,373	447,247	898,864	507,732	286,931	516,727	473,056	570,850	1,098,683
2041	268,523	146,231	434,125	894,285	499,065	284,479	504,368	457,484	555,627	1,106,881
2042	283,585	148,502	455,437	928,515	534,500	305,551	516,277	456,063	598,914	1,102,346
2043	250,124	127,057	405,460	809,735	475,828	272,824	473,769	424,169	521,052	1,018,363
2044	241,983	119,441	392,562	782,350	505,008	313,375	461,461	409,844	625,620	997,193
2045	279,548	127,968	396,767	862,707	557,786	344,067	500,242	435,182	686,239	1,162,778
2046	224,330	102,046	364,791	721,511	480,693	299,429	431,619	379,195	588,136	940,782
2047	245,560	108,268	390,323	793,949	532,906	330,297	461,432	394,930	649,263	1,013,261
2048	207,632	86,763	338,394	663,440	457,914	287,094	403,854	350,911	552,952	889,971
2049	199,414	79,563	325,417	653,106	446,333	280,758	390,065	337,210	535,594	891,271
2050	191,765	73,288	313,157	607,711	436,259	276,093	377,695	324,521	519,594	843,770
2051	183,220	66,087	299,923	577,869	422,735	267,734	362,664	310,614	501,294	814,483
2052	229,824	76,093	320,640	669,784	500,218	316,512	408,973	337,806	593,743	971,104
2053	167,775	54,356	275,542	539,579	400,024	255,870	336,631	285,596	468,559	792,824
2054	159,498	48,287	262,933	494,937	386,186	247,289	321,978	272,497	450,751	739,535
2055	151,735	43,020	250,978	468,011	373,695	240,229	308,543	260,220	434,105	714,618
2056	144,441	38,429	239,592	442,535	362,401	234,537	296,138	248,646	418,478	693,160
2057	157,000	38,532	248,695	486,911	392,762	251,902	309,232	253,958	458,735	754,585
2058	128,920	29,278	216,373	389,801	335,342	218,303	268,638	224,560	384,724	639,945
2059	147,389	30,395	212,325	403,836	363,119	239,680	283,401	233,973	412,489	727,238
2060	114,186	21,856	194,455	340,315	309,111	203,079	242,354	201,673	352,256	590,216
2061	106,969	18,653	183,879	327,522	295,847	195,297	229,323	190,476	336,165	585,283
2062	112,489	17,727	183,158	322,524	307,694	203,575	228,633	185,288	355,527	571,675
2063	92,864	13,206	163,502	271,492	269,162	179,462	203,595	168,580	304,303	515,842
2064	85,993	10,937	153,708	250,157	255,779	171,440	190,972	157,909	288,557	491,164
2065	79,502	9,035	144,323	238,443	243,260	164,360	179,037	147,706	273,519	486,126
2066	89,027	8,763	137,825	228,642	255,415	176,276	182,635	150,121	286,232	520,621
2067	77,377	6,723	134,647	216,163	242,220	163,043	168,318	135,745	279,149	459,666

Subtotals 2018 to 2067:	14,184,344	7,965,389	20,057,439	41,478,529	28,410,806	14,760,226	24,774,425	23,592,295	30,678,157	51,678,467
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Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

Estimated Prospective Period Loss & ALAE Payments - By Birth Year  
Estimated 2018 Level Basis - Before Future Inflation & Anticipated Investment Income

Before Consideration of Reinsurance Recoveries  
Evaluated As of June 30, 2018

Calendar Year	BY 1989	BY 1990	BY 1991	BY 1992	BY 1993	BY 1994	BY 1995	BY 1996	BY 1997	BY 1998
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Reserve @ 6/30/18 (a)	14,629,267	7,982,635	21,181,030	42,948,092	30,435,656	16,210,540	25,996,162	24,586,207	33,016,045	55,899,529

**Estimated Prospective Period Loss & Expense Payments - 2018 Level Basis - (b)**

2068	60,240	4,557	117,354	173,827	203,096	139,688	143,009	117,667	227,891	395,746
2069	54,052	3,477	108,849	162,588	189,189	130,650	131,187	107,970	212,735	384,473
2070	48,299	2,629	100,717	140,900	176,127	122,450	120,027	98,731	198,278	346,525
2071	42,953	1,965	92,924	126,307	163,805	114,942	109,459	89,920	184,446	324,859
2072	42,993	1,598	87,740	121,440	162,721	113,726	103,406	83,059	189,694	315,472
2073	40,939	1,224	78,802	109,646	152,576	112,165	96,639	79,488	173,521	338,357
2074	28,262	679	71,112	88,138	126,533	90,747	79,321	65,002	143,756	257,153
2075	23,964	442	64,411	77,385	114,393	82,489	70,080	57,385	130,714	234,414
2076	20,140	278	58,034	67,723	103,085	74,915	61,543	50,303	118,379	213,448
2077	20,061	200	54,137	67,446	103,326	74,301	58,042	46,109	123,729	221,361
2078	13,653	95	46,208	51,208	81,904	60,439	46,173	37,548	95,199	173,546
2079	10,992	51	40,775	44,258	72,130	53,611	39,383	31,916	84,422	154,754
2080	11,369	32	35,740	39,241	68,460	54,504	35,959	29,150	82,322	161,055
2081	6,782	11	30,918	33,547	54,447	40,963	27,658	22,213	64,679	125,595
2082	6,156	5	26,654	29,381	49,957	37,171	23,634	18,379	62,391	108,681
2083	3,914	2	22,464	23,753	39,578	30,038	18,426	14,616	47,655	89,390
2084	2,869	0	18,783	20,108	33,057	25,035	14,652	11,549	40,098	75,318
2085	2,072	0	15,475	17,213	27,352	20,649	11,467	8,972	33,348	66,252
2086	1,473	0	12,544	14,179	22,393	16,825	8,817	6,841	27,376	51,854
2087	1,642	0	10,260	12,875	20,852	16,398	7,612	5,644	28,336	52,801
2088	2,100	0	7,805	9,708	14,324	10,427	4,860	3,715	17,508	33,124
2089	-	-	5,976	7,981	11,244	8,004	3,486	2,643	13,656	27,531
2090	-	-	15,908	6,398	8,672	5,961	2,425	1,828	10,418	19,616
2091	-	-	-	24,312	6,598	4,351	1,640	1,228	7,791	14,590
2092	-	-	-	-	19,033	3,214	1,116	802	6,392	11,042
2093	-	-	-	-	-	6,652	680	504	4,070	8,115
2094	-	-	-	-	-	-	1,038	322	3,219	6,100
2095	-	-	-	-	-	-	-	408	1,937	3,452
2096	-	-	-	-	-	-	-	-	3,929	2,243
2097	-	-	-	-	-	-	-	-	-	4,194
2098	-	-	-	-	-	-	-	-	-	-
2099	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-
2101	-	-	-	-	-	-	-	-	-	-
2102	-	-	-	-	-	-	-	-	-	-
2103	-	-	-	-	-	-	-	-	-	-
2104	-	-	-	-	-	-	-	-	-	-
2105	-	-	-	-	-	-	-	-	-	-
2106	-	-	-	-	-	-	-	-	-	-
2107	-	-	-	-	-	-	-	-	-	-
2108	-	-	-	-	-	-	-	-	-	-
2109	-	-	-	-	-	-	-	-	-	-
2110	-	-	-	-	-	-	-	-	-	-
2111	-	-	-	-	-	-	-	-	-	-
2112	-	-	-	-	-	-	-	-	-	-
2113	-	-	-	-	-	-	-	-	-	-
2114	-	-	-	-	-	-	-	-	-	-
2115	-	-	-	-	-	-	-	-	-	-
2116	-	-	-	-	-	-	-	-	-	-
2117	-	-	-	-	-	-	-	-	-	-
Subtotals 2068 to 2117:	444,922	17,246	1,123,591	1,469,563	2,024,850	1,450,314	1,221,737	993,912	2,337,887	4,221,062
Totals 2018 to 2117:	14,629,267	7,982,635	21,181,030	42,948,092	30,435,656	16,210,540	25,996,162	24,586,207	33,016,045	55,899,529

Notes: (a) See Exhibit III, Column (5).

(b) Prospective period payments are based on the estimated outstanding loss & expense reserve shown above and the assumed loss payment patterns shown in Appendix A.

Estimated 2018 Level Loss & ALAE Reserve - Before Inflation and Anticipated Investment Income  
Adjustment of Birth Year Level Estimated Outstanding to 2018 Level Outstanding Loss & Expense

Evaluated As of June 30, 2018

Year of Birth	Birth Year Level (a) Outstanding Loss & ALAE	Outstanding Basis (b) Inflation - Cal. Year	2018 Level Adjustment Factor (c)	2018 Level Outstanding Loss & ALAE (2) x (4)	Actual Paid (d) Loss & ALAE @ 6/30/18	Indicated	2018 Level Case O/S (e) Loss & ALAE @ 6/30/18	2018 Level IBNR / Bulk Outstanding (5) - (8)
						2018 Level Ultimate Loss & ALAE (5) + (6)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1989	10,299,897	0.81%	1.420	14,629,267	14,196,163	28,825,430	10,983,818	3,645,449
1990	5,665,696	0.67%	1.409	7,982,635	5,398,218	13,380,852	5,922,595	2,060,040
1991	15,134,020	0.50%	1.400	21,181,030	8,254,179	29,435,209	18,536,486	2,644,544
1992	30,840,814	0.44%	1.393	42,948,092	13,141,699	56,089,790	36,732,914	6,215,177
1993	21,952,698	0.40%	1.386	30,435,656	18,953,568	49,389,224	24,376,891	6,058,765
1994	11,739,592	0.37%	1.381	16,210,540	6,722,752	22,933,293	13,106,976	3,103,564
1995	18,895,743	0.36%	1.376	25,996,162	9,408,534	35,404,696	22,210,821	3,785,341
1996	17,934,573	0.30%	1.371	24,586,207	8,593,407	33,179,614	20,680,263	3,905,944
1997	24,157,069	0.25%	1.367	33,016,045	10,657,992	43,674,037	27,464,563	5,551,482
1998	41,002,508	0.30%	1.363	55,899,529	18,469,823	74,369,352	47,197,584	8,701,945
1999	13,397,737	0.38%	1.359	18,210,462	11,175,560	29,386,023	14,421,029	3,789,433
2000	13,377,070	0.36%	1.354	18,113,487	5,425,655	23,539,141	15,235,302	2,878,185
2001	18,338,145	0.34%	1.349	24,742,289	7,424,602	32,166,891	21,488,298	3,253,991
2002	47,014,205	0.33%	1.345	63,218,269	14,875,468	78,093,736	53,360,555	9,857,714
2003	11,906,896	0.29%	1.340	15,957,782	4,503,829	20,461,611	13,540,663	2,417,119
2004	20,578,249	4.94%	1.336	27,499,904	4,951,370	32,451,274	22,983,676	4,516,228
2005	25,153,011	0.87%	1.273	32,030,613	7,401,376	39,431,989	24,888,108	7,142,505
2006	39,689,199	4.86%	1.262	50,107,579	8,671,977	58,779,557	39,717,062	10,390,517
2007	31,653,966	4.55%	1.204	38,111,940	9,233,881	47,345,821	29,084,920	9,027,020
2008	51,117,065	0.35%	1.152	58,866,400	5,373,662	64,240,062	47,129,459	11,736,941
2009	57,588,273	0.32%	1.148	66,087,218	6,776,300	72,863,518	51,669,038	14,418,180
2010	29,252,260	0.36%	1.144	33,462,592	2,772,713	36,235,306	25,427,880	8,034,712
2011	53,184,350	0.42%	1.140	60,623,799	4,034,720	64,658,519	43,417,020	17,206,779
2012	33,512,583	9.83%	1.135	38,039,427	2,481,727	40,521,155	26,139,073	11,900,354
2013	42,131,022	0.72%	1.033	43,541,914	3,470,772	47,012,686	27,191,536	16,350,378
2014	60,722,662	0.18%	1.026	62,305,922	3,625,094	65,931,016	35,574,312	26,731,611
2015	61,033,874	2.01%	1.024	62,512,231	1,751,089	64,263,320	31,424,595	31,087,636
2016	51,717,156	0.22%	1.004	51,927,887	525,854	52,453,740	6,472,674	45,455,212
2017	70,407,748	0.18%	1.002	70,536,720	419,099	70,955,820	6,483,627	64,053,093
2018 (6 Mo)	37,056,291		1.000	37,056,291	1,406	37,057,697	2,818,594	34,237,697
Totals:								
All Years	966,454,374			1,145,837,889	218,692,492	1,364,530,380	765,680,332	380,157,556
1989 to 1998	197,622,610			272,885,162	113,796,336	386,681,498	227,212,911	45,672,251
1999 to 2018	768,831,764			872,952,727	104,896,156	977,848,882	538,467,421	334,485,305

Notes: (a) See Exhibit IV, Sheet 1, Column (7).

(b) Estimated NICA inflation rate by calendar year. Based on review of historical inflation in paid and outstanding loss & expense weighted by the estimated percentage of overall cost by component - see Appendix B.

(c) Factor to adjust the birth year level outstanding loss & expense to 2018 level - based on factors shown in column (3).

(d) The 2018 level case outstanding as provided by NICA as of June 30, 2018. See Exhibit IX, Sheets 6a - 1, 2, and 3.

(e) The 2018 level case outstanding as provided by NICA as of June 30, 2018. See Exhibit IX, Sheets 4a, 4b and 4c.

Birth Year Level Loss & ALAE

Evaluated As of June 30, 2018

Year of Birth	Birth Year Level						Open (d) Accepted Claim Counts @ 6/30/18
	Ultimate (a) Loss & ALAE	Paid (b) Loss & ALAE @ 6/30/18	Incurred (c) Loss & ALAE @ 6/30/18	Case O/S Loss & ALAE @ 6/30/18 (4) - (3)	IBNR / Bulk Loss & ALAE @ 6/30/18 (2) - (4)	Case+IBNR Loss & ALAE @ 6/30/18 (2) - (3)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1989	21,983,702	11,683,806	19,417,084	7,733,278	2,566,618	10,299,897	4
1990	10,110,491	4,444,796	8,648,372	4,203,577	1,462,119	5,665,696	3
1991	21,430,446	6,296,427	19,540,898	13,244,472	1,889,548	15,134,020	4
1992	41,308,711	10,467,897	36,845,623	26,377,726	4,463,088	30,840,814	9
1993	37,602,340	15,649,642	33,232,260	17,582,619	4,370,080	21,952,698	8
1994	17,615,188	5,875,596	15,367,603	9,492,006	2,247,586	11,739,592	4
1995	26,498,539	7,602,796	23,747,102	16,144,305	2,751,438	18,895,743	5
1996	25,217,543	7,282,970	22,368,326	15,085,356	2,849,217	17,934,573	6
1997	32,999,784	8,842,715	28,937,894	20,095,179	4,061,890	24,157,069	8
1998	56,259,254	15,256,746	49,876,345	34,619,600	6,382,908	41,002,508	11
1999	22,908,525	9,510,788	20,120,577	10,609,789	2,787,948	13,397,737	3
2000	18,087,733	4,710,663	15,962,152	11,251,489	2,125,581	13,377,070	5
2001	24,724,496	6,386,351	22,312,748	15,926,397	2,411,748	18,338,145	4
2002	59,468,580	12,454,375	52,137,589	39,683,214	7,330,991	47,014,205	13
2003	15,709,860	3,802,964	13,906,327	10,103,363	1,803,533	11,906,896	3
2004	24,844,027	4,265,778	21,464,522	17,198,744	3,379,505	20,578,249	5
2005	31,413,990	6,260,979	25,805,121	19,544,143	5,608,869	25,153,011	7
2006	46,991,878	7,302,678	38,761,760	31,459,081	8,230,118	39,689,199	9
2007	39,455,302	7,801,336	31,957,888	24,156,552	7,497,414	31,653,966	7
2008	55,672,626	4,555,561	45,480,768	40,925,208	10,191,858	51,117,065	9
2009	64,105,665	6,517,392	51,541,691	45,024,299	12,563,974	57,588,273	10
2010	31,951,013	2,698,754	24,927,245	22,228,492	7,023,768	29,252,260	5
2011	57,103,937	3,919,587	42,008,687	38,089,100	15,095,249	53,184,350	10
2012	35,942,804	2,430,220	25,458,639	23,028,419	10,484,165	33,512,583	7
2013	45,543,873	3,412,851	29,723,298	26,310,447	15,820,575	42,131,022	8
2014	64,291,163	3,568,500	38,238,831	34,670,331	26,052,332	60,722,662	13
2015	62,758,892	1,725,018	32,406,450	30,681,432	30,352,442	61,033,874	12
2016	52,238,386	521,231	6,967,638	6,446,407	45,270,749	51,717,156	3
2017	70,824,908	417,160	6,888,932	6,471,773	63,935,976	70,407,748	4
2018 (6 Mo)	37,057,697	1,406	2,820,000	2,818,594	34,237,697	37,056,291	2
Totals:	1,152,121,354	185,666,980	806,872,370	621,205,390	345,248,984	966,454,374	201

Notes: (a) See Exhibit IV, Sheet 2, Column (8).  
 (b) See Exhibit VIII, Sheet 1, Column (2).  
 (c) See Exhibit VII, Sheet 1, Column (2).  
 (d) See Exhibit X, Sheet 1d, Column (5).

Development of Birth Year Level Ultimate Loss & ALAE

Evaluated As of June 30, 2018

Ultimate Loss & ALAE - Birth Year Level								Prior	Increase or
Year of Birth	Paid Projection (a)	Incurred Projection (b)	Frequency/Severity (c)	Bornhuetter-Ferguson (d)	Cape Cod Method (e)	Incremental Payment Method (f)	Selected (g)	Selected Ultimate BY Level @ 3/31/18	(Decrease) From 3/31/18 to 6/30/18
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989	31,838,370	21,378,209	23,042,055	21,530,842	21,500,410	22,118,154	21,983,702	21,972,129	11,573
1990	12,354,309	9,559,946	11,067,803	9,703,725	10,910,086	9,220,168	10,110,491	10,118,407	(7,916)
1991	18,025,945	21,686,989	20,986,663	21,617,687	22,158,607	25,862,148	21,430,446	21,433,563	(3,117)
1992	31,316,962	41,055,785	41,743,990	41,126,358	39,821,113	43,916,879	41,308,711	41,352,013	(43,301)
1993	49,300,686	37,177,660	38,329,467	37,299,893	36,411,160	42,919,778	37,602,340	37,613,398	(11,058)
1994	19,435,235	17,260,843	18,218,805	17,365,916	18,344,651	19,925,681	17,615,188	17,631,875	(16,687)
1995	26,405,872	26,672,670	26,201,913	26,621,035	26,841,825	32,904,527	26,498,539	26,400,428	98,111
1996	26,559,812	25,174,282	25,291,051	25,187,297	25,646,965	24,365,145	25,217,543	24,972,277	245,267
1997	34,182,825	32,633,094	33,621,268	32,744,989	32,418,094	39,926,549	32,999,784	32,633,616	366,168
1998	62,220,957	56,245,263	56,282,966	56,249,532	53,187,546	63,364,392	56,259,254	55,753,549	505,705
1999	41,114,703	22,462,958	23,673,434	22,589,184	23,032,148	22,129,065	22,908,525	22,932,196	(23,671)
2000	21,484,001	17,891,702	18,422,544	17,948,952	18,781,932	16,017,095	18,087,733	18,051,808	35,925
2001	30,873,917	25,135,027	24,027,763	25,010,698	25,527,334	27,528,903	24,724,496	24,646,185	78,311
2002	63,821,467	59,202,190	59,916,162	59,287,388	55,842,215	61,612,580	59,468,580	59,234,687	233,893
2003	20,754,710	15,916,948	15,365,361	15,847,272	18,140,652	15,670,329	15,709,860	15,682,337	27,523
2004	24,956,718	24,936,450	24,693,067	24,902,563	26,483,579	26,607,893	24,844,027	24,913,318	(69,292)
2005	39,193,608	30,578,732	32,746,152	30,917,086	32,040,739	30,088,760	31,413,990	31,527,396	(113,406)
2006	49,371,797	46,850,823	47,211,682	46,913,128	45,767,183	49,872,796	46,991,878	47,138,781	(146,904)
2007	57,753,704	39,206,480	39,836,470	39,322,954	40,372,709	36,526,594	39,455,302	39,780,173	(324,871)
2008	36,928,941	56,633,529	54,225,108	56,159,242	55,053,033	54,358,476	55,672,626	54,362,834	1,309,792
2009	58,115,440	65,464,320	62,103,184	64,749,490	62,659,102	59,740,617	64,105,665	64,959,744	(854,079)
2010	27,072,818	32,452,201	31,231,656	32,169,183	37,408,355	37,600,867	31,951,013	32,477,067	(526,053)
2011	45,217,690	57,424,640	56,666,151	57,221,019	56,788,633	47,988,470	57,103,937	57,554,536	(450,599)
2012	32,942,118	36,541,271	35,163,680	36,123,460	42,665,431	37,314,256	35,942,804	36,018,873	(76,070)
2013	54,357,709	44,795,538	46,475,344	45,360,738	50,959,878	37,497,321	45,543,873	47,473,036	(1,929,163)
2014	69,625,066	62,239,504	65,307,506	63,422,581	64,143,402	53,469,170	64,291,163	66,453,821	(2,162,658)
2015	49,643,848	56,966,132	64,899,512	60,386,433	62,990,732	61,592,407	62,758,892	59,350,028	3,408,864
2016	29,250,704	28,170,767	49,338,273	44,102,792	63,274,095	41,399,757	52,238,386	52,535,463	(297,076)
2017	70,231,231	55,705,109	69,849,876	68,100,623	74,524,227	55,305,111	70,824,908	74,798,099	(3,973,190)
2018 (6 Mo)	N/A	N/A	35,998,916	35,850,976	39,323,199	30,963,618	37,057,697	20,007,458	N/A
Totals:									
All Years	N/A	N/A	1,151,937,822	1,135,833,037	1,183,019,034	1,127,807,506	1,152,121,354	N/A	N/A
1989 - 2017	1,134,351,164	1,067,419,063	1,115,938,906	1,099,982,061	1,143,695,834	1,096,843,888	1,115,063,657	1,119,771,636	(4,707,979)
1989 - 2016	1,064,119,934	1,011,713,954	1,046,089,030	1,031,881,438	1,069,171,608	1,041,538,777	1,044,238,749	1,044,973,537	(734,788)

- Notes: (a) See Exhibit VIII, Sheet 1, Column (5).  
 (b) See Exhibit VII, Sheet 1, Column (5).  
 (c) See Exhibit VI, Sheet 1, Column (14).  
 (d) See Exhibit V, Column (6).  
 (e) See Exhibit VI, Sheet 2, Column (11).  
 (f) See Appendix E, Exhibit I, Sheet 1, Column (7).  
 (g) Selected based on average of columns (3), (4) & (5) for birth years 2013 and prior. The selection for birth years 2014 and subsequent is based on average of columns (4), (5) & (6).

Estimation of Ultimate Loss & ALAE - Adjusted to Birth Year Level  
Based on Bornhuetter-Ferguson Approach  
Evaluated As of June 30, 2018

Year of Birth	Birth Year Level Initial Expected Ultimate (a) Loss & ALAE	Expected Percent (b) Unreported @ 6/30/18	Birth Year Level Expected Unreported Loss & ALAE (2) x (3)	Birth Year (c) Level Reported Loss & ALAE	Indicated Birth Year Level Ultimate Loss & ALAE (4) + (5)
(1)	(2)	(3)	(4)	(5)	(6)
1989	23,042,055	9.2%	2,113,758	19,417,084	21,530,842
1990	11,067,803	9.5%	1,055,352	8,648,372	9,703,725
1991	20,986,663	9.9%	2,076,789	19,540,898	21,617,687
1992	41,743,990	10.3%	4,280,736	36,845,623	41,126,358
1993	38,329,467	10.6%	4,067,633	33,232,260	37,299,893
1994	18,218,805	11.0%	1,998,314	15,367,603	17,365,916
1995	26,201,913	11.0%	2,873,934	23,747,102	26,621,035
1996	25,291,051	11.1%	2,818,971	22,368,326	25,187,297
1997	33,621,268	11.3%	3,807,095	28,937,894	32,744,989
1998	56,282,966	11.3%	6,373,187	49,876,345	56,249,532
1999	23,673,434	10.4%	2,468,607	20,120,577	22,589,184
2000	18,422,544	10.8%	1,986,800	15,962,152	17,948,952
2001	24,027,763	11.2%	2,697,950	22,312,748	25,010,698
2002	59,916,162	11.9%	7,149,799	52,137,589	59,287,388
2003	15,365,361	12.6%	1,940,945	13,906,327	15,847,272
2004	24,693,067	13.9%	3,438,041	21,464,522	24,902,563
2005	32,746,152	15.6%	5,111,964	25,805,121	30,917,086
2006	47,211,682	17.3%	8,151,368	38,761,760	46,913,128
2007	39,836,470	18.5%	7,365,067	31,957,888	39,322,954
2008	54,225,108	19.7%	10,678,474	45,480,768	56,159,242
2009	62,103,184	21.3%	13,207,800	51,541,691	64,749,490
2010	31,231,656	23.2%	7,241,938	24,927,245	32,169,183
2011	56,666,151	26.8%	15,212,332	42,008,687	57,221,019
2012	35,163,680	30.3%	10,664,821	25,458,639	36,123,460
2013	46,475,344	33.6%	15,637,440	29,723,298	45,360,738
2014	65,307,506	38.6%	25,183,750	38,238,831	63,422,581
2015	64,899,512	43.1%	27,979,983	32,406,450	60,386,433
2016	49,338,273	75.3%	37,135,154	6,967,638	44,102,792
2017	69,849,876	87.6%	61,211,690	6,888,932	68,100,623
2018 (6 Mo)	35,998,916	91.8%	33,030,976	2,820,000	35,850,976
Totals:	1,151,937,822		328,960,667	806,872,370	1,135,833,037

Notes: (a) See Exhibit VI, Sheet 1, Column (14).

(b) Based on cumulative development factors shown in Exhibit VII, Sheet 1, Col. (4) for all birth years prior to the current birth year. The percent unreported for the current birth year is adjusted to account for the partial year.

(c) See Exhibit VII, Sheet 1, Column (2).

Estimated Ultimate Loss & Expense Based on Frequency / Severity Method - Birth Year Cost Level

Year of Birth	Birth Year Level Ultimate Loss & ALAE Based On			Inflation Incurred Basis (c)	Adjustment Factor to 2018 Level (6)	Estimated 2018 Level Ultimate Loss & ALAE (4) x (6) (7)	Estimated Ultimate Claim Cts. (8)	Indicated Average Claim Size		Birth Year Level Average Claim Size Based on All Years (11)	Estimated % Rept. (e) (12)	Indicated Birth Year Level Average (f) Claim Size (13)	Estimated Birth Year Level Ultimate Loss & ALAE (13) x (8) (14)
	Adjusted Paid Proj. (a)	Adjusted Inc. Proj. (b)	Selected (4)					Birth Year Level (9)	2018 Level (7) / (8) (10)				
	(2)	(3)	(4)					(9)	(10)				
1989	31,838,370	21,378,209	21,378,209	0.90%	1.432	30,604,469	11.0	1,943,474	2,782,224	3,592,344	90.83%	2,094,732	23,042,055
1990	12,354,309	9,559,946	9,559,946	0.76%	1.419	13,563,372	7.0	1,365,707	1,937,625	3,624,759	90.46%	1,581,115	11,067,803
1991	18,025,945	21,686,989	21,686,989	0.60%	1.408	30,535,276	4.0	5,421,747	7,633,819	3,652,488	90.10%	5,246,666	20,986,663
1992	31,316,962	41,055,785	41,055,785	0.55%	1.400	57,462,189	13.0	3,158,137	4,420,168	3,674,376	89.75%	3,211,076	41,743,990
1993	49,300,686	37,177,660	37,177,660	0.51%	1.392	51,747,986	13.0	2,859,820	3,980,614	3,694,707	89.39%	2,948,421	38,329,467
1994	19,435,235	17,260,843	17,260,843	0.45%	1.385	23,903,809	7.0	2,465,835	3,414,830	3,713,524	89.03%	2,602,686	18,218,805
1995	26,405,872	26,672,670	26,672,670	0.43%	1.379	36,773,481	6.0	4,445,445	6,128,913	3,730,123	89.03%	4,366,986	26,201,913
1996	26,559,812	25,174,282	25,174,282	0.37%	1.373	34,560,692	7.0	3,596,326	4,937,242	3,745,985	88.85%	3,613,007	25,291,051
1997	34,182,825	32,633,094	32,633,094	0.32%	1.368	44,633,722	11.0	2,966,645	4,057,611	3,759,989	88.68%	3,056,479	33,621,268
1998	62,220,957	56,245,263	56,245,263	0.37%	1.363	76,686,560	15.0	3,749,684	5,112,437	3,771,882	88.68%	3,752,198	56,282,966
1999	41,114,703	22,462,958	22,462,958	0.44%	1.358	30,515,030	9.0	2,495,884	3,390,559	3,785,686	89.57%	2,630,382	23,673,434
2000	21,484,001	17,891,702	17,891,702	0.42%	1.353	24,198,834	6.0	2,981,950	4,033,139	3,802,320	89.22%	3,070,424	18,422,544
2001	30,873,917	25,135,027	25,135,027	0.42%	1.347	33,851,929	4.0	6,283,757	8,462,982	3,818,452	88.77%	6,006,941	24,027,763
2002	63,821,467	59,202,190	59,202,190	0.41%	1.341	79,401,369	17.0	3,482,482	4,670,669	3,834,433	88.07%	3,524,480	59,916,162
2003	20,754,710	15,916,948	15,916,948	0.38%	1.336	21,260,699	3.0	5,305,649	7,086,900	3,850,115	87.37%	5,121,787	15,365,361
2004	24,956,718	24,936,450	24,936,450	4.59%	1.331	33,182,296	6.0	4,156,075	5,530,383	3,864,734	86.08%	4,115,511	24,693,067
2005	39,193,608	30,578,732	30,578,732	0.90%	1.272	38,905,154	11.0	2,779,885	3,536,832	4,042,069	84.39%	2,976,923	32,746,152
2006	49,371,797	46,850,823	46,850,823	4.49%	1.261	59,076,967	12.0	3,904,235	4,923,081	4,078,406	82.73%	3,934,307	47,211,682
2007	57,753,704	39,206,480	39,206,480	4.20%	1.207	47,314,795	10.0	3,920,648	4,731,479	4,261,400	81.51%	3,983,647	39,836,470
2008	36,928,941	56,633,529	56,633,529	1.67%	1.158	65,591,375	10.0	5,663,353	6,559,137	4,440,361	80.31%	5,422,511	54,225,108
2009	58,115,440	65,464,320	65,464,320	0.37%	1.139	74,572,721	11.0	5,951,302	6,779,338	4,514,566	78.73%	5,645,744	62,103,184
2010	27,072,818	32,452,201	32,452,201	0.41%	1.135	36,830,032	6.0	5,408,700	6,138,339	4,531,411	76.81%	5,205,276	31,231,656
2011	45,217,690	57,424,640	57,424,640	0.47%	1.130	64,905,897	12.0	4,785,387	5,408,825	4,549,938	73.15%	4,722,179	56,666,151
2012	32,942,118	36,541,271	36,541,271	8.91%	1.125	41,108,816	7.0	5,220,182	5,872,688	4,571,304	69.67%	5,023,383	35,163,680
2013	54,357,709	44,795,538	44,795,538	0.71%	1.033	46,270,197	10.0	4,479,554	4,627,020	4,978,801	66.35%	4,647,534	46,475,344
2014	69,625,066	62,239,504	62,239,504	0.21%	1.026	63,837,496	14.0	4,445,679	4,559,821	5,013,969	61.44%	4,664,822	65,307,506
2015	49,643,848	56,966,132	56,966,132	1.85%	1.024	58,306,201	15.0	3,797,742	3,887,080	5,024,506	56.89%	4,326,634	64,899,512
2016	29,250,704	28,170,767	28,170,767	0.28%	1.005	28,308,643	11.0	2,560,979	2,573,513	5,117,655	24.73%	4,485,298	49,338,273
2017	70,231,231	55,705,109	55,705,109	0.21%	1.002	55,822,843	14.0	3,978,936	3,987,346	5,131,856	12.37%	4,989,277	69,849,876
2018 (6 Mo)	N/A	N/A	N/A		1.000	N/A	7.0	N/A	N/A	5,142,702	N/A	5,142,702	35,998,916
Totals / Averages:													
1992 - 2010	720,864,173	672,950,957	672,950,957			870,469,638	177	3,801,983	4,917,908				673,142,044
1992 - 2011	766,081,863	730,375,597	730,375,597			935,375,535	189	3,864,421	4,949,077				729,808,195
1992 - 2012	799,023,982	766,916,868	766,916,868			976,916,868	196	3,912,841	4,982,063				764,971,874
1994 - 2010	640,246,525	594,717,513	594,717,513			761,259,463	151	3,938,527	5,041,453				593,068,586
1995 - 2011	666,028,980	634,881,309	634,881,309			802,261,551	156	4,069,752	5,142,702				631,515,932
1996 - 2012	672,565,226	644,749,910	644,749,910			806,596,886	157	4,106,687	5,137,560				640,477,698
1997 - 2013	700,363,123	664,371,166	664,371,166			818,306,391	160	4,152,320	5,114,415				661,661,991

(15) Selected 2018 Level Average Claim Size ==> 5,142,702

Notes: (a) See Exhibit VIII, Sheet 1.

(b) See Exhibit VII, Sheet 1.

(c) See Exhibit IX, Sheets 8a, 8b and 8c , calendar year factors.

(d) Based on ultimate reported accepted claim counts for AAA and AAD only (Excluding DA claims). See Exhibit X, Sheet 1a, Column (10).

(e) See Exhibit VII, Sheet 1, Column (4) for basis of reporting pattern for all years other than the current birth year.

(f) The historical birth year level average claim size is based on a combination (wd. avg.) of the average for all years (column (10)) and the average based on experience (column (9)) for all birth years prior to the current birth year. The calculation for the current birth year is shown in Item (15). The weights are based on reporting pattern as shown in column (12).



Estimation of Birth Year Level Ultimate Loss & ALAE  
Based on Cape Cod Type Methodology

Evaluated As of June 30, 2018

Year of Birth	Insured (a) Physicians	Birth Year Level (b) Incurred Loss & ALAE @ 6/30/18	Expected Percent (c) Reported @ 6/30/18	Exposure Adjusted to Expected Percent Reported (2) X (4)	Adjustment Factor to (d) 2018 Level	Incurred (Reported) Loss & ALAE Adjusted to BY 2018 Level (3) X (6)	2018 Level Loss & ALAE per Insured Physician (7) / (5)	Indicated (e) BY Level Unreported Loss & ALAE	Indicated BY Level Ultimate Loss & ALAE (3) + (10)
1989	570	19,417,084	90.83%	517.7	1.432	27,796,975	53,692	2,083,326	21,500,410
1990	590	8,648,372	90.46%	533.7	1.419	12,270,059	22,989	2,261,714	10,910,086
1991	653	19,540,898	90.10%	588.4	1.408	27,513,580	46,762	2,617,709	22,158,607
1992	712	36,845,623	89.75%	639.0	1.400	51,569,594	80,705	2,975,490	39,821,113
1993	731	33,232,260	89.39%	653.4	1.392	46,256,342	70,791	3,178,900	36,411,160
1994	659	15,367,603	89.03%	586.7	1.385	21,281,940	36,273	2,977,049	18,344,651
1995	682	23,747,102	89.03%	607.2	1.379	32,740,013	53,920	3,094,723	26,841,825
1996	708	22,368,326	88.85%	629.1	1.373	30,708,516	48,815	3,278,639	25,646,965
1997	737	28,937,894	88.68%	653.5	1.368	39,579,634	60,561	3,480,200	32,418,094
1998	699	49,876,345	88.68%	619.8	1.363	68,002,977	109,709	3,311,200	53,187,546
1999	665	20,120,577	89.57%	595.7	1.358	27,332,999	45,887	2,911,571	23,032,148
2000	620	15,962,152	89.22%	553.1	1.353	21,589,083	39,030	2,819,781	18,781,932
2001	676	22,312,748	88.77%	600.1	1.347	30,050,875	50,077	3,214,586	25,527,334
2002	730	52,137,589	88.07%	642.9	1.341	69,926,399	108,769	3,704,626	55,842,215
2003	785	13,906,327	87.37%	685.8	1.336	18,575,058	27,084	4,234,325	18,140,652
2004	841	21,464,522	86.08%	723.9	1.331	28,562,291	39,456	5,019,057	26,483,579
2005	891	25,805,121	84.39%	751.9	1.272	32,831,715	43,665	6,235,618	32,040,739
2006	897	38,761,760	82.73%	742.1	1.261	48,876,989	65,861	7,005,424	45,767,183
2007	963	31,957,888	81.51%	785.0	1.207	38,567,117	49,133	8,414,821	40,372,709
2008	987	45,480,768	80.31%	792.6	1.158	52,674,558	66,455	9,572,264	55,053,033
2009	1,044	51,541,691	78.73%	822.0	1.139	58,712,962	71,430	11,117,411	62,659,102
2010	1,071	24,927,245	76.81%	822.7	1.135	28,289,953	34,388	12,481,110	37,408,355
2011	1,091	42,008,687	73.15%	798.1	1.130	47,481,561	59,492	14,779,945	56,788,633
2012	1,119	25,458,639	69.67%	779.6	1.125	28,640,890	36,737	17,206,792	42,665,431
2013	1,143	29,723,298	66.35%	758.4	1.033	30,701,782	40,481	21,236,580	50,959,878
2014	1,208	38,238,831	61.44%	742.2	1.026	39,220,608	52,846	25,904,571	64,143,402
2015	1,273	32,406,450	56.89%	724.2	1.024	33,168,778	45,802	30,584,282	62,990,732
2016	1,318	6,967,638	24.73%	326.0	1.005	7,001,739	21,478	56,306,457	63,274,095
2017	1,356	6,888,932	12.37%	167.7	1.002	6,903,492	41,167	67,635,294	74,524,227
2018 (6 Mo)	1,335	2,820,000	4.12%	55.0	1.000	2,820,000	51,243	36,503,199	39,323,199

Totals / Averages:

1992 - 2010	15,098	574,753,540		12,907		746,129,015	57,810	99,026,793	673,780,334
1992 - 2011	16,189	616,762,228		13,705		793,610,576	57,908	113,806,739	730,568,967
1992 - 2012	17,308	642,220,867		14,484		822,251,466	56,768	131,013,531	773,234,398
1994 - 2010	13,655	504,675,657		11,614		648,303,080	55,820	92,872,404	597,548,061
1995 - 2011	14,087	531,316,742		11,826		674,502,700	57,038	104,675,300	635,992,042
1996 - 2012	14,524	533,028,280		11,998		670,403,577	55,876	118,787,369	651,815,649
1997 - 2013	14,959	540,383,251		12,127		670,396,843	55,280	136,745,311	677,128,562

(9) Indicated 2018 Level Loss & ALAE per Insured Physician

57,038

Notes: (a) See Exhibit X, Sheet 1c, Columns (4) and (10).

(b) See Exhibit VII, Sheet 1.

(c) Based on cumulative development factors shown in Exhibit VII, Sheet 1, Column (4).

(d) See Exhibit VI, Sheet 1, Column (6).

(e) Calculation = [Item (9) / Column (6)] X [1.0 - Column (4)] X Column (2), except for the current year (2018) - current year calculation is multiplied by 0.50 to account for the partial year.

Incurred Loss & ALAE - Adjusted to Birth Year Cost Basis

Evaluated As of June 30, 2018

Year of Birth ----- (1)	Combined Incurred Loss & ALAE ----- (2)	Loss Development Factors -----		Combined Incurred Loss & ALAE Projection (2) x (4) ----- (5)
		Incremental ----- (3)	Cumulative ----- (4)	
1989	19,417,084	1.101	1.101	21,378,209
1990	8,648,372	1.004	1.105	9,559,946
1991	19,540,898	1.004	1.110	21,686,989
1992	36,845,623	1.004	1.114	41,055,785
1993	33,232,260	1.004	1.119	37,177,660
1994	15,367,603	1.004	1.123	17,260,843
1995	23,747,102	1.000	1.123	26,672,670
1996	22,368,326	1.002	1.125	25,174,282
1997	28,937,894	1.002	1.128	32,633,094
1998	49,876,345	1.000	1.128	56,245,263
1999	20,120,577	0.990	1.116	22,462,958
2000	15,962,152	1.004	1.121	17,891,702
2001	22,312,748	1.005	1.126	25,135,027
2002	52,137,589	1.008	1.135	59,202,190
2003	13,906,327	1.008	1.145	15,916,948
2004	21,464,522	1.015	1.162	24,936,450
2005	25,805,121	1.020	1.185	30,578,732
2006	38,761,760	1.020	1.209	46,850,823
2007	31,957,888	1.015	1.227	39,206,480
2008	45,480,768	1.015	1.245	56,633,529
2009	51,541,691	1.020	1.270	65,464,320
2010	24,927,245	1.025	1.302	32,452,201
2011	42,008,687	1.050	1.367	57,424,640
2012	25,458,639	1.050	1.435	36,541,271
2013	29,723,298	1.050	1.507	44,795,538
2014	38,238,831	1.080	1.628	62,239,504
2015	32,406,450	1.080	1.758	56,966,132
2016	6,967,638	2.300	4.043	28,170,767
2017	6,888,932	2.000	8.086	55,705,109
2018	2,820,000	3.000	24.259	68,409,036
Totals:	806,872,370			1,135,828,099





Incurred Loss & ALAE - Adjusted to Birth Year Cost Basis

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	21,653,322	20,422,376	19,739,450	19,919,204	19,574,366	19,417,084
1990	8,337,359	8,088,930	8,084,687	7,188,269	8,648,372	
1991	19,832,159	19,802,896	20,096,957	19,540,898		
1992	36,434,453	36,507,669	36,845,623			
1993	33,803,524	33,232,260				
1994	15,367,603					
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Incurred Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth	6:18	18:30	30:42	42:54	54:66	66:78	78:90	90:102	102:114	114:126	126:138	138:150
1989			1.160	1.318	0.941	0.639	0.813	1.353	1.094	1.026	0.893	0.905
1990		2.571	1.419	0.825	0.875	0.999	1.003	0.803	0.968	1.015	1.041	1.193
1991		2.283	0.753	0.857	0.997	1.068	0.979	0.982	1.070	1.019	1.495	1.044
1992		1.237	1.282	1.060	1.045	0.869	1.038	1.036	0.971	1.250	1.072	1.065
1993		2.586	1.310	1.198	1.031	1.322	1.070	1.547	1.015	0.915	0.945	1.047
1994		2.598	0.741	1.161	1.494	1.476	1.019	0.903	0.620	0.964	1.059	1.087
1995		14.576	2.278	1.360	1.017	1.025	1.375	0.996	1.036	1.030	1.141	0.992
1996		3.795	1.304	1.080	2.626	1.146	0.929	1.023	1.183	0.969	1.105	0.924
1997		3.870	1.032	1.248	1.298	1.147	0.952	0.904	1.137	0.990	0.995	1.014
1998		1.566	1.443	1.285	1.202	1.117	0.988	1.077	1.117	1.033	1.030	0.957
1999		1.092	1.856	1.194	1.159	0.975	0.866	1.051	1.111	1.005	0.853	1.154
2000		2.052	1.075	0.893	0.835	0.876	1.079	0.959	1.012	1.235	0.943	0.805
2001		36.692	1.590	0.681	1.429	1.171	1.126	0.968	1.000	1.097	0.926	1.113
2002		1.726	1.471	0.953	1.452	1.074	1.186	1.241	0.959	1.145	0.982	0.904
2003		1.546	13.592	1.341	1.152	0.819	1.119	1.223	1.076	0.974	0.950	1.030
2004		20.953	2.249	1.543	1.251	0.984	0.817	1.024	0.932	1.039	1.006	0.991
2005		199.041	3.088	1.066	1.286	1.228	0.894	0.992	0.737	0.881	0.981	1.009
2006		0.972	2.189	1.663	1.360	1.062	0.930	0.991	1.046	1.011	0.917	0.997
2007		48.687	1.744	1.258	1.560	0.915	0.920	1.014	0.979	0.936	0.962	
2008		2.742	2.094	1.067	1.011	1.040	1.070	1.031	0.927	0.996		
2009		2.033	1.959	1.062	0.965	0.998	1.067	1.140	1.040			
2010		2.482	1.593	1.161	0.898	0.977	0.977	1.062				
2011	4.936	1.437	1.695	1.150	1.088	1.029	1.017					
2012	2.123	2.729	1.601	0.832	0.784	1.157						
2013	544.348	1.707	0.886	1.402	1.031							
2014		1.312	1.334	1.016								
2015		2.847	2.323									
2016	0.153	15.890										
2017												
Simple Avg. - Incremental	137.890	14.112	2.039	1.141	1.191	1.046	1.010	1.060	1.002	1.027	1.016	1.013
Wtd Avg. All - Incremental	18.645	2.147	1.539	1.114	1.137	1.045	1.001	1.074	0.996	1.017	0.991	0.996
Wtd Latest Five - Incremental	16.350	1.940	1.484	1.080	0.962	1.034	1.015	1.048	0.948	0.972	0.957	0.964
Wtd Latest Three - Incremental	4.261	1.830	1.386	1.035	0.979	1.047	1.027	1.079	0.983	0.984	0.949	0.999
Wtd Avg. All - Cumulative		4.979	2.319	1.507	1.353	1.190	1.138	1.137	1.058	1.062	1.044	1.053
Wtd Latest Five - Cumulative		2.636	1.359	0.916	0.848	0.881	0.853	0.840	0.802	0.846	0.870	0.909
Selected Incremental - Prior 6/30/17	5.000	25.000	1.850	1.100	1.140	1.050	1.045	1.040	1.025	1.025	1.020	1.020
Selected - Incremental	3.000	2.000	2.300	1.080	1.080	1.050	1.050	1.050	1.025	1.020	1.015	1.015
Selected - Cumulative	24.259	8.086	4.043	1.758	1.628	1.507	1.435	1.367	1.302	1.270	1.245	1.227

Incurred Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth -----	150:162 -----	162:174 -----	174:186 -----	186:198 -----	198:210 -----	210:222 -----	222:234 -----	234:246 -----	246:258 -----	258:270 -----	270:282 -----	282:294 -----
1989	1.410	0.800	1.038	1.124	1.029	1.184	0.979	0.959	0.927	1.022	0.977	1.022
1990	1.180	0.966	1.041	1.010	0.853	0.770	0.985	0.904	0.786	1.005	1.026	0.928
1991	0.952	1.176	1.029	1.108	1.176	0.999	0.949	0.987	1.036	1.131	0.911	1.012
1992	1.030	1.238	1.242	0.987	1.018	1.019	1.007	1.012	1.062	0.937	0.959	0.989
1993	1.046	0.900	0.955	0.880	0.959	1.018	0.909	1.047	0.905	1.003	1.003	0.993
1994	1.070	1.030	1.138	0.957	1.028	1.123	1.031	0.987	1.000	1.006	0.960	1.004
1995	1.027	1.034	1.029	0.950	0.940	0.953	1.053	1.003	0.983	1.016	1.029	
1996	1.006	0.947	0.999	0.735	1.109	0.959	1.003	0.999	1.064	0.973		
1997	1.241	1.115	0.948	0.999	0.908	0.959	0.990	0.971	0.993			
1998	1.126	0.972	1.034	1.030	1.017	0.983	0.991	0.932				
1999	0.890	0.988	1.023	0.877	1.018	0.948	1.011					
2000	1.066	0.938	1.014	0.987	1.013	1.074						
2001	0.971	1.031	1.003	1.031	1.008							
2002	0.982	1.004	0.946	0.979								
2003	0.980	0.996	1.153									
2004	1.050	1.057										
2005	0.980											
2006												
2007												
2008												
2009												
2010												
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2012												
2013												
2014												
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2016												
2017												
Simple Avg. - Incremental	1.059	1.012	1.039	0.975	1.006	0.999	0.992	0.980	0.973	1.011	0.981	0.991
Wtd Avg. All - Incremental	1.051	1.001	1.021	0.967	0.998	0.997	0.987	0.982	0.983	1.002	0.978	0.996
Wtd Latest Five - Incremental	0.989	1.008	0.997	0.988	0.989	0.978	1.004	0.968	0.978	0.980	0.975	0.991
Wtd Latest Three - Incremental	1.003	1.015	0.988	0.993	1.013	0.990	0.994	0.957	1.010	0.997	1.002	0.993
Wtd Avg. All - Cumulative	1.057	1.006	1.005	0.984	1.018	1.020	1.023	1.037	1.056	1.074	1.072	1.097
Wtd Latest Five - Cumulative	0.943	0.953	0.946	0.948	0.960	0.970	0.992	0.987	1.021	1.043	1.064	1.091
Selected Incremental - Prior 6/30/17	1.020	1.020	1.020	1.010	1.010	1.000	1.000	1.000	1.004	1.004	0.985	1.000
Selected - Incremental	1.020	1.020	1.015	1.008	1.008	1.005	1.004	0.990	1.000	1.002	1.002	1.000
Selected - Cumulative	1.209	1.185	1.162	1.145	1.135	1.126	1.121	1.116	1.128	1.128	1.125	1.123

Incurred Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth -----	294:306 -----	306:318 -----	318:330 -----	330:342 -----	342:354 -----	354:Ult. -----
1989	0.943	0.967	1.009	0.983	0.992	
1990	0.970	0.999	0.889	1.203		
1991	0.999	1.015	0.972			
1992	1.002	1.009				
1993	0.983					
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Simple Avg. - Incremental	0.979	0.998	0.957	1.093	0.992	
Wtd Avg. All - Incremental	0.983	0.999	0.973	1.041	0.992	
Wtd Latest Five - Incremental	0.983	0.999	0.973	1.041	0.992	
Wtd Latest Three - Incremental	0.994	1.010	0.973	1.041	0.992	
Wtd Avg. All - Cumulative	1.101	1.120	1.120	1.151	1.105	
Wtd Latest Five - Cumulative	1.101	1.120	1.120	1.151	1.105	
Selected Incremental - Prior 6/30/17	1.004	1.004	1.004	1.004	1.109	
Selected - Incremental	1.004	1.004	1.004	1.004	1.004	1.101
Selected - Cumulative	1.123	1.119	1.114	1.110	1.105	1.101



Paid Loss & ALAE - Adjusted to Birth Year Cost Basis

Evaluated As of June 30, 2018

Year of Birth	Combined Paid Loss & ALAE	Loss Development Factors		Combined Paid Loss & ALAE Projection (2) x (4)
		Incremental	Cumulative	
(1)	(2)	(3)	(4)	(5)
1989	11,683,806	2.725	2.725	31,838,370
1990	4,444,796	1.020	2.780	12,354,309
1991	6,296,427	1.030	2.863	18,025,945
1992	10,467,897	1.045	2.992	31,316,962
1993	15,649,642	1.053	3.150	49,300,686
1994	5,875,596	1.050	3.308	19,435,235
1995	7,602,796	1.050	3.473	26,405,872
1996	7,282,970	1.050	3.647	26,559,812
1997	8,842,715	1.060	3.866	34,182,825
1998	15,256,746	1.055	4.078	62,220,957
1999	9,510,788	1.060	4.323	41,114,703
2000	4,710,663	1.055	4.561	21,484,001
2001	6,386,351	1.060	4.834	30,873,917
2002	12,454,375	1.060	5.124	63,821,467
2003	3,802,964	1.065	5.458	20,754,710
2004	4,265,778	1.072	5.850	24,956,718
2005	6,260,979	1.070	6.260	39,193,608
2006	7,302,678	1.080	6.761	49,371,797
2007	7,801,336	1.095	7.403	57,753,704
2008	4,555,561	1.095	8.106	36,928,941
2009	6,517,392	1.100	8.917	58,115,440
2010	2,698,754	1.125	10.032	27,072,818
2011	3,919,587	1.150	11.536	45,217,690
2012	2,430,220	1.175	13.555	32,942,118
2013	3,412,851	1.175	15.927	54,357,709
2014	3,568,500	1.225	19.511	69,625,066
2015	1,725,018	1.475	28.779	49,643,848
2016	521,231	1.950	56.119	29,250,704
2017	417,160	3.000	168.356	70,231,231
2018	1,406	300.000	50,506.703	71,031,112
Totals:	185,666,980			1,205,382,276





Paid Loss & ALAE - Adjusted to Birth Year Cost Basis

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	9,918,358	10,315,504	10,737,582	11,127,387	11,439,111	11,683,806
1990	3,840,682	4,022,540	4,158,827	4,289,051	4,444,796	
1991	5,173,990	5,519,183	5,875,756	6,296,427		
1992	9,188,548	9,799,897	10,467,897			
1993	15,038,591	15,649,642				
1994	5,875,596					
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Paid Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth	6:18	18:30	30:42	42:54	54:66	66:78	78:90	90:102	102:114	114:126	126:138	138:150
1989			2.119	1.590	1.346	1.128	1.110	1.083	1.113	1.067	1.057	1.209
1990		3.190	2.447	1.026	1.300	1.154	1.075	1.061	1.048	1.039	1.031	1.049
1991		1.045	1.572	2.004	1.397	1.096	1.080	1.032	1.036	1.079	1.070	1.083
1992		18.582	4.188	1.724	1.177	1.129	1.094	1.083	1.064	1.062	1.064	1.089
1993		42.346	3.051	1.538	1.473	1.375	1.194	1.156	1.164	1.135	1.094	1.096
1994		5.198	1.320	1.272	1.422	1.110	1.107	1.083	1.043	1.016	1.075	1.108
1995		58.324	3.235	1.529	1.057	1.152	1.051	1.086	1.097	1.130	1.322	1.083
1996		6.407	1.362	1.490	1.300	1.330	1.136	1.090	1.098	1.090	1.068	1.080
1997		45.478	1.444	1.230	1.498	1.257	1.159	1.086	1.107	1.076	1.120	1.103
1998		4.258	2.086	1.352	1.194	1.150	1.392	1.117	1.126	1.093	1.118	1.097
1999		1.714	1.322	1.453	1.205	1.161	1.122	1.290	1.130	1.116	1.100	1.106
2000		1.538	1.645	1.333	1.102	1.091	1.061	1.061	1.056	1.061	1.079	1.057
2001		2.286	2.511	1.235	1.246	1.422	1.120	1.078	1.062	1.073	1.059	1.076
2002		3.595	1.943	1.437	1.292	1.288	1.297	1.153	1.137	1.111	1.123	1.130
2003		2.228	1.255	1.193	1.603	1.335	1.082	1.100	1.128	1.111	1.102	1.148
2004		3.973	2.136	1.406	1.280	1.119	1.190	1.091	1.065	1.091	1.095	1.062
2005		60.386	4.469	1.805	1.364	1.409	1.207	1.103	1.094	1.077	1.076	1.068
2006		16.327	1.636	2.202	1.437	1.665	1.170	1.117	1.099	1.100	1.096	1.085
2007		6.016	2.138	1.620	1.320	1.273	1.189	1.164	1.133	1.122	1.095	
2008		3.944	2.113	1.605	1.193	1.187	1.252	1.191	1.183	1.157		
2009		2.190	1.913	1.422	1.171	1.166	1.194	1.282	1.096			
2010		3.049	1.379	1.284	1.110	1.077	1.103	1.071				
2011	114.491	4.127	3.400	1.501	1.403	1.219	1.169					
2012	865.303	8.420	2.825	1.528	1.193	1.121						
2013		3.113	2.154	1.321	1.198							
2014		4.916	1.553	1.686								
2015		202.784	2.338									
2016	440.571	1.377										
2017												
Simple Avg. - Incremental		19.141	2.206	1.492	1.291	1.226	1.155	1.117	1.099	1.090	1.097	1.096
Wtd Avg. All - Incremental	3,136.708	3.411	1.957	1.467	1.274	1.227	1.168	1.129	1.106	1.095	1.095	1.101
Wtd Latest Five - Incremental	1,627.281	3.923	2.174	1.466	1.211	1.158	1.182	1.173	1.117	1.110	1.092	1.099
Wtd Latest Three - Incremental	930.328	3.976	1.934	1.508	1.257	1.146	1.163	1.203	1.129	1.123	1.090	1.074
Wtd Avg. All - Cumulative		199.588	58.514	29.902	20.388	15.997	13.033	11.159	9.882	8.931	8.159	7.449
Wtd Latest Five - Cumulative		253.398	64.600	29.715	20.265	16.738	14.457	12.226	10.422	9.332	8.407	7.699
Selected Incremental - Prior 6/30/17	15.000	3.000	1.950	1.400	1.200	1.200	1.175	1.135	1.115	1.095	1.095	1.090
Selected - Incremental	300.000	3.000	1.950	1.475	1.225	1.175	1.175	1.150	1.125	1.100	1.095	1.095
Selected - Cumulative	50,506.703	168.356	56.119	28.779	19.511	15.927	13.555	11.536	10.032	8.917	8.106	7.403

Paid Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth -----	150:162 -----	162:174 -----	174:186 -----	186:198 -----	198:210 -----	210:222 -----	222:234 -----	234:246 -----	246:258 -----	258:270 -----	270:282 -----	282:294 -----
1989	1.039	1.046	1.044	1.043	1.041	1.035	1.028	1.019	1.020	1.028	1.030	1.033
1990	1.079	1.102	1.112	1.087	1.073	1.028	1.027	1.023	1.031	1.027	1.031	1.054
1991	1.069	1.061	1.069	1.064	1.177	1.156	1.148	1.105	1.081	1.178	1.080	1.080
1992	1.079	1.058	1.061	1.061	1.069	1.069	1.085	1.066	1.066	1.091	1.073	1.070
1993	1.104	1.078	1.059	1.058	1.050	1.050	1.052	1.053	1.062	1.050	1.047	1.041
1994	1.016	1.015	1.033	1.025	1.027	1.023	1.024	1.043	1.033	1.032	1.032	1.036
1995	1.143	1.015	1.106	1.266	1.053	1.066	1.086	1.089	1.073	1.079	1.054	
1996	1.057	1.078	1.067	1.063	1.044	1.059	1.041	1.047	1.050	1.050		
1997	1.141	1.086	1.083	1.130	1.068	1.055	1.054	1.055	1.049			
1998	1.115	1.091	1.090	1.100	1.084	1.078	1.077	1.071				
1999	1.081	1.058	1.069	1.061	1.040	1.044	1.027					
2000	1.059	1.072	1.062	1.052	1.058	1.052						
2001	1.077	1.080	1.072	1.061	1.056							
2002	1.090	1.084	1.077	1.069								
2003	1.099	1.091	1.080									
2004	1.063	1.065										
2005	1.081											
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Simple Avg. - Incremental	1.082	1.067	1.072	1.081	1.065	1.060	1.059	1.057	1.052	1.067	1.050	1.052
Wtd Avg. All - Incremental	1.083	1.069	1.071	1.077	1.059	1.057	1.055	1.056	1.051	1.061	1.049	1.049
Wtd Latest Five - Incremental	1.083	1.080	1.072	1.073	1.063	1.060	1.058	1.063	1.055	1.060	1.055	1.053
Wtd Latest Three - Incremental	1.080	1.081	1.076	1.064	1.049	1.062	1.056	1.061	1.056	1.055	1.046	1.049
Wtd Avg. All - Cumulative	6.766	6.248	5.843	5.458	5.067	4.785	4.528	4.291	4.062	3.864	3.642	3.472
Wtd Latest Five - Cumulative	7.008	6.472	5.996	5.591	5.212	4.903	4.625	4.373	4.114	3.900	3.679	3.486
Selected Incremental - Prior 6/30/17	1.075	1.070	1.070	1.060	1.055	1.055	1.055	1.050	1.050	1.050	1.045	1.045
Selected - Incremental	1.080	1.070	1.072	1.065	1.060	1.060	1.055	1.060	1.055	1.060	1.050	1.050
Selected - Cumulative	6.761	6.260	5.850	5.458	5.124	4.834	4.561	4.323	4.078	3.866	3.647	3.473

Paid Loss & ALAE - Adjusted to Birth Year Cost Basis  
 Period to Period Development Factors

Year of Birth -----	294:306 -----	306:318 -----	318:330 -----	330:342 -----	342:354 -----	354:Ult. -----
1989	1.040	1.041	1.036	1.028	1.021	
1990	1.047	1.034	1.031	1.036		
1991	1.067	1.065	1.072			
1992	1.067	1.068				
1993	1.041					
1994						
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Simple Avg. - Incremental	1.052	1.052	1.046	1.032	1.021	
Wtd Avg. All - Incremental	1.050	1.053	1.045	1.030	1.021	
Wtd Latest Five - Incremental	1.050	1.053	1.045	1.030	1.021	
Wtd Latest Three - Incremental	1.053	1.060	1.045	1.030	1.021	
Wtd Avg. All - Cumulative	3.310	3.153	2.993	2.864	2.780	
Wtd Latest Five - Cumulative	3.310	3.153	2.993	2.864	2.780	
Selected Incremental - Prior 6/30/17	1.045	1.045	1.035	1.030	3.000	
Selected - Incremental	1.050	1.053	1.045	1.030	1.020	2.725
Selected - Cumulative	3.308	3.150	2.992	2.863	2.780	2.725

**Incremental Paid Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138
1989			713,531	798,626	892,660	832,407	412,970	400,720	336,392	494,077	325,998	298,946
1990		124,200	271,951	573,276	24,734	298,156	199,509	112,296	97,518	81,332	69,274	58,310
1991	-	214,799	9,602	128,267	354,103	280,816	94,724	86,633	37,721	43,959	99,024	94,355
1992	-	14,653	257,616	868,120	825,729	348,946	299,126	245,542	236,217	198,153	203,301	225,279
1993	-	8,641	357,271	750,649	600,869	812,557	948,520	673,744	648,736	787,806	752,597	595,095
1994	-	201,830	847,263	335,268	376,921	743,866	274,715	298,040	255,345	143,695	55,864	263,850
1995	-	4,058	232,597	528,909	405,217	66,917	188,405	72,872	128,964	158,048	231,940	650,765
1996	-	110,362	596,743	256,255	472,425	431,448	615,639	338,137	254,665	301,221	304,082	248,661
1997	-	15,751	700,567	318,228	238,374	634,375	490,031	379,984	240,111	323,026	252,558	430,390
1998	-	200,705	653,950	928,059	626,750	467,336	432,834	1,297,430	540,467	650,125	539,583	744,892
1999	-	643,090	458,894	355,273	659,451	434,853	411,273	360,785	964,181	556,232	562,413	540,568
2000	-	571,446	307,198	566,402	481,359	197,011	192,438	142,094	149,240	146,043	167,981	231,970
2001	-	232,270	298,626	802,409	312,776	404,684	865,769	348,875	256,304	218,905	273,735	235,397
2002	-	228,372	592,733	774,660	697,006	670,222	852,241	1,134,357	758,840	783,580	722,872	888,189
2003	-	217,775	267,469	123,686	117,714	437,982	390,571	127,749	168,656	236,608	232,346	237,697
2004	-	125,611	373,380	566,942	432,972	419,723	228,163	407,793	232,864	180,205	271,225	309,210
2005	-	3,432	203,807	718,869	745,386	608,034	933,400	665,174	400,623	402,627	361,104	380,987
2006	-	27,594	422,927	286,590	885,994	708,944	1,551,708	660,991	531,624	502,401	558,483	591,139
2007	-	115,568	579,650	791,306	922,253	771,017	868,521	765,979	790,127	746,260	776,874	673,782
2008	-	117,704	346,509	516,724	593,601	304,339	351,535	563,088	534,821	607,429	619,810	
2009	-	477,822	568,611	955,265	844,208	485,790	553,152	752,489	1,307,244	572,811		
2010	-	353,949	725,364	408,921	423,015	209,387	163,212	236,041	178,864			
2011	813	92,275	291,115	922,170	654,867	789,917	602,479	565,951				
2012	58	49,957	371,116	768,480	627,957	350,475	262,177					
2013	-	321,660	679,633	1,155,739	692,441	563,378						
2014	-	277,162	1,085,489	753,641	1,452,208							
2015	-	3,639	734,304	987,074								
2016	859	377,680	142,692									
2017	-	417,160										
2018	1,406											

Notes: (a) Historical cost level incremental loss payments by birth year and maturity as shown in Exhibit IX, Sheets 3a, 3b and 3c are adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 7a, 7b and 7c.



**Incremental Paid Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	150	162	174	186	198	210	222	234	246	258	270	282
1989	1,150,320	262,898	316,554	315,111	325,975	322,333	289,795	238,522	166,878	175,790	253,681	279,853
1990	94,228	158,517	221,600	266,473	231,682	210,943	85,227	85,697	76,146	103,843	91,385	108,537
1991	120,261	108,031	101,362	121,830	121,773	356,784	370,871	405,039	331,816	282,852	671,667	356,512
1992	329,632	320,264	252,174	282,111	301,406	360,382	386,190	504,635	423,352	453,053	664,894	587,448
1993	666,813	787,353	652,669	532,834	555,343	511,094	537,290	576,436	621,340	770,072	655,530	646,691
1994	409,706	67,292	63,402	144,436	111,839	125,888	107,721	114,932	213,111	168,022	171,917	173,867
1995	220,979	412,786	48,609	356,881	984,592	248,042	326,187	452,841	510,305	453,196	529,729	389,958
1996	315,986	241,233	351,364	323,096	323,434	239,456	337,877	247,888	299,107	327,479	346,410	
1997	415,970	624,314	433,537	456,368	774,119	457,567	398,037	409,040	435,885	414,483		
1998	685,701	890,033	785,351	850,919	1,027,103	950,422	954,936	1,018,900	1,011,249			
1999	632,277	532,388	412,111	515,862	492,620	337,188	389,242	252,088				
2000	180,119	196,535	254,243	236,457	210,224	245,517	234,385					
2001	322,310	353,530	395,438	382,488	346,664	336,169						
2002	1,057,341	821,928	836,699	827,669	807,665							
2003	379,610	289,963	294,931	280,208								
2004	221,670	236,227	259,793									
2005	369,415	468,120										
2006	574,283											
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Notes: (a) Historical cost level incremental loss payments by birth year and maturity as shown in Exhibit IX, Sheets 3a, 3b and 3c are adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 7a, 7b and 7c.

**Incremental Paid Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	294	306	318	330	342	354
1989	314,322	397,146	422,078	389,805	311,724	244,695
1990	195,851	181,858	136,287	130,224	155,745	
1991	381,187	345,193	356,573	420,670		
1992	600,327	611,348	668,000			
1993	588,643	611,051				
1994	206,804					
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Notes: (a) Historical cost level incremental loss payments by birth year and maturity as shown in Exhibit IX, Sheets 3a, 3b and 3c are adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 7a, 7b and 7c.

**Case Outstanding Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138
1989			15,897,396	17,755,904	22,994,394	20,663,898	11,619,093	8,366,235	12,409,797	13,497,717	13,646,875	11,326,590
1990		5,999,211	15,344,888	21,371,088	17,431,982	14,836,734	14,618,078	14,553,479	11,279,441	10,781,698	10,897,563	11,363,043
1991	-	4,875,524	11,394,968	8,395,578	6,792,219	6,485,846	6,899,375	6,642,208	6,465,530	6,961,943	7,022,289	11,073,385
1992	-	10,254,487	12,434,718	15,152,054	15,307,953	15,735,008	13,067,045	13,414,582	13,759,751	13,072,290	16,954,814	18,203,718
1993	-	6,025,741	15,237,803	19,322,541	22,765,096	22,711,910	29,894,233	31,571,124	50,450,225	50,514,642	44,988,849	41,582,702
1994	-	3,404,117	8,320,526	5,555,312	6,296,581	9,529,451	14,984,532	15,017,916	12,998,782	6,653,606	6,230,878	6,541,142
1995	-	298,596	4,174,800	9,283,928	12,493,289	12,662,191	12,827,819	18,095,605	17,889,541	18,430,341	18,802,858	21,088,779
1996	-	1,509,757	5,441,830	7,053,125	7,219,919	20,860,743	23,574,719	21,373,614	21,679,362	25,913,659	24,698,636	27,422,882
1997	-	3,646,664	13,457,674	13,593,483	16,986,381	21,794,709	24,785,731	23,101,746	20,376,991	23,264,023	22,752,717	22,190,981
1998	-	9,617,007	14,518,072	20,406,044	26,110,903	31,398,284	34,991,518	33,242,786	35,633,909	39,740,714	40,718,990	41,374,673
1999	-	8,909,404	9,333,987	17,911,249	21,003,772	24,240,046	23,160,605	19,292,868	19,491,623	21,579,747	21,153,045	16,713,573
2000	-	9,779,211	20,358,281	21,379,791	18,466,000	14,904,463	12,594,638	13,636,589	12,828,672	12,864,081	16,373,546	15,042,900
2001	-	29,051	9,057,536	13,911,879	8,731,678	12,773,871	14,446,625	16,287,807	15,411,831	15,188,153	16,745,547	14,964,165
2002	-	10,300,760	17,355,870	25,151,416	23,204,432	34,070,178	35,946,024	42,224,795	52,826,485	49,656,151	57,055,588	54,998,077
2003	-	113,151	26,285	6,343,635	8,594,446	9,570,379	7,239,528	8,158,017	10,184,242	10,866,815	10,301,734	9,428,457
2004	-	142,174	5,112,040	11,555,966	17,971,117	22,446,018	21,818,614	17,016,423	17,251,073	15,707,826	16,169,467	15,967,446
2005	-	41,171	8,670,463	26,491,071	27,546,361	35,281,287	42,923,363	37,387,837	36,659,971	25,473,726	21,534,469	20,659,876
2006	-	8,482,561	7,820,704	17,369,362	28,479,682	38,599,740	39,566,428	35,872,101	34,983,584	36,334,969	36,246,694	32,152,623
2007	-	139,449	11,720,726	20,162,207	24,827,697	39,297,239	34,831,241	30,942,900	30,641,172	29,140,387	26,077,500	24,156,552
2008	-	6,810,623	18,536,351	38,807,386	40,888,476	41,054,518	42,430,173	44,999,661	45,936,028	41,737,965	40,925,208	
2009	-	9,509,921	19,259,754	37,780,615	39,417,711	37,461,942	36,846,699	38,816,626	43,600,860	45,024,299		
2010	-	5,615,226	13,734,769	22,108,328	25,490,731	22,478,079	21,748,736	20,950,345	22,228,492			
2011	2,669,187	13,085,109	18,551,096	30,782,393	34,932,066	37,391,925	37,961,897	38,089,100				
2012	3,639,942	7,677,313	20,664,793	32,559,824	26,261,864	19,842,525	23,028,419					
2013	25,000	13,287,051	22,222,243	18,419,899	25,989,988	26,310,447						
2014	-	21,218,313	26,836,865	35,514,273	34,670,331							
2015	-	4,898,062	13,215,062	30,681,432								
2016	2,869,141	59,946	6,446,407									
2017	-	6,471,773										
2018	2,818,594											

Notes: (a) Historical cost level case outstanding by birth year and maturity as shown in Exhibit IX, Sheets 4a, 4b and 4c is adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 8a, 8b and 8c.

**Case Outstanding Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	150	162	174	186	198	210	222	234	246	258	270	282
1989	8,579,335	14,564,139	9,944,874	10,275,777	12,159,019	12,409,577	15,912,680	15,153,663	13,999,604	12,149,964	12,361,484	11,585,377
1990	13,832,246	16,521,232	15,666,318	16,136,834	16,095,718	13,088,269	9,277,243	8,999,385	7,739,971	5,269,568	5,221,712	5,342,059
1991	11,506,442	10,764,699	12,855,503	13,157,482	14,660,440	17,244,534	16,862,969	15,453,180	14,881,198	15,265,854	17,077,922	14,806,175
1992	19,305,222	19,694,571	25,169,288	32,103,030	31,309,402	31,602,902	31,909,808	31,677,877	31,722,577	33,661,808	30,398,370	28,254,063
1993	43,181,457	44,751,327	38,761,346	36,071,358	30,043,121	27,897,400	28,050,474	23,920,750	24,985,905	20,683,498	20,129,595	19,576,071
1994	7,026,491	7,749,469	8,050,377	9,617,343	8,900,122	9,152,487	10,747,320	11,110,538	10,686,021	10,519,937	10,438,105	9,633,974
1995	20,670,126	20,883,316	21,645,996	22,015,197	19,738,456	18,026,563	16,621,110	17,329,266	16,899,293	16,041,599	15,871,664	16,144,305
1996	24,708,774	24,652,904	22,768,738	22,416,165	14,796,073	16,757,569	15,494,355	15,311,472	14,985,496	16,044,544	15,085,356	
1997	22,151,055	27,923,777	31,297,872	28,915,528	28,117,712	24,444,980	22,752,741	22,035,555	20,724,770	20,095,179		
1998	38,594,283	43,557,686	41,324,094	42,189,042	42,717,073	42,671,102	40,775,852	39,269,863	34,619,600			
1999	19,575,580	16,153,743	15,471,439	15,488,365	12,103,661	12,136,186	10,651,139	10,609,789				
2000	11,309,832	12,080,574	10,860,696	10,830,433	10,432,745	10,380,240	11,251,489					
2001	16,812,298	15,834,672	16,088,485	15,766,627	16,086,436	15,926,397						
2002	47,912,156	46,069,496	45,438,982	41,583,768	39,683,214							
2003	9,413,143	8,874,619	8,537,215	10,103,363								
2004	15,575,470	16,297,689	17,198,744									
2005	20,527,835	19,544,143										
2006	31,459,081											
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Notes: (a) Historical cost level case outstanding by birth year and maturity as shown in Exhibit IX, Sheets 4a, 4b and 4c is adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 8a, 8b and 8c.

**Case Outstanding Loss & ALAE - Adjusted to Birth Year Cost Level (a)**

Year of Birth	294	306	318	330	342	354
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1989	11,734,963	10,106,872	9,001,868	8,791,817	8,135,255	7,733,278
1990	4,496,677	4,066,390	3,925,860	2,899,219	4,203,577	
1991	14,658,169	14,283,713	14,221,201	13,244,472		
1992	27,245,905	26,707,772	26,377,726			
1993	18,764,933	17,582,619				
1994	9,492,006					
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Notes: (a) Historical cost level case outstanding by birth year and maturity as shown in Exhibit IX, Sheets 4a, 4b and 4c is adjusted to birth level cost level using factors shown in Exhibit IX, Sheets 8a, 8b and 8c.





**Incremental Paid Loss & ALAE - Actual**

Year of Birth	294	306	318	330	342	354
1989	464,121	589,700	629,693	584,337	470,841	371,315
1990	285,812	266,651	200,791	193,316	232,277	
1991	550,012	500,466	520,895	617,387		
1992	857,717	880,102	966,129			
1993	834,573	870,371				
1994	290,333					
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**Case Outstanding Loss & ALAE - Actual**

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	16,127,458	13,990,329	12,483,268	12,436,619	11,533,631	10,983,818
1990	6,174,563	5,593,814	5,508,861	4,077,361	5,922,595	
1991	20,029,884	19,909,845	19,867,089	18,536,486		
1992	37,787,943	37,124,523	36,732,914			
1993	25,968,506	24,376,891				
1994	13,106,976					
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Incurred Loss & ALAE - Actual - Without Retroactive Payments

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	27,677,735	26,130,306	25,252,938	25,790,626	25,358,479	25,179,981
1990	10,679,745	10,365,647	10,481,485	9,243,301	11,320,812	
1991	26,645,315	27,025,742	27,503,881	26,790,665		
1992	49,083,411	49,300,093	49,874,613			
1993	44,051,704	43,330,459				
1994	19,829,729					
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Incurred Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth	6:18	18:30	30:42	42:54	54:66	66:78	78:90	90:102	102:114	114:126	126:138	138:150
1989			1.167	1.325	0.946	0.643	0.818	1.354	1.098	1.029	0.898	0.915
1990		2.584	1.426	0.828	0.879	1.003	1.006	0.806	0.971	1.018	1.045	1.197
1991		2.292	0.756	0.862	1.002	1.071	0.981	0.985	1.074	1.023	1.499	1.048
1992		1.243	1.289	1.066	1.048	0.872	1.041	1.040	0.975	1.253	1.076	1.069
1993		2.596	1.316	1.202	1.035	1.327	1.075	1.551	1.019	0.919	0.949	1.092
1994		2.610	0.744	1.165	1.499	1.480	1.023	0.906	0.624	0.966	1.094	1.095
1995		14.630	2.285	1.364	1.021	1.029	1.379	0.999	1.039	1.077	1.151	1.034
1996		3.808	1.308	1.085	2.632	1.151	0.932	1.026	1.235	0.977	1.153	0.959
1997		3.884	1.036	1.253	1.303	1.151	0.955	0.944	1.147	1.032	1.034	1.019
1998		1.572	1.449	1.290	1.206	1.121	1.033	1.086	1.165	1.074	1.034	0.960
1999		1.097	1.862	1.198	1.162	1.019	0.872	1.094	1.154	1.009	0.854	1.163
2000		2.059	1.079	0.897	0.872	0.882	1.125	0.995	1.016	1.244	0.946	0.805
2001		36.579	1.596	0.710	1.441	1.220	1.170	0.971	1.003	1.103	0.928	1.204
2002		1.732	1.541	0.961	1.519	1.118	1.193	1.247	0.963	1.151	1.067	0.908
2003		1.565	14.080	1.402	1.197	0.821	1.124	1.230	1.082	1.054	0.953	1.031
2004		21.410	2.352	1.609	1.258	0.987	0.819	1.028	1.010	1.046	1.006	1.007
2005		208.498	3.224	1.071	1.291	1.234	0.899	1.080	0.739	0.881	0.997	1.011
2006		1.012	2.203	1.671	1.366	1.068	1.012	0.997	1.048	1.029	0.918	0.998
2007		49.814	1.752	1.265	1.564	0.998	0.926	1.016	0.996	0.937	0.964	
2008		2.754	2.102	1.074	1.107	1.048	1.073	1.051	0.930	0.998		
2009		2.041	1.968	1.160	0.971	0.999	1.085	1.142	1.042			
2010		2.493	1.740	1.169	0.898	0.994	0.978	1.064				
2011	4.957	1.575	1.704	1.151	1.107	1.030	1.017					
2012	2.330	2.745	1.601	0.846	0.783	1.159						
2013	548.261	1.710	0.902	1.405	1.032							
2014		1.337	1.337	1.018								
2015		2.852	2.327									
2016	0.154	15.852										
2017												
Simple Avg. - Incremental	138.925	14.531	2.079	1.156	1.206	1.059	1.023	1.073	1.016	1.041	1.030	1.029
Wtd Avg. All - Incremental	18.849	2.177	1.565	1.129	1.153	1.060	1.016	1.089	1.007	1.031	1.008	1.009
Wtd Latest Five - Incremental	16.437	1.968	1.497	1.083	0.967	1.039	1.020	1.054	0.951	0.978	0.961	0.968
Wtd Latest Three - Incremental	4.301	1.856	1.396	1.036	0.985	1.053	1.034	1.088	0.988	0.991	0.953	1.004
Wtd Avg. All - Cumulative		6.848	3.146	2.011	1.780	1.544	1.457	1.433	1.317	1.308	1.269	1.258
Wtd Latest Five - Cumulative		2.992	1.520	1.015	0.937	0.969	0.933	0.914	0.867	0.912	0.933	0.971

Incurred Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth -----	150:162 -----	162:174 -----	174:186 -----	186:198 -----	198:210 -----	210:222 -----	222:234 -----	234:246 -----	246:258 -----	258:270 -----	270:282 -----	282:294 -----
1989	1.408	0.806	1.041	1.157	1.036	1.224	1.008	0.961	0.927	1.027	0.981	1.082
1990	1.184	0.970	1.087	1.019	0.887	0.794	0.988	0.904	0.784	1.010	1.091	0.929
1991	0.955	1.227	1.038	1.156	1.226	1.005	0.954	0.993	1.042	1.225	0.916	1.015
1992	1.073	1.248	1.296	1.026	1.022	1.023	1.012	1.018	1.151	0.941	0.961	1.005
1993	1.055	0.936	0.989	0.882	0.962	1.023	0.912	1.121	0.906	1.005	1.016	0.995
1994	1.105	1.062	1.148	0.958	1.033	1.132	1.105	0.992	1.002	1.020	0.959	1.006
1995	1.068	1.037	1.034	0.956	0.944	1.026	1.061	1.005	0.997	1.018	1.031	
1996	1.010	0.950	1.003	0.735	1.195	0.963	1.005	1.013	1.069	0.973		
1997	1.250	1.121	0.952	1.082	0.911	0.959	1.005	0.971	0.994			
1998	1.133	0.977	1.118	1.036	1.019	0.998	0.992	0.931				
1999	0.892	1.056	1.029	0.872	1.031	0.945	1.012					
2000	1.151	0.941	1.016	1.001	1.015	1.079						
2001	0.975	1.033	1.018	1.034	1.009							
2002	0.983	1.020	0.946	0.980								
2003	0.993	0.997	1.159									
2004	1.052	1.060										
2005	0.981											
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
Simple Avg. - Incremental	1.075	1.028	1.058	0.992	1.022	1.014	1.005	0.991	0.986	1.027	0.994	1.005
Wtd Avg. All - Incremental	1.060	1.017	1.042	0.983	1.010	1.009	0.998	0.993	1.001	1.014	0.985	1.010
Wtd Latest Five - Incremental	0.992	1.017	1.001	0.992	0.993	0.985	1.009	0.970	0.983	0.984	0.979	0.998
Wtd Latest Three - Incremental	1.008	1.026	0.991	0.996	1.018	0.999	0.999	0.959	1.017	1.002	1.009	1.001
Wtd Avg. All - Cumulative	1.247	1.176	1.157	1.110	1.130	1.118	1.108	1.111	1.119	1.117	1.102	1.119
Wtd Latest Five - Cumulative	1.003	1.011	0.995	0.994	1.002	1.009	1.025	1.016	1.047	1.066	1.083	1.105



Incurred Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth -----	294:306 -----	306:318 -----	318:330 -----	330:342 -----	342:354 -----	354:Ult. -----
1989	0.944	0.966	1.021	0.983	0.993	
1990	0.971	1.011	0.882	1.225		
1991	1.014	1.018	0.974			
1992	1.004	1.012				
1993	0.984					
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Simple Avg. - Incremental	0.983	1.002	0.959	1.104	0.993	
Wtd Avg. All - Incremental	0.987	1.003	0.978	1.047	0.993	
Wtd Latest Five - Incremental	0.987	1.003	0.978	1.047	0.993	
Wtd Latest Three - Incremental	0.999	1.013	0.978	1.047	0.993	
Wtd Avg. All - Cumulative	1.108	1.122	1.119	1.145	1.093	1.101
Wtd Latest Five - Cumulative	1.108	1.122	1.119	1.145	1.093	1.101





Paid Loss & ALAE - Actual - Without Retroactive Payments

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	11,550,277	12,139,977	12,769,670	13,354,007	13,824,848	14,196,163
1990	4,505,182	4,771,833	4,972,624	5,165,940	5,398,218	
1991	6,615,431	7,115,897	7,636,792	8,254,179		
1992	11,295,468	12,175,570	13,141,699			
1993	18,083,197	18,953,568				
1994	6,722,752					
1995						
1996						
1997						
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Paid Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth	6:18	18:30	30:42	42:54	54:66	66:78	78:90	90:102	102:114	114:126	126:138	138:150
1989			2.136	1.604	1.356	1.132	1.114	1.087	1.118	1.071	1.061	1.224
1990		3.222	2.476	1.026	1.310	1.160	1.078	1.064	1.050	1.041	1.034	1.053
1991		1.045	1.588	2.034	1.407	1.099	1.083	1.034	1.038	1.084	1.075	1.089
1992		18.838	4.228	1.734	1.181	1.132	1.097	1.086	1.067	1.065	1.068	1.095
1993		42.821	3.073	1.545	1.482	1.383	1.199	1.161	1.170	1.141	1.099	1.102
1994		5.242	1.323	1.277	1.432	1.113	1.111	1.086	1.045	1.017	1.080	1.117
1995		58.897	3.256	1.536	1.058	1.156	1.053	1.090	1.102	1.138	1.345	1.088
1996		6.457	1.366	1.499	1.307	1.339	1.141	1.094	1.103	1.095	1.072	1.086
1997		45.898	1.449	1.234	1.511	1.264	1.164	1.090	1.113	1.080	1.128	1.124
1998		4.290	2.099	1.358	1.199	1.155	1.409	1.122	1.133	1.098	1.140	1.114
1999		1.721	1.328	1.463	1.211	1.167	1.127	1.305	1.136	1.138	1.117	1.124
2000		1.544	1.657	1.341	1.106	1.094	1.064	1.064	1.067	1.073	1.095	1.068
2001		2.300	2.537	1.239	1.253	1.437	1.124	1.092	1.073	1.085	1.068	1.088
2002		3.627	1.960	1.446	1.300	1.296	1.346	1.173	1.154	1.124	1.137	1.144
2003		2.246	1.260	1.198	1.622	1.388	1.092	1.113	1.143	1.124	1.113	1.163
2004		4.008	2.153	1.413	1.322	1.133	1.212	1.101	1.071	1.101	1.105	1.068
2005		61.071	4.505	1.916	1.393	1.437	1.219	1.109	1.099	1.081	1.080	1.072
2006		16.484	1.723	2.308	1.458	1.693	1.176	1.121	1.102	1.104	1.100	1.089
2007		6.696	2.171	1.634	1.327	1.280	1.194	1.168	1.137	1.126	1.098	
2008		3.969	2.125	1.614	1.196	1.191	1.258	1.196	1.187	1.162		
2009		2.201	1.925	1.427	1.173	1.169	1.198	1.289	1.099			
2010		3.068	1.383	1.288	1.111	1.078	1.106	1.073				
2011	115.499	4.149	3.418	1.505	1.407	1.222	1.172					
2012	871.125	8.462	2.835	1.531	1.195	1.123						
2013		3.123	2.162	1.324	1.200							
2014		4.935	1.558	1.693								
2015		204.318	2.344									
2016	443.912	1.379										
2017												
Simple Avg. - Incremental		19.334	2.224	1.507	1.301	1.235	1.162	1.124	1.105	1.097	1.106	1.106
Wtd Avg. All - Incremental		3.448	1.973	1.481	1.284	1.239	1.177	1.136	1.113	1.102	1.104	1.111
Wtd Latest Five - Incremental		3.936	2.182	1.471	1.213	1.161	1.188	1.176	1.121	1.115	1.097	1.107
Wtd Latest Three - Incremental		3.990	1.940	1.512	1.260	1.148	1.166	1.208	1.134	1.127	1.094	1.079
Wtd Avg. All - Cumulative		255.565	74.113	37.560	25.357	19.749	15.942	13.543	11.922	10.709	9.715	8.800
Wtd Latest Five - Cumulative		306.461	77.852	35.671	24.257	19.993	17.220	14.497	12.327	10.995	9.863	8.991

Paid Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth -----	150:162 -----	162:174 -----	174:186 -----	186:198 -----	198:210 -----	210:222 -----	222:234 -----	234:246 -----	246:258 -----	258:270 -----	270:282 -----	282:294 -----
1989	1.042	1.049	1.047	1.047	1.045	1.039	1.032	1.024	1.025	1.036	1.038	1.042
1990	1.086	1.112	1.123	1.096	1.081	1.031	1.034	1.029	1.039	1.034	1.039	1.068
1991	1.075	1.066	1.075	1.071	1.196	1.193	1.179	1.125	1.096	1.209	1.092	1.091
1992	1.085	1.063	1.067	1.068	1.086	1.086	1.104	1.080	1.079	1.109	1.087	1.082
1993	1.111	1.084	1.064	1.071	1.061	1.061	1.063	1.064	1.075	1.060	1.056	1.048
1994	1.017	1.016	1.041	1.031	1.034	1.029	1.030	1.054	1.041	1.040	1.039	1.045
1995	1.153	1.018	1.129	1.318	1.061	1.076	1.099	1.102	1.083	1.090	1.061	
1996	1.069	1.095	1.080	1.075	1.052	1.070	1.048	1.056	1.058	1.059		
1997	1.167	1.100	1.097	1.151	1.078	1.063	1.061	1.062	1.056			
1998	1.134	1.105	1.104	1.114	1.095	1.088	1.087	1.080				
1999	1.094	1.067	1.079	1.070	1.045	1.050	1.031					
2000	1.070	1.085	1.073	1.061	1.067	1.061						
2001	1.089	1.092	1.082	1.069	1.063							
2002	1.098	1.091	1.084	1.076								
2003	1.108	1.100	1.087									
2004	1.069	1.071										
2005	1.086											
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
Simple Avg. - Incremental	1.091	1.076	1.082	1.094	1.074	1.071	1.070	1.068	1.061	1.079	1.059	1.063
Wtd Avg. All - Incremental	1.093	1.078	1.080	1.089	1.068	1.066	1.065	1.067	1.061	1.073	1.059	1.059
Wtd Latest Five - Incremental	1.091	1.089	1.081	1.082	1.072	1.069	1.066	1.073	1.065	1.071	1.065	1.063
Wtd Latest Three - Incremental	1.086	1.088	1.084	1.071	1.056	1.070	1.063	1.070	1.065	1.065	1.054	1.058
Wtd Avg. All - Cumulative	7.919	7.245	6.720	6.221	5.712	5.347	5.014	4.707	4.413	4.158	3.875	3.659
Wtd Latest Five - Cumulative	8.126	7.450	6.844	6.330	5.849	5.456	5.105	4.790	4.465	4.194	3.914	3.674

Paid Loss & ALAE - Actual - Without Retroactive Payments  
 Period to Period Development Factors

Year of Birth -----	294:306 -----	306:318 -----	318:330 -----	330:342 -----	342:354 -----	354:Ult. -----
1989	1.051	1.052	1.046	1.035	1.027	
1990	1.059	1.042	1.039	1.045		
1991	1.076	1.073	1.081			
1992	1.078	1.079				
1993	1.048					
1994						
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2012						
2013						
2014						
2015						
2016						
2017						
Simple Avg. - Incremental	1.062	1.062	1.055	1.040	1.027	
Wtd Avg. All - Incremental	1.060	1.064	1.055	1.038	1.027	
Wtd Latest Five - Incremental	1.060	1.064	1.055	1.038	1.027	
Wtd Latest Three - Incremental	1.063	1.070	1.055	1.038	1.027	
Wtd Avg. All - Cumulative	3.455	3.260	3.064	2.904	2.798	2.725
Wtd Latest Five - Cumulative	3.455	3.260	3.064	2.904	2.798	2.725

**Incremental Paid Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	1989 6/30/1989	1990 6/30/1990	1991 6/30/1991	1992 6/30/1992	1993 6/30/1993	1994 6/30/1994	1995 6/30/1995	1996 6/30/1996	1997 6/30/1997	1998 6/30/1998	1999 6/30/1999	2000 6/30/2000
Assumptions:												
I. Incremental Paid Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	1.75%	1.75%	1.49%	1.46%	1.62%	1.30%	1.00%	1.09%	0.91%	0.92%	0.97%	0.98%
B. Accident Year - 7/1 to 6/30 (b)	1.75%	1.75%	1.62%	1.47%	1.54%	1.46%	1.15%	1.05%	1.00%	0.92%	0.94%	0.97%
II. Case O/S Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	0.81%	0.81%	0.53%	0.47%	0.42%	0.39%	0.35%	0.37%	0.24%	0.26%	0.35%	0.42%
B. Accident Year - 7/1 to 6/30	0.81%	0.81%	0.67%	0.50%	0.44%	0.40%	0.37%	0.36%	0.30%	0.25%	0.30%	0.38%
III. Incurred Inflation Per Year - Wtd Avg. of Pd & O/S - ( 10 % / 90 %)												
A. Accident Year - 1/1 to 12/31	0.90%	0.90%	0.63%	0.57%	0.54%	0.48%	0.41%	0.44%	0.31%	0.32%	0.41%	0.47%
B. Accident Year - 7/1 to 6/30	0.90%	0.90%	0.76%	0.60%	0.55%	0.51%	0.45%	0.43%	0.37%	0.32%	0.37%	0.44%

Year of Birth -----	6 -----	18 -----	30 -----	42 -----	54 -----	66 -----	78 -----	90 -----	102 -----	114 -----	126 -----	138 -----
1989	1.000	1.017	1.034	1.049	1.065	1.081	1.093	1.105	1.116	1.126	1.137	1.148
1990	1.000	1.016	1.031	1.047	1.062	1.075	1.086	1.097	1.107	1.117	1.128	1.139
1991	1.000	1.015	1.030	1.045	1.057	1.068	1.079	1.089	1.099	1.110	1.121	1.134
1992	1.000	1.015	1.030	1.042	1.053	1.063	1.073	1.083	1.094	1.105	1.117	1.130
1993	1.000	1.015	1.026	1.037	1.047	1.057	1.067	1.077	1.088	1.100	1.113	1.126
1994	1.000	1.011	1.022	1.032	1.042	1.052	1.062	1.073	1.085	1.097	1.110	1.125
1995	1.000	1.010	1.021	1.030	1.040	1.050	1.060	1.072	1.084	1.097	1.113	1.126
1996	1.000	1.010	1.019	1.029	1.039	1.049	1.061	1.073	1.086	1.101	1.114	1.127
1997	1.000	1.009	1.019	1.029	1.039	1.051	1.062	1.075	1.090	1.103	1.116	1.128
1998	1.000	1.009	1.019	1.030	1.041	1.053	1.065	1.080	1.093	1.106	1.117	1.269
1999	1.000	1.010	1.020	1.031	1.043	1.055	1.070	1.083	1.096	1.107	1.257	1.268
2000	1.000	1.010	1.022	1.033	1.045	1.060	1.073	1.085	1.096	1.245	1.256	1.267
2001	1.000	1.011	1.022	1.035	1.049	1.062	1.074	1.085	1.232	1.243	1.254	1.265
2002	1.000	1.011	1.023	1.038	1.050	1.062	1.073	1.219	1.229	1.240	1.251	1.259
2003	1.000	1.012	1.026	1.039	1.051	1.061	1.205	1.216	1.226	1.237	1.246	1.253
2004	1.000	1.014	1.026	1.038	1.049	1.191	1.201	1.212	1.223	1.231	1.238	1.244
2005	1.000	1.012	1.024	1.034	1.174	1.185	1.195	1.206	1.214	1.221	1.226	1.232
2006	1.000	1.012	1.022	1.161	1.171	1.181	1.191	1.199	1.206	1.212	1.218	1.227
2007	1.000	1.010	1.147	1.157	1.167	1.178	1.186	1.192	1.198	1.204	1.213	1.219
2008	1.000	1.136	1.145	1.156	1.166	1.174	1.180	1.186	1.192	1.201	1.206	
2009	1.000	1.009	1.018	1.027	1.034	1.039	1.044	1.049	1.057	1.062		
2010	1.000	1.009	1.018	1.025	1.030	1.035	1.040	1.048	1.053			
2011	1.000	1.009	1.016	1.021	1.026	1.031	1.039	1.044				
2012	1.000	1.007	1.012	1.017	1.022	1.030	1.035					
2013	1.000	1.006	1.010	1.015	1.023	1.028						
2014	1.000	1.005	1.010	1.017	1.022							
2015	1.000	1.005	1.012	1.017								
2016	1.000	1.008	1.012									
2017	1.000	1.005										
2018	1.000											

Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.



**Incremental Paid Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	2001 6/30/2001	2002 6/30/2002	2003 6/30/2003	2004 6/30/2004	2005 6/30/2005	2006 6/30/2006	2007 6/30/2007	2008 6/30/2008	2009 6/30/2009	2010 6/30/2010	2011 6/30/2011	2012 6/30/2012
<b>Assumptions:</b>												
<b>I. Incremental Paid Inflation Per Year</b>												
A. Accident Year - 1/1 to 12/31 (a)	1.05%	1.22%	0.99%	1.42%	1.41%	0.99%	1.32%	6.50%	7.62%	0.78%	1.00%	0.78%
B. Accident Year - 7/1 to 6/30 (b)	1.01%	1.13%	1.10%	1.20%	1.41%	1.20%	1.15%	1.03%	13.56%	0.86%	0.89%	0.89%
<b>II. Case O/S Inflation Per Year</b>												
A. Accident Year - 1/1 to 12/31 (a)	0.30%	0.38%	0.29%	4.94%	0.87%	4.86%	0.50%	4.55%	0.35%	0.29%	0.42%	9.83%
B. Accident Year - 7/1 to 6/30	0.36%	0.34%	0.33%	0.29%	4.94%	0.87%	4.86%	4.55%	0.35%	0.32%	0.36%	0.42%
<b>III. Incurred Inflation Per Year - Wtd Avg. of Pd &amp; O/S - ( 10 % / 90 %)</b>												
A. Accident Year - 1/1 to 12/31	0.38%	0.46%	0.36%	4.59%	0.92%	4.47%	0.58%	4.75%	1.08%	0.34%	0.48%	8.92%
B. Accident Year - 7/1 to 6/30	0.42%	0.42%	0.41%	0.38%	4.59%	0.90%	4.49%	4.20%	1.67%	0.37%	0.41%	0.47%

Year of Birth	150	162	174	186	198	210	222	234	246	258	270	282
1989	1.159	1.172	1.185	1.200	1.216	1.231	1.245	1.258	1.429	1.441	1.454	1.467
1990	1.152	1.165	1.179	1.196	1.210	1.224	1.236	1.404	1.416	1.429	1.442	1.451
1991	1.146	1.160	1.177	1.191	1.204	1.217	1.382	1.394	1.406	1.419	1.428	1.436
1992	1.143	1.159	1.173	1.187	1.199	1.362	1.373	1.386	1.398	1.407	1.415	1.422
1993	1.142	1.156	1.169	1.181	1.341	1.353	1.365	1.377	1.386	1.394	1.400	1.407
1994	1.139	1.152	1.164	1.322	1.333	1.345	1.357	1.366	1.374	1.380	1.387	1.397
1995	1.139	1.151	1.307	1.318	1.330	1.342	1.351	1.358	1.365	1.371	1.382	1.388
1996	1.139	1.293	1.304	1.316	1.328	1.337	1.344	1.350	1.357	1.367	1.374	
1997	1.280	1.291	1.303	1.315	1.323	1.331	1.337	1.343	1.354	1.360		
1998	1.280	1.291	1.303	1.311	1.319	1.325	1.331	1.341	1.348			
1999	1.279	1.290	1.299	1.306	1.313	1.319	1.329	1.335				
2000	1.278	1.287	1.294	1.300	1.306	1.316	1.322					
2001	1.274	1.281	1.287	1.293	1.303	1.309						
2002	1.266	1.273	1.279	1.288	1.294							
2003	1.259	1.265	1.274	1.280								
2004	1.250	1.259	1.265									
2005	1.242	1.247										
2006	1.233											
2007												
2008												
2009												
2010												
2011												
2012												
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2014												
2015												
2016												
2017												
2018												

Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.

**Incremental Paid Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	2013 6/30/2013	2014 6/30/2014	2015 6/30/2015	2016 6/30/2016	2017 6/30/2017	2018 6/30/2018
Assumptions:						
I. Incremental Paid Inflation Per Year						
A. Accident Year - 1/1 to 12/31 (a)	0.57%	0.55%	0.40%	0.69%	0.59%	0.34%
B. Accident Year - 7/1 to 6/30 (b)	0.67%	0.56%	0.47%	0.48%	0.76%	0.46%
II. Case O/S Inflation Per Year						
A. Accident Year - 1/1 to 12/31 (a)	0.72%	0.19%	0.17%	2.01%	0.22%	0.14%
B. Accident Year - 7/1 to 6/30	9.83%	0.72%	0.18%	2.01%	0.22%	0.18%
III. Incurred Inflation Per Year - Wtd Avg. of Pd & O/S - ( 10 % / 90 %)						
A. Accident Year - 1/1 to 12/31	0.71%	0.23%	0.19%	1.87%	0.26%	0.16%
B. Accident Year - 7/1 to 6/30	8.91%	0.71%	0.21%	1.85%	0.28%	0.21%

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	1.477	1.485	1.492	1.499	1.510	1.517
1990	1.459	1.466	1.473	1.484	1.491	
1991	1.443	1.450	1.461	1.468		
1992	1.429	1.440	1.446			
1993	1.418	1.424				
1994	1.404					
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Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.

**Case Outstanding Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	1989 6/30/1989	1990 6/30/1990	1991 6/30/1991	1992 6/30/1992	1993 6/30/1993	1994 6/30/1994	1995 6/30/1995	1996 6/30/1996	1997 6/30/1997	1998 6/30/1998	1999 6/30/1999	2000 6/30/2000
Assumptions:												
I. Incremental Paid Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	1.75%	1.75%	1.49%	1.46%	1.62%	1.30%	1.00%	1.09%	0.91%	0.92%	0.97%	0.98%
B. Accident Year - 7/1 to 6/30 (b)	1.75%	1.75%	1.62%	1.47%	1.54%	1.46%	1.15%	1.05%	1.00%	0.92%	0.94%	0.97%
II. Case O/S Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	0.81%	0.81%	0.53%	0.47%	0.42%	0.39%	0.35%	0.37%	0.24%	0.26%	0.35%	0.42%
B. Accident Year - 7/1 to 6/30	0.81%	0.81%	0.67%	0.50%	0.44%	0.40%	0.37%	0.36%	0.30%	0.25%	0.30%	0.38%
III. Incurred Inflation Per Year - Wtd Avg. of Pd & O/S - ( 10 % / 90 %)												
A. Accident Year - 1/1 to 12/31	0.90%	0.90%	0.63%	0.57%	0.54%	0.48%	0.41%	0.44%	0.31%	0.32%	0.41%	0.47%
B. Accident Year - 7/1 to 6/30	0.90%	0.90%	0.76%	0.60%	0.55%	0.51%	0.45%	0.43%	0.37%	0.32%	0.37%	0.44%

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138
1989	1.000	1.008	1.015	1.020	1.024	1.029	1.032	1.036	1.039	1.042	1.045	1.049
1990	1.000	1.007	1.012	1.016	1.020	1.024	1.028	1.031	1.033	1.037	1.041	1.044
1991	1.000	1.005	1.009	1.014	1.017	1.021	1.024	1.027	1.030	1.034	1.037	1.041
1992	1.000	1.004	1.008	1.012	1.016	1.019	1.021	1.025	1.028	1.032	1.036	1.039
1993	1.000	1.004	1.008	1.011	1.014	1.017	1.020	1.024	1.028	1.031	1.034	1.037
1994	1.000	1.004	1.007	1.010	1.013	1.016	1.020	1.023	1.027	1.030	1.033	1.037
1995	1.000	1.004	1.007	1.009	1.012	1.016	1.020	1.023	1.027	1.029	1.080	1.090
1996	1.000	1.003	1.006	1.009	1.012	1.016	1.019	1.023	1.026	1.077	1.086	1.139
1997	1.000	1.002	1.006	1.009	1.013	1.016	1.020	1.023	1.073	1.083	1.135	1.187
1998	1.000	1.003	1.007	1.010	1.014	1.017	1.020	1.071	1.080	1.132	1.184	1.188
1999	1.000	1.004	1.007	1.011	1.014	1.017	1.067	1.077	1.129	1.180	1.184	1.188
2000	1.000	1.004	1.007	1.010	1.013	1.063	1.073	1.125	1.176	1.180	1.184	1.188
2001	1.000	1.003	1.007	1.010	1.060	1.069	1.121	1.172	1.176	1.179	1.184	1.189
2002	1.000	1.003	1.006	1.056	1.065	1.117	1.168	1.172	1.175	1.180	1.185	1.301
2003	1.000	1.003	1.052	1.062	1.113	1.164	1.168	1.172	1.176	1.181	1.297	1.306
2004	1.000	1.049	1.059	1.110	1.160	1.164	1.168	1.172	1.177	1.293	1.302	1.305
2005	1.000	1.009	1.058	1.106	1.110	1.113	1.117	1.122	1.232	1.241	1.243	1.268
2006	1.000	1.049	1.096	1.100	1.104	1.108	1.112	1.222	1.230	1.233	1.257	1.260
2007	1.000	1.046	1.049	1.053	1.056	1.061	1.165	1.173	1.176	1.199	1.202	1.204
2008	1.000	1.004	1.007	1.010	1.015	1.114	1.122	1.124	1.147	1.149	1.152	
2009	1.000	1.003	1.007	1.011	1.110	1.118	1.120	1.143	1.145	1.148		
2010	1.000	1.004	1.008	1.107	1.115	1.117	1.139	1.142	1.144			
2011	1.000	1.004	1.103	1.111	1.113	1.135	1.138	1.140				
2012	1.000	1.098	1.106	1.108	1.130	1.133	1.135					
2013	1.000	1.007	1.009	1.029	1.032	1.033						
2014	1.000	1.002	1.022	1.024	1.026							
2015	1.000	1.020	1.022	1.024								
2016	1.000	1.002	1.004									
2017	1.000	1.002										
2018	1.000											

Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.

**Case Outstanding Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	2001 6/30/2001	2002 6/30/2002	2003 6/30/2003	2004 6/30/2004	2005 6/30/2005	2006 6/30/2006	2007 6/30/2007	2008 6/30/2008	2009 6/30/2009	2010 6/30/2010	2011 6/30/2011	2012 6/30/2012
Assumptions:												
I. Incremental Paid Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	1.05%	1.22%	0.99%	1.42%	1.41%	0.99%	1.32%	6.50%	7.62%	0.78%	1.00%	0.78%
B. Accident Year - 7/1 to 6/30 (b)	1.01%	1.13%	1.10%	1.20%	1.41%	1.20%	1.15%	1.03%	13.56%	0.86%	0.89%	0.89%
II. Case O/S Inflation Per Year												
A. Accident Year - 1/1 to 12/31 (a)	0.30%	0.38%	0.29%	4.94%	0.87%	4.86%	0.50%	4.55%	0.35%	0.29%	0.42%	9.83%
B. Accident Year - 7/1 to 6/30	0.36%	0.34%	0.33%	0.29%	4.94%	0.87%	4.86%	4.55%	0.35%	0.32%	0.36%	0.42%
III. Incurred Inflation Per Year - Wtd Avg. of Pd & O/S - ( 10 % / 90 % )												
A. Accident Year - 1/1 to 12/31	0.38%	0.46%	0.36%	4.59%	0.92%	4.47%	0.58%	4.75%	1.08%	0.34%	0.48%	8.92%
B. Accident Year - 7/1 to 6/30	0.42%	0.42%	0.41%	0.38%	4.59%	0.90%	4.49%	4.20%	1.67%	0.37%	0.41%	0.47%

Year of Birth	150	162	174	186	198	210	222	234	246	258	270	282
1989	1.053	1.056	1.060	1.063	1.115	1.125	1.180	1.233	1.238	1.242	1.246	1.251
1990	1.048	1.051	1.054	1.106	1.116	1.170	1.223	1.228	1.232	1.236	1.241	1.363
1991	1.044	1.047	1.099	1.109	1.162	1.215	1.220	1.223	1.228	1.233	1.354	1.364
1992	1.042	1.094	1.103	1.157	1.209	1.213	1.217	1.222	1.227	1.347	1.357	1.360
1993	1.089	1.098	1.151	1.204	1.208	1.212	1.216	1.221	1.341	1.351	1.354	1.381
1994	1.094	1.147	1.199	1.203	1.207	1.211	1.217	1.336	1.346	1.348	1.375	1.378
1995	1.143	1.195	1.199	1.203	1.207	1.212	1.331	1.341	1.343	1.370	1.373	1.376
1996	1.190	1.195	1.198	1.203	1.208	1.326	1.336	1.338	1.365	1.368	1.371	
1997	1.191	1.195	1.199	1.204	1.322	1.332	1.334	1.361	1.364	1.367		
1998	1.192	1.196	1.201	1.319	1.329	1.331	1.358	1.361	1.363			
1999	1.192	1.197	1.315	1.325	1.327	1.354	1.357	1.359				
2000	1.193	1.310	1.320	1.322	1.349	1.352	1.354					
2001	1.306	1.315	1.317	1.344	1.347	1.349						
2002	1.310	1.313	1.339	1.342	1.345							
2003	1.309	1.335	1.338	1.340								
2004	1.331	1.334	1.336									
2005	1.271	1.273										
2006	1.262											
2007												
2008												
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2013												
2014												
2015												
2016												
2017												
2018												

Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.

**Case Outstanding Loss & ALAE - Inflation Factors - Based on Accident Year Factors**

Year of Birth C.Y Ending	2013 6/30/2013	2014 6/30/2014	2015 6/30/2015	2016 6/30/2016	2017 6/30/2017	2018 6/30/2018
Assumptions:						
I. Incremental Paid Inflation Per Year						
A. Accident Year - 1/1 to 12/31 (a)	0.57%	0.55%	0.40%	0.69%	0.59%	0.34%
B. Accident Year - 7/1 to 6/30 (b)	0.67%	0.56%	0.47%	0.48%	0.76%	0.46%
II. Case O/S Inflation Per Year						
A. Accident Year - 1/1 to 12/31 (a)	0.72%	0.19%	0.17%	2.01%	0.22%	0.14%
B. Accident Year - 7/1 to 6/30	9.83%	0.72%	0.18%	2.01%	0.22%	0.18%
III. Incurred Inflation Per Year - Wtd Avg. of Pd & O/S - ( 10 % / 90 %)						
A. Accident Year - 1/1 to 12/31	0.71%	0.23%	0.19%	1.87%	0.26%	0.16%
B. Accident Year - 7/1 to 6/30	8.91%	0.71%	0.21%	1.85%	0.28%	0.21%

Year of Birth -----	294 -----	306 -----	318 -----	330 -----	342 -----	354 -----
1989	1.374	1.384	1.387	1.415	1.418	1.420
1990	1.373	1.376	1.403	1.406	1.409	
1991	1.366	1.394	1.397	1.400		
1992	1.387	1.390	1.393			
1993	1.384	1.386				
1994	1.381					
1995						
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Note: (a) See Appendix B, Exhibits I and II.

(b) These are interpolated inflation factors. Except for calendar years ending 6/30/08, 6/30/09, 6/30/10, 6/30/16 and 6/30/17, they are not interpolated due to the change in hourly rate for nursing care by parents and LPN from \$9.70 to \$15.00 and from \$24.45 to \$25.40 occurred for paid effective July 1, 2008 and July 1, 2016, respectively.

Ultimate Accepted Claim Counts  
Evaluated As of June 30, 2018

Year of Birth	Reported Accepted Claim Counts				Ratio of AAD & AAA to the Combined [(3)+(4)]/(5)	IBNR Accepted Claim Counts		Ultimate Accepted Claim Counts AAD & AAA Only (3)+(4)+(9)
	DA (a)	AAD (b)	AAA (c)	Combined (2)+(3)+(4)		All Accepted Claim Counts	AAD & AAA Only (8) x (7)	
	(2)	(3)	(4)	(5)		(8)	(9)	
1989	4	7	4	15	73%	-	-	11
1990	3	4	3	10	70%	-	-	7
1991	4	-	4	8	50%	-	-	4
1992	1	4	9	14	93%	-	-	13
1993	2	5	8	15	87%	-	-	13
1994	9	3	4	16	44%	-	-	7
1995	5	1	5	11	55%	-	-	6
1996	10	1	6	17	41%	-	-	7
1997	6	3	8	17	65%	-	-	11
1998	3	4	11	18	83%	-	-	15
1999	9	6	3	18	50%	-	-	9
2000	7	1	5	13	46%	-	-	6
2001	9	-	4	13	31%	-	-	4
2002	5	4	13	22	77%	-	-	17
2003	6	-	3	9	33%	-	-	3
2004	7	1	5	13	46%	-	-	6
2005	2	4	7	13	85%	-	-	11
2006	1	3	9	13	92%	-	-	12
2007	5	3	7	15	67%	-	-	10
2008	1	1	9	11	91%	-	-	10
2009	6	1	10	17	65%	-	-	11
2010	6	1	5	12	50%	-	-	6
2011	2	2	10	14	86%	-	-	12
2012	4	-	7	11	64%	-	-	7
2013	3	1	8	12	75%	1.00	1.00	10
2014	3	-	12	15	80%	2.00	2.00	14
2015	5	-	12	17	71%	3.00	3.00	15
2016	3	-	3	6	50%	10.00	8.00	11
2017	2	1	3	6	67%	13.00	10.00	14
2018 (6 Mo)	1	-	1	2	50%	8.00	6.00	7
Totals All:	134	61	198	393	66%	37	30	289
Latest 3	6	1	7	14	57%	26	21	40
Latest 5	14	1	31	46	70%	29	24	64
Latest 10	35	6	71	112	69%	29	24	110
Latest 15	51	18	108	177	71%	29	24	152
Latest 20	87	29	136	252	65%	29	24	203
2005 - 2014	33	16	84	133	75%	3	3	103

(7) Selected Ratio of AAD & AAA to all accepted claims 75%

Notes: (a) The accepted claims shown in Column (2), DA, are claims where claimant was deceased prior to presentation of the claim to NICA.

(b) The accepted claims shown in Column (3), AAD, are claims that deceased after acceptance as of June 30, 2018.

(c) The accepted claims shown in Column (4), AAA, are accepted claims that are alive as of June 30, 2018.

Ultimate Accepted Claim Counts  
Evaluated As of June 30, 2018

Year of Birth	Actual (a) Accepted Claim Cts. @ 6/30/18	Reported Claim Cts. (b) @ 6/30/18	Loss Development Factors		Indicated Ultimate Reported Claim Cts. (3) x (5)	Ratio of Actual Accepted to Reported Claims (2) / (3)	Estimated Ultimate Accepted Claim Cts. (c)	Ratio of Ultimate Accepted to Ultimate Rept. Claims (8) / (6)	IBNR for All Accepted Claim Cts. (8) - (2)
			Incremental	Cumulative					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989	15	32	1.000	1.000	32.0	0.46875	15	0.46875	-
1990	10	39	1.000	1.000	39.0	0.25641	10	0.25641	-
1991	8	38	1.000	1.000	38.0	0.21053	8	0.21053	-
1992	14	48	1.000	1.000	48.0	0.29167	14	0.29167	-
1993	15	40	1.000	1.000	40.0	0.37500	15	0.37500	-
1994	16	36	1.000	1.000	36.0	0.44444	16	0.44444	-
1995	11	26	1.000	1.000	26.0	0.42308	11	0.42308	-
1996	17	40	1.000	1.000	40.0	0.42500	17	0.42500	-
1997	17	47	1.000	1.000	47.0	0.36170	17	0.36170	-
1998	18	42	1.000	1.000	42.0	0.42857	18	0.42857	-
1999	18	40	1.000	1.000	40.0	0.45000	18	0.45000	-
2000	13	38	1.000	1.000	38.0	0.34211	13	0.34211	-
2001	13	41	1.000	1.000	41.0	0.31707	13	0.31707	-
2002	22	50	1.000	1.000	50.0	0.44000	22	0.44000	-
2003	9	23	1.000	1.000	23.0	0.39130	9	0.39130	-
2004	13	31	1.000	1.000	31.0	0.41935	13	0.41935	-
2005	13	41	1.000	1.000	41.0	0.31707	13	0.31707	-
2006	13	34	1.000	1.000	34.0	0.38235	13	0.38235	-
2007	15	36	1.000	1.000	36.0	0.41667	15	0.41667	-
2008	11	42	1.000	1.000	42.0	0.26190	11	0.26190	-
2009	17	50	1.000	1.000	50.0	0.34000	17	0.34000	-
2010	12	40	1.010	1.010	40.4	0.30000	12	0.29703	-
2011	14	42	1.010	1.020	42.8	0.33333	14	0.32677	-
2012	11	50	1.020	1.041	52.0	0.22000	11	0.21144	-
2013	12	32	1.070	1.113	35.6		13	0.36489	1
2014	15	40	1.175	1.308	52.3		17	0.32488	2
2015	17	40	1.150	1.504	60.2		20	0.33236	3
2016	6	16	1.625	2.445	39.1		16	0.40906	10
2017	6	10	2.500	6.112	61.1		19	0.31088	13
2018 (6 Mo)	2	3	4.000	24.446	36.7		10	0.27270	8
Totals:	393	1,087			1,234		430		37

Notes:(a) Based on individual claim detail provided by NICA as of June 30, 2018.

(b) See Exhibit X, Sheets 2a and 2b.

(c) Based on Column (2) for birth years 2012 and prior. See Exhibit X, Sheet 1c, Column (16) for birth years 2013 and subsequent.

Development of Ultimate Accepted Claim Counts ( B/F Estimate)  
Evaluated As of June 30, 2018

Year of Birth	Actual (a) Accepted Claim Cts. @ 6/30/18	Reported (a) Claim Cts. @ 6/30/18	Insured Physicians	Claim Frequency per Insured Physician Based on :		Ratio of Accepted to Reported Claims (2) / (3)
				Accepted Claim Cts. (2) / (4)	Reported Claims (3) / (4)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1989	15	32	570	0.0263	0.0561	0.4688
1990	10	39	590	0.0169	0.0661	0.2564
1991	8	38	653	0.0123	0.0582	0.2105
1992	14	48	712	0.0197	0.0674	0.2917
1993	15	40	731	0.0205	0.0547	0.3750
1994	16	36	659	0.0243	0.0546	0.4444
1995	11	26	682	0.0161	0.0381	0.4231
1996	17	40	708	0.0240	0.0565	0.4250
1997	17	47	737	0.0231	0.0638	0.3617
1998	18	42	699	0.0258	0.0601	0.4286
1999	18	40	665	0.0271	0.0602	0.4500
2000	13	38	620	0.0210	0.0613	0.3421
2001	13	41	676	0.0192	0.0607	0.3171
2002	22	50	730	0.0301	0.0685	0.4400
2003	9	23	785	0.0115	0.0293	0.3913
2004	13	31	841	0.0155	0.0369	0.4194
2005	13	41	891	0.0146	0.0460	0.3171
2006	13	34	897	0.0145	0.0379	0.3824
2007	15	36	963	0.0156	0.0374	0.4167
2008	11	42	987	0.0111	0.0426	0.2619
2009	17	50	1,044	0.0163	0.0479	0.3400
2010	12	40	1,071	0.0112	0.0373	0.3000
2011	14	42	1,091	0.0128	0.0385	0.3333
2012	11	50	1,119	0.0098	0.0447	0.2200
Subtotals:						
89 to 12	335	946	19,121	0.0175	0.0495	0.3541
89 to 02	207	557	9,432	0.0219	0.0591	0.3716
03 to 12	128	389	9,689	0.0132	0.0401	0.3290
07 to 12	80	260	6,275	0.0127	0.0414	0.3077
Selected Frequency =====>				0.0135	0.0400	0.3375

Year of Birth	Actual (a) Accepted Claim Cts. @ 6/30/18	Reported Claims (a) @ 6/30/18	Insured Physicians @ 6/30/18	Estimated Claim Reporting Pattern - Based on :		Estimated (b) B/F Method Ultimate Reported (9) + {[1-(12)] X [(10) X (6)Sel]} (13)	Estimated Ultimate Accepted Based on		Final Selected Ultimate Accepted Claim Cts. (16)
				Accepted	Reported		Reported Claim Cts. (13) X (7) Sel.	Accepted (8) + {[1-(11)] x [(10) x (5)Sel]} (15)	
(1)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2013	12	32	1,143	99.01%	89.82%	36.65	12.37	12.15	13
2014	15	40	1,208	92.10%	76.44%	51.38	17.34	16.29	17
2015	17	40	1,273	81.87%	66.47%	57.07	19.26	20.12	20
2016	6	16	1,318	48.88%	40.91%	47.15	15.91	15.10	16
2017	6	10	1,356	24.44%	16.36%	55.37	18.69	19.83	19
2018 (6 Mo)	2	3	1,335	6.11%	4.09%	27.11	9.15	9.46	10
Subtotals:									
	58	141	7,633			274.74	92.72	92.95	95.00

Notes: (a) Based on individual claim detail provided by NICA as of June 30, 2018. See Exhibit X, Sheet 1b.

(b) The formula shown below is adjusted by a factor of 0.50 for the 2018 birth year to account for only a six-month period.



Open Accepted Claim Counts  
Evaluated As of June 30, 2018

Year of Birth	Reported Open Accepted Claim Counts @ 6/30/18				IBNR Accepted Claim Counts			Total Open Accepted Claim Counts (Reported + IBNR)		
	DA (a)	AAD (b)	AAA (c)	Combined (2)+(3)+(4)	DA (8) - (7)	AAD & AAA Only (d)	Combined (d)	DA (2) + (6)	AAD & AAA Only (3)+(4)+(7)	Combined (9) + (10)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1989	-	-	4	4	-	-	-	-	4	4
1990	-	-	3	3	-	-	-	-	3	3
1991	-	-	4	4	-	-	-	-	4	4
1992	-	-	9	9	-	-	-	-	9	9
1993	-	-	8	8	-	-	-	-	8	8
1994	-	-	4	4	-	-	-	-	4	4
1995	-	-	5	5	-	-	-	-	5	5
1996	-	-	6	6	-	-	-	-	6	6
1997	-	-	8	8	-	-	-	-	8	8
1998	-	-	11	11	-	-	-	-	11	11
1999	-	-	3	3	-	-	-	-	3	3
2000	-	-	5	5	-	-	-	-	5	5
2001	-	-	4	4	-	-	-	-	4	4
2002	-	-	13	13	-	-	-	-	13	13
2003	-	-	3	3	-	-	-	-	3	3
2004	-	-	5	5	-	-	-	-	5	5
2005	-	-	7	7	-	-	-	-	7	7
2006	-	-	9	9	-	-	-	-	9	9
2007	-	-	7	7	-	-	-	-	7	7
2008	-	-	9	9	-	-	-	-	9	9
2009	-	-	10	10	-	-	-	-	10	10
2010	-	-	5	5	-	-	-	-	5	5
2011	-	-	10	10	-	-	-	-	10	10
2012	-	-	7	7	-	-	-	-	7	7
2013	-	-	8	8	-	1	1	-	9	9
2014	1	-	12	13	-	2	2	1	14	15
2015	1	-	11	12	-	3	3	1	14	15
2016	-	-	3	3	2	8	10	2	11	13
2017	1	-	3	4	3	10	13	4	13	17
2018 (6 Mo)	1	-	1	2	2	6	8	3	7	10
Totals All:	4	-	197	201	7	30	37	11	227	238

Notes: (a) DA are claims where claimant was deceased prior to presentation of the claim to NICA.  
 (b) AAD are claims that deceased after acceptance as of June 30, 2018.  
 (c) AAA are accepted claims that are alive as of June 30, 2018.  
 (d) See Exhibit X, Sheet 1a, Columns (9) and (8), respectively.





Reported Claim Counts

Year of Birth	294	306	318	330	342	354
1989	32	32	32	32	32	32
1990	39	39	39	39	39	
1991	38	38	38	38		
1992	48	48	48			
1993	40	40				
1994	36					
1995						
1996						
1997						
1998						
1999						
2000						
2001						
2002						
2003						
2004						
2005						
2006						
2007						
2008						
2009						
2010						
2011						
2012						
2013						
2014						
2015						
2016						
2017						
2018						

Reported Claim Counts  
 Period to Period Development Factors

Year of Birth	6:18	18:30	30:42	42:54	54:66	66:78	78:90	90:102	102:114	114:126	126:138	138:150
1989		5.000	1.900	1.211	1.174	1.111	1.033	1.032	1.000	1.000	1.000	1.000
1990		6.000	2.000	1.125	1.296	1.057	1.027	1.026	1.000	1.000	1.000	1.000
1991		2.200	2.091	1.261	1.103	1.063	1.029	1.057	1.000	1.000	1.000	1.000
1992		4.000	1.850	1.108	1.098	1.044	1.021	1.000	1.000	1.000	1.000	1.000
1993		5.750	1.435	1.061	1.029	1.111	1.000	1.000	1.000	1.000	1.000	1.000
1994		2.400	1.292	1.000	1.161	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1995		4.000	1.500	1.222	1.136	1.000	1.040	1.000	1.000	1.000	1.000	1.000
1996		2.500	1.400	1.286	1.370	1.054	1.000	1.000	1.026	1.000	1.000	1.000
1997		4.750	1.526	1.276	1.189	1.068	1.000	1.000	1.000	1.000	1.000	1.000
1998		2.333	1.524	1.063	1.118	1.105	1.000	1.000	1.000	1.000	1.000	1.000
1999		1.455	1.688	1.111	1.200	1.111	1.000	1.000	1.000	1.000	1.000	1.000
2000		1.462	1.579	1.067	1.156	1.027	1.000	1.000	1.000	1.000	1.000	1.000
2001		3.200	1.688	1.222	1.152	1.079	1.000	1.000	1.000	1.000	1.000	1.000
2002		2.182	1.500	1.111	1.150	1.087	1.000	1.000	1.000	1.000	1.000	1.000
2003		2.000	1.300	1.308	1.235	1.000	1.048	1.045	1.000	1.000	1.000	1.000
2004		3.000	1.417	1.235	1.190	1.200	1.000	1.033	1.000	1.000	1.000	1.000
2005		3.200	1.688	1.148	1.194	1.054	1.026	1.025	1.000	1.000	1.000	1.000
2006		2.000	1.667	1.200	1.292	1.065	1.000	1.000	1.030	1.000	1.000	1.000
2007		3.750	1.733	1.115	1.103	1.000	1.094	1.029	1.000	1.000	1.000	
2008		3.000	1.533	1.130	1.308	1.088	1.135	1.000	1.000	1.000	1.000	
2009		1.545	1.882	1.125	1.194	1.116	1.000	1.000	1.042			
2010		1.545	1.706	1.172	1.147	1.000	1.000	1.026				
2011	4.000	2.250	1.778	1.188	1.000	1.053	1.050					
2012	6.000	4.500	1.667	1.000	1.089	1.020						
2013	9.000	2.667	1.000	1.250	1.067							
2014		1.000	1.522	1.143								
2015	1.000	4.200	1.905									
2016	1.800	1.778										
2017												
Simple Avg. - Incremental	4.360	2.988	1.621	1.159	1.166	1.063	1.022	1.012	1.005	1.000	1.000	1.000
Wtd Avg. All - Incremental	14.929	2.413	1.599	1.144	1.157	1.063	1.020	1.011	1.005	1.000	1.000	1.000
Wtd Latest Five - Incremental	5.091	2.135	1.558	1.133	1.098	1.054	1.051	1.010	1.015	1.000	1.000	1.000
Wtd Latest Three - Incremental	2.400	1.622	1.456	1.106	1.053	1.024	1.016	1.008	1.016	1.000	1.000	1.000
Selected Incremental - Prior 6/30/17	4.000	2.500	1.625	1.150	1.175	1.070	1.015	1.010	1.005	1.000	1.000	1.000
Selected - Incremental	4.000	2.500	1.625	1.150	1.175	1.070	1.020	1.010	1.010	1.000	1.000	1.000
Selected - Cumulative	24.446	6.112	2.445	1.504	1.308	1.113	1.041	1.020	1.010	1.000	1.000	1.000



Reported Claim Counts  
 Period to Period Development Factors

Year of Birth -----	294:306 -----	306:318 -----	318:330 -----	330:342 -----	342:354 -----	354:Ult. -----
1989	1.000	1.000	1.000	1.000	1.000	
1990	1.000	1.000	1.000	1.000		
1991	1.000	1.000	1.000			
1992	1.000	1.000				
1993	1.000					
1994						
1995						
1996						
1997						
1998						
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2000						
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2002						
2003						
2004						
2005						
2006						
2007						
2008						
2009						
2010						
2011						
2012						
2013						
2014						
2015						
2016						
2017						
Simple Avg. - Incremental	1.000	1.000	1.000	1.000	1.000	
Wtd Avg. All - Incremental	1.000	1.000	1.000	1.000	1.000	
Wtd Latest Five - Incremental	1.000	1.000	1.000	1.000	1.000	
Wtd Latest Three - Incremental	1.000	1.000	1.000	1.000	1.000	
Selected Incremental - Prior 6/30/17	1.000	1.000	1.000	1.000	1.000	
Selected - Incremental	1.000	1.000	1.000	1.000	1.000	1.000
Selected - Cumulative	1.000	1.000	1.000	1.000	1.000	1.000

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 2009	Birth Year 2010	Birth Year 2011	Birth Year 2012	Birth Year 2013	Birth Year 2014	Birth Year 2015	Birth Year 2016	Birth Year 2017	Birth Year 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2018	1.34%	0.67%	0.71%	0.75%	0.93%	0.94%	0.91%	1.09%	0.77%	0.36%
2019	1.20%	1.38%	1.31%	1.40%	1.47%	1.82%	1.85%	1.79%	2.14%	1.53%
2020	2.44%	1.55%	1.36%	1.30%	1.37%	1.44%	1.79%	1.82%	1.76%	2.12%
2021	2.38%	1.91%	1.53%	1.34%	1.27%	1.35%	1.42%	1.75%	1.78%	1.74%
2022	2.61%	1.76%	1.89%	1.50%	1.32%	1.25%	1.32%	1.39%	1.72%	1.76%
2023	2.30%	1.69%	1.74%	1.86%	1.48%	1.29%	1.23%	1.30%	1.36%	1.70%
2024	2.81%	1.86%	1.67%	1.71%	1.83%	1.45%	1.27%	1.20%	1.27%	1.35%
2025	2.19%	2.07%	1.84%	1.65%	1.68%	1.80%	1.43%	1.25%	1.18%	1.26%
2026	2.15%	1.88%	2.04%	1.81%	1.62%	1.65%	1.76%	1.40%	1.22%	1.17%
2027	2.47%	1.88%	1.86%	2.01%	1.78%	1.59%	1.62%	1.73%	1.37%	1.21%
2028	2.05%	1.88%	1.85%	1.83%	1.98%	1.75%	1.56%	1.59%	1.70%	1.36%
2029	2.01%	1.86%	1.85%	1.83%	1.80%	1.94%	1.72%	1.53%	1.56%	1.68%
2030	2.07%	1.89%	1.83%	1.83%	1.80%	1.77%	1.91%	1.68%	1.50%	1.54%
2031	2.97%	2.04%	1.86%	1.80%	1.80%	1.76%	1.73%	1.87%	1.65%	1.48%
2032	2.66%	2.22%	2.01%	1.83%	1.77%	1.76%	1.73%	1.70%	1.84%	1.63%
2033	2.37%	2.31%	2.19%	1.98%	1.80%	1.74%	1.73%	1.70%	1.67%	1.82%
2034	2.31%	2.39%	2.28%	2.16%	1.95%	1.77%	1.71%	1.70%	1.67%	1.65%
2035	2.27%	2.35%	2.36%	2.24%	2.12%	1.91%	1.74%	1.67%	1.67%	1.65%
2036	2.29%	2.30%	2.32%	2.32%	2.20%	2.08%	1.88%	1.70%	1.64%	1.65%
2037	2.52%	2.37%	2.26%	2.28%	2.28%	2.16%	2.05%	1.84%	1.67%	1.63%
2038	2.57%	2.35%	2.33%	2.23%	2.24%	2.24%	2.12%	2.01%	1.81%	1.65%
2039	2.11%	2.37%	2.32%	2.30%	2.19%	2.20%	2.20%	2.08%	1.97%	1.79%
2040	2.05%	2.27%	2.33%	2.29%	2.26%	2.15%	2.16%	2.16%	2.04%	1.95%
2041	2.00%	2.20%	2.24%	2.30%	2.25%	2.22%	2.11%	2.12%	2.12%	2.02%
2042	2.10%	2.12%	2.17%	2.20%	2.26%	2.21%	2.18%	2.07%	2.08%	2.09%
2043	1.88%	2.07%	2.09%	2.14%	2.17%	2.22%	2.17%	2.13%	2.03%	2.06%
2044	1.84%	2.01%	2.04%	2.06%	2.11%	2.13%	2.18%	2.12%	2.10%	2.01%
2045	2.09%	1.97%	1.98%	2.01%	2.03%	2.07%	2.09%	2.14%	2.08%	2.07%
2046	1.72%	1.89%	1.94%	1.95%	1.98%	1.99%	2.03%	2.05%	2.10%	2.06%
2047	1.89%	1.83%	1.86%	1.91%	1.92%	1.94%	1.95%	1.99%	2.01%	2.07%
2048	1.61%	1.80%	1.81%	1.84%	1.88%	1.88%	1.91%	1.92%	1.95%	1.99%
2049	1.56%	1.75%	1.78%	1.78%	1.81%	1.84%	1.85%	1.87%	1.88%	1.93%
2050	1.52%	1.71%	1.73%	1.75%	1.75%	1.77%	1.81%	1.81%	1.84%	1.86%
2051	1.46%	1.66%	1.69%	1.70%	1.73%	1.72%	1.74%	1.78%	1.78%	1.82%
2052	1.78%	1.60%	1.64%	1.66%	1.68%	1.69%	1.69%	1.71%	1.74%	1.76%
2053	1.37%	1.55%	1.58%	1.62%	1.63%	1.64%	1.66%	1.65%	1.67%	1.72%
2054	1.32%	1.51%	1.53%	1.55%	1.59%	1.60%	1.61%	1.63%	1.62%	1.66%
2055	1.27%	1.46%	1.49%	1.51%	1.53%	1.56%	1.57%	1.58%	1.60%	1.60%
2056	1.23%	1.41%	1.44%	1.46%	1.48%	1.50%	1.53%	1.54%	1.55%	1.58%
2057	1.33%	1.37%	1.39%	1.42%	1.44%	1.45%	1.47%	1.50%	1.51%	1.54%
2058	1.13%	1.36%	1.35%	1.37%	1.40%	1.41%	1.43%	1.44%	1.47%	1.50%
2059	1.27%	1.30%	1.34%	1.33%	1.35%	1.37%	1.39%	1.40%	1.42%	1.46%
2060	1.04%	1.26%	1.28%	1.32%	1.31%	1.32%	1.35%	1.36%	1.37%	1.40%
2061	1.00%	1.22%	1.25%	1.27%	1.30%	1.29%	1.30%	1.32%	1.34%	1.36%
2062	1.04%	1.17%	1.20%	1.23%	1.24%	1.27%	1.26%	1.27%	1.30%	1.32%
2063	0.91%	1.13%	1.15%	1.18%	1.21%	1.22%	1.25%	1.24%	1.25%	1.28%
2064	0.87%	1.08%	1.12%	1.13%	1.16%	1.19%	1.20%	1.22%	1.21%	1.23%
2065	0.83%	1.06%	1.07%	1.10%	1.11%	1.14%	1.16%	1.17%	1.20%	1.20%
2066	0.92%	1.00%	1.04%	1.05%	1.08%	1.09%	1.12%	1.14%	1.15%	1.19%
2067	0.85%	0.95%	0.99%	1.03%	1.04%	1.06%	1.07%	1.10%	1.12%	1.14%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.



Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 2009	Birth Year 2010	Birth Year 2011	Birth Year 2012	Birth Year 2013	Birth Year 2014	Birth Year 2015	Birth Year 2016	Birth Year 2017	Birth Year 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2068	0.72%	0.92%	0.94%	0.97%	1.01%	1.02%	1.04%	1.05%	1.08%	1.11%
2069	0.68%	0.87%	0.90%	0.93%	0.96%	0.99%	1.00%	1.02%	1.03%	1.07%
2070	0.64%	0.84%	0.86%	0.89%	0.91%	0.94%	0.97%	0.98%	1.00%	1.02%
2071	0.61%	0.80%	0.83%	0.85%	0.88%	0.89%	0.92%	0.95%	0.96%	0.99%
2072	0.62%	0.76%	0.79%	0.81%	0.84%	0.86%	0.88%	0.90%	0.94%	0.95%
2073	0.62%	0.72%	0.75%	0.78%	0.80%	0.82%	0.84%	0.86%	0.89%	0.92%
2074	0.51%	0.68%	0.71%	0.74%	0.76%	0.79%	0.81%	0.83%	0.84%	0.88%
2075	0.47%	0.65%	0.67%	0.70%	0.72%	0.75%	0.77%	0.79%	0.81%	0.84%
2076	0.44%	0.61%	0.64%	0.66%	0.69%	0.71%	0.74%	0.76%	0.78%	0.80%
2077	0.47%	0.57%	0.60%	0.63%	0.65%	0.68%	0.70%	0.72%	0.74%	0.77%
2078	0.39%	0.54%	0.56%	0.59%	0.62%	0.64%	0.67%	0.68%	0.71%	0.73%
2079	0.36%	0.51%	0.54%	0.55%	0.58%	0.61%	0.63%	0.65%	0.67%	0.70%
2080	0.38%	0.48%	0.50%	0.53%	0.54%	0.57%	0.60%	0.61%	0.64%	0.66%
2081	0.31%	0.44%	0.47%	0.49%	0.52%	0.53%	0.56%	0.59%	0.60%	0.63%
2082	0.31%	0.41%	0.43%	0.46%	0.49%	0.51%	0.52%	0.55%	0.58%	0.59%
2083	0.26%	0.38%	0.40%	0.43%	0.46%	0.48%	0.50%	0.51%	0.54%	0.57%
2084	0.24%	0.35%	0.38%	0.40%	0.42%	0.45%	0.47%	0.49%	0.50%	0.53%
2085	0.22%	0.33%	0.34%	0.37%	0.39%	0.41%	0.44%	0.46%	0.48%	0.50%
2086	0.20%	0.30%	0.32%	0.34%	0.37%	0.38%	0.41%	0.43%	0.45%	0.48%
2087	0.23%	0.27%	0.29%	0.32%	0.33%	0.36%	0.38%	0.40%	0.42%	0.45%
2088	0.17%	0.25%	0.27%	0.29%	0.31%	0.33%	0.35%	0.37%	0.39%	0.42%
2089	0.15%	0.23%	0.24%	0.26%	0.28%	0.31%	0.32%	0.35%	0.36%	0.39%
2090	0.14%	0.20%	0.22%	0.24%	0.26%	0.28%	0.30%	0.32%	0.34%	0.36%
2091	0.12%	0.18%	0.20%	0.22%	0.24%	0.25%	0.27%	0.30%	0.31%	0.34%
2092	0.12%	0.16%	0.18%	0.20%	0.22%	0.23%	0.25%	0.27%	0.29%	0.31%
2093	0.10%	0.14%	0.16%	0.17%	0.19%	0.21%	0.23%	0.24%	0.26%	0.29%
2094	0.09%	0.12%	0.14%	0.15%	0.17%	0.19%	0.21%	0.22%	0.24%	0.26%
2095	0.08%	0.11%	0.12%	0.14%	0.15%	0.17%	0.19%	0.20%	0.22%	0.24%
2096	0.07%	0.09%	0.11%	0.12%	0.14%	0.15%	0.16%	0.18%	0.20%	0.22%
2097	0.06%	0.08%	0.09%	0.10%	0.12%	0.13%	0.15%	0.16%	0.18%	0.20%
2098	0.05%	0.07%	0.08%	0.09%	0.10%	0.12%	0.13%	0.14%	0.16%	0.18%
2099	0.04%	0.06%	0.07%	0.08%	0.09%	0.10%	0.11%	0.13%	0.14%	0.16%
2100	0.03%	0.05%	0.06%	0.06%	0.08%	0.09%	0.10%	0.11%	0.13%	0.14%
2101	0.03%	0.04%	0.05%	0.05%	0.06%	0.07%	0.09%	0.10%	0.11%	0.12%
2102	0.02%	0.03%	0.04%	0.05%	0.05%	0.06%	0.07%	0.08%	0.10%	0.11%
2103	0.02%	0.02%	0.03%	0.04%	0.04%	0.05%	0.06%	0.07%	0.08%	0.09%
2104	0.01%	0.02%	0.02%	0.03%	0.04%	0.04%	0.05%	0.06%	0.07%	0.08%
2105	0.01%	0.01%	0.02%	0.02%	0.03%	0.04%	0.04%	0.05%	0.06%	0.07%
2106	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.04%	0.05%	0.06%
2107	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.04%	0.05%
2108	0.02%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.04%
2109	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%
2110	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%
2111	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%
2112	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%
2113	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%
2114	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%
2115	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%
2116	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%
2117	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 1999	Birth Year 2000	Birth Year 2001	Birth Year 2002	Birth Year 2003	Birth Year 2004	Birth Year 2005	Birth Year 2006	Birth Year 2007	Birth Year 2008
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2018	1.37%	1.40%	1.82%	1.79%	2.12%	1.64%	1.69%	1.87%	2.06%	1.24%
2019	2.22%	2.07%	2.39%	1.97%	2.62%	1.57%	1.76%	1.63%	2.82%	1.10%
2020	2.71%	2.26%	2.40%	2.47%	3.63%	2.43%	2.57%	2.62%	3.46%	2.05%
2021	3.46%	2.14%	2.33%	2.42%	3.49%	2.36%	2.28%	2.55%	3.29%	2.01%
2022	3.36%	3.81%	3.09%	2.57%	3.69%	2.61%	2.30%	2.77%	3.57%	2.19%
2023	3.27%	3.51%	2.76%	2.30%	3.28%	2.27%	1.91%	2.58%	3.01%	1.94%
2024	3.90%	4.08%	3.38%	3.68%	3.91%	2.86%	2.25%	3.05%	3.62%	2.39%
2025	3.05%	3.15%	2.62%	2.95%	3.75%	2.15%	1.60%	2.44%	2.72%	1.87%
2026	3.59%	3.00%	2.57%	2.87%	3.63%	2.73%	1.51%	2.39%	2.61%	1.84%
2027	3.62%	3.40%	3.10%	3.11%	3.88%	3.07%	2.82%	2.66%	3.06%	2.11%
2028	3.36%	2.97%	2.76%	2.73%	3.34%	2.60%	2.41%	2.73%	2.45%	1.77%
2029	3.26%	2.82%	2.70%	2.70%	3.23%	2.55%	2.33%	2.66%	2.42%	1.74%
2030	3.14%	2.65%	2.61%	2.59%	3.13%	2.48%	2.22%	2.58%	2.30%	2.07%
2031	3.42%	2.99%	2.98%	3.00%	3.60%	3.09%	2.51%	2.90%	2.76%	2.30%
2032	2.95%	2.45%	2.73%	2.63%	3.13%	2.72%	2.49%	2.66%	2.39%	2.19%
2033	2.84%	2.22%	2.41%	2.39%	2.76%	2.41%	2.25%	2.38%	2.01%	1.96%
2034	2.74%	2.09%	2.34%	2.30%	2.64%	2.36%	2.18%	2.32%	2.22%	1.92%
2035	2.65%	1.97%	2.29%	2.25%	2.55%	2.31%	2.14%	2.26%	2.14%	2.20%
2036	2.54%	1.85%	2.32%	2.17%	2.42%	2.24%	2.06%	2.19%	2.04%	2.15%
2037	2.55%	1.89%	2.56%	2.36%	2.60%	2.51%	2.22%	2.38%	2.29%	2.36%
2038	2.65%	2.60%	2.40%	2.38%	2.67%	2.61%	2.26%	2.38%	2.30%	2.29%
2039	2.26%	2.20%	2.13%	1.97%	2.11%	2.07%	1.90%	2.00%	1.80%	2.01%
2040	2.17%	2.10%	2.06%	1.98%	2.01%	2.02%	1.85%	1.94%	1.73%	1.96%
2041	2.09%	2.00%	2.01%	1.94%	1.92%	1.97%	1.82%	1.89%	1.67%	1.92%
2042	1.99%	1.95%	2.13%	1.98%	1.98%	2.09%	1.87%	1.98%	1.79%	2.02%
2043	1.91%	1.81%	1.88%	1.79%	1.73%	1.85%	1.71%	1.76%	1.54%	1.83%
2044	1.83%	1.73%	1.83%	1.81%	1.65%	1.81%	1.68%	1.71%	1.60%	1.79%
2045	1.95%	1.80%	1.90%	1.90%	1.87%	2.13%	1.86%	1.89%	1.86%	1.93%
2046	1.66%	1.57%	1.70%	1.68%	1.47%	1.69%	1.58%	1.60%	1.48%	1.70%
2047	1.65%	1.59%	1.88%	1.80%	1.59%	1.89%	1.72%	1.74%	1.66%	1.86%
2048	1.50%	1.43%	1.58%	1.56%	1.32%	1.59%	1.50%	1.49%	1.37%	1.61%
2049	1.42%	1.37%	1.52%	1.51%	1.24%	1.54%	1.46%	1.44%	1.32%	1.57%
2050	1.35%	1.31%	1.47%	1.45%	1.18%	1.50%	1.44%	1.40%	1.28%	1.53%
2051	1.27%	1.25%	1.41%	1.39%	1.10%	1.44%	1.39%	1.34%	1.23%	1.49%
2052	1.34%	1.29%	1.60%	1.53%	1.35%	1.81%	1.62%	1.58%	1.56%	1.71%
2053	1.14%	1.14%	1.31%	1.30%	0.97%	1.35%	1.47%	1.27%	1.14%	1.41%
2054	1.06%	1.09%	1.24%	1.23%	0.90%	1.29%	1.42%	1.27%	1.09%	1.36%
2055	1.00%	1.04%	1.19%	1.23%	0.84%	1.24%	1.38%	1.22%	1.05%	1.32%
2056	0.93%	1.00%	1.15%	1.19%	0.79%	1.20%	1.36%	1.18%	1.02%	1.50%
2057	0.91%	1.01%	1.25%	1.25%	0.84%	1.31%	1.43%	1.26%	1.14%	1.60%
2058	0.81%	0.92%	1.04%	1.08%	0.67%	1.10%	1.27%	1.08%	0.94%	1.41%
2059	0.83%	0.91%	1.06%	1.10%	0.76%	1.27%	1.39%	1.15%	1.09%	1.48%
2060	0.69%	0.85%	0.94%	0.98%	0.57%	1.00%	1.19%	1.00%	0.87%	1.32%
2061	0.64%	0.81%	0.89%	0.93%	0.53%	0.96%	1.16%	0.95%	0.83%	1.27%
2062	0.58%	0.80%	0.94%	0.94%	0.54%	1.00%	1.19%	0.98%	0.89%	1.31%
2063	0.53%	0.75%	0.79%	0.83%	0.44%	0.87%	1.08%	0.87%	0.76%	1.18%
2064	0.48%	0.72%	0.75%	0.79%	0.40%	0.82%	1.04%	0.83%	0.73%	1.14%
2065	0.44%	0.69%	0.71%	0.75%	0.37%	0.78%	1.01%	0.79%	0.70%	1.10%
2066	0.44%	0.67%	0.69%	0.74%	0.40%	0.88%	1.07%	0.82%	0.81%	1.13%
2067	0.37%	0.67%	0.71%	0.72%	0.35%	0.79%	1.01%	0.79%	0.75%	1.12%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 1999	Birth Year 2000	Birth Year 2001	Birth Year 2002	Birth Year 2003	Birth Year 2004	Birth Year 2005	Birth Year 2006	Birth Year 2007	Birth Year 2008
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2068	0.32%	0.61%	0.58%	0.62%	0.27%	0.65%	0.90%	0.68%	0.61%	0.97%
2069	0.28%	0.58%	0.53%	0.58%	0.24%	0.61%	0.85%	0.64%	0.58%	0.92%
2070	0.25%	0.56%	0.49%	0.54%	0.21%	0.57%	0.81%	0.61%	0.55%	0.88%
2071	0.21%	0.53%	0.46%	0.50%	0.19%	0.53%	0.78%	0.57%	0.53%	0.84%
2072	0.19%	0.52%	0.47%	0.49%	0.19%	0.53%	0.78%	0.57%	0.56%	0.85%
2073	0.18%	0.48%	0.40%	0.45%	0.18%	0.54%	0.77%	0.54%	0.57%	0.81%
2074	0.14%	0.46%	0.35%	0.40%	0.13%	0.42%	0.67%	0.47%	0.45%	0.72%
2075	0.11%	0.43%	0.32%	0.37%	0.11%	0.38%	0.63%	0.44%	0.42%	0.68%
2076	0.10%	0.41%	0.29%	0.34%	0.09%	0.35%	0.59%	0.41%	0.40%	0.64%
2077	0.08%	0.40%	0.30%	0.34%	0.09%	0.37%	0.60%	0.42%	0.44%	0.66%
2078	0.06%	0.36%	0.23%	0.28%	0.07%	0.29%	0.52%	0.36%	0.35%	0.56%
2079	0.05%	0.33%	0.20%	0.26%	0.06%	0.26%	0.48%	0.33%	0.32%	0.52%
2080	0.04%	0.31%	0.18%	0.24%	0.06%	0.27%	0.48%	0.32%	0.37%	0.52%
2081	0.03%	0.28%	0.15%	0.21%	0.04%	0.21%	0.41%	0.28%	0.28%	0.45%
2082	0.02%	0.26%	0.15%	0.20%	0.03%	0.20%	0.39%	0.27%	0.29%	0.44%
2083	0.02%	0.23%	0.11%	0.17%	0.02%	0.16%	0.35%	0.23%	0.24%	0.39%
2084	0.01%	0.21%	0.10%	0.15%	0.02%	0.14%	0.31%	0.21%	0.22%	0.35%
2085	0.01%	0.19%	0.08%	0.14%	0.01%	0.12%	0.28%	0.19%	0.20%	0.32%
2086	0.01%	0.17%	0.07%	0.12%	0.01%	0.10%	0.26%	0.17%	0.18%	0.29%
2087	0.00%	0.16%	0.06%	0.11%	0.01%	0.11%	0.26%	0.17%	0.23%	0.31%
2088	0.00%	0.13%	0.04%	0.09%	0.01%	0.07%	0.20%	0.14%	0.15%	0.24%
2089	0.00%	0.11%	0.03%	0.08%	0.00%	0.06%	0.18%	0.12%	0.13%	0.21%
2090	0.00%	0.09%	0.02%	0.07%	0.00%	0.05%	0.15%	0.11%	0.11%	0.19%
2091	0.00%	0.08%	0.02%	0.06%	0.00%	0.04%	0.13%	0.09%	0.10%	0.16%
2092	0.00%	0.07%	0.02%	0.05%	0.00%	0.04%	0.12%	0.08%	0.10%	0.15%
2093	0.00%	0.05%	0.01%	0.04%	0.00%	0.03%	0.10%	0.07%	0.07%	0.12%
2094	0.00%	0.04%	0.01%	0.03%	0.00%	0.02%	0.08%	0.06%	0.08%	0.11%
2095	0.00%	0.03%	0.00%	0.03%	0.00%	0.02%	0.07%	0.05%	0.05%	0.09%
2096	0.00%	0.03%	0.00%	0.02%	0.00%	0.01%	0.05%	0.04%	0.04%	0.07%
2097	0.00%	0.02%	0.00%	0.02%	0.00%	0.01%	0.05%	0.03%	0.04%	0.07%
2098	0.00%	0.01%	0.00%	0.01%	0.00%	0.01%	0.04%	0.03%	0.03%	0.05%
2099	0.00%	0.04%	0.00%	0.01%	0.00%	0.00%	0.03%	0.02%	0.02%	0.04%
2100	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.02%	0.02%	0.02%	0.03%
2101	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.02%	0.01%	0.01%	0.02%
2102	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%
2103	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%
2104	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%
2105	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%
2106	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2107	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
2108	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2109	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2110	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2111	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2112	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2113	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2114	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2115	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2116	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2117	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 1989	Birth Year 1990	Birth Year 1991	Birth Year 1992	Birth Year 1993	Birth Year 1994	Birth Year 1995	Birth Year 1996	Birth Year 1997	Birth Year 1998
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2018	2.64%	2.43%	1.86%	1.80%	2.97%	2.05%	1.79%	1.65%	1.50%	1.88%
2019	3.58%	4.19%	2.93%	2.54%	3.64%	2.05%	2.69%	2.28%	1.88%	2.55%
2020	3.74%	4.88%	2.97%	3.04%	3.82%	2.31%	2.95%	3.90%	3.01%	2.74%
2021	3.54%	4.67%	2.89%	3.03%	3.77%	2.25%	2.86%	3.70%	2.90%	2.68%
2022	3.58%	4.89%	3.21%	3.38%	3.69%	2.46%	3.23%	3.60%	3.06%	2.69%
2023	3.34%	4.38%	2.81%	2.97%	3.13%	2.22%	3.01%	3.63%	2.74%	2.44%
2024	4.32%	4.80%	3.53%	3.51%	3.32%	2.81%	3.77%	4.11%	3.44%	3.00%
2025	3.06%	4.02%	2.66%	2.89%	2.66%	2.16%	2.90%	3.26%	2.70%	2.66%
2026	2.94%	3.89%	2.60%	2.76%	2.49%	2.15%	2.85%	3.11%	2.63%	2.53%
2027	3.13%	4.20%	2.91%	3.20%	2.66%	2.41%	3.05%	3.23%	2.90%	2.72%
2028	2.80%	3.55%	2.47%	2.87%	2.22%	2.08%	2.70%	2.83%	2.47%	2.37%
2029	2.71%	3.43%	2.41%	2.92%	2.21%	2.08%	2.65%	2.72%	2.40%	2.40%
2030	2.61%	3.26%	2.46%	2.77%	2.17%	2.03%	2.58%	2.80%	2.32%	2.32%
2031	3.07%	3.58%	2.75%	3.05%	2.41%	2.59%	2.86%	3.02%	2.79%	2.76%
2032	2.65%	3.26%	2.58%	2.92%	2.23%	2.20%	2.60%	2.68%	2.42%	2.35%
2033	2.37%	2.83%	2.25%	2.62%	1.97%	1.96%	2.39%	2.49%	2.13%	2.21%
2034	2.30%	2.69%	2.19%	2.51%	1.91%	1.93%	2.33%	2.39%	2.07%	2.09%
2035	2.23%	2.58%	2.46%	2.45%	1.87%	1.92%	2.28%	2.31%	2.01%	2.05%
2036	2.15%	2.43%	2.38%	2.37%	1.82%	1.88%	2.22%	2.22%	1.95%	1.99%
2037	2.34%	2.61%	2.59%	2.70%	2.04%	2.12%	2.38%	2.32%	2.18%	2.21%
2038	2.44%	2.53%	2.37%	2.52%	2.01%	2.36%	2.38%	2.31%	2.27%	2.32%
2039	1.96%	2.05%	2.18%	2.16%	1.70%	1.80%	2.04%	1.99%	1.78%	1.90%
2040	1.89%	1.93%	2.11%	2.09%	1.67%	1.77%	1.99%	1.92%	1.73%	1.97%
2041	1.84%	1.83%	2.05%	2.08%	1.64%	1.75%	1.94%	1.86%	1.68%	1.98%
2042	1.94%	1.86%	2.15%	2.16%	1.76%	1.88%	1.99%	1.85%	1.81%	1.97%
2043	1.71%	1.59%	1.91%	1.89%	1.56%	1.68%	1.82%	1.73%	1.58%	1.82%
2044	1.65%	1.50%	1.85%	1.82%	1.66%	1.93%	1.78%	1.67%	1.89%	1.78%
2045	1.91%	1.60%	1.87%	2.01%	1.83%	2.12%	1.92%	1.77%	2.08%	2.08%
2046	1.53%	1.28%	1.72%	1.68%	1.58%	1.85%	1.66%	1.54%	1.78%	1.68%
2047	1.68%	1.36%	1.84%	1.85%	1.75%	2.04%	1.78%	1.61%	1.97%	1.81%
2048	1.42%	1.09%	1.60%	1.54%	1.50%	1.77%	1.55%	1.43%	1.67%	1.59%
2049	1.36%	1.00%	1.54%	1.52%	1.47%	1.73%	1.50%	1.37%	1.62%	1.59%
2050	1.31%	0.92%	1.48%	1.41%	1.43%	1.70%	1.45%	1.32%	1.57%	1.51%
2051	1.25%	0.83%	1.42%	1.35%	1.39%	1.65%	1.40%	1.26%	1.52%	1.46%
2052	1.57%	0.95%	1.51%	1.56%	1.64%	1.95%	1.57%	1.37%	1.80%	1.74%
2053	1.15%	0.68%	1.30%	1.26%	1.31%	1.58%	1.29%	1.16%	1.42%	1.42%
2054	1.09%	0.60%	1.24%	1.15%	1.27%	1.53%	1.24%	1.11%	1.37%	1.32%
2055	1.04%	0.54%	1.18%	1.09%	1.23%	1.48%	1.19%	1.06%	1.31%	1.28%
2056	0.99%	0.48%	1.13%	1.03%	1.19%	1.45%	1.14%	1.01%	1.27%	1.24%
2057	1.07%	0.48%	1.17%	1.13%	1.29%	1.55%	1.19%	1.03%	1.39%	1.35%
2058	0.88%	0.37%	1.02%	0.91%	1.10%	1.35%	1.03%	0.91%	1.17%	1.14%
2059	1.01%	0.38%	1.00%	0.94%	1.19%	1.48%	1.09%	0.95%	1.25%	1.30%
2060	0.78%	0.27%	0.92%	0.79%	1.02%	1.25%	0.93%	0.82%	1.07%	1.06%
2061	0.73%	0.23%	0.87%	0.76%	0.97%	1.20%	0.88%	0.77%	1.02%	1.05%
2062	0.77%	0.22%	0.86%	0.75%	1.01%	1.26%	0.88%	0.75%	1.08%	1.02%
2063	0.63%	0.17%	0.77%	0.63%	0.88%	1.11%	0.78%	0.69%	0.92%	0.92%
2064	0.59%	0.14%	0.73%	0.58%	0.84%	1.06%	0.73%	0.64%	0.87%	0.88%
2065	0.54%	0.11%	0.68%	0.56%	0.80%	1.01%	0.69%	0.60%	0.83%	0.87%
2066	0.61%	0.11%	0.65%	0.53%	0.84%	1.09%	0.70%	0.61%	0.87%	0.93%
2067	0.53%	0.08%	0.64%	0.50%	0.80%	1.01%	0.65%	0.55%	0.85%	0.82%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Payment Patterns After Consideration of Estimated Mortality - 2018 Level Basis (a)

Calendar Year	Birth Year 1989	Birth Year 1990	Birth Year 1991	Birth Year 1992	Birth Year 1993	Birth Year 1994	Birth Year 1995	Birth Year 1996	Birth Year 1997	Birth Year 1998
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Percent of Remaining (O/S) Loss &amp; Expense Payments By Calendar Year</b>										
<b>Future Payments Based on 2018 Level - After Mortality</b>										
2068	0.41%	0.06%	0.55%	0.40%	0.67%	0.86%	0.55%	0.48%	0.69%	0.71%
2069	0.37%	0.04%	0.51%	0.38%	0.62%	0.81%	0.50%	0.44%	0.64%	0.69%
2070	0.33%	0.03%	0.48%	0.33%	0.58%	0.76%	0.46%	0.40%	0.60%	0.62%
2071	0.29%	0.02%	0.44%	0.29%	0.54%	0.71%	0.42%	0.37%	0.56%	0.58%
2072	0.29%	0.02%	0.41%	0.28%	0.53%	0.70%	0.40%	0.34%	0.57%	0.56%
2073	0.28%	0.02%	0.37%	0.26%	0.50%	0.69%	0.37%	0.32%	0.53%	0.61%
2074	0.19%	0.01%	0.34%	0.21%	0.42%	0.56%	0.31%	0.26%	0.44%	0.46%
2075	0.16%	0.01%	0.30%	0.18%	0.38%	0.51%	0.27%	0.23%	0.40%	0.42%
2076	0.14%	0.00%	0.27%	0.16%	0.34%	0.46%	0.24%	0.20%	0.36%	0.38%
2077	0.14%	0.00%	0.26%	0.16%	0.34%	0.46%	0.22%	0.19%	0.37%	0.40%
2078	0.09%	0.00%	0.22%	0.12%	0.27%	0.37%	0.18%	0.15%	0.29%	0.31%
2079	0.08%	0.00%	0.19%	0.10%	0.24%	0.33%	0.15%	0.13%	0.26%	0.28%
2080	0.08%	0.00%	0.17%	0.09%	0.22%	0.34%	0.14%	0.12%	0.25%	0.29%
2081	0.05%	0.00%	0.15%	0.08%	0.18%	0.25%	0.11%	0.09%	0.20%	0.22%
2082	0.04%	0.00%	0.13%	0.07%	0.16%	0.23%	0.09%	0.07%	0.19%	0.19%
2083	0.03%	0.00%	0.11%	0.06%	0.13%	0.19%	0.07%	0.06%	0.14%	0.16%
2084	0.02%	0.00%	0.09%	0.05%	0.11%	0.15%	0.06%	0.05%	0.12%	0.13%
2085	0.01%	0.00%	0.07%	0.04%	0.09%	0.13%	0.04%	0.04%	0.10%	0.12%
2086	0.01%	0.00%	0.06%	0.03%	0.07%	0.10%	0.03%	0.03%	0.08%	0.09%
2087	0.01%	0.00%	0.05%	0.03%	0.07%	0.10%	0.03%	0.02%	0.09%	0.09%
2088	0.01%	0.00%	0.04%	0.02%	0.05%	0.06%	0.02%	0.02%	0.05%	0.06%
2089	0.00%	0.00%	0.03%	0.02%	0.04%	0.05%	0.01%	0.01%	0.04%	0.05%
2090	0.00%	0.00%	0.08%	0.01%	0.03%	0.04%	0.01%	0.01%	0.03%	0.04%
2091	0.00%	0.00%	0.00%	0.06%	0.02%	0.03%	0.01%	0.00%	0.02%	0.03%
2092	0.00%	0.00%	0.00%	0.00%	0.06%	0.02%	0.00%	0.00%	0.02%	0.02%
2093	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.01%	0.01%
2094	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%
2095	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%
2096	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
2097	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
2098	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2099	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2100	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2101	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2102	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2103	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2104	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2105	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2106	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2107	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2108	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2109	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2110	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2111	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2112	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2113	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2114	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2115	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2116	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2117	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note: (a) Estimated percent of remaining loss and expense expected to be paid in each calendar year. The estimates are based on individual case reserve files provided by NICA. The percent of remaining loss and expense is calculated based on 2018 level estimates for each open claimant and after consideration of the remaining life expectancy for each claimant. See Appendix A, Exhibit II for illustration of calculation for Birth Year 1996.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Sample Calculation of Payment Pattern - Birth Year 1996 - Estimated Remaining Payment (Reserves)

Estimated Loss & Expense Payments - 2018 Level - After Consideration of Mortality

Claim Number							Annual	Quarter	
Date of Birth							Basis	Basis	
Life Expectancy @ 12/31/17	36.32	33.85	15.00	4.80	9.34	27.28	Percent	Percent	
Sex	M	M	M	M	F	F	of Total	of Total	
	(2)	(3)	(4)	(5)	(6)	(7)	By Year	By Year	
	Totals						(8)	(9)	(10)
<b>Attained Age</b>	<b>Incremental Payments By Claim By Year - 2018 Level - After Mortality (a)</b>								
22	122,752	172,496	57,964	34,943	153,264	127,493	668,913	3.25%	1.65%
23	111,611	141,036	55,156	8,359	117,020	28,896	462,078	2.25%	2.28%
24	116,155	144,932	206,149	134,630	106,954	80,727	789,546	3.84%	3.90%
25	114,821	142,524	194,359	109,636	108,427	78,563	748,330	3.64%	3.70%
26	113,478	140,588	184,419	89,106	101,527	99,386	728,504	3.54%	3.60%
27	182,567	137,535	176,100	72,260	89,407	75,632	733,501	3.57%	3.63%
28	180,350	174,278	195,491	68,431	102,618	110,542	831,708	4.04%	4.11%
29	178,111	133,190	156,537	46,535	72,678	71,842	658,893	3.20%	3.26%
30	175,849	131,667	148,931	37,148	65,628	70,586	629,810	3.06%	3.11%
31	173,564	141,692	145,307	29,962	68,475	94,596	653,595	3.18%	3.23%
32	171,254	127,246	131,321	23,098	52,637	66,857	572,414	2.78%	2.83%
33	168,921	125,654	124,406	18,096	47,192	65,589	549,859	2.67%	2.72%
34	166,566	123,204	115,962	14,025	41,935	104,028	565,719	2.75%	2.80%
35	164,187	156,250	128,403	12,746	47,485	101,346	610,417	2.97%	3.02%
36	161,785	119,502	102,512	8,300	34,208	116,683	542,989	2.64%	2.68%
37	159,358	117,025	95,084	6,293	29,213	96,013	502,986	2.45%	2.49%
38	156,907	114,934	88,687	4,743	25,740	93,361	484,371	2.36%	2.39%
39	154,431	113,207	83,175	3,552	22,678	91,045	468,089	2.28%	2.31%
40	151,932	110,706	76,721	2,626	19,786	88,091	449,861	2.19%	2.22%
41	149,406	119,025	74,138	1,967	20,109	105,354	469,998	2.29%	2.32%
42	146,853	137,590	78,227	1,652	19,137	83,161	466,619	2.27%	2.31%
43	144,269	104,238	60,760	1,005	12,965	80,267	403,504	1.96%	1.99%
44	141,654	102,043	55,942	713	11,167	77,681	389,199	1.89%	1.92%
45	139,005	100,162	51,743	501	9,603	75,374	376,388	1.83%	1.86%
46	136,319	97,585	47,024	345	8,426	85,521	375,219	1.82%	1.85%
47	133,594	95,319	42,913	235	6,929	69,989	348,978	1.70%	1.73%
48	130,828	93,339	39,314	157	5,865	67,690	337,193	1.64%	1.67%
49	128,018	116,975	41,762	121	6,245	64,919	358,039	1.74%	1.77%
50	125,161	88,354	31,908	66	4,085	62,403	311,977	1.52%	1.54%
51	122,256	94,541	30,087	42	3,949	74,047	324,922	1.58%	1.61%
52	119,301	83,557	25,638	25	2,775	57,411	288,707	1.40%	1.43%
53	116,296	81,112	22,812	15	2,261	54,939	277,435	1.35%	1.37%
54	113,239	78,900	20,339	9	1,832	52,675	266,995	1.30%	1.32%
55	110,132	76,129	17,767	5	1,462	50,058	255,553	1.24%	1.26%
56	106,973	94,905	18,351	3	1,514	56,178	277,924	1.35%	1.37%
57	103,761	71,264	13,596	1	913	45,433	234,969	1.14%	1.16%
58	100,498	68,430	11,640	1	707	42,918	224,193	1.09%	1.11%
59	97,186	65,810	9,962	0	542	40,592	214,092	1.04%	1.06%
60	93,826	63,379	8,518	0	411	38,436	204,570	0.99%	1.01%
61	90,420	66,330	7,412	0	357	44,421	208,940	1.02%	1.03%
62	86,968	57,820	5,925	0	225	33,816	184,754	0.90%	0.91%
63	83,471	71,268	5,803	0	207	31,747	192,497	0.94%	0.95%
64	79,930	52,403	3,977	0	115	29,498	165,923	0.81%	0.82%
65	76,348	49,674	3,197	0	80	27,411	156,711	0.76%	0.77%
66	72,728	47,097	2,553	0	56	30,009	152,443	0.74%	0.75%
67	69,080	44,203	1,978	0	36	23,399	138,696	0.67%	0.69%
68	65,414	41,478	1,519	0	23	21,483	129,917	0.63%	0.64%
69	61,744	38,905	1,155	0	15	19,704	121,523	0.59%	0.60%
70	58,081	46,558	1,003	0	11	17,856	123,510	0.60%	0.61%
71	54,434	36,692	642	-	6	19,908	111,682	0.54%	0.55%
<b>Subtotals:</b>	<b>6,181,792</b>	<b>4,952,748</b>	<b>3,204,291</b>	<b>731,350</b>	<b>1,428,902</b>	<b>3,245,571</b>	<b>19,744,654</b>	<b>96.02%</b>	<b>95.96%</b>

Note: (a) Product of estimated payments (2018 level) shown on Appendix A, Exhibit II, Sheets 3a and 3b and survival probabilities shown on Appendix A, Exhibit II, Sheets 2a and 2b.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Sample Calculation of Payment Pattern - Birth Year 1996 - Estimated Remaining Payment (Reserves)

Estimated Loss & Expense Payments - 2018 Level - After Consideration of Mortality

Claim Number									Quarter Basis
Date of Birth								Percent of Total	Percent of Total
Life Expectancy @ 12/31/17	36.32	33.85	15.00	4.80	9.34	27.28		By Year	By Year
Sex	M	M	M	M	F	F	Totals	(9)	(10)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

Attained Age	Incremental Payments By Claim By Year - 2018 Level - After Mortality (a)								
72	50,809	30,983	440	-	3	14,574	96,809	0.47%	0.48%
73	47,213	28,341	301	-	2	12,974	88,830	0.43%	0.44%
74	43,657	25,861	202	-	1	11,509	81,230	0.40%	0.40%
75	40,153	23,528	132	-	0	10,167	73,980	0.36%	0.37%
76	36,714	21,116	82	-	0	10,423	68,335	0.33%	0.34%
77	33,358	24,340	58	-	0	7,642	65,398	0.32%	0.32%
78	30,102	16,790	28	-	0	6,560	53,480	0.26%	0.26%
79	26,964	14,707	15	-	0	5,526	47,213	0.23%	0.23%
80	23,962	12,805	8	-	0	4,611	41,386	0.20%	0.20%
81	21,109	12,134	4	-	0	4,688	37,936	0.18%	0.19%
82	18,420	9,401	2	-	0	3,069	30,892	0.15%	0.15%
83	15,909	7,912	1	-	0	2,437	26,259	0.13%	0.13%
84	13,585	8,495	0	-	0	1,902	23,983	0.12%	0.12%
85	11,460	5,375	0	-	-	1,440	18,275	0.09%	0.09%
86	9,538	4,328	0	-	-	1,256	15,121	0.07%	0.07%
87	7,823	3,436	0	-	-	767	12,025	0.06%	0.06%
88	6,314	2,657	0	-	-	530	9,502	0.05%	0.05%
89	5,009	2,019	0	-	-	354	7,381	0.04%	0.04%
90	3,898	1,504	0	-	-	226	5,629	0.03%	0.03%
91	2,971	1,504	-	-	-	169	4,644	0.02%	0.02%
92	2,214	764	-	-	-	78	3,056	0.01%	0.02%
93	1,609	523	-	-	-	42	2,175	0.01%	0.01%
94	1,139	344	-	-	-	21	1,504	0.01%	0.01%
95	782	219	-	-	-	9	1,011	0.00%	0.00%
96	521	134	-	-	-	5	660	0.00%	0.00%
97	335	78	-	-	-	1	415	0.00%	0.00%
98	208	57	-	-	-	0	265	0.00%	0.00%
99	124	23	-	-	-	0	147	0.00%	0.00%
100	71	12	-	-	-	0	82	0.00%	0.00%
101	40	6	-	-	-	0	47	0.00%	0.00%
102	23	3	-	-	-	0	26	0.00%	0.00%
103	13	1	-	-	-	0	14	0.00%	0.00%
104	7	1	-	-	-	0	8	0.00%	0.00%
105	4	0	-	-	-	0	5	0.00%	0.00%
106	2	0	-	-	-	0	3	0.00%	0.00%
107	1	0	-	-	-	0	1	0.00%	0.00%
108	1	0	-	-	-	0	1	0.00%	0.00%
109	0	0	-	-	-	0	0	0.00%	0.00%
110	0	0	-	-	-	0	0	0.00%	0.00%
111	0	0	-	-	-	0	0	0.00%	0.00%
112	0	0	-	-	-	0	0	0.00%	0.00%
113	0	0	-	-	-	0	0	0.00%	0.00%
114	0	0	-	-	-	0	0	0.00%	0.00%
115	0	0	-	-	-	0	0	0.00%	0.00%
116	0	0	-	-	-	0	0	0.00%	0.00%
117	0	0	-	-	-	0	0	0.00%	0.00%
118	0	0	-	-	-	0	0	0.00%	0.00%
119	0	0	-	-	-	0	0	0.00%	0.00%
120	0	0	-	-	-	0	0	0.00%	0.00%
121	-	-	-	-	-	-	-	0.00%	0.00%
Subtotals:	456,063	259,403	1,273	-	6	100,980	817,726	3.98%	4.04%
Totals All:	6,637,855	5,212,150	3,205,564	731,350	1,428,909	3,346,551	#####	100.00%	100.00%

Note: (a) Product of estimated payments (2018 level) shown on Appendix A, Exhibit II, Sheets 3a and 3b and survival probabilities shown on Appendix A, Exhibit II, Sheets 2a and 2b.

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Sample Calculation of Payment Pattern - Birth Year 1996

Probability of Survival - Assuming Attained Age 21

Claim Number

Date of Birth

Life Expectancy @ 12/31/17

Sex

36.32	33.85	15.00	4.80	9.34	27.28
M	M	M	M	F	F
(2)	(3)	(4)	(5)	(6)	(7)

Attained Age

22	0.98914	0.98738	0.95250	0.82608	0.91373	0.97996
23	0.97819	0.97468	0.90636	0.67956	0.83357	0.95999
24	0.96715	0.96191	0.86163	0.55677	0.75916	0.94008
25	0.95604	0.94907	0.81834	0.45435	0.69018	0.92024
26	0.94486	0.93618	0.77649	0.36927	0.62633	0.90046
27	0.93361	0.92323	0.73604	0.29884	0.56731	0.88075
28	0.92227	0.91020	0.69693	0.24070	0.51283	0.86110
29	0.91082	0.89707	0.65909	0.19285	0.46263	0.84152
30	0.89926	0.88384	0.62248	0.15363	0.41642	0.82200
31	0.88757	0.87049	0.58709	0.12164	0.37398	0.80253
32	0.87576	0.85704	0.55292	0.09572	0.33506	0.78313
33	0.86383	0.84348	0.51997	0.07484	0.29945	0.76379
34	0.85178	0.82981	0.48825	0.05812	0.26693	0.74453
35	0.83962	0.81605	0.45776	0.04483	0.23731	0.72534
36	0.82733	0.80217	0.42846	0.03433	0.21038	0.70621
37	0.81492	0.78820	0.40035	0.02608	0.18595	0.68716
38	0.80239	0.77411	0.37341	0.01965	0.16385	0.66819
39	0.78973	0.75992	0.34764	0.01469	0.14390	0.64929
40	0.77694	0.74563	0.32303	0.01088	0.12594	0.63047
41	0.76403	0.73124	0.29954	0.00798	0.10983	0.61173
42	0.75097	0.71672	0.27715	0.00580	0.09540	0.59306
43	0.73776	0.70207	0.25583	0.00417	0.08253	0.57447
44	0.72439	0.68729	0.23554	0.00296	0.07108	0.55596
45	0.71084	0.67235	0.21627	0.00207	0.06094	0.53753
46	0.69710	0.65726	0.19799	0.00143	0.05198	0.51918
47	0.68317	0.64200	0.18068	0.00097	0.04411	0.50091
48	0.66903	0.62656	0.16432	0.00065	0.03722	0.48273
49	0.65466	0.61092	0.14888	0.00043	0.03121	0.46463
50	0.64005	0.59509	0.13435	0.00027	0.02600	0.44662
51	0.62519	0.57904	0.12071	0.00017	0.02151	0.42870
52	0.61008	0.56278	0.10795	0.00011	0.01766	0.41089
53	0.59471	0.54631	0.09605	0.00006	0.01439	0.39320
54	0.57908	0.52963	0.08501	0.00004	0.01163	0.37565
55	0.56319	0.51275	0.07481	0.00002	0.00931	0.35826
56	0.54704	0.49566	0.06542	0.00001	0.00738	0.34105
57	0.53061	0.47837	0.05683	0.00001	0.00580	0.32401
58	0.51392	0.46089	0.04901	0.00000	0.00450	0.30716
59	0.49699	0.44325	0.04195	0.00000	0.00345	0.29052
60	0.47980	0.42544	0.03560	0.00000	0.00261	0.27410
61	0.46239	0.40750	0.02995	0.00000	0.00195	0.25793
62	0.44474	0.38943	0.02495	0.00000	0.00143	0.24202
63	0.42685	0.37124	0.02056	0.00000	0.00103	0.22641
64	0.40875	0.35295	0.01675	0.00000	0.00073	0.21112
65	0.39043	0.33457	0.01346	0.00000	0.00051	0.19618
66	0.37192	0.31614	0.01067	0.00000	0.00035	0.18162
67	0.35326	0.29772	0.00833	0.00000	0.00023	0.16747
68	0.33451	0.27936	0.00640	0.00000	0.00015	0.15376
69	0.31575	0.26116	0.00483	0.00000	0.00009	0.14052
70	0.29702	0.24316	0.00357	0.00000	0.00006	0.12779
71	0.27836	0.22542	0.00259	0.00000	0.00003	0.11559





Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Sample Calculation of Payment Pattern - Birth Year 1996

Estimated Loss & Expense Payments - 2018 Level - Before Consideration of Mortality

Claim Number							Percent
Date of Birth							of Total
Life Expectancy @ 12/31/17	36.32	33.85	15.00	4.80	9.34	27.28	
Sex	M	M	M	M	F	F	Totals
	(2)	(3)	(4)	(5)	(6)	(7)	(8)
							(9)

Attained Age **Incremental Payments By Claim By Year - 2018 Level - Before Mortality - @ 12/31/17**

22	124,100	174,700	60,855	42,300	167,734	130,100	699,789	0.61%
23	114,100	144,700	60,855	12,300	140,384	30,100	502,439	0.44%
24	120,100	150,672	239,254	241,804	140,884	85,872	978,586	0.86%
25	120,100	150,172	237,504	241,304	157,099	85,372	991,551	0.87%
26	120,100	150,172	237,504	241,304	162,099	110,372	1,021,551	0.90%
27	195,550	148,972	239,254	241,804	157,599	85,872	1,069,051	0.94%
28	195,550	191,472	280,504	284,304	200,099	128,372	1,280,301	1.12%
29	195,550	148,472	237,504	241,304	157,099	85,372	1,065,301	0.94%
30	195,550	148,972	239,254	241,804	157,599	85,872	1,069,051	0.94%
31	195,550	162,772	247,504	246,304	183,099	117,872	1,153,101	1.01%
32	195,550	148,472	237,504	241,304	157,099	85,372	1,065,301	0.94%
33	195,550	148,972	239,254	241,804	157,599	85,872	1,069,051	0.94%
34	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
35	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
36	195,550	148,972	239,254	241,804	162,599	165,223	1,153,402	1.01%
37	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
38	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
39	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
40	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
41	195,550	162,772	247,504	246,304	183,099	172,223	1,207,452	1.06%
42	195,550	191,972	282,254	284,804	200,599	140,223	1,295,402	1.14%
43	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
44	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
45	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
46	195,550	148,472	237,504	241,304	162,099	164,723	1,149,652	1.01%
47	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
48	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
49	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
50	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
51	195,550	163,272	249,254	246,804	183,599	172,723	1,211,202	1.06%
52	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
53	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
54	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
55	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
56	195,550	191,472	280,504	284,304	205,099	164,723	1,321,652	1.16%
57	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
58	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
59	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
60	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
61	195,550	162,772	247,504	246,304	183,099	172,223	1,207,452	1.06%
62	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
63	195,550	191,972	282,254	284,804	200,599	140,223	1,295,402	1.14%
64	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
65	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
66	195,550	148,972	239,254	241,804	162,599	165,223	1,153,402	1.01%
67	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
68	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
69	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
70	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
71	195,550	162,772	247,504	246,304	183,099	172,223	1,207,452	1.06%

Subtotals: 9,398,250 7,831,656 11,900,902 11,971,192 8,296,155 6,661,894 56,060,049 49.22%

Summary of Estimated Payment Patterns - Loss & Expense  
Based on NICA Reserve Worksheets and Mortality Rates

Sample Calculation of Payment Pattern - Birth Year 1996

Estimated Loss & Expense Payments - 2018 Level - Before Consideration of Mortality

Claim Number							Percent	
Date of Birth							of Total	
Life Expectancy @ 12/31/17	36.32	33.85	15.00	4.80	9.34	27.28	By Year	
Sex	M	M	M	M	F	F	Totals	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

Attained Age **Incremental Payments By Claim By Year - 2018 Level - Before Mortality - @ 12/31/17**

Attained Age	36.32	33.85	15.00	4.80	9.34	27.28	Totals	Percent of Total By Year
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
72	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
73	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
74	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
75	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
76	195,550	148,472	237,504	241,304	162,099	164,723	1,149,652	1.01%
77	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
78	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
79	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
80	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
81	195,550	163,272	249,254	246,804	183,599	172,723	1,211,202	1.06%
82	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
83	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
84	195,550	191,972	282,254	284,804	200,599	140,223	1,295,402	1.14%
85	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
86	195,550	148,472	237,504	241,304	162,099	164,723	1,149,652	1.01%
87	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
88	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
89	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
90	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
91	195,550	205,772	290,504	289,304	226,099	172,223	1,379,452	1.21%
92	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
93	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
94	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
95	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
96	195,550	148,972	239,254	241,804	162,599	165,223	1,153,402	1.01%
97	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
98	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
99	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
100	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
101	195,550	162,772	247,504	246,304	183,099	172,223	1,207,452	1.06%
102	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
103	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
104	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
105	195,550	191,972	282,254	284,804	200,599	140,223	1,295,402	1.14%
106	195,550	148,472	237,504	241,304	162,099	164,723	1,149,652	1.01%
107	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
108	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
109	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
110	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
111	195,550	163,272	249,254	246,804	183,599	172,723	1,211,202	1.06%
112	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
113	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
114	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
115	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
116	195,550	148,472	237,504	241,304	162,099	164,723	1,149,652	1.01%
117	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
118	195,550	148,472	237,504	241,304	157,099	139,723	1,119,652	0.98%
119	195,550	191,472	280,504	284,304	200,099	139,723	1,291,652	1.13%
120	195,550	148,972	239,254	241,804	157,599	140,223	1,123,402	0.99%
121	195,550	162,772	247,504	246,304	183,099	172,223	1,207,452	1.06%
Subtotals:	9,777,500	7,804,600	12,255,950	12,399,700	8,319,450	7,282,150	57,839,350	50.78%
Totals All:	19,175,750	15,636,256	24,156,852	24,370,892	16,615,605	13,944,044	113,899,399	100.00%

Expense Group	Accident Year	Accident Year	Accident Year	Accident Year	Accident Year	Accident Year	Accident Year	Accident Year	Estimated Accident Year
	1/1 - 12/31 2010	1/1 - 12/31 2011	1/1 - 12/31 2012	1/1 - 12/31 2013	1/1 - 12/31 2014	1/1 - 12/31 2015	1/1 - 12/31 2016	1/1 - 12/31 2017	1/1 - 12/31 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>Incremental Payments By Major Expense Groups</b>									
Legal Expense	N/A	1,348,962	1,472,264	1,046,543	1,232,427	668,653	484,569	584,838	584,838
Parental Award	N/A	1,772,862	854,442	1,254,414	1,404,094	1,186,749	1,254,253	1,365,273	1,365,273
Medical Expense	N/A	795,785	792,882	845,548	967,563	974,935	967,347	939,392	939,392
Nursing Care - By Parents & Family Care	N/A	5,533,089	5,409,777	6,505,561	7,530,367	8,620,254	9,627,298	10,349,737	10,349,737
Nursing Care - By Others	N/A	2,555,000	3,010,739	2,668,850	2,444,120	2,416,880	2,418,489	1,972,943	1,972,943
Custodial	N/A	19,113	98,021	73,571	172,325	30,724	50,965	130,563	130,563
Other	N/A	2,305,512	1,339,156	1,717,202	1,761,129	1,925,764	1,627,714	2,218,698	2,218,698
Totals:		14,330,324	12,977,280	14,111,688	15,512,025	15,823,958	16,430,635	17,561,445	17,561,445
<b>Case Outstanding By Major Expense Groups</b>									
Legal Expense	1,659,638	2,385,144	836,323	660,811	228,321	88,453	168,803	-	-
Parental Award	589,640	605,992	353,242	603,806	515,023	812,964	558,710	552,204	552,204
Medical Expense	45,291,470	53,134,220	51,818,777	52,678,076	54,293,469	56,178,917	53,776,781	54,909,282	54,909,282
Nursing Care - By Parents & Family Care	82,024,515	85,104,653	130,484,827	122,444,207	138,840,113	154,500,907	160,582,139	167,831,990	167,831,990
Nursing Care - By Others	283,976,757	319,886,113	285,088,770	292,576,532	284,914,056	284,634,842	278,707,710	282,636,036	282,636,036
Custodial	56,034,080	60,833,849	118,024,732	117,392,957	132,525,811	134,228,759	151,741,811	138,361,013	138,361,013
Other	68,822,838	77,191,310	75,879,069	76,658,051	78,245,243	82,827,705	80,001,953	83,707,417	83,707,417
Totals:	538,398,938	599,141,281	662,485,739	663,014,440	689,562,035	713,272,547	725,537,907	727,997,942	727,997,942
<b>Percentage by Expense Group - Based on Incremental Payments</b>									
Legal Expense	10.75%	9.41%	11.34%	7.42%	7.94%	4.23%	2.95%	3.33%	3.33%
Parental Award	13.53%	12.37%	6.58%	8.89%	9.05%	7.50%	7.63%	7.77%	7.77%
Medical Expense	5.60%	5.55%	6.11%	5.99%	6.24%	6.16%	5.89%	5.35%	5.35%
Nursing Care - By Parents & Family Care	36.63%	38.61%	41.69%	46.10%	48.55%	54.48%	58.59%	58.93%	58.93%
Nursing Care - By Others	18.92%	17.83%	23.20%	18.91%	15.76%	15.27%	14.72%	11.23%	11.23%
Custodial	0.15%	0.13%	0.76%	0.52%	1.11%	0.19%	0.31%	0.74%	0.74%
Other	14.41%	16.09%	10.32%	12.17%	11.35%	12.17%	9.91%	12.63%	12.63%
<b>Percentage by Expense Group - Based on Case Outstanding</b>									
Legal Expense	0.31%	0.40%	0.13%	0.10%	0.03%	0.01%	0.02%	0.00%	0.00%
Parental Award	0.11%	0.10%	0.05%	0.09%	0.07%	0.11%	0.08%	0.08%	0.08%
Medical Expense	8.41%	8.87%	7.82%	7.95%	7.87%	7.88%	7.41%	7.54%	7.54%
Nursing Care - By Parents & Family Care	15.23%	14.20%	19.70%	18.47%	20.13%	21.66%	22.13%	23.05%	23.05%
Nursing Care - By Others	52.74%	53.39%	43.03%	44.13%	41.32%	39.91%	38.41%	38.82%	38.82%
Custodial	10.41%	10.15%	17.82%	17.71%	19.22%	18.82%	20.91%	19.01%	19.01%
Other	12.78%	12.88%	11.45%	11.56%	11.35%	11.61%	11.03%	11.50%	11.50%
<b>Estimated Inflation By Component - Paid Basis</b>									
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (c)	3.28%	3.49%	3.21%	2.01%	2.96%	2.58%	4.07%	1.78%	1.29%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.99%	0.00%
Custodial (f)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other (g)	1.50%	2.96%	1.74%	1.50%	0.76%	0.73%	2.07%	2.11%	1.23%
<b>Estimated Inflation By Component - Outstanding Basis</b>									
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (h)	1.97%	2.09%	1.93%	1.21%	1.77%	1.55%	2.44%	1.07%	0.78%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00%
Custodial (f)	0.00%	0.00%	95.00%	3.00%	0.00%	0.00%	4.50%	0.00%	0.00%
Other (h)	0.90%	1.78%	1.04%	0.90%	0.45%	0.44%	1.24%	1.27%	0.74%
<b>Combined (i)</b>									
Estimated Inflation - Paid Basis	0.78%	1.00%	0.78%	0.57%	0.55%	0.40%	0.69%	0.59%	0.34%
Estimated Inflation - O/S Basis	0.29%	0.42%	9.83%	0.72%	0.19%	0.17%	2.01%	0.22%	0.14%

Note: See Appendix B, Exhibit I, Sheet 4 for footnotes.

Expense Group	Accident Year 1/1 - 12/31 2000	Accident Year 1/1 - 12/31 2001	Accident Year 1/1 - 12/31 2002	Accident Year 1/1 - 12/31 2003	Accident Year 1/1 - 12/31 2004	Accident Year 1/1 - 12/31 2005	Accident Year 1/1 - 12/31 2006	Accident Year 1/1 - 12/31 2007	Accident Year 1/1 - 12/31 2008	Accident Year 1/1 - 12/31 2009
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Incremental Payments By Major Expense Groups</b>										
Legal Expense	547,451	789,578	768,406	699,574	753,238	761,521	768,799	911,182	1,117,819	1,251,650
Parental Award	1,684,863	1,569,503	1,380,762	1,448,569	1,266,247	987,149	1,088,568	1,483,153	1,621,648	1,521,430
Medical Expense	324,050	361,786	316,867	379,945	477,673	486,436	414,019	438,949	502,243	584,938
Nursing Care - By Parents & Family Care	77,850	107,770	265,098	500,284	664,698	959,815	1,287,167	1,455,477	2,280,726	3,586,973
Nursing Care - By Others	1,661,676	1,774,150	1,570,635	1,664,923	1,767,678	2,126,820	2,368,333	2,187,588	2,022,477	2,072,130
Custodial	47,053	14,388	7,179	13,490	29,407	19,776	20,370	38,594	29,076	18,070
Other	406,846	640,781	809,365	834,009	1,296,472	1,401,403	1,083,585	1,177,848	1,338,828	1,317,625
Totals:	4,749,789	5,257,955	5,118,312	5,540,794	6,255,412	6,742,920	7,030,842	7,692,791	8,912,818	10,352,817
<b>Case Outstanding By Major Expense Groups</b>										
Legal Expense									739,159	1,016,335
Parental Award									311,440	371,029
Medical Expense									28,168,684	31,284,580
Nursing Care - By Parents & Family Care									51,105,085	61,522,465
Nursing Care - By Others									229,063,637	247,156,314
Custodial									64,170,720	55,975,200
Other									52,596,208	58,056,740
Totals:									426,154,933	455,382,663
<b>Percentage by Expense Group - Based on Incremental Payments</b>										
Legal Expense	11.53%	15.02%	15.01%	12.63%	12.04%	11.29%	10.93%	11.84%	12.54%	12.09%
Parental Award	35.47%	29.85%	26.98%	26.14%	20.24%	14.64%	15.48%	19.28%	18.19%	14.70%
Medical Expense	6.82%	6.88%	6.19%	6.86%	7.64%	7.21%	5.89%	5.71%	5.64%	5.65%
Nursing Care - By Parents & Family Care	1.64%	2.05%	5.18%	9.03%	10.63%	14.23%	18.31%	18.92%	25.59%	34.65%
Nursing Care - By Others	34.98%	33.74%	30.69%	30.05%	28.26%	31.54%	33.68%	28.44%	22.69%	20.02%
Custodial	0.99%	0.27%	0.14%	0.24%	0.47%	0.29%	0.29%	0.50%	0.33%	0.17%
Other	8.57%	12.19%	15.81%	15.05%	20.73%	20.78%	15.41%	15.31%	15.02%	12.73%
<b>Percentage by Expense Group - Based on Case Outstanding</b>										
Legal Expense	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.22%
Parental Award	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.08%
Medical Expense	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.87%
Nursing Care - By Parents & Family Care	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	13.51%
Nursing Care - By Others	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	54.27%
Custodial	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	12.29%
Other	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.75%
<b>Estimated Inflation By Component - Paid Basis</b>										
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (c)	4.17%	4.72%	5.05%	3.71%	4.24%	4.29%	3.56%	5.16%	2.65%	3.37%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	27.32%	21.46%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Custodial (f)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other (g)	3.39%	1.55%	2.38%	1.88%	3.26%	3.42%	2.54%	4.08%	0.09%	2.72%
<b>Estimated Inflation By Component - Outstanding Basis</b>										
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (h)	2.50%	2.83%	3.03%	2.22%	2.54%	2.57%	2.14%	3.10%	1.59%	2.02%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	54.64%	0.00%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Custodial (f)	0.00%	0.00%	0.00%	0.00%	40.00%	3.00%	40.00%	0.00%	0.00%	0.00%
Other (h)	2.03%	0.93%	1.43%	1.13%	1.95%	2.05%	1.52%	2.45%	0.05%	1.63%
<b>Combined (i)</b>										
Estimated Inflation - Paid Basis	0.98%	1.05%	1.22%	0.99%	1.42%	1.41%	0.99%	1.32%	6.50%	7.62%
Estimated Inflation - O/S Basis	0.42%	0.30%	0.38%	0.29%	4.94%	0.87%	4.86%	0.50%	4.55%	0.35%

Note: See Appendix B, Exhibit I, Sheet 4 for footnotes.

Expense Group	Accident Year 1/1 - 12/31 1990	Accident Year 1/1 - 12/31 1991	Accident Year 1/1 - 12/31 1992	Accident Year 1/1 - 12/31 1993	Accident Year 1/1 - 12/31 1994	Accident Year 1/1 - 12/31 1995	Accident Year 1/1 - 12/31 1996	Accident Year 1/1 - 12/31 1997	Accident Year 1/1 - 12/31 1998	Accident Year 1/1 - 12/31 1999
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Incremental Payments By Major Expense Groups</b>										
Legal Expense	N/A	192,899	361,181	423,066	495,111	611,088	566,488	466,635	535,583	489,006
Parental Award	N/A	574,493	682,393	568,464	1,034,652	1,775,690	1,305,192	1,065,584	1,452,768	1,556,838
Medical Expense	N/A	111,200	100,481	114,259	120,146	140,970	170,987	187,374	326,563	335,203
Nursing Care - By Parents & Family Care	N/A	125,469	104,966	46,536	18,312	42,905	60,030	39,920	87,805	84,323
Nursing Care - By Others	N/A	47,350	80,085	109,144	135,969	265,078	505,495	769,201	974,683	1,123,079
Custodial	N/A	19,122	77,831	107,096	93,591	93,012	100,527	121,690	136,171	103,378
Other	N/A	43,241	73,598	73,204	69,438	118,678	179,756	257,990	317,394	357,161
Totals:		1,113,775	1,480,534	1,441,768	1,967,220	3,047,422	2,888,475	2,908,394	3,830,965	4,048,988
<b>Case Outstanding By Major Expense Groups</b>										
Legal Expense										
Parental Award										
Medical Expense										
Nursing Care - By Parents & Family Care										
Nursing Care - By Others										
Custodial										
Other										
Totals:										
<b>Percentage by Expense Group - Based on Incremental Payments</b>										
Legal Expense	17.32%	17.32%	24.40%	29.34%	25.17%	20.05%	19.61%	16.04%	13.98%	12.08%
Parental Award	51.58%	51.58%	46.09%	39.43%	52.59%	58.27%	45.19%	36.64%	37.92%	38.45%
Medical Expense	9.98%	9.98%	6.79%	7.92%	6.11%	4.63%	5.92%	6.44%	8.52%	8.28%
Nursing Care - By Parents & Family Care	11.27%	11.27%	7.09%	3.23%	0.93%	1.41%	2.08%	1.37%	2.29%	2.08%
Nursing Care - By Others	4.25%	4.25%	5.41%	7.57%	6.91%	8.70%	17.50%	26.45%	25.44%	27.74%
Custodial	1.72%	1.72%	5.26%	7.43%	4.76%	3.05%	3.48%	4.18%	3.55%	2.55%
Other	3.88%	3.88%	4.97%	5.08%	3.53%	3.89%	6.22%	8.87%	8.28%	8.82%
<b>Percentage by Expense Group - Based on Case Outstanding</b>										
Legal Expense	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%
Parental Award	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Medical Expense	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%	6.61%
Nursing Care - By Parents & Family Care	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%	11.99%
Nursing Care - By Others	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%	53.75%
Custodial	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%	15.06%
Other	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%	12.34%
<b>Estimated Inflation By Component - Paid Basis</b>										
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (c)	9.59%	7.92%	6.63%	5.39%	4.92%	3.95%	3.04%	2.82%	3.42%	3.67%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Custodial (f)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other (g)	6.11%	3.06%	2.90%	2.75%	2.67%	2.54%	3.32%	1.70%	1.61%	2.68%
<b>Estimated Inflation By Component - Outstanding Basis</b>										
Legal Expense (a)	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%	3.72%
Parental Award (b)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Medical Expense (h)	5.75%	4.75%	3.98%	3.24%	2.95%	2.37%	1.82%	1.69%	2.05%	2.20%
Nursing Care - By Parents & Family Care (d)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nursing Care - By Others (e)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Custodial (f)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other (h)	3.66%	1.84%	1.74%	1.65%	1.60%	1.52%	1.99%	1.02%	0.97%	1.61%
<b>Combined (i)</b>										
Estimated Inflation - Paid Basis	1.75%	1.49%	1.46%	1.62%	1.30%	1.00%	1.09%	0.91%	0.92%	0.97%
Estimated Inflation - O/S Basis	0.81%	0.53%	0.47%	0.42%	0.39%	0.35%	0.37%	0.24%	0.26%	0.35%

Note: See Appendix B, Exhibit I, Sheet 4 for footnotes.

**Footnotes for Appendix B, Exhibit I, Sheets 1 to 3**

- Notes: (a) Increase in legal fees based on change in hourly rate from \$ 75 to \$ 150 over the period from 1989 to 2008 - assumed annual inflation of 3.72 %
- (b) The parental award amounts have not changed.
- (c) The estimated inflation rate by year for all payments related to medical items is based on the CPI - Medical Care Index.
- (d) The hourly rates for nursing care by parents have remained constant until June 2008 - the estimated change for 2008 and 2009 are developed assuming the increase in hourly rate from \$9.70 to \$15.00 occurred for paid losses before and after July 1, 2008. This change in hourly rate for nursing care by parents resulted in inflation rates of 27.32% ( $\$12.35 / \$9.70$ ) and 21.46% ( $\$15.00 / \$12.35$ ) for 2008 and 2009, respectively for paid basis. It resulted in an inflation rate of 54.64% ( $\$15.00 / \$9.70$ ) for case outstanding basis in 2008.
- (e) The hourly rate for LPN under nursing care by others have increased from \$24.45 to \$25.40 effective 7/1/2016.
- (f) The daily rates used to estimate the future cost of custodial residential care were revised in December 2004, 2005, 2006, 2012 2013 and 2016. These changes in the custodial residential care daily rate resulted in the estimated inflation rates of 40%, 3%, 40%, 95%, 3% and 4.5% for 2004, 2005, 2006, 2012, 2013 & 2016, respectively. This inflation change affects outstanding only.
- (g) Inflation related to all other payments is based on All Items CPI Index - Seasonally Adjusted.
- (h) The estimated inflation related to case outstanding (Medical and Other) is based on 60 % of CPI since a portion of the outstanding reserve estimate has not changed.
- (i) Weighted average of inverse of one plus the estimated inflation by component and the percent by component (paid and outstanding separately).







Development of Incurred Loss Tail Factor - 354 Months to Ultimate  
Based on Inverse Power Curve Fit to Weighted Average All Year Factors

Summary of Indicated Tail Factors  
Based on Alternative Time Intervals  
Beginning at 54:66, 66:78 and 78:90 Month Factors (a)

Fitted Interval	Wtd. Avg. All Years Beginning with Factor 66:78			Indicated Tail Factor 354:Ult.	Indicated Tail Factor 354:Ult.
	Intercept Ln (a)	Slope b	Indicated Tail Factor 354:Ult.	Based on Fitted Values Beginning with 54:66 Factor	Based on Fitted Values Beginning with 78:90 Factor
(1)	(2)	(3)	(4)	(5)	(6)
First 11 Factors	(1.0345)	1.7559	1.0126	1.0069	1.0207
First 10 Factors	(2.2545)	1.1990	1.0291	1.0013	1.0461
First 9 Factors	0.3391	2.3983	1.0047	1.0026	1.1989
First 8 Factors	(1.4239)	1.5718	1.0169	1.0001	1.0267
First 7 Factors	4.6216	4.4476	1.0002	1.0001	1.3151
First 6 Factors	3.6855	3.9953	1.0004	1.0004	1.0011
First 5 Factors	(0.0600)	2.1548	1.0078	1.0000	1.0081
Average of All			1.0102	1.0016	1.0881
Selected Tail Factor 354:Ult.			1.1010		

Note: (a) Indicated tail factor based on inverse power curve fit (with  $y = 1 + a / (t + c)^b$  where  $c = -1$ ) to various time intervals as described in column (1). An example is shown in Appendix C, Exhibit II, Sheets 1 and 2.

Development of Incurred Loss Tail Factor - 354 Months to Ultimate  
Based on Inverse Power Curve Fit to Weighted Average All Year Factors

Example Shown Below for Fit to First Ten Dollar Weighted Average All Factors - Beginning with 54:66

Maturity	T Value	Incremental Development Factor (a)	Dev. Factor Minus 1.0 D Fact - 1 (3) - 1.0	X Value Ln(1/t) Log (1/ Col.(2))	Y Value Ln (Fact-1) Log (Col. (4))	Fitted Value Ln (Fact-1) Y = Col. (6) X = Col. (5)	Fitted Value Exp (Col. (7))	Fitted Loss Dev. Factor 1.0 + Col. (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
54	5.5	1.13744	0.1374	-1.7047	-1.9845	-2.9951	0.0500	1.0500
66	6.5	1.04502	0.0450	-1.8718	-3.1006	-3.5702	0.0282	1.0282
78	7.5	1.00147	0.0015	-2.0149	-6.5226	-4.0629	0.0172	1.0172
90	8.5	1.07413	0.0741	-2.1401	-2.6019	-4.4938	0.0112	1.0112
102	9.5	1.00100	0.0010	-2.2513	-6.9078	-4.8767	0.0076	1.0076
114	10.5	1.01705	0.0170	-2.3514	-4.0717	-5.2212	0.0054	1.0054
126	11.5	1.00100	0.0010	-2.4423	-6.9078	-5.5344	0.0039	1.0039
138	12.5	1.00100	0.0010	-2.5257	-6.9078	-5.8215	0.0030	1.0030
150	13.5	1.05091	0.0509	-2.6027	-2.9776	-6.0864	0.0023	1.0023
162	14.5	1.00090	0.0009	-2.6741	-7.0124	-6.3325	0.0018	1.0018

(10) Ln a - Intercept =====> 2.8739  
 (11) a =====> 17.7059  
 (12) b - Slope =====> 3.4427  
 (13) Indicated Tail 354 to Ultimate =====> 1.0013  
 (14) Selected Tail 354 to Ultimate =====> 1.1010

Note: (a) Based on inverse power curve fit to the incurred loss development (weighted average all years) factors as shown on Exhibit VII, Sheets 2b-1, 2, and 3, factors from 54:66 to 162:174.

Development of Incurred Loss Tail Factor - 354 Months to Ultimate

Based on Inverse Power Curve Fit to Factors Shown in Appendix C, Exhibit II, Sheet 1

Extrapolated to 618 Months - Based on Approximate Life Expectancy at Age 29 (354 months)

Maturity	T Value	X Value		Fitted Value Exp (Col. (4))	Fitted Loss	Fitted Loss Dev. Factor Cumulative Product of Col. (6)
		Ln(1/t) Log (1/ Col.(2))	Fitted Value (a) Ln (Fact-1)		(Incremental) 1.0 + Col. (5)	
-----	-----	-----	-----	-----	-----	-----
(1)	(2)	(3)	(4)	(5)	(6)	(7)
354	30.5	-3.41773	-8.8924	0.0001	1.0001	1.0013
366	31.5	-3.44999	-9.0035	0.0001	1.0001	1.0012
378	32.5	-3.48124	-9.1111	0.0001	1.0001	1.0011
390	33.5	-3.51155	-9.2154	0.0001	1.0001	1.0010
402	34.5	-3.54096	-9.3166	0.0001	1.0001	1.0009
414	35.5	-3.56953	-9.4150	0.0001	1.0001	1.0008
426	36.5	-3.59731	-9.5107	0.0001	1.0001	1.0007
438	37.5	-3.62434	-9.6037	0.0001	1.0001	1.0006
450	38.5	-3.65066	-9.6943	0.0001	1.0001	1.0006
462	39.5	-3.67630	-9.7826	0.0001	1.0001	1.0005
474	40.5	-3.70130	-9.8687	0.0001	1.0001	1.0004
486	41.5	-3.72569	-9.9526	0.0000	1.0000	1.0004
498	42.5	-3.74950	-10.0346	0.0000	1.0000	1.0003
510	43.5	-3.77276	-10.1147	0.0000	1.0000	1.0003
522	44.5	-3.79549	-10.1929	0.0000	1.0000	1.0003
534	45.5	-3.81771	-10.2694	0.0000	1.0000	1.0002
546	46.5	-3.83945	-10.3443	0.0000	1.0000	1.0002
558	47.5	-3.86073	-10.4175	0.0000	1.0000	1.0002
570	48.5	-3.88156	-10.4893	0.0000	1.0000	1.0001
582	49.5	-3.90197	-10.5595	0.0000	1.0000	1.0001
594	50.5	-3.92197	-10.6284	0.0000	1.0000	1.0001
606	51.5	-3.94158	-10.6959	0.0000	1.0000	1.0000
618	52.5	-3.96081	-10.7621	0.0000	1.0000	1.0000

Note: (a) Based on Slope and Intercept values shown in Appendix C, Exhibit II, Sheet 1 and X value shown in Column (3) above.

Actual Paid Loss and ALAE  
Current Level Basis

Before Reinsurance Recovery

Birth Year	Paid Loss & ALAE											
	@ 12/31/09 (a)	@ 12/31/10 (a)	@ 12/31/11 (a)	@ 12/31/12 (b)	@ 12/31/13 (b)	@ 12/31/14 (b)	@ 12/31/15 (b)	@ 12/31/16 (b)	@ 12/31/17 (b)	@ 3/31/18 (b)	@ 6/30/18 (b)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	10,186,409	10,458,034	10,858,188	11,264,469	11,960,429	12,703,237	13,334,954	13,907,887	14,267,027	14,337,104	14,457,377	
1990	3,723,264	3,837,883	3,989,667	4,134,429	4,739,750	5,431,197	5,637,024	5,823,482	6,017,106	6,067,308	6,156,269	
1991	3,412,646	3,925,649	4,405,095	5,367,300	6,403,902	7,111,676	7,663,287	8,163,390	8,706,421	8,881,496	9,046,273	
1992	6,464,261	7,013,018	7,772,126	8,309,249	10,486,924	11,960,130	12,815,067	13,662,902	14,588,741	14,790,075	15,092,844	
1993	11,600,217	12,313,100	13,089,455	13,913,903	15,456,495	16,811,505	17,688,776	18,583,444	19,373,096	19,596,791	19,863,797	
1994	4,883,079	5,023,121	5,198,208	5,344,508	5,989,723	6,458,956	6,706,993	6,946,563	7,192,264	7,288,259	7,356,948	
1995	3,873,071	4,829,658	5,595,923	5,921,580	7,168,370	8,042,178	8,707,711	9,315,298	10,038,156	10,173,105	10,319,438	
1996	5,071,490	5,506,117	5,973,099	6,311,867	7,106,412	7,899,721	8,279,761	8,658,214	9,129,668	9,268,425	9,390,428	
1997	5,207,959	5,901,603	6,522,569	7,543,370	9,312,837	10,296,445	10,877,579	11,452,153	11,977,563	12,102,903	12,282,153	
1998	8,112,136	9,116,042	10,194,077	11,277,495	13,609,770	15,863,619	17,129,762	18,446,385	19,760,086	20,041,584	20,476,453	
1999	6,164,930	6,912,528	7,719,729	8,273,551	9,732,949	10,418,299	10,955,512	11,455,006	11,901,286	11,970,110	12,049,141	
2000	2,965,732	3,276,769	3,514,181	3,762,460	4,317,207	4,972,975	5,238,763	5,520,902	5,837,741	5,931,021	6,015,562	
2001	3,883,121	4,175,734	4,515,405	4,842,890	5,425,462	5,877,102	6,434,214	6,883,540	7,320,379	7,427,496	7,540,149	
2002	5,826,962	6,856,989	7,727,861	8,707,708	10,580,391	11,973,470	13,103,213	14,202,065	15,119,824	15,436,724	15,716,055	
2003	1,772,921	1,930,389	2,203,060	2,495,687	2,753,640	3,099,320	3,596,458	3,994,291	4,352,130	4,439,571	4,503,829	
2004	2,171,906	2,595,632	2,994,077	3,215,209	3,522,795	3,877,573	4,192,045	4,475,363	4,770,134	4,864,707	4,951,370	
2005	2,142,949	3,240,890	3,997,772	4,719,465	5,198,978	5,677,987	6,111,341	6,586,084	7,095,668	7,211,469	7,401,376	
2006	1,291,184	2,233,340	3,934,023	4,901,878	5,614,611	6,260,850	6,868,225	7,525,340	8,325,390	8,504,873	8,671,977	
2007	909,414	2,145,757	3,232,481	4,101,955	5,212,346	6,071,909	7,004,826	7,953,448	8,849,635	9,020,232	9,233,881	
2008	287,894	916,649	1,407,917	2,014,976	2,355,509	2,934,059	3,572,068	4,287,731	5,061,580	5,215,974	5,373,662	
2009	114,839	628,299	1,532,304	2,438,709	3,142,736	3,691,740	4,230,225	5,156,527	6,451,376	6,594,291	6,776,300	
2010		116,166	895,231	1,203,035	1,818,188	2,065,585	2,245,502	2,456,858	2,674,347	2,724,766	2,772,713	
2011			11,245	178,666	877,041	1,559,805	2,333,485	3,117,907	3,794,991	3,906,899	4,034,720	
2012				16,611	97,446	898,196	1,645,365	2,061,021	2,323,849	2,422,340	2,481,727	
2013						114,394	873,399	1,747,648	2,424,840	3,154,345	3,291,551	3,470,772
2014							116,952	652,037	1,765,040	2,940,791	3,352,776	3,625,094
2015								0	365,465	1,346,365	1,547,419	1,751,089
2016									10,326	390,803	508,937	525,854
2017										5,229	170,743	419,099
2018											0	1,406
Totals:												
2009 & Prior	90,066,385	102,837,202	116,377,216	128,862,658	150,091,237	167,433,947	180,147,805	193,000,014	206,135,268	209,163,518	212,675,282	
2010 & Prior		102,953,368	117,272,447	130,065,693	151,909,425	169,499,532	182,393,308	195,456,871	208,809,616	211,888,283	215,447,995	
2011 & Prior			117,283,692	130,244,359	152,786,466	171,059,337	184,726,793	198,574,778	212,604,607	215,795,183	219,482,716	
2012 & Prior				130,260,969	152,883,912	171,957,533	186,372,157	200,635,799	214,928,456	218,217,522	221,964,443	
2013 & Prior					152,998,305	172,830,932	188,119,805	203,060,639	218,082,801	221,509,073	225,435,215	
2014 & Prior						172,947,884	188,771,842	204,825,679	221,023,592	224,861,849	229,060,309	
2015 & Prior							188,771,842	205,191,144	222,369,957	226,409,268	230,811,398	
2016 & Prior								205,201,470	222,760,760	226,918,205	231,337,252	
2017 & Prior									222,765,989	227,088,947	231,756,351	
2018 & Prior										227,088,947	231,757,758	

Notes: (a) Based on actual paid loss and ALAE as shown in Exhibit I, Sheet 1c, Column (4) of reserve reports evaluated as of 12/31/2011 and prior,  
(b) Based on actual paid loss and ALAE as shown in Exhibit I, Sheet 1a, Column (4) of reserve reports evaluated as of 12/31/2012 and subsequent.

Actual Incurred Loss and ALAE  
Current Level Basis  
Before Inflation and Discount  
Before Reinsurance Recovery

Birth Year	Incurred Loss & ALAE										
	@ 12/31/09 (a)	@ 12/31/10 (a)	@ 12/31/11 (a)	@ 12/31/12 (b)	@ 12/31/13 (b)	@ 12/31/14 (b)	@ 12/31/15 (b)	@ 12/31/16 (b)	@ 12/31/17 (b)	@ 3/31/18 (b)	@ 6/30/18 (b)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1989	25,392,567	26,078,544	25,583,011	27,706,619	26,373,709	26,675,829	26,051,832	26,326,147	25,441,183	25,441,195	25,441,195
1990	13,314,815	10,443,544	10,543,426	12,118,649	11,460,479	11,121,608	11,216,567	11,406,760	12,078,863	12,078,863	12,078,863
1991	22,161,349	22,464,393	23,417,200	28,845,823	27,053,131	27,437,409	27,781,984	28,295,975	27,582,759	27,582,759	27,582,759
1992	45,578,473	45,939,767	46,942,773	55,890,448	52,815,766	52,867,490	50,976,324	51,656,458	51,825,758	51,825,758	51,825,758
1993	45,769,261	46,809,981	42,703,727	48,709,272	44,371,745	44,496,964	45,096,852	45,229,024	44,240,688	44,240,688	44,240,688
1994	15,697,230	16,210,446	18,343,661	20,873,806	20,730,853	20,768,073	21,178,550	21,338,915	20,463,924	20,463,924	20,463,924
1995	30,541,666	29,252,587	27,611,220	28,549,550	31,116,266	31,193,690	30,817,517	31,573,999	32,530,259	32,530,259	32,530,259
1996	32,557,199	32,684,558	24,024,889	28,929,040	28,427,439	30,016,711	28,837,569	29,370,705	30,070,691	30,070,691	30,070,691
1997	38,463,312	43,675,859	41,626,317	44,901,093	45,773,854	42,295,331	41,082,818	41,695,864	39,746,715	39,746,715	39,746,715
1998	54,563,346	61,812,278	60,372,902	69,428,161	71,845,599	74,110,454	74,869,360	73,947,873	67,690,266	67,690,266	67,674,037
1999	26,384,594	30,676,593	27,364,683	30,621,162	30,621,162	26,815,846	27,279,195	26,851,564	26,469,569	26,470,146	26,470,171
2000	22,486,180	21,268,225	17,120,713	21,576,045	18,959,802	19,436,294	19,326,133	19,745,527	21,260,799	21,260,863	21,260,863
2001	21,353,204	24,146,698	22,453,008	27,428,112	26,466,604	26,011,537	27,662,585	28,764,655	29,028,446	29,028,446	29,028,446
2002	67,771,825	65,863,004	75,780,805	81,408,182	80,239,381	75,578,631	73,816,750	71,230,346	69,075,832	69,075,832	69,076,610
2003	11,350,748	13,844,639	15,168,263	15,986,156	15,239,817	15,719,835	15,365,678	15,565,872	18,044,410	18,044,492	18,044,492
2004	26,994,425	22,859,791	23,353,511	23,639,048	24,722,792	24,881,802	24,763,096	24,467,783	27,934,816	27,935,046	27,935,046
2005	40,349,156	51,636,560	49,969,413	50,170,611	41,236,975	33,705,260	32,296,495	33,337,907	32,289,079	32,289,484	32,289,484
2006	33,495,282	37,658,562	48,568,924	49,129,618	48,994,258	50,001,133	52,359,974	53,254,022	48,406,081	48,389,040	48,389,040
2007	16,105,434	32,149,065	42,727,201	45,320,710	43,306,651	43,280,986	41,872,020	43,492,063	38,318,675	38,318,801	38,318,801
2008	19,305,512	27,518,410	45,383,414	47,873,092	52,865,872	50,399,012	56,105,819	52,603,536	52,483,297	52,499,877	52,503,121
2009	2,400,124	12,214,510	32,754,971	43,304,404	47,846,038	45,798,713	48,326,705	52,107,418	58,470,612	58,476,848	58,445,338
2010		367,288	11,709,849	23,432,658	28,572,781	27,241,537	27,631,375	26,491,003	28,170,398	28,170,594	28,200,594
2011			8,025,000	18,092,817	27,966,715	38,554,067	47,898,365	46,663,004	47,391,514	47,391,740	47,451,740
2012				12,090,000	20,346,124	28,272,096	31,340,190	24,080,908	28,663,775	28,664,285	28,620,800
2013					8,415,555	14,108,083	24,160,711	27,946,444	30,675,106	30,675,106	30,662,308
2014						6,459,800	22,999,374	37,678,801	39,204,196	39,180,693	39,199,406
2015							0	18,702,803	25,309,491	27,996,976	33,175,684
2016								2,984,445	3,189,395	3,219,781	6,998,528
2017									220,615	5,797,006	6,902,727
2018										0	2,820,000
Totals:											
2009 & Prior	612,035,700	675,208,013	721,814,030	801,214,619	790,468,191	772,612,609	777,083,824	782,262,417	773,452,725	773,460,748	773,416,303
2010 & Prior		675,575,300	733,523,879	824,647,277	819,040,972	799,854,146	804,715,198	808,753,421	801,623,124	801,631,342	801,616,897
2011 & Prior			741,548,879	842,740,094	847,007,687	838,408,213	852,613,563	855,416,424	849,014,638	849,023,082	849,068,637
2012 & Prior				854,830,094	867,353,811	866,680,309	883,953,753	879,497,332	877,678,413	877,687,368	877,689,437
2013 & Prior					875,769,366	880,788,392	908,114,464	907,443,776	908,353,519	908,362,473	908,351,746
2014 & Prior						887,248,192	931,113,838	945,122,577	947,557,715	947,543,166	947,551,151
2015 & Prior							931,113,838	963,825,379	972,867,205	975,540,142	980,726,835
2016 & Prior								966,809,825	976,056,601	978,759,923	987,725,363
2017 & Prior									976,277,215	984,556,929	994,628,090
2018 & Prior										984,556,929	997,448,090

Notes: (a) Based on actual paid and case outstanding loss and ALAE as shown in Exhibit I, Sheet 1c, Columns (4) and (2) of reserve reports evaluated as of 12/31/2011 and prior.

(b) Based on actual paid and case outstanding loss and ALAE as shown in Exhibit I, Sheet 1a, Columns (4) and (2) of reserve reports evaluated as of 12/31/2012 and subsequent.

Ultimate Loss and ALAE  
Birth Year Level Basis (Paid and Outstanding Loss and ALAE)  
Before Inflation and Discount  
Before Reinsurance Recovery

Birth Year	Ultimate Loss & ALAE										
	@ 12/31/09 (a)	@ 12/31/10 (a)	@ 12/31/11 (a)	@ 12/31/12 (a)	@ 12/31/13 (a)	@ 12/31/14 (b)	@ 12/31/15 (b)	@ 12/31/16 (b)	@ 12/31/17 (b)	@ 3/31/18 (b)	@ 6/30/18 (b)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	N/A	27,151,287	26,330,062	26,239,659	23,959,593	24,195,976	23,414,027	23,125,750	22,247,493	21,972,129	21,983,702
1990	N/A	11,614,027	11,477,027	11,641,938	10,246,976	9,999,835	9,939,137	9,834,515	10,241,714	10,118,407	10,110,491
1991	N/A	21,846,966	23,599,488	25,562,294	22,304,544	22,311,410	22,422,995	22,327,764	21,603,024	21,433,563	21,430,446
1992	N/A	45,007,814	45,510,337	49,648,408	43,814,483	44,193,315	42,324,758	41,873,921	41,648,941	41,352,013	41,308,711
1993	N/A	46,399,495	42,090,226	45,388,953	39,587,735	39,534,688	39,694,225	39,036,364	37,954,191	37,613,398	37,602,340
1994	N/A	17,704,344	19,509,699	20,997,772	19,372,951	18,678,491	18,851,442	18,217,559	17,763,746	17,631,875	17,615,188
1995	N/A	29,612,489	27,858,448	26,170,052	26,818,973	25,772,539	26,087,912	25,662,899	26,306,261	26,400,428	26,498,539
1996	N/A	34,616,867	25,704,748	27,833,390	26,231,269	25,801,313	24,493,693	24,589,056	24,969,372	24,972,277	25,217,543
1997	N/A	46,595,341	43,560,423	40,798,018	40,407,001	36,376,739	34,536,923	34,325,245	32,694,782	32,633,616	32,999,784
1998	N/A	66,412,941	63,607,918	63,521,734	61,517,550	63,630,834	63,226,390	60,905,055	55,860,280	55,753,549	56,259,254
1999	N/A	35,941,607	31,549,054	29,830,188	28,407,824	24,714,807	24,390,834	23,409,402	23,002,739	22,932,196	22,908,525
2000	N/A	26,019,849	21,007,662	22,396,391	18,726,468	17,876,978	17,216,907	17,027,251	18,099,943	18,051,808	18,087,733
2001	N/A	30,143,811	27,629,667	28,951,546	26,397,525	24,055,468	24,549,828	24,792,104	24,719,308	24,646,185	24,724,496
2002	N/A	81,623,942	89,912,951	84,119,393	77,166,072	71,583,645	67,160,964	62,125,579	59,580,427	59,234,687	59,468,580
2003	N/A	19,765,701	20,411,699	18,732,576	16,820,632	15,371,140	14,491,272	14,022,907	15,763,511	15,682,337	15,709,860
2004	N/A	34,906,670	33,509,530	28,899,731	28,835,840	26,266,333	25,078,722	23,496,241	26,097,578	24,913,318	24,844,027
2005	N/A	73,254,683	67,946,105	58,507,245	46,987,970	38,008,212	34,625,670	33,578,652	32,030,326	31,527,396	31,413,990
2006	N/A	59,312,524	66,536,687	58,405,872	57,971,240	58,221,693	57,273,917	55,106,696	49,374,895	47,138,781	46,991,878
2007	N/A	59,153,178	67,620,964	58,470,417	56,101,360	52,163,570	47,452,521	46,361,933	40,252,269	39,780,173	39,455,302
2008	N/A	66,478,546	79,164,976	68,213,720	68,761,560	64,432,055	66,360,989	58,916,171	57,179,737	54,362,834	55,672,626
2009	N/A	70,036,100	82,639,361	74,221,132	73,702,410	61,645,728	59,938,541	60,751,883	65,746,467	64,959,744	64,105,665
2010		64,978,389	69,884,924	64,673,667	56,447,824	43,747,351	35,510,801	32,471,443	32,871,068	32,477,067	31,951,013
2011			72,891,940	71,306,452	65,671,795	65,087,844	67,347,302	60,514,485	58,807,873	57,554,536	57,103,937
2012				81,217,094	76,746,568	67,114,423	57,809,164	43,294,886	39,903,132	36,018,873	35,942,804
2013					76,400,906	62,357,107	60,846,197	54,240,114	51,458,790	47,473,036	45,543,873
2014						69,737,636	80,346,694	84,954,480	68,887,830	66,453,821	64,291,163
2015							61,923,125	75,914,747	63,520,691	59,350,028	62,758,892
2016								69,229,336	56,397,130	52,535,463	52,238,386
2017									69,648,129	74,798,099	70,824,908
2018 (6 Mo)										20,007,458	37,057,697
Totals:											
2009 & Prior	N/A	903,598,184	917,177,034	868,550,428	814,139,976	764,834,769	743,531,665	719,486,948	703,137,005	693,110,713	694,408,681
2010 & Prior		968,576,573	987,061,958	933,224,095	870,587,801	808,582,121	779,042,467	751,958,390	736,008,073	725,587,780	726,359,694
2011 & Prior			1,059,953,897	1,004,530,547	936,259,596	873,669,964	846,389,769	812,472,875	794,815,946	783,142,316	783,463,631
2012 & Prior				1,085,747,642	1,013,006,165	940,784,387	904,198,933	855,767,761	834,719,078	819,161,189	819,406,434
2013 & Prior					1,089,407,071	1,003,141,494	965,045,130	910,007,875	886,177,868	866,634,226	864,950,308
2014 & Prior						1,072,879,130	1,045,391,825	994,962,354	955,065,699	933,088,046	929,241,471
2015 & Prior							1,107,314,950	1,070,877,102	1,018,586,390	992,438,074	992,000,363
2016 & Prior								1,140,106,438	1,074,983,520	1,044,973,537	1,044,238,749
2017 & Prior									1,144,631,648	1,119,771,636	1,115,063,657
2018 & Prior										1,139,779,093	1,152,121,354

Note: (a) Based on historical estimates of ultimate loss and ALAE at birth year level before inflation and anticipated investment income as shown in Column (7) of Exhibit IV of reserve reports evaluated as of 12/31/2013 and prior.  
(b) See Exhibit IV, Sheet 1, Column (2) of reserve reports evaluated as of 12/31/2014 and subsequent.

Ultimate Loss and ALAE  
Actual Paid and Current Level Outstanding Before Prospective Inflation and Discount  
Before Inflation and Discount  
Before Reinsurance Recovery

Birth Year	Ultimate Loss & ALAE										
	@ 12/31/09 (a)	@ 12/31/10 (a)	@ 12/31/11 (a)	@ 12/31/12 (b)	@ 12/31/13 (b)	@ 12/31/14 (b)	@ 12/31/15 (b)	@ 12/31/16 (b)	@ 12/31/17 (b)	@ 3/31/18 (b)	@ 6/30/18 (b)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	30,195,406	31,013,780	30,302,524	32,662,292	31,283,689	31,469,118	30,462,198	30,430,686	29,246,689	29,157,393	29,086,644
1990	16,245,871	13,213,102	13,155,761	14,871,810	14,150,051	13,663,968	13,606,869	13,628,986	14,227,333	14,178,925	14,138,904
1991	25,563,433	24,954,229	27,201,674	32,897,544	30,896,715	30,694,703	30,914,846	31,267,424	30,329,935	30,273,406	30,227,303
1992	52,762,445	50,796,217	51,820,930	63,695,571	60,456,635	60,573,984	58,153,407	58,461,943	58,278,747	58,149,904	58,040,935
1993	53,982,015	52,079,760	47,624,682	56,359,640	52,344,829	51,837,574	52,138,771	51,936,583	50,530,018	50,398,841	50,299,454
1994	20,606,060	19,583,922	21,745,732	25,995,859	25,577,544	24,502,615	24,771,605	24,264,459	23,680,669	23,618,094	23,567,489
1995	36,386,656	33,041,315	31,392,335	32,691,605	36,475,380	34,730,142	35,055,879	35,002,803	35,946,787	36,210,158	36,315,600
1996	41,081,064	38,326,178	28,672,897	34,219,094	34,784,174	34,054,192	32,351,892	32,962,635	33,535,980	33,668,624	33,976,635
1997	48,276,930	51,540,936	48,562,684	51,684,192	54,619,408	48,898,105	46,508,461	46,927,643	44,777,076	44,820,919	45,298,197
1998	67,105,294	73,205,094	70,673,787	78,809,076	81,912,168	84,654,728	84,225,777	82,393,345	75,648,623	75,719,255	76,375,982
1999	35,469,979	39,466,371	34,938,796	36,306,404	37,383,127	32,136,323	31,736,790	30,812,415	30,329,112	30,325,745	30,259,604
2000	30,665,379	28,356,997	23,037,519	27,324,802	24,434,778	23,371,455	22,525,893	22,607,943	24,086,292	24,111,051	24,139,049
2001	29,466,949	32,760,575	30,231,415	34,994,886	33,994,147	30,763,220	31,442,585	32,252,183	32,195,308	32,195,513	32,282,438
2002	89,829,000	88,640,493	98,299,372	102,197,306	100,852,407	93,163,144	87,458,847	82,156,773	78,853,193	78,689,199	78,934,323
2003	17,352,578	21,361,345	22,214,126	22,442,880	21,586,870	19,629,041	18,485,142	18,136,582	20,478,428	20,440,395	20,461,611
2004	41,925,368	37,567,720	36,310,314	34,533,322	35,562,370	32,300,491	30,866,114	29,382,705	32,749,998	32,567,157	32,451,274
2005	63,388,909	78,569,317	73,374,866	69,958,032	57,686,770	46,515,525	42,398,405	41,793,993	39,904,713	39,598,107	39,431,989
2006	56,804,169	63,345,467	71,604,504	69,642,638	68,245,099	68,485,821	67,490,299	66,108,309	59,343,178	58,994,634	58,779,557
2007	43,932,498	62,882,409	72,358,633	69,436,362	65,669,897	61,030,854	55,614,372	55,288,691	48,074,049	47,744,738	47,345,821
2008	70,240,739	66,960,112	80,058,011	74,863,254	76,924,563	72,115,450	74,397,721	67,287,501	65,428,405	65,040,184	64,240,062
2009	65,842,195	70,271,249	83,227,624	81,077,021	81,914,437	68,475,520	66,638,074	68,736,752	74,480,094	73,988,955	72,863,518
2010		64,978,389	70,135,006	70,499,869	62,574,064	48,496,715	39,378,914	36,647,659	37,160,337	36,781,784	36,235,306
2011			72,891,940	77,584,464	72,600,196	71,996,315	74,559,791	68,192,855	66,336,890	65,097,699	64,658,519
2012				81,217,094	77,309,410	67,729,133	58,440,532	44,610,051	41,198,718	40,557,423	40,521,155
2013					76,400,906	62,478,164	61,072,531	55,495,022	52,757,475	48,938,876	47,012,686
2014						69,737,636	80,485,475	86,783,624	70,511,636	68,137,757	65,931,016
2015							61,923,125	77,433,227	64,925,458	60,754,710	64,263,320
2016								69,229,336	56,524,744	53,691,904	52,453,740
2017									69,648,129	74,950,838	70,955,820
2018 (6 Mo)										20,007,458	37,057,697
Totals:											
2009 & Prior	937,122,936	977,936,586	996,808,186	1,046,663,592	1,026,755,059	963,065,973	937,243,949	921,840,352	902,089,627	899,891,199	898,516,387
2010 & Prior		1,042,914,976	1,066,943,192	1,117,163,461	1,089,329,123	1,011,562,688	976,622,863	958,488,010	939,249,964	936,672,983	934,751,693
2011 & Prior			1,139,835,132	1,194,747,925	1,161,929,319	1,083,559,003	1,051,182,654	1,026,680,865	1,005,586,855	1,001,770,683	999,410,212
2012 & Prior				1,275,965,019	1,239,238,729	1,151,288,136	1,109,623,186	1,071,290,917	1,046,785,572	1,042,328,106	1,039,931,367
2013 & Prior					1,315,639,635	1,213,766,300	1,170,695,717	1,126,785,939	1,099,543,048	1,091,266,981	1,086,944,053
2014 & Prior						1,283,503,936	1,251,181,192	1,213,569,563	1,170,054,683	1,159,404,738	1,152,875,069
2015 & Prior							1,313,104,318	1,291,002,789	1,234,980,142	1,220,159,448	1,217,138,389
2016 & Prior								1,360,232,125	1,291,504,885	1,273,851,352	1,269,592,130
2017 & Prior									1,361,153,014	1,348,802,190	1,340,547,949
2018 & Prior										1,368,809,648	1,377,605,646

Notes: (a) Based on actual paid loss and ALAE and total outstanding loss & ALAE before inflation and discount as shown in Columns (4) and (3) of Exhibit I, Sheet 1c of reserve reports evaluated as of 12/31/11 and prior.  
(b) Based on actual paid loss and ALAE and total outstanding loss & ALAE before inflation and discount as shown in Columns (4) and (3) of Exhibit I, Sheet 1a of reserve reports evaluated as 12/31/2012 and subsequent.



Ultimate Loss and ALAE  
Actual Paid and Current Level Outstanding After Prospective Inflation and Discount  
After Inflation and Discount  
Before Reinsurance Recovery

Birth Year	Ultimate Loss & ALAE										
	@ 12/31/09 (a)	@ 12/31/10 (a)	@ 12/31/11 (a)	@ 12/31/12 (b)	@ 12/31/13 (b)	@ 12/31/14 (b)	@ 12/31/15 (b)	@ 12/31/16 (b)	@ 12/31/17 (b)	@ 3/31/18 (b)	@ 6/30/18 (b)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	24,441,344	25,948,541	25,509,442	27,506,772	26,769,383	27,123,053	26,805,426	26,875,438	25,964,034	25,909,219	25,879,332
1990	12,808,521	11,232,113	11,625,555	13,159,030	12,801,141	12,365,439	12,168,747	12,239,885	12,789,992	12,766,028	12,755,448
1991	18,982,292	18,925,551	21,097,411	25,311,770	24,687,061	24,806,078	25,189,482	25,655,032	25,047,376	25,057,791	25,072,996
1992	39,675,481	38,220,549	40,222,982	49,327,350	47,876,956	48,344,732	47,216,267	47,716,384	48,119,766	48,098,345	48,114,672
1993	42,880,334	41,791,486	38,731,321	45,788,530	43,090,047	42,973,732	43,558,848	43,718,010	43,010,446	42,940,930	42,904,457
1994	15,511,446	15,277,614	16,761,793	20,064,060	19,867,432	19,099,948	19,373,601	19,131,405	19,083,459	19,061,491	19,040,052
1995	26,915,196	25,514,756	24,594,274	26,029,492	29,127,651	28,045,372	28,516,389	28,704,502	29,702,005	29,950,211	30,080,947
1996	30,841,922	29,640,210	23,306,497	27,492,683	28,231,067	27,759,412	26,648,821	27,352,277	27,972,026	28,128,540	28,416,853
1997	37,297,553	38,408,874	37,115,006	40,113,754	42,286,861	38,419,803	37,124,460	37,480,903	36,234,683	36,323,702	36,747,525
1998	50,964,904	55,458,158	54,498,067	60,767,030	63,468,215	66,084,761	66,580,979	65,785,746	61,025,424	61,164,079	61,774,583
1999	29,196,428	32,383,479	29,184,644	30,565,329	31,550,950	27,490,519	27,363,332	26,703,909	26,214,859	26,278,710	26,268,418
2000	23,206,043	21,551,843	18,016,710	21,062,633	18,979,138	18,396,036	18,031,693	18,245,985	19,495,776	19,555,072	19,614,424
2001	21,941,809	24,613,890	23,226,853	26,851,692	26,301,482	24,310,745	24,937,568	25,715,250	25,986,782	26,025,252	26,129,798
2002	69,791,893	66,487,667	73,147,995	76,262,326	76,648,996	71,252,206	68,058,132	64,256,069	62,535,820	62,521,502	62,800,935
2003	14,143,138	16,698,172	17,581,858	17,921,235	17,572,173	16,171,414	15,546,083	15,438,664	17,106,855	17,105,810	17,146,505
2004	29,160,067	26,493,106	26,130,395	25,034,954	26,012,771	25,020,810	24,172,266	23,094,449	25,376,483	25,281,175	25,232,568
2005	43,464,402	54,307,547	51,711,604	49,769,567	41,687,280	34,811,925	31,964,475	31,792,568	30,379,108	30,199,402	30,140,188
2006	38,500,429	43,369,044	50,126,583	49,183,485	48,785,647	51,478,446	50,784,676	50,336,631	45,855,599	45,657,310	45,552,745
2007	29,545,510	42,718,969	50,113,793	48,454,775	46,503,833	44,110,521	43,132,964	43,330,168	38,254,985	38,057,073	37,816,640
2008	46,611,215	44,717,134	54,385,826	51,148,205	52,939,180	50,395,677	52,713,571	49,345,410	46,953,609	46,768,363	46,296,752
2009	43,322,464	46,499,415	56,182,157	55,061,598	56,275,559	47,843,080	47,160,268	49,202,596	55,417,658	55,153,484	54,441,430
2010		42,506,678	46,963,905	47,244,604	42,551,480	33,550,530	27,627,157	25,943,105	26,463,338	26,264,839	25,964,145
2011			48,135,149	51,255,567	48,664,196	49,025,594	51,459,755	47,536,597	46,583,905	45,862,119	45,706,678
2012				53,164,473	51,304,216	45,663,550	40,043,978	30,959,093	28,754,324	28,375,744	28,429,536
2013					50,356,222	41,890,895	41,626,313	38,253,503	36,709,393	34,191,133	32,980,297
2014						46,089,913	54,048,934	58,832,041	48,382,677	46,948,709	45,623,726
2015							41,099,116	51,838,255	43,925,745	41,175,188	43,664,248
2016								45,882,758	37,786,424	35,952,308	35,187,720
2017									46,007,205	49,691,689	47,264,688
2018 (6 Mo)										13,106,083	24,400,150
Totals:											
2009 & Prior	689,202,391	720,258,115	743,270,767	786,876,268	781,462,826	746,303,711	737,048,047	732,121,282	722,526,743	722,003,488	722,227,267
2010 & Prior		762,764,793	790,234,672	834,120,872	824,014,306	779,854,241	764,675,204	758,064,387	748,990,080	748,268,327	748,191,412
2011 & Prior			838,369,821	885,376,439	872,678,502	828,879,835	816,134,960	805,600,984	795,573,985	794,130,446	793,898,090
2012 & Prior				938,540,911	923,982,718	874,543,385	856,178,937	836,560,077	824,328,310	822,506,190	822,327,626
2013 & Prior					974,338,940	916,434,280	897,805,250	874,813,580	861,037,702	856,697,322	855,307,924
2014 & Prior						962,524,193	951,854,184	933,645,621	909,420,380	903,646,031	900,931,650
2015 & Prior							992,953,300	985,483,876	953,346,124	944,821,220	944,595,897
2016 & Prior								1,031,366,635	991,132,549	980,773,528	979,783,618
2017 & Prior									1,037,139,753	1,030,465,217	1,027,048,306
2018 & Prior										1,043,571,300	1,051,448,456

Notes: (a) Based on actual paid loss and ALAE and total outstanding loss & ALAE after inflation and discount as shown in Columns (4) and (7) of Exhibit I, Sheet 1c of reserve reports evaluated as of 12/31/11 and prior.  
 (b) Based on actual paid loss and ALAE and total outstanding loss & ALAE after inflation and discount as shown in Columns (4) and (7) of Exhibit I, Sheet 1a of reserve reports evaluated as of 12/31/2012 and subsequent.

Adjusted to Birth Year Level

Birth Year	BY Level Paid (a) Loss & ALAE @ 6/30/18	Estimated Unpaid Loss & ALAE @ 6/30/18 Based on Increased Utilization Rate of (b)			Indicated Ultimate Loss & ALAE Based on Increased Utilization Rate of			Selected Total Limits Ultimate Loss & ALAE	Difference Between Selected Ultimate and Incremental Payment Method		
		1.00%	2.00%	3.00%	1.00% (2) + (3)	2.00% (2) + (4)	3.00% (2) + (5)		1.00% (9) - (6)	2.00% (9) - (7)	3.00% (9) - (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1989	11,683,806	8,488,809	10,434,348	13,038,400	20,172,615	22,118,154	24,722,205	21,983,702	1,811,087	(134,452)	(2,738,503)
1990	4,444,796	4,090,272	4,775,372	5,642,212	8,535,068	9,220,168	10,087,008	10,110,491	1,575,423	890,323	23,484
1991	6,296,427	15,373,731	19,565,721	25,485,722	21,670,157	25,862,148	31,782,148	21,430,446	(239,711)	(4,431,701)	(10,351,702)
1992	10,467,897	26,488,877	33,448,982	43,244,584	36,956,774	43,916,879	53,712,480	41,308,711	4,351,937	(2,608,168)	(12,403,769)
1993	15,649,642	22,180,835	27,270,136	34,255,844	37,830,477	42,919,778	49,905,486	37,602,340	(228,137)	(5,317,438)	(12,303,146)
1994	5,875,596	11,053,121	14,050,084	18,343,835	16,928,717	19,925,681	24,219,432	17,615,188	686,471	(2,310,492)	(6,604,243)
1995	7,602,796	20,221,827	25,301,731	32,487,420	27,824,624	32,904,527	40,090,216	26,498,539	(1,326,084)	(6,405,987)	(13,591,676)
1996	7,282,970	14,691,830	17,082,175	20,210,065	21,974,800	24,365,145	27,493,035	25,217,543	3,242,743	852,398	(2,275,492)
1997	8,842,715	24,980,929	31,083,834	39,742,662	33,823,643	39,926,549	48,585,377	32,999,784	(823,860)	(6,926,765)	(15,585,593)
1998	15,256,746	39,567,907	48,107,646	59,969,719	54,824,652	63,364,392	75,226,464	56,259,254	1,434,602	(7,105,138)	(18,967,211)
1999	9,510,788	10,832,509	12,618,277	14,993,393	20,343,297	22,129,065	24,504,181	22,908,525	2,565,228	779,460	(1,595,656)
2000	4,710,663	10,022,958	11,306,432	12,958,588	14,733,621	16,017,095	17,669,252	18,087,733	3,354,112	2,070,638	418,481
2001	6,386,351	17,653,778	21,142,552	25,965,429	24,040,128	27,528,903	32,351,779	24,724,496	684,367	(2,804,407)	(7,627,284)
2002	12,454,375	41,967,596	49,158,205	58,894,171	54,421,972	61,612,580	71,348,546	59,468,580	5,046,608	(2,144,000)	(11,879,966)
2003	3,802,964	10,600,644	11,867,365	13,502,647	14,403,608	15,670,329	17,305,611	15,709,860	1,306,253	39,531	(1,595,751)
2004	4,265,778	18,641,794	22,342,115	27,514,661	22,907,571	26,607,893	31,780,439	24,844,027	1,936,455	(1,763,867)	(6,936,412)
2005	6,260,979	20,736,916	23,827,781	27,965,063	26,997,895	30,088,760	34,226,042	31,413,990	4,416,095	1,325,231	(2,812,052)
2006	7,302,678	36,276,535	42,570,118	51,218,823	43,579,214	49,872,796	58,521,501	46,991,878	3,412,664	(2,880,919)	(11,529,623)
2007	7,801,336	26,097,089	28,725,259	32,092,915	33,898,424	36,526,594	39,894,251	39,455,302	5,556,877	2,928,707	(438,949)
2008	4,555,561	41,692,404	49,802,915	61,228,800	46,247,965	54,358,476	65,784,361	55,672,626	9,424,661	1,314,151	(10,111,735)
2009	6,517,392	45,489,370	53,223,225	63,905,165	52,006,762	59,740,617	70,422,557	64,105,665	12,098,903	4,365,048	(6,316,892)
2010	2,698,754	27,754,695	34,902,114	45,593,360	30,453,449	37,600,867	48,292,114	31,951,013	1,497,564	(5,649,854)	(16,341,101)
2011	3,919,587	37,965,326	44,068,883	52,465,854	41,884,913	47,988,470	56,385,441	57,103,937	15,219,023	9,115,467	718,496
2012	2,430,220	29,609,895	34,884,036	42,276,251	32,040,115	37,314,256	44,706,471	35,942,804	3,902,688	(1,371,452)	(8,763,668)
2013	3,412,851	30,936,076	34,084,470	38,188,929	34,348,927	37,497,321	41,601,780	45,543,873	11,194,946	8,046,552	3,942,093
2014	3,568,500	45,731,482	49,900,670	55,283,385	49,299,982	53,469,170	58,851,886	64,291,163	14,991,180	10,821,992	5,439,277
2015	1,725,018	53,839,839	59,867,390	67,846,758	55,564,856	61,592,407	69,571,776	62,758,892	7,194,036	1,166,485	(6,812,884)
2016	521,231	37,443,405	40,878,527	45,333,540	37,964,636	41,399,757	45,854,771	52,238,386	14,273,751	10,838,629	6,383,616
2017	417,160	49,421,199	54,887,951	62,130,624	49,838,359	55,305,111	62,547,784	70,824,908	20,986,550	15,519,797	8,277,125
2018 (6 Mo)	1,406	27,061,792	30,962,211	36,307,768	27,063,198	30,963,618	36,309,174	37,057,697	9,994,499	6,094,079	748,523
Totals:	185,666,980	806,913,441	942,140,526	1,128,086,588	992,580,421	1,127,807,506	1,313,753,568	1,152,121,354	159,540,934	24,313,849	(161,632,213)
Excl. 2018	185,665,574	779,851,649	911,178,314	1,091,778,820	965,517,222	1,096,843,888	1,277,444,393	1,115,063,657	149,546,435	18,219,769	(162,380,736)

Notes: (a) See Exhibit VIII, Sheet 1, Column (2).

(b) See totals by birth year on Appendix E, Exhibit III, Sheet 1e based on increased utilization rate of 2.00%.

**Payment Pattern - 2018 Level - Before Inflation and Investment Income (a)**  
**Actual and Estimated Incremental Payments - 2018 Cost Level**

Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222
1989	0	1,082,758	1,211,887	1,354,579	1,263,149	626,667	608,079	510,462	749,744	494,690	453,639	1,745,570	398,938	480,360	478,170	494,655	489,129	439,754
1990	185,232	405,586	854,981	36,888	444,669	297,547	167,477	145,438	121,298	103,314	86,963	140,531	236,412	330,494	397,416	345,529	314,600	127,107
1991	315,244	14,093	188,248	519,691	412,133	139,019	127,145	55,360	64,516	145,331	138,478	176,499	158,549	148,762	178,801	178,717	523,626	544,300
1992	21,192	372,590	1,255,563	1,194,253	504,681	432,626	355,128	341,641	286,588	294,035	325,821	476,747	463,198	364,719	408,018	435,923	521,221	558,547
1993	12,308	508,891	1,069,212	855,868	1,157,393	1,351,057	959,670	924,049	1,122,138	1,071,987	847,643	949,797	1,121,493	929,652	758,960	791,022	727,994	765,307
1994	283,350	1,189,477	470,685	529,162	1,044,317	385,674	418,420	358,480	201,734	78,428	370,421	575,189	94,472	89,010	202,774	157,012	176,735	151,231
1995	5,632	322,833	734,100	562,421	92,877	261,497	101,142	178,996	219,363	321,922	903,230	306,708	572,927	67,467	495,333	1,366,566	344,271	452,731
1996	151,592	819,681	351,989	648,919	592,632	845,635	464,462	349,806	413,754	417,685	341,559	434,035	331,355	482,631	443,801	444,266	328,915	464,105
1997	21,421	952,771	432,790	324,189	862,750	666,442	516,778	326,551	439,315	343,479	585,330	565,719	849,067	589,610	620,661	1,052,802	622,291	541,330
1998	270,482	881,301	1,250,706	844,645	629,809	583,312	1,748,491	728,365	876,147	727,173	1,003,860	924,091	1,199,460	1,058,384	1,146,747	1,384,183	1,280,844	1,286,927
1999	858,556	612,646	474,306	880,399	580,549	549,069	481,665	1,287,228	742,597	750,849	721,685	844,120	710,764	550,189	688,701	657,671	450,163	519,657
2000	755,569	406,179	748,900	636,456	260,489	254,443	187,877	197,326	193,099	222,105	306,712	238,155	259,859	336,162	312,645	277,959	324,624	309,905
2001	304,035	390,892	1,050,329	409,414	529,720	1,133,266	456,667	335,495	286,541	358,311	308,127	421,894	462,760	517,616	500,666	453,772	440,035	483,014
2002	295,587	767,187	1,002,658	902,149	867,482	1,103,073	1,468,222	982,183	1,014,204	935,628	1,149,601	1,368,538	1,063,839	1,082,957	1,071,269	1,045,377	1,245,852	1,250,990
2003	278,799	342,418	158,345	150,700	560,713	500,017	163,546	215,917	302,909	297,454	304,304	485,984	371,215	377,576	358,727	426,490	402,421	401,048
2004	158,902	472,339	717,201	547,724	530,963	288,634	515,872	294,581	227,965	343,109	391,161	280,420	298,835	328,647	438,542	469,414	447,724	451,143
2005	4,281	254,234	896,736	929,813	758,477	1,164,348	829,756	499,748	502,248	450,451	475,253	460,818	583,944	514,887	575,151	612,696	581,526	583,035
2006	34,015	521,330	353,272	1,092,140	873,895	1,912,746	814,785	655,317	619,296	688,426	728,681	707,902	847,206	758,428	849,794	908,104	864,669	869,755
2007	140,831	706,363	964,288	1,123,860	939,564	1,058,382	933,425	962,852	909,395	946,702	821,073	844,581	851,205	754,513	836,920	885,169	833,983	829,884
2008	141,973	417,952	623,262	715,989	367,088	424,015	679,185	645,090	732,669	747,603	748,528	742,835	757,636	679,768	763,404	817,699	780,455	786,971
2009	507,519	603,952	1,014,636	896,677	515,983	587,531	799,258	1,388,492	608,412	849,375	885,422	877,207	893,154	799,961	896,788	958,823	913,450	919,325
2010	372,742	763,878	430,632	445,476	220,505	171,878	248,573	188,361	308,548	353,965	370,890	369,370	378,082	340,463	383,778	412,640	395,381	400,271
2011	96,317	303,868	962,568	683,555	824,522	628,872	590,744	696,363	611,077	697,224	726,545	719,534	732,335	655,668	734,739	785,248	747,779	752,270
2012	51,686	383,961	795,080	649,693	362,606	271,252	517,339	483,520	424,976	485,668	506,919	502,859	512,667	459,783	516,131	552,597	527,191	531,348
2013	330,567	698,453	1,187,743	711,615	578,979	793,367	720,260	667,865	582,307	660,075	683,297	672,176	679,486	604,144	672,223	713,249	674,202	673,132
2014	283,251	1,109,335	770,197	1,484,111	919,509	1,213,206	1,099,762	1,018,214	886,408	1,003,222	1,036,874	1,018,363	1,027,761	912,286	1,013,370	1,073,356	1,012,798	1,009,360
2015	3,701	746,893	1,003,996	1,114,524	907,254	1,201,309	1,092,913	1,015,579	887,397	1,008,122	1,045,915	1,031,220	1,044,829	931,150	1,038,550	1,104,624	1,046,757	1,047,765
2016	382,319	144,445	508,089	850,156	690,092	911,152	826,541	765,805	667,161	755,642	781,577	768,210	775,900	689,267	766,257	812,283	767,101	765,156
2017	419,099	336,541	581,100	977,558	795,838	1,053,886	958,889	891,129	778,735	884,769	918,035	905,234	917,281	817,570	911,974	970,107	919,396	920,393
2018	42,206	149,748	260,905	441,828	361,004	479,813	438,184	408,753	358,562	408,961	426,002	421,733	429,072	384,004	430,143	459,526	437,418	439,858

Notes: (a) For the actual incremental payments at 2018 level, see Appendix E, Exhibit IV, Sheets 3a and 3b. For the estimates of average incremental payments at 2018 level, see Appendix E, Exhibit III, Sheets 1a to 1g, then adjusted to 2018 level (factors from Appendix E, Exhibit II, Sheet 3, Column (5)).

**Average Incremental Payments Per Open Accepted Claim - 2018 Cost Level (a)**  
**Actual and Estimated Incremental Payments - 2018 Cost Level**

Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222
1989		270,689	151,486	169,322	140,350	78,333	76,010	63,808	93,718	61,836	64,806	290,928	66,490	96,072	95,634	98,931	97,826	87,951
1990	92,616	81,117	122,140	5,270	63,524	42,507	23,925	20,777	17,328	14,759	12,423	20,076	33,773	47,213	56,774	57,588	78,650	31,777
1991	315,244	14,093	62,749	129,923	103,033	34,755	31,786	13,840	16,129	36,333	34,620	44,125	39,637	37,190	44,700	44,679	130,906	136,075
1992	10,596	53,227	104,630	91,866	38,822	36,052	29,594	28,470	26,053	26,730	29,620	43,341	42,109	33,156	40,802	43,592	52,122	62,061
1993	6,154	56,543	97,201	77,806	105,218	122,823	87,243	84,004	102,013	97,453	77,058	86,345	101,954	92,965	84,329	98,878	90,999	95,663
1994	141,675	396,492	78,448	88,194	149,188	55,096	83,684	71,696	50,434	19,607	92,605	143,797	23,618	22,253	50,694	39,253	44,184	37,808
1995		64,567	122,350	93,737	15,479	43,583	20,228	35,799	43,873	64,384	180,646	61,342	114,585	13,493	99,067	273,313	68,854	90,546
1996	75,796	204,920	70,398	129,784	98,772	140,939	77,410	58,301	68,959	69,614	56,926	72,339	55,226	80,438	73,967	74,044	54,819	77,351
1997	10,711	119,096	54,099	46,313	107,844	74,049	57,420	36,283	48,813	38,164	65,037	62,858	94,341	65,512	68,962	116,978	77,786	67,666
1998	45,080	125,900	125,071	70,387	57,255	48,609	145,708	60,697	73,012	60,598	83,655	77,008	99,955	88,199	95,562	115,349	106,737	107,244
1999	286,185	204,215	94,861	125,771	72,569	68,634	68,809	183,890	106,085	107,264	103,098	120,589	118,461	91,698	137,740	164,418	112,541	129,914
2000	251,856	81,236	149,780	127,291	52,098	50,889	37,575	39,465	38,620	44,421	61,342	47,631	51,972	67,232	62,529	55,592	64,925	61,981
2001		195,446	525,165	136,471	132,430	283,316	114,167	83,874	71,635	89,578	77,032	105,474	115,690	129,404	125,166	113,443	110,009	120,753
2002	73,897	127,865	91,151	75,179	61,963	73,538	97,881	65,479	67,614	62,375	76,640	97,753	75,988	77,354	82,405	80,414	95,835	97,527
2003			79,173	50,233	186,904	166,672	54,515	71,972	100,970	99,151	101,435	161,995	123,738	125,859	119,576	142,163	136,913	139,331
2004	158,902	157,446	239,067	136,931	106,193	57,727	103,174	58,916	45,593	68,622	78,232	56,084	59,767	65,729	87,708	94,776	91,276	92,887
2005	4,281	50,847	112,092	92,981	75,848	116,435	92,195	55,528	62,781	64,350	67,893	65,831	83,421	73,555	83,319	90,032	86,707	88,238
2006	17,007	260,665	50,467	121,349	87,390	191,275	81,478	65,532	61,930	68,843	80,965	78,656	94,134	85,174	96,479	104,253	100,403	102,176
2007		176,591	137,755	140,483	117,446	132,298	116,678	120,356	113,674	135,243	117,296	120,654	124,081	112,271	127,173	137,420	132,345	134,682
2008	70,986	69,659	77,908	79,554	40,788	42,401	67,918	64,509	73,267	83,067	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2009	126,880	100,659	112,737	99,631	51,598	58,753	79,926	138,849	60,841	84,937	89,405	89,452	91,992	83,236	94,284	101,881	98,119	99,851
2010	186,371	254,626	71,772	74,246	36,751	34,376	49,715	37,672	61,710	71,112	74,853	74,892	77,019	69,688	78,938	85,298	82,148	83,599
2011	48,159	43,410	96,257	62,141	82,452	62,887	59,074	69,636	61,710	71,112	74,853	74,892	77,019	69,688	78,938	85,298	82,148	83,599
2012	25,843	95,990	113,583	92,813	51,801	38,750	73,906	69,636	61,710	71,112	74,853	74,892	77,019	69,688	78,938	85,298	82,148	83,599
2013	110,189	116,409	169,678	88,952	72,372	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2014	47,209	110,934	64,183	123,676	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2015	1,851	124,482	83,666	97,240	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2016		48,148	94,503	97,240	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2017	139,700	105,931	94,503	97,240	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887
2018	98,687	105,931	94,503	97,240	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887

Notes: (a) For the actual average incremental payments per open accepted claim at 2018 level, see Appendix E, Exhibit IV, Sheets 1a and 1b. For the estimates of average incremental payments per open accepted claim at 2018 level, see Appendix E, Exhibit III, Sheets 2a to 2g, then adjusted to 2018 level (factors from Appendix E, Exhibit II, Sheet 3, Column (5)).

Summary of 2018 Level Incremental Payments by Maturity

Maturity (Months)	2018 Level (a) Average Incremental Payments per Open Accepted Claim Based on Annual Increase Utilization Rate of			Maturity (Months)	2018 Level (a) Average Incremental Payments per Open Accepted Claim Based on Annual Increase Utilization Rate of		
	1.00%	2.00%	3.00%		1.00%	2.00%	3.00%
	(1)	(2)	(3)		(4)	(5)	(6)
6:18	99,584	99,584	99,584	738:750	145,812	201,834	278,495
18:30	106,893	106,893	106,893	750:762	147,271	205,871	286,850
30:42	95,361	95,361	95,361	762:774	148,743	209,988	295,456
42:54	98,123	98,123	98,123	774:786	150,231	214,188	304,319
54:66	71,959	71,959	71,959	786:798	151,733	218,472	313,449
66:78	89,842	89,842	89,842	798:810	153,250	222,841	322,852
78:90	82,863	82,863	82,863	810:822	154,783	227,298	332,538
90:102	78,076	78,076	78,076	822:834	156,331	231,844	342,514
102:114	69,189	69,189	69,189	834:846	157,894	236,481	352,789
114:126	79,731	79,731	79,731	846:858	159,473	241,211	363,373
126:138	83,925	83,925	83,925	858:870	161,068	246,035	374,274
138:150	83,969	83,969	83,969	870:882	162,678	250,956	385,502
150:162	86,354	86,354	86,354	882:894	164,305	255,975	397,068
162:174	78,134	78,134	78,134	894:906	165,948	261,094	408,980
174:186	88,505	88,505	88,505	906:918	167,608	266,316	421,249
186:198	95,636	95,636	95,636	918:930	169,284	271,642	433,886
198:210	92,105	92,105	92,105	930:942	170,977	277,075	446,903
210:222	93,731	93,731	93,731	942:954	172,686	282,617	460,310
222:234	95,792	95,792	95,792	954:966	174,413	288,269	474,119
234:246	97,359	97,359	97,359	966:978	176,157	294,034	488,343
246:258	99,432	99,432	99,432	978:990	177,919	299,915	502,993
258:270	103,634	103,634	103,634	990:1002	179,698	305,913	518,083
270:282	102,325	102,325	102,325	1002:1014	181,495	312,032	533,626
282:294	105,360	105,360	105,360	1014:1026	183,310	318,272	549,634
294:306	105,000	105,000	105,000	1026:1038	185,143	324,638	566,123
306:318	105,000	105,000	105,000	1038:1050	186,995	331,131	583,107
318:330	105,000	105,000	105,000	1050:1062	188,865	337,753	600,600
330:342	105,000	105,000	105,000	1062:1074	190,753	344,508	618,618
342:354	105,000	105,000	105,000	1074:1086	192,661	351,398	637,177
354:366	106,050	107,100	108,150	1086:1098	194,587	358,426	656,292
366:378	107,111	109,242	111,395	1098:1110	196,533	365,595	675,981
378:390	108,182	111,427	114,736	1110:1122	198,498	372,907	696,260
390:402	109,263	113,655	118,178	1122:1134	200,483	380,365	717,148
402:414	110,356	115,928	121,724	1134:1146	202,488	387,972	738,663
414:426	111,460	118,247	125,375	1146:1158	204,513	395,732	760,823
426:438	112,574	120,612	129,137	1158:1170	206,558	403,646	783,647
438:450	113,700	123,024	133,011	1170:1182	208,624	411,719	807,157
450:462	114,837	125,485	137,001	1182:1194	210,710	419,954	831,371
462:474	115,985	127,994	141,111	1194:1206	212,817	428,353	856,312
474:486	117,145	130,554	145,345	1206:1218	214,945	436,920	882,002
486:498	118,317	133,165	149,705	1218:1230	217,095	445,658	908,462
498:510	119,500	135,829	154,196	1230:1242	219,266	454,571	935,716
510:522	120,695	138,545	158,822	1242:1254	221,458	463,663	963,787
522:534	121,902	141,316	163,587	1254:1266	223,673	472,936	992,701
534:546	123,121	144,142	168,494	1266:1278	225,910	482,395	1,022,482
546:558	124,352	147,025	173,549	1278:1290	228,169	492,043	1,053,156
558:570	125,595	149,966	178,755	1290:1302	230,451	501,883	1,084,751
570:582	126,851	152,965	184,118	1302:1314	232,755	511,921	1,117,294
582:594	128,120	156,024	189,642	1314:1326	235,083	522,160	1,150,812
594:606	129,401	159,145	195,331	1326:1338	237,433	532,603	1,185,337
606:618	130,695	162,328	201,191	1338:1350	239,808	543,255	1,220,897
618:630	132,002	165,574	207,227	1350:1362	242,206	554,120	1,257,524
630:642	133,322	168,886	213,443	1362:1374	244,628	565,202	1,295,249
642:654	134,655	172,264	219,847	1374:1386	247,074	576,506	1,334,107
654:666	136,002	175,709	226,442	1386:1398	249,545	588,036	1,374,130
666:678	137,362	179,223	233,235	1398:1410	252,040	599,797	1,415,354
678:690	138,736	182,808	240,232	1410:1422	254,561	611,793	1,457,815
690:702	140,123	186,464	247,439	1422:1434	257,106	624,029	1,501,549
702:714	141,524	190,193	254,863	1434:1446	259,677	636,510	1,546,596
714:726	142,939	193,997	262,508	1446:1458	262,274	649,240	1,592,993
726:738	144,369	197,877	270,384	1458:1470	264,897	662,225	1,640,783

Note: (a) For average incremental payments from 6:18 to 342:354, see Appendix E, Exhibit IV, Sheets 1a and 1b.  
 For average incremental payments from 354:366 and subsequent, they are based on utilization trend rates of 1.00%, 2.00% and 3.00% for columns (2), (3) and (4) (or (6), (7) and (8)), respectively.

Selected Relativity Factors to Adjust for Difference in Claim Size by Birth Year

All Open Accepted Claims (AAA Only) with Life Expectancy

A. Off-Balance Adjustment Factor

**1.00910**

Birth Year	Indicated Birth Year Relativity of Remaining Average Annual Loss & ALAE Payments Based on		Selected Relativity Factors to Adjust for Difference in Claim Size By Birth Year	
	Average (a) Incremental Payments to Date	Current (b) Case Outstanding	Before Off-Balance	After Off-Balance (4) / (A)
(1)	(2)	(3)	(4)	(5)
1989	0.690	0.952	0.900	0.892
1990	0.554	0.917	0.800	0.793
1991	1.152	1.203	1.175	1.164
1992	0.830	1.057	0.900	0.892
1993	0.609	0.868	0.950	0.941
1994	0.723	0.761	0.750	0.743
1995	1.176	1.069	1.150	1.140
1996	0.894	1.183	1.050	1.041
1997	0.673	0.790	0.850	0.842
1998	1.093	1.064	1.075	1.065
1999	1.061	1.440	1.350	1.338
2000	0.665	1.069	0.900	0.892
2001	1.328	1.297	1.300	1.288
2002	0.930	1.073	1.050	1.041
2003	1.398	1.484	1.500	1.487
2004	0.723	1.010	1.000	0.991
2005	0.648	0.938	0.950	0.941
2006	1.118	1.014	1.100	1.090
2007	1.686	1.336	1.450	1.437
2008	0.664	1.050	1.000	0.991
2009	1.034	1.111	1.075	1.065
2010	0.657	0.799	0.900	0.892
2011	0.828	0.923	0.900	0.892
2012	0.637	0.724	0.900	0.892
2013	1.360	0.966	1.000	0.991
2014	1.329	0.908	1.000	0.991
2015	1.236	0.771	1.000	0.991
2016	1.791	0.585	1.000	0.991
2017	-	-	1.000	0.991
2018	-	-	1.000	0.991

Notes: (a) See Appendix E, Exhibit VI, Sheet 1, Column (8).  
 (b) See Appendix E, Exhibit VI, Sheet 1, Column (11).

Birth Year	Paid Basis		Case Outstanding Basis		Open Accepted Claims (AAA Only) @ 6/30/18			Average Life Expectancy	
	Annual Inflation Factors	2018 Level Adjustment Factors	Annual Inflation Factors	2018 Level Adjustment Factors	Reported (a) Open Accepted Claim Cts.	IBNR (b) Accepted Claim Cts.	Ultimate Open Accepted Claim Cts. (6) + (7)	Average Life Expectancy Indicated (c)	Selected (d) (9) x 1.25
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1989	1.75%	1.517	0.81%	1.420	4	-	4	20.88	26.10
1990	1.62%	1.491	0.67%	1.409	3	-	3	15.59	19.49
1991	1.47%	1.468	0.50%	1.400	4	-	4	27.89	34.86
1992	1.54%	1.446	0.44%	1.393	9	-	9	27.97	34.96
1993	1.46%	1.424	0.40%	1.386	8	-	8	25.43	31.79
1994	1.15%	1.404	0.37%	1.381	4	-	4	31.18	38.98
1995	1.05%	1.388	0.36%	1.376	5	-	5	30.08	37.60
1996	1.00%	1.374	0.30%	1.371	6	-	6	21.10	26.38
1997	0.92%	1.360	0.25%	1.367	8	-	8	31.47	39.34
1998	0.94%	1.348	0.30%	1.363	11	-	11	29.21	36.51
1999	0.97%	1.335	0.38%	1.359	3	-	3	24.17	30.21
2000	1.01%	1.322	0.36%	1.354	5	-	5	20.65	25.81
2001	1.13%	1.309	0.34%	1.349	4	-	4	29.98	37.48
2002	1.10%	1.294	0.33%	1.345	13	-	13	27.68	34.60
2003	1.20%	1.280	0.29%	1.340	3	-	3	22.03	27.54
2004	1.41%	1.265	4.94%	1.336	5	-	5	32.94	41.18
2005	1.20%	1.247	0.87%	1.273	7	-	7	27.44	34.30
2006	1.15%	1.233	4.86%	1.262	9	-	9	31.50	39.38
2007	1.03%	1.219	4.55%	1.204	7	-	7	22.52	28.15
2008	13.56%	1.206	0.35%	1.152	9	-	9	36.06	45.08
2009	0.86%	1.062	0.32%	1.148	10	-	10	33.65	42.06
2010	0.89%	1.053	0.36%	1.144	5	-	5	45.99	57.49
2011	0.89%	1.044	0.42%	1.140	10	-	10	34.01	42.51
2012	0.67%	1.035	9.83%	1.135	7	-	7	37.31	46.64
2013	0.56%	1.028	0.72%	1.033	8	1	9	27.00	33.75
2014	0.47%	1.022	0.18%	1.026	12	2	14	26.00	32.50
2015	0.48%	1.017	2.01%	1.024	11	3	14	30.00	37.50
2016	0.76%	1.012	0.22%	1.004	3	8	11	27.00	33.75
2017	0.46%	1.005	0.18%	1.002	3	10	13	30.00	37.50
2018		1.000		1.000	1	6	7	30.00	37.50
Totals:					197	30	227		

Notes: (a) Current reported open accepted claims alive as of June 30, 2018. See Exhibit X, Sheet 1d, Column (4).  
 (b) Estimated unreported accepted claims alive as of June 30, 2018. See Exhibit X, Sheet 1a, Column (9).  
 (c) Current average remaining life expectancy based on NICA physician estimates.  
 (d) Final selected remaining life expectancy estimated to include consideration of increased life expectancy over time by 0.2 per year.

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate **2.00%**

Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222
1989																		
1990																		
1991																		
1992																		
1993																		
1994																		
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		357,993
2002																	926,516	930,337
2003																318,226	300,267	299,242
2004															328,162	351,264	335,033	337,591
2005													404,330	451,655	481,138	456,661	457,846	
2006													671,054	600,735	673,104	719,291	684,887	688,915
2007												701,469	706,971	626,662	695,106	735,180	692,667	689,262
2008											649,989	645,046	657,899	590,281	662,908	710,055	677,714	683,372
2009										740,144	771,555	764,397	778,292	697,085	781,459	835,517	795,979	801,098
2010									269,726	309,428	324,223	322,895	330,511	297,625	335,490	360,721	345,633	349,908
2011								610,909	536,089	611,664	637,387	631,237	642,467	575,208	644,576	688,886	656,015	659,955
2012							455,774	425,979	374,402	427,872	446,594	443,017	451,657	405,067	454,710	486,836	464,453	468,116
2013						767,659	696,921	646,225	563,439	638,686	661,156	650,396	657,469	584,568	650,441	690,138	652,356	651,320
2014					896,143	1,182,377	1,071,816	992,340	863,884	977,729	1,010,526	992,485	1,001,644	889,104	987,619	1,046,081	987,062	983,711
2015				1,088,166	885,798	1,172,899	1,067,067	991,562	866,411	984,281	1,021,180	1,006,832	1,020,120	909,129	1,013,990	1,078,500	1,022,003	1,022,986
2016			506,027	846,706	687,291	907,455	823,187	762,698	664,454	752,576	778,405	765,092	772,751	686,470	763,147	808,987	763,988	762,051
2017		335,926	580,037	975,770	794,383	1,051,959	957,135	889,499	777,311	883,152	916,357	903,579	915,604	816,075	910,306	968,333	917,715	918,710
2018	42,206	149,748	260,905	441,828	361,004	479,813	438,184	408,753	358,562	408,961	426,002	421,733	429,072	384,004	430,143	459,526	437,418	439,858

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).



**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 222:234	Maturity (months) 234:246	Maturity (months) 246:258	Maturity (months) 258:270	Maturity (months) 270:282	Maturity (months) 282:294	Maturity (months) 294:306	Maturity (months) 306:318	Maturity (months) 318:330	Maturity (months) 330:342	Maturity (months) 342:354	Maturity (months) 354:366	Maturity (months) 366:378	Maturity (months) 378:390	Maturity (months) 390:402	Maturity (months) 402:414	Maturity (months) 414:426	Maturity (months) 426:438	
1989													269,015	269,195	269,261	269,208	269,032	268,730	268,297
1990											177,248	175,147	172,951	170,658	168,268	165,782	163,202	160,528	
1991										349,429	345,597	348,563	351,468	354,307	357,074	359,764	362,373	364,894	
1992									605,243	598,518	591,737	596,592	601,334	605,954	610,443	614,791	618,990	623,030	
1993								570,373	562,489	554,570	546,611	549,375	551,975	554,401	556,645	558,696	560,548	562,192	
1994							226,053	224,008	221,946	219,864	217,761	219,949	222,111	224,244	226,345	228,412	230,441	232,429	
1995						436,368	430,514	426,117	421,687	417,221	412,716	416,331	419,876	423,345	426,731	430,028	433,231	436,333	
1996					465,986	469,994	458,633	448,909	439,219	429,563	419,934	418,533	416,925	415,103	413,063	410,800	408,312	405,594	
1997				510,952	499,751	509,649	502,956	497,964	492,933	487,860	482,741	487,123	491,429	495,652	499,785	503,820	507,751	511,571	
1998			854,661	880,728	859,599	874,735	861,354	850,901	840,388	829,812	819,166	824,607	829,846	834,867	839,659	844,207	848,500	852,524	
1999		287,474	288,708	295,808	287,025	290,341	284,167	278,986	273,808	268,632	263,454	263,437	263,305	263,054	262,679	262,178	261,547	260,783	
2000	315,483	313,546	313,008	318,750	307,364	308,947	300,427	293,014	285,652	278,343	271,081	269,140	267,055	264,821	262,438	259,905	257,220	254,385	
2001	361,781	363,509	366,946	377,938	368,672	374,958	369,015	364,329	359,619	354,884	350,120	352,229	354,244	356,158	357,967	359,664	361,244	362,702	
2002	937,891	940,032	946,521	972,362	946,034	959,591	941,813	927,276	912,704	898,096	883,441	886,101	888,443	890,450	892,108	893,404	894,324	894,856	
2003	299,359	297,698	297,366	303,007	292,367	294,060	286,138	279,262	272,430	265,641	258,893	257,223	255,417	253,471	251,382	249,151	246,776	244,256	
2004	341,548	343,574	347,229	358,057	349,703	356,106	350,905	346,894	342,858	338,794	334,700	337,183	339,593	341,924	344,170	346,326	348,387	350,349	
2005	460,846	461,166	463,599	475,473	461,823	467,642	458,179	450,309	442,433	434,552	426,660	427,126	427,418	427,527	427,447	427,172	426,697	426,015	
2006	695,751	698,611	704,740	725,350	707,070	718,612	706,709	697,218	687,685	678,108	668,481	671,969	675,260	678,342	681,204	683,835	686,225	688,363	
2007	688,470	683,573	681,719	693,519	668,053	670,785	651,587	634,813	618,174	601,672	585,296	580,417	575,222	569,706	563,865	557,698	551,207	544,390	
2008	691,880	696,498	704,436	726,957	710,550	724,134	714,134	706,552	698,915	691,220	683,462	689,144	694,700	700,117	705,384	710,493	715,432	720,191	
2009	809,497	813,287	820,897	845,403	824,593	838,566	825,190	814,625	804,007	793,332	782,594	787,217	791,628	795,811	799,754	803,444	806,871	810,021	
2010	355,707	359,568	365,203	378,501	371,582	380,378	376,832	374,559	372,259	369,930	367,571	372,482	377,405	382,336	387,273	392,211	397,148	402,079	
2011	666,586	669,412	675,373	695,216	677,788	688,947	677,630	668,625	659,579	650,490	641,352	644,798	648,058	651,121	653,976	656,612	659,021	661,191	
2012	473,722	476,656	481,854	497,013	485,550	494,578	487,492	482,059	476,590	471,082	465,532	469,132	472,636	476,034	479,321	482,488	485,529	488,437	
2013	652,794	650,409	650,948	664,610	642,565	647,616	631,487	617,627	603,826	590,083	576,390	573,993	571,306	568,319	565,027	561,425	557,510	553,276	
2014	984,114	978,669	977,597	996,161	961,197	966,784	940,755	918,167	895,723	873,421	851,250	845,778	839,857	833,476	826,629	819,311	811,520	803,253	
2015	1,027,975	1,026,944	1,030,579	1,055,113	1,022,986	1,033,981	1,011,174	991,921	972,692	953,487	934,293	933,398	932,080	930,322	928,112	925,439	922,291	918,658	
2016	763,034	759,493	759,355	774,496	748,022	753,098	733,545	716,650	699,847	683,133	666,500	662,934	659,024	654,759	650,133	645,143	639,785	634,056	
2017	923,305	922,496	925,880	948,046	919,302	929,310	908,937	891,757	874,595	857,452	840,317	839,641	838,586	837,138	835,286	833,019	830,328	827,202	
2018	444,086	445,772	449,539	462,535	450,730	457,932	450,192	443,991	437,764	431,511	425,227	427,285	429,212	431,000	432,644	434,135	435,468	436,636	

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 438:450	Maturity (months) 450:462	Maturity (months) 462:474	Maturity (months) 474:486	Maturity (months) 486:498	Maturity (months) 498:510	Maturity (months) 510:522	Maturity (months) 522:534	Maturity (months) 534:546	Maturity (months) 546:558	Maturity (months) 558:570	Maturity (months) 570:582	Maturity (months) 582:594	Maturity (months) 594:606	Maturity (months) 606:618	Maturity (months) 618:630	Maturity (months) 630:642	Maturity (months) 642:654
1989	267,728	267,017	266,158	265,148	263,981	262,650	261,147	259,461	257,585	255,509	253,225	250,722	247,989	245,016	241,793	238,309	234,559	230,537
1990	157,761	154,898	151,942	148,894	145,755	142,525	139,203	135,787	132,278	128,675	124,979	121,190	117,309	113,338	109,278	105,133	100,911	96,618
1991	367,321	369,644	371,858	373,955	375,927	377,764	379,454	380,985	382,343	383,516	384,487	385,242	385,763	386,030	386,026	385,731	385,126	384,194
1992	626,898	630,580	634,064	637,339	640,390	643,199	645,747	648,011	649,969	651,598	652,873	653,765	654,246	654,283	653,843	652,893	651,404	649,345
1993	563,613	564,798	565,737	566,419	566,831	566,956	566,774	566,266	565,412	564,190	562,576	560,548	558,078	555,138	551,702	547,743	543,236	538,162
1994	234,372	236,265	238,104	239,884	241,602	243,250	244,822	246,310	247,707	249,003	250,191	251,260	252,200	252,998	253,644	254,124	254,427	254,542
1995	439,325	442,196	444,940	447,548	450,010	452,314	454,446	456,392	458,135	459,660	460,948	461,982	462,739	463,198	463,337	463,131	462,559	461,600
1996	402,639	399,438	395,988	392,285	388,323	384,094	379,587	374,792	369,699	364,297	358,578	352,530	346,144	339,408	332,315	324,857	317,033	308,847
1997	515,269	518,833	522,255	525,525	528,631	531,560	534,296	536,820	539,116	541,165	542,945	544,435	545,610	546,445	546,912	546,985	546,638	545,846
1998	856,260	859,686	862,788	865,549	867,948	869,961	871,558	872,710	873,385	873,550	873,171	872,209	870,625	868,373	865,412	861,696	857,187	851,849
1999	259,880	258,832	257,635	256,286	254,778	253,107	251,262	249,237	247,023	244,612	241,995	239,164	236,109	232,820	229,288	225,506	221,469	217,172
2000	251,394	248,244	244,934	241,465	237,836	234,042	230,078	225,941	221,627	217,132	212,452	207,586	202,528	197,278	191,832	186,193	180,363	174,351
2001	364,029	365,216	366,256	367,143	367,867	368,419	368,785	368,953	368,910	368,641	368,131	367,366	366,327	364,996	363,355	361,386	359,073	356,400
2002	894,978	894,667	893,908	892,685	890,979	888,762	886,005	882,676	878,746	874,179	868,943	863,002	856,316	848,843	840,545	831,385	821,332	810,360
2003	241,587	238,766	235,792	232,663	229,380	225,937	222,329	218,553	214,603	210,477	206,170	201,679	197,001	192,130	187,066	181,809	176,362	170,730
2004	352,202	353,940	355,554	357,039	358,387	359,586	360,626	361,495	362,179	362,665	362,938	362,984	362,785	362,324	361,581	360,540	359,182	357,493
2005	425,117	423,993	422,635	421,036	419,190	417,082	414,700	412,029	409,056	405,766	402,145	398,176	393,843	389,128	384,016	378,491	372,542	366,162
2006	690,233	691,818	693,105	694,081	694,730	695,031	694,961	694,496	693,609	692,275	690,466	688,153	685,302	681,879	677,852	673,186	667,852	661,825
2007	537,241	529,753	521,927	513,764	505,263	496,417	487,217	477,656	467,728	457,425	446,745	435,682	424,232	412,390	400,158	387,539	374,546	361,197
2008	724,755	729,107	733,233	737,121	740,754	744,111	747,169	749,903	752,288	754,295	755,897	757,061	757,753	757,936	757,571	756,622	755,053	752,829
2009	812,874	815,412	817,619	819,479	820,974	822,080	822,767	823,009	822,776	822,035	820,754	818,898	816,428	813,302	809,481	804,924	799,595	793,461
2010	406,999	411,902	416,784	421,639	426,462	431,243	435,974	440,646	445,248	449,768	454,195	458,515	462,714	466,773	470,677	474,407	477,945	481,273
2011	663,107	664,753	666,116	667,184	667,942	668,368	668,442	668,139	667,436	666,306	664,723	662,658	660,081	656,958	653,256	648,943	643,992	638,377
2012	491,201	493,808	496,251	498,520	500,603	502,487	504,155	505,591	506,776	507,692	508,319	508,635	508,618	508,241	507,479	506,307	504,702	502,640
2013	548,713	543,810	538,565	532,971	527,024	520,711	514,019	506,935	499,447	491,540	483,205	474,428	465,197	455,498	445,322	434,663	423,519	411,900
2014	794,497	785,239	775,478	765,210	754,432	743,129	731,285	718,885	705,917	692,366	678,222	663,472	648,103	632,103	615,467	598,195	580,295	561,788
2015	914,520	909,855	904,652	898,898	892,578	885,668	878,141	869,968	861,124	851,580	841,309	830,282	818,467	805,831	792,349	777,995	762,754	746,620
2016	627,944	621,438	614,535	607,232	599,523	591,396	582,838	573,834	564,374	554,442	544,030	533,125	521,714	509,786	497,333	484,351	470,844	456,825
2017	823,623	819,572	815,039	810,011	804,476	798,410	791,790	784,590	776,786	768,353	759,265	749,496	739,017	727,799	715,817	703,048	689,477	675,101
2018	437,628	438,434	439,045	439,453	439,649	439,618	439,347	438,819	438,019	436,930	435,534	433,813	431,747	429,313	426,492	423,261	419,604	415,504

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 654:666	Maturity (months) 666:678	Maturity (months) 678:690	Maturity (months) 690:702	Maturity (months) 702:714	Maturity (months) 714:726	Maturity (months) 726:738	Maturity (months) 738:750	Maturity (months) 750:762	Maturity (months) 762:774	Maturity (months) 774:786	Maturity (months) 786:798	Maturity (months) 798:810	Maturity (months) 810:822	Maturity (months) 822:834	Maturity (months) 834:846	Maturity (months) 846:858	Maturity (months) 858:870
1989	226,241	221,667	216,810	211,665	206,232	200,513	194,509	188,224	181,664	174,834	167,744	160,408	152,843	145,073	137,137	129,076	120,929	112,726
1990	92,266	87,864	83,421	78,948	74,457	69,963	65,479	61,022	56,607	52,250	47,969	43,781	39,706	35,765	31,982	28,380	24,976	21,782
1991	382,919	381,283	379,265	376,840	373,991	370,697	366,937	362,691	357,937	352,654	346,819	340,416	333,425	325,839	317,665	308,914	299,596	289,707
1992	646,691	643,409	639,464	634,819	629,441	623,297	616,354	608,580	599,937	590,392	579,911	568,467	556,031	542,595	528,174	512,795	496,476	479,219
1993	532,502	526,236	519,340	511,789	503,564	494,649	485,028	474,688	463,615	451,795	439,222	425,897	411,821	397,015	381,528	365,418	348,735	331,516
1994	254,458	254,161	253,639	252,875	251,855	250,566	248,992	247,117	244,926	242,401	239,525	236,282	232,656	228,637	224,221	219,410	214,200	208,584
1995	460,235	458,441	456,193	453,463	450,228	446,462	442,142	437,242	431,735	425,594	418,793	411,310	403,121	394,216	384,600	374,289	363,289	351,595
1996	300,304	291,412	282,175	272,597	262,693	252,479	241,974	231,200	220,179	208,940	197,512	185,935	174,249	162,508	150,782	139,145	127,661	116,384
1997	544,586	542,832	540,552	537,715	534,291	530,251	525,565	520,202	514,129	507,314	499,723	491,329	482,102	472,025	461,104	449,352	436,773	423,359
1998	845,648	838,548	830,505	821,473	811,414	800,296	788,081	774,735	760,224	744,512	727,571	709,384	689,932	669,223	647,308	624,248	600,098	574,885
1999	212,615	207,798	202,716	197,368	191,755	185,882	179,752	173,374	166,754	159,902	152,830	145,555	138,097	130,483	122,753	114,951	107,115	99,279
2000	168,167	161,821	155,320	148,675	141,901	135,014	128,033	120,978	113,870	106,731	99,587	92,467	85,400	78,423	71,580	64,915	58,467	52,264
2001	353,355	349,923	346,087	341,828	337,131	331,985	326,375	320,290	313,715	306,640	299,055	290,956	282,338	273,209	263,594	253,525	243,027	232,118
2002	798,451	785,584	771,729	756,858	740,956	724,014	706,022	686,977	666,876	645,721	623,522	600,309	576,108	550,983	525,038	498,395	471,161	443,422
2003	164,922	158,947	152,813	146,527	140,102	133,554	126,900	120,157	113,345	106,485	99,600	92,718	85,866	79,079	72,401	65,875	59,537	53,417
2004	355,458	353,061	350,282	347,102	343,503	339,469	334,984	330,031	324,593	318,652	312,194	305,207	297,680	289,611	281,015	271,914	262,322	252,248
2005	359,346	352,089	344,382	336,219	327,597	318,520	308,992	299,017	288,604	277,763	266,508	254,863	242,852	230,516	217,914	205,115	192,178	179,152
2006	655,083	647,599	639,344	630,286	620,402	609,672	598,074	585,591	572,204	557,897	542,659	526,491	509,392	491,386	472,530	452,895	432,540	411,507
2007	347,519	333,536	319,269	304,742	289,992	275,059	259,984	244,814	229,596	214,380	199,224	184,192	169,346	154,766	140,543	126,770	113,523	100,859
2008	749,919	746,289	741,894	736,693	730,646	723,716	715,864	707,051	697,235	686,374	674,429	661,369	647,158	631,785	615,266	597,632	578,901	559,073
2009	786,495	778,663	769,927	760,246	749,589	737,928	725,234	711,479	696,637	680,681	663,592	645,362	625,981	605,471	583,886	561,300	537,773	513,344
2010	484,373	487,224	489,801	492,081	494,035	495,640	496,865	497,681	498,053	497,947	497,324	496,147	494,375	491,972	488,912	485,173	480,724	475,520
2011	632,075	625,063	617,310	608,786	599,467	589,333	578,364	566,540	553,843	540,257	525,770	510,379	494,084	476,907	458,899	440,126	420,645	400,494
2012	500,101	497,062	493,496	489,373	484,670	479,363	473,427	466,838	459,571	451,600	442,901	433,458	423,250	412,276	400,551	388,102	374,948	361,094
2013	399,816	387,279	374,297	360,882	347,054	332,840	318,270	303,375	288,191	272,759	257,123	241,340	225,468	209,582	193,779	178,161	162,814	147,809
2014	542,703	523,067	502,904	482,241	461,121	439,595	417,717	395,547	373,147	350,587	327,943	305,306	282,767	260,441	238,469	216,995	196,139	175,996
2015	729,597	711,683	692,873	673,166	652,573	631,116	608,820	585,716	561,837	537,225	511,932	486,028	459,586	432,712	405,554	378,272	351,006	323,873
2016	442,312	427,322	411,871	395,974	379,663	362,973	345,942	328,612	311,031	293,247	275,318	257,314	239,303	221,375	203,642	186,218	169,202	152,673
2017	659,918	643,929	627,128	609,511	591,090	571,883	551,910	531,198	509,776	487,682	464,959	441,671	417,881	393,685	369,214	344,611	320,002	295,493
2018	410,948	405,922	400,406	394,382	387,835	380,755	373,130	364,950	356,205	346,887	336,990	326,518	315,473	303,873	291,757	279,172	266,158	252,746

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 870:882	Maturity (months) 882:894	Maturity (months) 894:906	Maturity (months) 906:918	Maturity (months) 918:930	Maturity (months) 930:942	Maturity (months) 942:954	Maturity (months) 954:966	Maturity (months) 966:978	Maturity (months) 978:990	Maturity (months) 990:1002	Maturity (months) 1002:1014	Maturity (months) 1014:1026	Maturity (months) 1026:1038	Maturity (months) 1038:1050	Maturity (months) 1050:1062	Maturity (months) 1062:1074	Maturity (months) 1074:1086
1989	104,499	96,286	88,131	80,081	72,184	64,496	57,077	49,986	43,278	36,998	31,188	25,883	21,112	16,893	13,231	10,120	7,539	5,453
1990	18,808	16,062	13,553	11,283	9,256	7,469	5,921	4,601	3,499	2,596	1,874	1,312	887	576	358	211	118	61
1991	279,243	268,213	256,629	244,516	231,903	218,835	205,377	191,607	177,608	163,462	149,264	135,124	121,163	107,510	94,299	81,666	69,743	58,650
1992	461,021	441,904	421,896	401,046	379,409	357,071	334,150	310,785	287,122	263,309	239,508	215,911	192,723	170,161	148,448	127,806	108,445	90,554
1993	313,799	295,638	277,103	258,274	239,242	220,121	201,045	182,163	163,619	145,553	128,109	111,435	95,678	80,977	67,455	55,211	44,321	34,821
1994	202,549	196,092	189,210	181,907	174,191	166,078	157,598	148,788	139,690	130,347	120,809	111,139	101,412	91,707	82,116	72,734	63,661	54,995
1995	339,201	326,114	312,348	297,930	282,891	267,283	251,183	234,680	217,871	200,854	183,740	166,660	149,758	133,190	117,118	101,707	87,118	73,503
1996	105,362	94,656	84,324	74,429	65,028	56,180	47,946	40,375	33,502	27,349	21,923	17,221	13,225	9,903	7,209	5,084	3,461	2,264
1997	409,096	393,990	378,053	361,309	343,790	325,553	306,681	287,276	267,443	247,297	226,961	206,588	186,347	166,419	146,999	128,286	110,478	93,762
1998	548,641	521,422	493,306	464,390	434,787	404,646	374,159	343,540	313,008	282,779	253,084	224,177	196,318	169,771	144,788	121,605	100,420	81,393
1999	91,473	83,737	76,113	68,646	61,382	54,373	47,673	41,333	35,400	29,908	24,890	20,369	16,362	12,874	9,898	7,418	5,402	3,810
2000	46,332	40,701	35,397	30,446	25,870	21,689	17,918	14,566	11,633	9,108	6,975	5,211	3,786	2,667	1,814	1,186	741	440
2001	220,815	209,148	197,153	184,878	172,375	159,712	146,973	134,252	121,643	109,238	97,134	85,435	74,246	63,672	53,809	44,744	36,547	29,267
2002	415,265	386,805	358,174	329,524	301,015	272,838	245,209	218,354	192,485	167,796	144,473	122,699	102,638	84,428	68,167	53,914	41,675	31,406
2003	47,541	41,939	36,639	31,668	27,050	22,807	18,957	15,514	12,480	9,849	7,608	5,738	4,213	3,003	2,069	1,372	872	528
2004	241,695	230,683	219,236	207,388	195,178	182,661	169,912	157,014	144,054	131,119	118,303	105,714	93,464	81,669	70,445	59,903	50,145	41,254
2005	166,086	153,042	140,089	127,301	114,756	102,542	90,753	79,487	68,826	58,846	49,609	41,176	33,591	26,882	21,059	16,111	12,004	8,685
2006	389,840	367,607	344,887	321,780	298,395	274,867	251,363	228,064	205,148	182,786	161,155	140,441	120,828	102,489	85,581	70,234	56,545	44,568
2007	88,829	77,489	66,887	57,070	48,072	39,925	32,648	26,248	20,711	16,003	12,079	8,882	6,341	4,380	2,914	1,859	1,130	651
2008	538,144	516,135	493,080	469,029	444,046	418,228	391,708	364,646	337,207	309,562	281,898	254,435	227,410	201,077	175,695	151,523	128,810	107,781
2009	488,055	461,974	435,185	407,794	379,920	351,716	323,372	295,098	267,104	239,596	212,788	186,912	162,201	138,883	117,169	97,247	79,267	63,335
2010	469,513	462,658	454,911	446,233	436,582	425,930	414,263	401,579	387,879	373,161	357,436	340,738	323,118	304,650	285,431	265,585	245,259	224,627
2011	379,712	358,363	336,523	314,284	291,748	269,047	246,340	223,797	201,593	179,891	158,864	138,692	119,556	101,626	85,057	69,982	56,500	44,670
2012	346,546	331,324	315,459	298,994	281,979	264,489	246,621	228,491	210,216	191,916	173,722	155,784	138,260	121,317	105,121	89,836	75,611	62,578
2013	133,215	119,107	105,566	92,667	80,484	69,092	58,560	48,946	40,287	32,598	25,880	20,115	15,269	11,288	8,101	5,624	3,761	2,411
2014	156,656	138,213	120,763	104,394	89,185	75,207	62,524	51,178	41,177	32,503	25,114	18,947	13,918	9,922	6,839	4,538	2,885	1,747
2015	296,989	270,492	244,529	219,257	194,833	171,424	149,208	128,353	108,994	91,238	75,167	60,841	48,286	37,491	28,409	20,948	14,984	10,359
2016	136,705	121,379	106,779	92,983	80,065	68,094	57,135	47,236	38,421	30,689	24,022	18,384	13,718	9,951	6,993	4,743	3,090	1,923
2017	271,186	247,207	223,688	200,771	178,597	157,321	137,105	118,100	100,435	84,207	69,495	56,356	44,819	34,879	26,496	19,592	14,058	9,752
2018	238,967	224,865	210,494	195,921	181,215	166,466	151,781	137,272	123,053	109,232	95,917	83,222	71,258	60,128	49,923	40,714	32,554	25,465

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 1086:1098	Maturity (months) 1098:1110	Maturity (months) 1110:1122	Maturity (months) 1122:1134	Maturity (months) 1134:1146	Maturity (months) 1146:1158	Maturity (months) 1158:1170	Maturity (months) 1170:1182	Maturity (months) 1182:1194	Maturity (months) 1194:1206	Maturity (months) 1206:1218	Maturity (months) 1218:1230	Maturity (months) 1230:1242	Maturity (months) 1242:1254	Maturity (months) 1254:1266	Maturity (months) 1266:1278	Maturity (months) 1278:1290	Maturity (months) 1290:1302
1989	3,817	2,575	1,667	1,031	605	335	174	84	37	15	6	2	1	0	0	0	0	0
1990	29	13	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	48,493	39,356	31,293	24,330	18,457	13,631	9,780	6,805	4,580	2,976	1,860	1,136	694	424	259	158	96	59
1992	74,294	59,783	47,092	36,236	27,176	19,817	14,021	9,605	6,355	4,051	2,479	1,480	884	528	315	188	112	67
1993	26,714	19,961	14,486	10,178	6,900	4,496	2,806	1,671	946	506	255	123	60	29	14	7	3	2
1994	46,832	39,257	32,345	26,153	20,715	16,045	12,134	8,946	6,419	4,475	3,023	2,005	1,329	881	584	388	257	170
1995	60,993	49,697	39,689	31,006	23,647	17,566	12,687	8,890	6,032	3,953	2,495	1,539	950	586	362	223	138	85
1996	1,415	841	471	247	120	53	21	8	2	1	0	0	0	0	0	0	0	0
1997	78,309	64,260	51,721	40,756	31,379	23,556	17,211	12,216	8,406	5,596	3,594	2,258	1,419	892	560	352	221	139
1998	64,627	50,161	37,969	27,956	19,966	13,790	9,186	5,885	3,615	2,121	1,183	640	347	188	101	55	30	16
1999	2,593	1,695	1,059	629	353	185	90	41	17	6	2	1	0	0	0	0	0	0
2000	247	129	63	28	11	4	1	0	0	0	0	0	0	0	0	0	0	0
2001	22,932	17,539	13,062	9,446	6,612	4,466	2,902	1,808	1,076	610	327	170	88	46	24	12	6	3
2002	23,007	16,332	11,194	7,379	4,656	2,799	1,595	858	432	203	88	36	15	6	2	1	0	0
2003	302	162	81	37	15	6	2	0	0	0	0	0	0	0	0	0	0	0
2004	33,299	26,317	20,323	15,299	11,199	7,949	5,459	3,618	2,307	1,412	826	470	267	152	87	49	28	16
2005	6,080	4,103	2,657	1,643	965	534	277	134	60	24	9	3	1	0	0	0	0	0
2006	34,313	25,741	18,762	13,247	9,029	5,919	3,720	2,233	1,275	689	351	172	84	41	20	10	5	2
2007	352	177	82	34	13	4	1	0	0	0	0	0	0	0	0	0	0	0
2008	88,627	71,494	56,471	43,584	32,796	24,003	17,053	11,734	7,803	5,002	3,080	1,851	1,113	669	402	242	145	87
2009	49,501	37,757	28,033	20,203	14,089	9,476	6,128	3,798	2,248	1,265	674	347	179	92	47	24	13	6
2010	203,887	183,253	162,957	143,235	124,328	106,463	89,867	74,719	61,142	49,197	38,884	30,406	23,776	18,592	14,538	11,368	8,890	6,951
2011	34,509	25,985	19,020	13,491	9,244	6,095	3,855	2,331	1,342	732	376	187	92	46	23	11	6	3
2012	50,843	40,475	31,507	23,928	17,687	12,692	8,822	5,925	3,835	2,386	1,421	825	479	278	161	93	54	31
2013	1,474	853	464	235	110	47	18	6	2	0	0	0	0	0	0	0	0	0
2014	1,001	538	269	123	51	19	6	2	0	0	0	0	0	0	0	0	0	0
2015	6,893	4,394	2,668	1,534	829	417	194	82	32	11	3	1	0	0	0	0	0	0
2016	1,137	633	330	159	70	28	10	3	1	0	0	0	0	0	0	0	0	0
2017	6,514	4,171	2,545	1,471	800	406	190	82	32	11	3	1	0	0	0	0	0	0
2018	19,442	14,450	10,424	7,276	4,896	3,164	1,956	1,153	645	341	169	80	38	18	9	4	2	1

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Prospective Incremental Payment - Birth Year Level (a)**

Assumed Annual Increase Utilization Rate

Year of Birth	Maturity (months) 1302:1314	Maturity (months) 1314:1326	Maturity (months) 1326:1338	Maturity (months) 1338:1350	Maturity (months) 1350:1362	Maturity (months) 1362:1374	Maturity (months) 1374:1386	Maturity (months) 1386:1398	Maturity (months) 1398:1410	Maturity (months) 1410:1422	Maturity (months) 1422:1434	Maturity (months) 1434:1446	Maturity (months) 1446:1458	Maturity (months) 1458:1470	Totals Outstanding
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,434,348
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,775,372
1991	36	22	13	8	5	3	2	1	1	0	0	0	0	0	19,565,721
1992	40	24	14	9	5	3	2	1	1	0	0	0	0	0	33,448,982
1993	1	0	0	0	0	0	0	0	0	0	0	0	0	0	27,270,136
1994	113	75	50	33	22	14	10	6	4	3	2	1	1	0	14,050,084
1995	52	32	20	12	8	5	3	2	1	1	0	0	0	0	25,301,731
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,082,175
1997	87	55	34	22	14	9	5	3	2	1	1	1	0	0	31,083,834
1998	9	5	3	1	1	0	0	0	0	0	0	0	0	0	48,107,646
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,618,277
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,306,432
2001	2	1	0	0	0	0	0	0	0	0	0	0	0	0	21,142,552
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,158,205
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,867,365
2004	9	5	3	2	1	1	0	0	0	0	0	0	0	0	22,342,115
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23,827,781
2006	1	1	0	0	0	0	0	0	0	0	0	0	0	0	42,570,118
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,725,259
2008	52	32	19	11	7	4	2	1	1	1	0	0	0	0	49,802,915
2009	3	2	1	0	0	0	0	0	0	0	0	0	0	0	53,223,225
2010	5,436	4,251	3,324	2,599	2,032	1,589	1,243	972	760	594	465	363	284	0	34,902,114
2011	1	1	0	0	0	0	0	0	0	0	0	0	0	0	44,068,883
2012	18	11	6	4	2	1	1	0	0	0	0	0	0	0	34,884,036
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34,084,470
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,900,670
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59,867,390
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,878,527
2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54,887,951
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,962,211

942,140,526

Notes: (a) The product of average incremental payment per open accepted claim (shown in Appendix E, Exhibit III, Sheets 2a to 2g) and prospective open accepted claim counts (shown in Appendix E, Exhibit III, Sheets 3a to 3g).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate **2.00%**

Average Incremental Payment Per Open Accepted Claim by Maturity (b)

2018 Level	99,584	106,893	95,361	98,123	71,959	89,842	82,863	78,076	69,189	79,731	83,925	83,969	86,354	78,134	88,505	95,636	92,105	93,731	
Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222	
1989																			
1990																			
1991																			
1992																			
1993																			
1994																			
1995																			
1996																			
1997																			
1998																			
1999																			
2000																			
2001																			89,498
2002																	71,270		72,529
2003																106,075	102,158		103,962
2004																65,632	70,921	68,302	69,508
2005															57,761	65,428	70,700	68,089	69,292
2006													74,562	67,464	76,419	82,577	79,527	80,932	
2007												100,210	103,056	93,247	105,624	114,134	109,920	111,860	
2008											72,221	72,258	74,311	67,238	76,162	82,299	79,260	80,659	
2009									74,014	77,908	77,948	80,162	72,532	82,159	88,779	85,501	87,010		
2010							53,945	62,165	65,435	65,469	67,328	60,919	69,005	74,566	71,812	73,080			
2011								61,091	54,137	62,386	65,667	65,701	67,567	61,136	69,251	74,831	72,067	73,340	
2012						65,111	61,349	54,366	62,650	65,945	65,979	67,853	61,395	69,544	75,147	72,372	73,650		
2013						86,148	79,456	74,867	66,344	76,453	80,475	80,516	82,803	74,922	84,866	91,705	88,318	89,877	
2014					69,499	86,771	80,031	75,408	66,824	77,006	81,056	81,098	83,402	75,463	85,480	92,367	88,956	90,527	
2015				94,940	69,625	86,928	80,175	75,544	66,945	77,145	81,203	81,245	83,553	75,600	85,634	92,534	89,117	90,691	
2016			94,119	96,845	71,022	88,672	81,784	77,060	68,288	78,693	82,832	82,875	85,229	77,116	87,352	94,391	90,905	92,510	
2017		105,737	94,330	97,062	71,181	88,871	81,967	77,232	68,441	78,869	83,018	83,061	85,420	77,289	87,548	94,602	91,109	92,717	
2018	98,687	105,931	94,503	97,240	71,311	89,033	82,117	77,374	68,566	79,013	83,170	83,213	85,576	77,431	87,708	94,776	91,276	92,887	

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.  
 (b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

Average Incremental Payment Per Open Accepted Claim by Maturity (b)

2018 Level	95,792	97,359	99,432	103,634	102,325	105,360	105,000	105,000	105,000	105,000	105,000	107,100	109,242	111,427	113,655	115,928	118,247	120,612
Year of Birth	Maturity (months) 222:234	Maturity (months) 234:246	Maturity (months) 246:258	Maturity (months) 258:270	Maturity (months) 270:282	Maturity (months) 282:294	Maturity (months) 294:306	Maturity (months) 306:318	Maturity (months) 318:330	Maturity (months) 330:342	Maturity (months) 342:354	Maturity (months) 354:366	Maturity (months) 366:378	Maturity (months) 378:390	Maturity (months) 390:402	Maturity (months) 402:414	Maturity (months) 414:426	Maturity (months) 426:438
1989												67,254	68,599	69,971	71,370	72,798	74,253	75,739
1990										59,083	60,264	61,470	62,699	63,953	65,232	66,537	67,867	
1991									87,357	87,357	89,104	90,886	92,704	94,558	96,449	98,378	100,346	
1992								67,249	67,249	67,249	67,249	68,594	69,966	71,365	72,793	74,249	75,734	77,248
1993								71,297	71,297	71,297	72,723	74,177	75,661	77,174	78,717	80,292	81,897	
1994							56,513	56,513	56,513	56,513	56,513	57,644	58,796	59,972	61,172	62,395	63,643	64,916
1995						87,274	86,975	86,975	86,975	86,975	86,975	88,715	90,489	92,299	94,145	96,028	97,948	99,907
1996					77,664	79,968	79,695	79,695	79,695	79,695	79,695	81,289	82,915	84,573	86,264	87,990	89,749	91,544
1997				63,869	63,062	64,933	64,711	64,711	64,711	64,711	64,711	66,005	67,325	68,671	70,045	71,446	72,875	74,332
1998			77,696	80,980	79,957	82,329	82,047	82,047	82,047	82,047	82,047	83,688	85,362	87,069	88,810	90,587	92,398	94,246
1999		95,825	97,865	102,001	100,712	103,700	103,345	103,345	103,345	103,345	103,345	105,412	107,521	109,671	111,864	114,102	116,384	118,711
2000	63,097	64,128	65,494	68,262	67,399	69,399	69,161	69,161	69,161	69,161	69,161	70,545	71,956	73,395	74,863	76,360	77,887	79,445
2001	91,467	92,962	94,942	98,955	97,704	100,602	100,259	100,259	100,259	100,259	100,259	102,264	104,309	106,395	108,523	110,694	112,908	115,166
2002	74,124	75,336	76,941	80,192	79,179	81,528	81,249	81,249	81,249	81,249	81,249	82,874	84,531	86,222	87,947	89,705	91,500	93,330
2003	106,248	107,986	110,285	114,946	113,494	116,860	116,461	116,461	116,461	116,461	116,461	118,790	121,166	123,589	126,061	128,582	131,154	133,777
2004	71,037	72,198	73,736	76,852	75,881	78,132	77,865	77,865	77,865	77,865	77,865	79,422	81,010	82,631	84,283	85,969	87,688	89,442
2005	70,816	71,974	73,507	76,613	75,645	77,889	77,623	77,623	77,623	77,623	77,623	79,175	80,759	82,374	84,021	85,702	87,416	89,164
2006	82,712	84,064	85,854	89,483	88,352	90,973	90,662	90,662	90,662	90,662	90,662	92,475	94,325	96,211	98,135	100,098	102,100	104,142
2007	114,321	116,190	118,665	123,679	122,116	125,739	125,309	125,309	125,309	125,309	125,309	127,815	130,372	132,979	135,639	138,351	141,118	143,941
2008	82,433	83,781	85,566	89,182	88,055	90,667	90,357	90,357	90,357	90,357	90,357	92,164	94,007	95,887	97,805	99,761	101,757	103,792
2009	88,924	90,378	92,303	96,204	94,988	97,806	97,472	97,472	97,472	97,472	97,472	99,421	101,409	103,438	105,506	107,616	109,769	111,964
2010	74,687	75,909	77,525	80,802	79,780	82,147	81,866	81,866	81,866	81,866	81,866	83,504	85,174	86,877	88,615	90,387	92,195	94,039
2011	74,953	76,178	77,801	81,089	80,064	82,439	82,157	82,157	82,157	82,157	82,157	83,800	85,476	87,186	88,930	90,708	92,522	94,373
2012	75,270	76,501	78,130	81,432	80,403	82,788	82,505	82,505	82,505	82,505	82,505	84,155	85,838	87,555	89,306	91,092	92,914	94,772
2013	91,854	93,356	95,344	99,374	98,118	101,029	100,683	100,683	100,683	100,683	100,683	102,697	104,751	106,846	108,983	111,162	113,386	115,653
2014	92,518	94,031	96,033	100,092	98,827	101,759	101,411	101,411	101,411	101,411	101,411	103,439	105,508	107,618	109,770	111,966	114,205	116,489
2015	92,685	94,201	96,207	100,273	99,006	101,943	101,594	101,594	101,594	101,594	101,594	103,626	105,699	107,813	109,969	112,168	114,412	116,700
2016	94,545	96,091	98,137	102,285	100,992	103,988	103,633	103,633	103,633	103,633	103,633	105,705	107,819	109,976	112,175	114,419	116,707	119,041
2017	94,757	96,306	98,357	102,514	101,218	104,221	103,865	103,865	103,865	103,865	103,865	105,942	108,061	110,222	112,427	114,675	116,969	119,308
2018	94,930	96,483	98,537	102,702	101,404	104,412	104,055	104,055	104,055	104,055	104,055	106,136	108,259	110,424	112,632	114,885	117,183	119,526

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.

(b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).



**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

**Average Incremental Payment Per Open Accepted Claim by Maturity (b)**

2018 Level	123,024	125,485	127,994	130,554	133,165	135,829	138,545	141,316	144,142	147,025	149,966	152,965	156,024	159,145	162,328	165,574	168,886	172,264
Year of Birth	Maturity (months) 438:450	Maturity (months) 450:462	Maturity (months) 462:474	Maturity (months) 474:486	Maturity (months) 486:498	Maturity (months) 498:510	Maturity (months) 510:522	Maturity (months) 522:534	Maturity (months) 534:546	Maturity (months) 546:558	Maturity (months) 558:570	Maturity (months) 570:582	Maturity (months) 582:594	Maturity (months) 594:606	Maturity (months) 606:618	Maturity (months) 618:630	Maturity (months) 630:642	Maturity (months) 642:654
1989	77,253	78,798	80,374	81,982	83,621	85,294	87,000	88,740	90,515	92,325	94,171	96,055	97,976	99,935	101,934	103,973	106,052	108,173
1990	69,225	70,609	72,021	73,462	74,931	76,430	77,958	79,517	81,108	82,730	84,385	86,072	87,794	89,550	91,341	93,167	95,031	96,931
1991	102,353	104,400	106,488	108,618	110,790	113,006	115,266	117,571	119,923	122,321	124,768	127,263	129,808	132,404	135,052	137,754	140,509	143,319
1992	78,793	80,369	81,976	83,616	85,288	86,994	88,734	90,509	92,319	94,165	96,048	97,969	99,929	101,927	103,966	106,045	108,166	110,330
1993	83,535	85,206	86,910	88,648	90,421	92,230	94,074	95,956	97,875	99,832	101,829	103,866	105,943	108,062	110,223	112,428	114,676	116,970
1994	66,214	67,539	68,889	70,267	71,673	73,106	74,568	76,059	77,581	79,132	80,715	82,329	83,976	85,655	87,368	89,116	90,898	92,716
1995	101,906	103,944	106,023	108,143	110,306	112,512	114,762	117,057	119,399	121,787	124,222	126,707	129,241	131,826	134,462	137,151	139,894	142,692
1996	93,375	95,243	97,148	99,091	101,072	103,094	105,156	107,259	109,404	111,592	113,824	116,101	118,423	120,791	123,207	125,671	128,184	130,748
1997	75,819	77,335	78,882	80,459	82,069	83,710	85,384	87,092	88,834	90,610	92,423	94,271	96,157	98,080	100,041	102,042	104,083	106,165
1998	96,131	98,054	100,015	102,015	104,056	106,137	108,259	110,425	112,633	114,886	117,184	119,527	121,918	124,356	126,843	129,380	131,968	134,607
1999	121,086	123,507	125,977	128,497	131,067	133,688	136,362	139,089	141,871	144,708	147,603	150,555	153,566	156,637	159,770	162,965	166,225	169,549
2000	81,034	82,654	84,307	85,994	87,714	89,468	91,257	93,082	94,944	96,843	98,780	100,755	102,770	104,826	106,922	109,061	111,242	113,467
2001	117,469	119,818	122,215	124,659	127,152	129,695	132,289	134,935	137,634	140,386	143,194	146,058	148,979	151,959	154,998	158,098	161,260	164,485
2002	95,196	97,100	99,042	101,023	103,043	105,104	107,206	109,350	111,537	113,768	116,044	118,364	120,732	123,146	125,609	128,121	130,684	133,298
2003	136,453	139,182	141,965	144,805	147,701	150,655	153,668	156,741	159,876	163,073	166,335	169,662	173,055	176,516	180,046	183,647	187,320	191,066
2004	91,231	93,055	94,917	96,815	98,751	100,726	102,741	104,796	106,891	109,029	111,210	113,434	115,703	118,017	120,377	122,785	125,240	127,745
2005	90,947	92,766	94,622	96,514	98,444	100,413	102,421	104,470	106,559	108,690	110,864	113,081	115,343	117,650	120,003	122,403	124,851	127,348
2006	106,225	108,349	110,516	112,727	114,981	117,281	119,626	122,019	124,459	126,948	129,487	132,077	134,719	137,413	140,161	142,965	145,824	148,740
2007	146,820	149,756	152,751	155,806	158,922	162,101	165,343	168,650	172,023	175,463	178,972	182,552	186,203	189,927	193,725	197,600	201,552	205,583
2008	105,868	107,985	110,145	112,347	114,594	116,886	119,224	121,609	124,041	126,521	129,052	131,633	134,266	136,951	139,690	142,484	145,333	148,240
2009	114,203	116,488	118,817	121,194	123,617	126,090	128,612	131,184	133,808	136,484	139,213	141,998	144,838	147,734	150,689	153,703	156,777	159,912
2010	95,919	97,838	99,795	101,790	103,826	105,903	108,021	110,181	112,385	114,633	116,925	119,264	121,649	124,082	126,564	129,095	131,677	134,310
2011	96,260	98,186	100,149	102,152	104,195	106,279	108,405	110,573	112,784	115,040	117,341	119,688	122,081	124,523	127,014	129,554	132,145	134,788
2012	96,668	98,601	100,573	102,584	104,636	106,729	108,863	111,041	113,261	115,527	117,837	120,194	122,598	125,050	127,551	130,102	132,704	135,358
2013	117,967	120,326	122,732	125,187	127,691	130,245	132,849	135,506	138,217	140,981	143,801	146,677	149,610	152,602	155,654	158,767	161,943	165,182
2014	118,819	121,195	123,619	126,092	128,613	131,186	133,809	136,486	139,215	142,000	144,840	147,736	150,691	153,705	156,779	159,915	163,113	166,375
2015	119,034	121,414	123,843	126,320	128,846	131,423	134,051	136,732	139,467	142,256	145,102	148,004	150,964	153,983	157,063	160,204	163,408	166,676
2016	121,422	123,851	126,328	128,854	131,431	134,060	136,741	139,476	142,266	145,111	148,013	150,973	153,993	157,073	160,214	163,418	166,687	170,020
2017	121,694	124,128	126,611	129,143	131,726	134,360	137,047	139,788	142,584	145,436	148,344	151,311	154,338	157,424	160,573	163,784	167,060	170,401
2018	121,917	124,355	126,842	129,379	131,967	134,606	137,298	140,044	142,845	145,702	148,616	151,588	154,620	157,713	160,867	164,084	167,366	170,713

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.

(b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

**Average Incremental Payment Per Open Accepted Claim by Maturity (b)**

2018 Level	175,709	179,223	182,808	186,464	190,193	193,997	197,877	201,834	205,871	209,988	214,188	218,472	222,841	227,298	231,844	236,481	241,211	246,035
Year of Birth	Maturity (months) 654:666	Maturity (months) 666:678	Maturity (months) 678:690	Maturity (months) 690:702	Maturity (months) 702:714	Maturity (months) 714:726	Maturity (months) 726:738	Maturity (months) 738:750	Maturity (months) 750:762	Maturity (months) 762:774	Maturity (months) 774:786	Maturity (months) 786:798	Maturity (months) 798:810	Maturity (months) 810:822	Maturity (months) 822:834	Maturity (months) 834:846	Maturity (months) 846:858	Maturity (months) 858:870
1989	110,337	112,543	114,794	117,090	119,432	121,821	124,257	126,742	129,277	131,863	134,500	137,190	139,934	142,732	145,587	148,499	151,469	154,498
1990	98,870	100,847	102,864	104,922	107,020	109,160	111,344	113,571	115,842	118,159	120,522	122,932	125,391	127,899	130,457	133,066	135,727	138,442
1991	146,185	149,109	152,091	155,133	158,235	161,400	164,628	167,921	171,279	174,705	178,199	181,763	185,398	189,106	192,888	196,746	200,681	204,694
1992	112,536	114,787	117,083	119,424	121,813	124,249	126,734	129,269	131,854	134,491	137,181	139,925	142,723	145,577	148,489	151,459	154,488	157,578
1993	119,309	121,695	124,129	126,612	129,144	131,727	134,361	137,049	139,790	142,585	145,437	148,346	151,313	154,339	157,426	160,574	163,786	167,061
1994	94,570	96,462	98,391	100,359	102,366	104,413	106,502	108,632	110,804	113,020	115,281	117,586	119,938	122,337	124,784	127,279	129,825	132,421
1995	145,546	148,457	151,426	154,455	157,544	160,695	163,909	167,187	170,531	173,941	177,420	180,968	184,588	188,280	192,045	195,886	199,804	203,800
1996	133,363	136,030	138,751	141,526	144,356	147,244	150,188	153,192	156,256	159,381	162,569	165,820	169,137	172,519	175,970	179,489	183,079	186,740
1997	108,288	110,454	112,663	114,916	117,214	119,559	121,950	124,389	126,876	129,414	132,002	134,642	137,335	140,082	142,884	145,741	148,656	151,629
1998	137,299	140,045	142,846	145,703	148,617	151,589	154,621	157,714	160,868	164,085	167,367	170,714	174,129	177,611	181,163	184,787	188,482	192,252
1999	172,940	176,399	179,927	183,525	187,196	190,940	194,759	198,654	202,627	206,679	210,813	215,029	219,330	223,716	228,191	232,754	237,410	242,158
2000	115,736	118,051	120,412	122,820	125,276	127,782	130,338	132,944	135,603	138,315	141,082	143,903	146,781	149,717	152,711	155,766	158,881	162,058
2001	167,775	171,130	174,553	178,044	181,605	185,237	188,941	192,720	196,575	200,506	204,516	208,607	212,779	217,034	221,375	225,803	230,319	234,925
2002	135,964	138,683	141,456	144,286	147,171	150,115	153,117	156,179	159,303	162,489	165,739	169,054	172,435	175,883	179,401	182,989	186,649	190,382
2003	194,888	198,786	202,761	206,817	210,953	215,172	219,475	223,865	228,342	232,909	237,567	242,319	247,165	252,108	257,150	262,293	267,539	272,890
2004	130,300	132,906	135,564	138,275	141,041	143,862	146,739	149,674	152,667	155,721	158,835	162,012	165,252	168,557	171,928	175,367	178,874	182,452
2005	129,895	132,493	135,143	137,846	140,603	143,415	146,283	149,209	152,193	155,237	158,341	161,508	164,738	168,033	171,394	174,822	178,318	181,884
2006	151,715	154,749	157,844	161,001	164,221	167,506	170,856	174,273	177,759	181,314	184,940	188,639	192,412	196,260	200,185	204,189	208,272	212,438
2007	209,695	213,889	218,166	222,530	226,980	231,520	236,150	240,873	245,691	250,605	255,617	260,729	265,944	271,262	276,688	282,221	287,866	293,623
2008	151,205	154,229	157,314	160,460	163,669	166,942	170,281	173,687	177,161	180,704	184,318	188,004	191,764	195,600	199,512	203,502	207,572	211,723
2009	163,111	166,373	169,700	173,094	176,556	180,087	183,689	187,363	191,110	194,932	198,831	202,808	206,864	211,001	215,221	219,525	223,916	228,394
2010	136,997	139,737	142,531	145,382	148,290	151,255	154,280	157,366	160,513	163,724	166,998	170,338	173,745	177,220	180,764	184,379	188,067	191,828
2011	137,484	140,233	143,038	145,899	148,817	151,793	154,829	157,925	161,084	164,306	167,592	170,943	174,362	177,850	181,407	185,035	188,735	192,510
2012	138,065	140,826	143,643	146,516	149,446	152,435	155,484	158,593	161,765	165,001	168,301	171,667	175,100	178,602	182,174	185,817	189,534	193,324
2013	168,485	171,855	175,292	178,798	182,374	186,021	189,742	193,537	197,407	201,355	205,383	209,490	213,680	217,954	222,313	226,759	231,294	235,920
2014	169,703	173,097	176,559	180,090	183,692	187,366	191,113	194,935	198,834	202,811	206,867	211,004	215,224	219,529	223,919	228,398	232,966	237,625
2015	170,010	173,410	176,878	180,416	184,024	187,704	191,458	195,288	199,193	203,177	207,241	211,386	215,613	219,926	224,324	228,810	233,387	238,054
2016	173,421	176,889	180,427	184,036	187,716	191,471	195,300	199,206	203,190	207,254	211,399	215,627	219,940	224,338	228,825	233,402	238,070	242,831
2017	173,809	177,285	180,831	184,448	188,137	191,899	195,737	199,652	203,645	207,718	211,872	216,110	220,432	224,841	229,337	233,924	238,603	243,375
2018	174,128	177,610	181,162	184,786	188,481	192,251	196,096	200,018	204,018	208,099	212,260	216,506	220,836	225,253	229,758	234,353	239,040	243,821

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.  
 (b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

Average Incremental Payment Per Open Accepted Claim by Maturity (b)

2018 Leve	250,956	255,975	261,094	266,316	271,642	277,075	282,617	288,269	294,034	299,915	305,913	312,032	318,272	324,638	331,131	337,753	344,508	351,398
Year of Birth	Maturity (months) 870:882	Maturity (months) 882:894	Maturity (months) 894:906	Maturity (months) 906:918	Maturity (months) 918:930	Maturity (months) 930:942	Maturity (months) 942:954	Maturity (months) 954:966	Maturity (months) 966:978	Maturity (months) 978:990	Maturity (months) 990:1002	Maturity (months) 1002:1014	Maturity (months) 1014:1026	Maturity (months) 1026:1038	Maturity (months) 1038:1050	Maturity (months) 1050:1062	Maturity (months) 1062:1074	Maturity (months) 1074:1086
1989	157,588	160,740	163,955	167,234	170,578	173,990	177,470	181,019	184,640	188,332	192,099	195,941	199,860	203,857	207,934	212,093	216,335	220,661
1990	141,211	144,035	146,916	149,854	152,851	155,908	159,026	162,207	165,451	168,760	172,135	175,578	179,089	182,671	186,324	190,051	193,852	197,729
1991	208,788	212,964	217,223	221,568	225,999	230,519	235,130	239,832	244,629	249,521	254,512	259,602	264,794	270,090	275,492	281,002	286,622	292,354
1992	160,729	163,944	167,223	170,567	173,979	177,458	181,007	184,627	188,320	192,086	195,928	199,847	203,844	207,920	212,079	216,320	220,647	225,060
1993	170,403	173,811	177,287	180,833	184,449	188,138	191,901	195,739	199,654	203,647	207,720	211,874	216,112	220,434	224,843	229,340	233,926	238,605
1994	135,070	137,771	140,527	143,337	146,204	149,128	152,110	155,153	158,256	161,421	164,649	167,942	171,301	174,727	178,222	181,786	185,422	189,130
1995	207,876	212,033	216,274	220,600	225,012	229,512	234,102	238,784	243,560	248,431	253,400	258,467	263,637	268,910	274,288	279,774	285,369	291,076
1996	190,475	194,285	198,170	202,134	206,176	210,300	214,506	218,796	223,172	227,636	232,188	236,832	241,569	246,400	251,328	256,355	261,482	266,711
1997	154,662	157,755	160,910	164,128	167,411	170,759	174,174	177,658	181,211	184,835	188,532	192,302	196,148	200,071	204,073	208,154	212,317	216,564
1998	196,097	200,019	204,019	208,100	212,262	216,507	220,837	225,254	229,759	234,354	239,041	243,822	248,698	253,672	258,746	263,921	269,199	274,583
1999	247,001	251,941	256,980	262,119	267,362	272,709	278,163	283,726	289,401	295,189	301,093	307,115	313,257	319,522	325,912	332,431	339,079	345,861
2000	165,300	168,606	171,978	175,417	178,926	182,504	186,154	189,877	193,675	197,548	201,499	205,529	209,640	213,833	218,109	222,472	226,921	231,459
2001	239,623	244,416	249,304	254,290	259,376	264,564	269,855	275,252	280,757	286,372	292,100	297,942	303,901	309,979	316,178	322,502	328,952	335,531
2002	194,189	198,073	202,035	206,075	210,197	214,401	218,689	223,063	227,524	232,074	236,716	241,450	246,279	251,205	256,229	261,353	266,580	271,912
2003	278,348	283,915	289,593	295,385	301,293	307,318	313,465	319,734	326,129	332,651	339,304	346,091	353,012	360,073	367,274	374,619	382,112	389,754
2004	186,101	189,823	193,619	197,491	201,441	205,470	209,579	213,771	218,047	222,407	226,856	231,393	236,021	240,741	245,556	250,467	255,476	260,586
2005	185,522	189,233	193,017	196,878	200,815	204,831	208,928	213,107	217,369	221,716	226,150	230,673	235,287	239,993	244,793	249,688	254,682	259,776
2006	216,687	221,020	225,441	229,950	234,549	239,240	244,024	248,905	253,883	258,961	264,140	269,423	274,811	280,307	285,913	291,632	297,464	303,414
2007	299,496	305,486	311,595	317,827	324,184	330,667	337,281	344,026	350,907	357,925	365,083	372,385	379,833	387,430	395,178	403,082	411,143	419,366
2008	215,958	220,277	224,683	229,176	233,760	238,435	243,204	248,068	253,029	258,090	263,251	268,516	273,887	279,364	284,952	290,651	296,464	302,393
2009	232,962	237,621	242,374	247,221	252,166	257,209	262,353	267,600	272,952	278,411	283,980	289,659	295,452	301,361	307,389	313,536	319,807	326,203
2010	195,665	199,578	203,570	207,641	211,794	216,030	220,350	224,757	229,253	233,838	238,514	243,285	248,150	253,113	258,176	263,339	268,606	273,978
2011	196,360	200,288	204,293	208,379	212,547	216,798	221,134	225,556	230,067	234,669	239,362	244,149	249,032	254,013	259,093	264,275	269,561	274,952
2012	197,191	201,135	205,157	209,261	213,446	217,715	222,069	226,510	231,041	235,661	240,375	245,182	250,086	255,088	260,189	265,393	270,701	276,115
2013	240,638	245,451	250,360	255,367	260,475	265,684	270,998	276,418	281,946	287,585	293,337	299,204	305,188	311,291	317,517	323,868	330,345	336,952
2014	242,377	247,225	252,169	257,213	262,357	267,604	272,956	278,415	283,984	289,663	295,457	301,366	307,393	313,541	319,812	326,208	332,732	339,387
2015	242,816	247,672	252,625	257,678	262,831	268,088	273,450	278,919	284,497	290,187	295,991	301,911	307,949	314,108	320,390	326,798	333,334	340,000
2016	247,688	252,641	257,694	262,848	268,105	273,467	278,937	284,515	290,206	296,010	301,930	307,969	314,128	320,410	326,819	333,355	340,022	346,823
2017	248,242	253,207	258,271	263,437	268,705	274,080	279,561	285,152	290,855	296,672	302,606	308,658	314,831	321,128	327,550	334,101	340,783	347,599
2018	248,697	253,671	258,744	263,919	269,198	274,582	280,073	285,675	291,388	297,216	303,160	309,223	315,408	321,716	328,150	334,713	341,408	348,236

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.  
 (b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

Average Incremental Payment Per Open Accepted Claim by Maturity (b)

2018 Leve	358,426	365,595	372,907	380,365	387,972	395,732	403,646	411,719	419,954	428,353	436,920	445,658	454,571	463,663	472,936	482,395	492,043	501,883
Year of Birth	Maturity (months) 1086:1098	Maturity (months) 1098:1110	Maturity (months) 1110:1122	Maturity (months) 1122:1134	Maturity (months) 1134:1146	Maturity (months) 1146:1158	Maturity (months) 1158:1170	Maturity (months) 1170:1182	Maturity (months) 1182:1194	Maturity (months) 1194:1206	Maturity (months) 1206:1218	Maturity (months) 1218:1230	Maturity (months) 1230:1242	Maturity (months) 1242:1254	Maturity (months) 1254:1266	Maturity (months) 1266:1278	Maturity (months) 1278:1290	Maturity (months) 1290:1302
1989	225,075	229,576	234,168	238,851	243,628	248,501	253,471	258,540	263,711	268,985	274,365	279,852	285,449	291,158	296,981	302,921	308,979	315,159
1990	201,684	205,717	209,832	214,028	218,309	222,675	227,128	231,671	236,304	241,031	245,851	250,768	255,784	260,899	266,117	271,440	276,868	282,406
1991	298,201	304,165	310,249	316,453	322,783	329,238	335,823	342,539	349,390	356,378	363,506	370,776	378,191	385,755	393,470	401,340	409,366	417,554
1992	229,561	234,152	238,835	243,612	248,484	253,454	258,523	263,693	268,967	274,347	279,834	285,430	291,139	296,962	302,901	308,959	315,138	321,441
1993	243,377	248,244	253,209	258,274	263,439	268,708	274,082	279,564	285,155	290,858	296,675	302,609	308,661	314,834	321,131	327,553	334,104	340,786
1994	192,913	196,771	200,707	204,721	208,815	212,991	217,251	221,596	226,028	230,549	235,160	239,863	244,660	249,553	254,544	259,635	264,828	270,125
1995	296,898	302,836	308,893	315,070	321,372	327,799	334,355	341,042	347,863	354,820	361,917	369,155	376,538	384,069	391,750	399,585	407,577	415,729
1996	272,045	277,486	283,036	288,697	294,471	300,360	306,367	312,495	318,745	325,120	331,622	338,254	345,019	351,920	358,958	366,137	373,460	380,929
1997	220,895	225,313	229,819	234,416	239,104	243,886	248,764	253,739	258,814	263,990	269,270	274,655	280,148	285,751	291,466	297,296	303,242	309,306
1998	280,075	285,676	291,390	297,218	303,162	309,225	315,410	321,718	328,152	334,715	341,410	348,238	355,203	362,307	369,553	376,944	384,483	392,172
1999	352,778	359,834	367,030	374,371	381,858	389,496	397,285	405,231	413,336	421,602	430,035	438,635	447,408	456,356	465,483	474,793	484,289	493,975
2000	236,089	240,810	245,627	250,539	255,550	260,661	265,874	271,192	276,615	282,148	287,791	293,547	299,417	305,406	311,514	317,744	324,099	330,581
2001	342,241	349,086	356,068	363,189	370,453	377,862	385,419	393,128	400,990	409,010	417,190	425,534	434,045	442,726	451,580	460,612	469,824	479,221
2002	277,350	282,897	288,555	294,326	300,213	306,217	312,341	318,588	324,960	331,459	338,088	344,850	351,747	358,782	365,958	373,277	380,742	388,357
2003	397,549	405,500	413,610	421,882	430,320	438,926	447,705	456,659	465,792	475,108	484,610	494,302	504,189	514,272	524,558	535,049	545,750	556,665
2004	265,797	271,113	276,536	282,066	287,708	293,462	299,331	305,318	311,424	317,653	324,006	330,486	337,095	343,837	350,714	357,728	364,883	372,181
2005	264,971	270,271	275,676	281,190	286,813	292,550	298,401	304,369	310,456	316,665	322,999	329,459	336,048	342,769	349,624	356,617	363,749	371,024
2006	309,482	315,672	321,985	328,425	334,993	341,693	348,527	355,497	362,607	369,859	377,257	384,802	392,498	400,348	408,355	416,522	424,852	433,349
2007	427,753	436,309	445,035	453,935	463,014	472,274	481,720	491,354	501,181	511,205	521,429	531,858	542,495	553,345	564,412	575,700	587,214	598,958
2008	308,441	314,610	320,902	327,320	333,866	340,544	347,355	354,302	361,388	368,615	375,988	383,508	391,178	399,001	406,981	415,121	423,423	431,892
2009	332,727	339,382	346,170	353,093	360,155	367,358	374,705	382,199	389,843	397,640	405,593	413,705	421,979	430,418	439,027	447,807	456,763	465,899
2010	279,458	285,047	290,748	296,563	302,494	308,544	314,715	321,009	327,429	333,978	340,657	347,470	354,420	361,508	368,738	376,113	383,635	391,308
2011	280,451	286,060	291,781	297,617	303,569	309,640	315,833	322,150	328,593	335,165	341,868	348,705	355,680	362,793	370,049	377,450	384,999	392,699
2012	281,637	287,270	293,015	298,876	304,853	310,950	317,169	323,513	329,983	336,583	343,314	350,180	357,184	364,328	371,614	379,047	386,628	394,360
2013	343,691	350,565	357,576	364,728	372,022	379,463	387,052	394,793	402,689	410,742	418,957	427,336	435,883	444,601	453,493	462,563	471,814	481,250
2014	346,175	353,098	360,160	367,363	374,710	382,205	389,849	397,646	405,599	413,711	421,985	430,424	439,033	447,814	456,770	465,905	475,223	484,728
2015	346,800	353,736	360,811	368,027	375,388	382,896	390,554	398,365	406,332	414,459	422,748	431,203	439,827	448,623	457,596	466,748	476,083	485,604
2016	353,759	360,834	368,051	375,412	382,920	390,579	398,390	406,358	414,485	422,775	431,230	439,855	448,652	457,625	466,778	476,113	485,635	495,348
2017	354,551	361,642	368,875	376,252	383,777	391,453	399,282	407,268	415,413	423,721	432,196	440,840	449,656	458,650	467,823	477,179	486,723	496,457
2018	355,201	362,305	369,551	376,942	384,480	392,170	400,013	408,014	416,174	424,498	432,987	441,647	450,480	459,490	468,680	478,053	487,614	497,366

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.  
 (b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

**Development of Incremental Payment Per Open Accepted Claim - Birth Year Cost Level (a)**

Assumed Annual Increase Utilization Rate

Average Incremental Payment Per Open Accepted Claim by Maturity (b)

2018 Leve	511,921	522,160	532,603	543,255	554,120	565,202	576,506	588,036	599,797	611,793	624,029	636,510	649,240	662,225
Year of Birth	Maturity (months) 1302:1314	Maturity (months) 1314:1326	Maturity (months) 1326:1338	Maturity (months) 1338:1350	Maturity (months) 1350:1362	Maturity (months) 1362:1374	Maturity (months) 1374:1386	Maturity (months) 1386:1398	Maturity (months) 1398:1410	Maturity (months) 1410:1422	Maturity (months) 1422:1434	Maturity (months) 1434:1446	Maturity (months) 1446:1458	Maturity (months) 1458:1470
1989	321,462	327,891	334,449	341,138	347,961	354,920	362,018	369,259	376,644	384,177	391,860	399,697	407,691	415,845
1990	288,054	293,815	299,691	305,685	311,799	318,035	324,395	330,883	337,501	344,251	351,136	358,159	365,322	372,628
1991	425,905	434,423	443,111	451,974	461,013	470,233	479,638	489,231	499,015	508,996	519,175	529,559	540,150	550,953
1992	327,870	334,427	341,116	347,938	354,897	361,995	369,234	376,619	384,152	391,835	399,671	407,665	415,818	424,134
1993	347,602	354,554	361,645	368,878	376,256	383,781	391,456	399,286	407,271	415,417	423,725	432,200	440,844	449,660
1994	275,527	281,038	286,658	292,392	298,239	304,204	310,288	316,494	322,824	329,280	335,866	342,583	349,435	356,424
1995	424,043	432,524	441,175	449,998	458,998	468,178	477,542	487,092	496,834	506,771	516,906	527,245	537,789	548,545
1996	388,548	396,319	404,245	412,330	420,577	428,988	437,568	446,319	455,246	464,351	473,638	483,111	492,773	502,628
1997	315,492	321,802	328,238	334,803	341,499	348,329	355,296	362,402	369,650	377,043	384,584	392,275	400,121	408,123
1998	400,016	408,016	416,177	424,500	432,990	441,650	450,483	459,493	468,682	478,056	487,617	497,369	507,317	517,463
1999	503,854	513,931	524,210	534,694	545,388	556,296	567,421	578,770	590,345	602,152	614,195	626,479	639,009	651,789
2000	337,193	343,937	350,815	357,832	364,988	372,288	379,734	387,328	395,075	402,976	411,036	419,257	427,642	436,195
2001	488,805	498,581	508,553	518,724	529,098	539,680	550,474	561,483	572,713	584,167	595,850	607,767	619,923	632,321
2002	396,124	404,047	412,128	420,370	428,778	437,353	446,100	455,022	464,123	473,405	482,873	492,531	502,382	512,429
2003	567,798	579,154	590,737	602,552	614,603	626,895	639,433	652,222	665,266	678,571	692,143	705,986	720,105	734,507
2004	379,624	387,217	394,961	402,860	410,917	419,136	427,519	436,069	444,790	453,686	462,760	472,015	481,455	491,084
2005	378,444	386,013	393,733	401,608	409,640	417,833	426,190	434,714	443,408	452,276	461,321	470,548	479,959	489,558
2006	442,016	450,857	459,874	469,071	478,453	488,022	497,782	507,738	517,893	528,250	538,815	549,592	560,584	571,795
2007	610,937	623,156	635,619	648,332	661,298	674,524	688,015	701,775	715,810	730,127	744,729	759,624	774,816	790,313
2008	440,530	449,340	458,327	467,494	476,843	486,380	496,108	506,030	516,151	526,474	537,003	547,743	558,698	569,872
2009	475,217	484,721	494,415	504,304	514,390	524,677	535,171	545,874	556,792	567,928	579,286	590,872	602,689	614,743
2010	399,134	407,117	415,259	423,565	432,036	440,677	449,490	458,480	467,649	477,002	486,542	496,273	506,199	516,323
2011	400,553	408,564	416,735	425,070	433,571	442,243	451,088	460,109	469,312	478,698	488,272	498,037	507,998	518,158
2012	402,247	410,292	418,498	426,868	435,405	444,114	452,996	462,056	471,297	480,723	490,337	500,144	510,147	520,350
2013	490,875	500,693	510,707	520,921	531,339	541,966	552,805	563,861	575,139	586,641	598,374	610,342	622,549	635,000
2014	494,422	504,311	514,397	524,685	535,179	545,882	556,800	567,936	579,295	590,881	602,698	614,752	627,047	639,588
2015	495,316	505,223	515,327	525,634	536,146	546,869	557,807	568,963	580,342	591,949	603,788	615,864	628,181	640,744
2016	505,255	515,360	525,667	536,181	546,904	557,842	568,999	580,379	591,987	603,827	615,903	628,221	640,786	653,601
2017	506,386	516,514	526,844	537,381	548,129	559,091	570,273	581,679	593,312	605,178	617,282	629,628	642,220	655,065
2018	507,314	517,460	527,809	538,365	549,133	560,115	571,318	582,744	594,399	606,287	618,413	630,781	643,397	656,265

Notes: (a) Average incremental payment 2018 level per open accepted claim are adjusted to severity level and birth year level. See Column (5) of Appendix E, Exhibit II, Sheet 2, and Column (5) of Appendix E, Exhibit II, Sheet 3, respectively.  
 (b) See Appendix E, Exhibit II, Sheet 1, Columns (3) and (7).

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222
1989																		
1990																		
1991																		
1992																		
1993																		
1994																		
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		4.00
2002																	13.00	12.83
2003																3.00	2.94	2.88
2004															5.00	4.95	4.91	4.86
2005													9.00	7.00	6.90	6.81	6.71	6.61
2006													9.00	8.90	8.81	8.71	8.61	8.51
2007												7.00	6.86	6.72	6.58	6.44	6.30	6.16
2008											9.00	8.93	8.85	8.78	8.70	8.63	8.55	8.47
2009									10.00	9.90	9.81	9.71	9.61	9.51	9.41	9.31	9.21	9.21
2010								5.00	4.98	4.95	4.93	4.91	4.89	4.86	4.84	4.81	4.79	4.79
2011								10.00	9.90	9.80	9.71	9.61	9.51	9.41	9.31	9.21	9.10	9.00
2012							7.00	6.94	6.89	6.83	6.77	6.71	6.66	6.60	6.54	6.48	6.42	6.36
2013						<b>8.91</b>	8.77	8.63	8.49	8.35	8.22	8.08	7.94	7.80	7.66	7.53	7.39	7.25
2014					<b>12.89</b>	<b>13.63</b>	13.39	13.16	12.93	12.70	12.47	12.24	12.01	11.78	11.55	11.33	11.10	10.87
2015				<b>11.46</b>	<b>12.72</b>	<b>13.49</b>	13.31	13.13	12.94	12.76	12.58	12.39	12.21	12.03	11.84	11.66	11.47	11.28
2016			<b>5.38</b>	<b>8.74</b>	<b>9.68</b>	<b>10.23</b>	10.07	9.90	9.73	9.56	9.40	9.23	9.07	8.90	8.74	8.57	8.40	8.24
2017		<b>3.18</b>	<b>6.15</b>	<b>10.05</b>	<b>11.16</b>	<b>11.84</b>	11.68	11.52	11.36	11.20	11.04	10.88	10.72	10.56	10.40	10.24	10.07	9.91
2018	<b>0.43</b>	<b>1.41</b>	<b>2.76</b>	<b>4.54</b>	<b>5.06</b>	<b>5.39</b>	5.34	5.28	5.23	5.18	5.12	5.07	5.01	4.96	4.90	4.85	4.79	4.74

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 222:234	Maturity (months) 234:246	Maturity (months) 246:258	Maturity (months) 258:270	Maturity (months) 270:282	Maturity (months) 282:294	Maturity (months) 294:306	Maturity (months) 306:318	Maturity (months) 318:330	Maturity (months) 330:342	Maturity (months) 342:354	Maturity (months) 354:366	Maturity (months) 366:378	Maturity (months) 378:390	Maturity (months) 390:402	Maturity (months) 402:414	Maturity (months) 414:426	Maturity (months) 426:438
1989												4.00	3.92	3.85	3.77	3.70	3.62	3.54
1990											3.00	2.91	2.81	2.72	2.63	2.54	2.45	2.37
1991									4.00	3.96	3.91	3.87	3.82	3.78	3.73	3.68	3.64	
1992								8.00	7.89	7.78	7.67	7.55	7.44	7.33	7.21	7.10	6.98	6.86
1993							4.00	3.96	3.93	3.89	3.85	3.82	3.78	3.74	3.70	3.66	3.62	3.58
1994						5.00	4.95	4.90	4.85	4.80	4.75	4.69	4.64	4.59	4.53	4.48	4.42	4.37
1995					6.00	5.88	5.75	5.63	5.51	5.39	5.27	5.15	5.03	4.91	4.79	4.67	4.55	4.43
1996				8.00	7.92	7.85	7.77	7.70	7.62	7.54	7.46	7.38	7.30	7.22	7.14	7.05	6.97	6.88
1997			11.00	10.88	10.75	10.62	10.50	10.37	10.24	10.11	9.98	9.85	9.72	9.59	9.45	9.32	9.18	9.05
1998		3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.65	2.60	2.55	2.50	2.45	2.40	2.35	2.30	2.25	2.20
1999	5.00	4.89	4.78	4.67	4.56	4.45	4.34	4.24	4.13	4.02	3.92	3.82	3.71	3.61	3.51	3.40	3.30	3.20
2000	3.96	3.91	3.86	3.82	3.77	3.73	3.68	3.63	3.59	3.54	3.49	3.44	3.40	3.35	3.30	3.25	3.20	3.15
2001	12.65	12.48	12.30	12.13	11.95	11.77	11.59	11.41	11.23	11.05	10.87	10.69	10.51	10.33	10.14	9.96	9.77	9.59
2002	2.82	2.76	2.70	2.64	2.58	2.52	2.46	2.40	2.34	2.28	2.22	2.17	2.11	2.05	1.99	1.94	1.88	1.83
2003	4.81	4.76	4.71	4.66	4.61	4.56	4.51	4.46	4.40	4.35	4.30	4.25	4.19	4.14	4.08	4.03	3.97	3.92
2004	6.51	6.41	6.31	6.21	6.11	6.00	5.90	5.80	5.70	5.60	5.50	5.39	5.29	5.19	5.09	4.98	4.88	4.78
2005	8.41	8.31	8.21	8.11	8.00	7.90	7.79	7.69	7.59	7.48	7.37	7.27	7.16	7.05	6.94	6.83	6.72	6.61
2006	6.02	5.88	5.74	5.61	5.47	5.33	5.20	5.07	4.93	4.80	4.67	4.54	4.41	4.28	4.16	4.03	3.91	3.78
2007	8.39	8.31	8.23	8.15	8.07	7.99	7.90	7.82	7.74	7.65	7.56	7.48	7.39	7.30	7.21	7.12	7.03	6.94
2008	9.10	9.00	8.89	8.79	8.68	8.57	8.47	8.36	8.25	8.14	8.03	7.92	7.81	7.69	7.58	7.47	7.35	7.23
2009	4.76	4.74	4.71	4.68	4.66	4.63	4.60	4.58	4.55	4.52	4.49	4.46	4.43	4.40	4.37	4.34	4.31	4.28
2010	8.89	8.79	8.68	8.57	8.47	8.36	8.25	8.14	8.03	7.92	7.81	7.69	7.58	7.47	7.35	7.24	7.12	7.01
2011	6.29	6.23	6.17	6.10	6.04	5.97	5.91	5.84	5.78	5.71	5.64	5.57	5.51	5.44	5.37	5.30	5.23	5.15
2012	7.11	6.97	6.83	6.69	6.55	6.41	6.27	6.13	6.00	5.86	5.72	5.59	5.45	5.32	5.18	5.05	4.92	4.78
2013	10.64	10.41	10.18	9.95	9.73	9.50	9.28	9.05	8.83	8.61	8.39	8.18	7.96	7.74	7.53	7.32	7.11	6.90
2014	11.09	10.90	10.71	10.52	10.33	10.14	9.95	9.76	9.57	9.39	9.20	9.01	8.82	8.63	8.44	8.25	8.06	7.87
2015	8.07	7.90	7.74	7.57	7.41	7.24	7.08	6.92	6.75	6.59	6.43	6.27	6.11	5.95	5.80	5.64	5.48	5.33
2016	9.74	9.58	9.41	9.25	9.08	8.92	8.75	8.59	8.42	8.26	8.09	7.93	7.76	7.60	7.43	7.26	7.10	6.93
2017	4.68	4.62	4.56	4.50	4.44	4.39	4.33	4.27	4.21	4.15	4.09	4.03	3.96	3.90	3.84	3.78	3.72	3.65
2018																		

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 438:450	Maturity (months) 450:462	Maturity (months) 462:474	Maturity (months) 474:486	Maturity (months) 486:498	Maturity (months) 498:510	Maturity (months) 510:522	Maturity (months) 522:534	Maturity (months) 534:546	Maturity (months) 546:558	Maturity (months) 558:570	Maturity (months) 570:582	Maturity (months) 582:594	Maturity (months) 594:606	Maturity (months) 606:618	Maturity (months) 618:630	Maturity (months) 630:642	Maturity (months) 642:654
1989	3.47	3.39	3.31	3.23	3.16	3.08	3.00	2.92	2.85	2.77	2.69	2.61	2.53	2.45	2.37	2.29	2.21	2.13
1990	2.28	2.19	2.11	2.03	1.95	1.86	1.79	1.71	1.63	1.56	1.48	1.41	1.34	1.27	1.20	1.13	1.06	1.00
1991	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.08	3.03	2.97	2.92	2.86	2.80	2.74	2.68
1992	7.96	7.85	7.73	7.62	7.51	7.39	7.28	7.16	7.04	6.92	6.80	6.67	6.55	6.42	6.29	6.16	6.02	5.89
1993	6.75	6.63	6.51	6.39	6.27	6.15	6.02	5.90	5.78	5.65	5.52	5.40	5.27	5.14	5.01	4.87	4.74	4.60
1994	3.54	3.50	3.46	3.41	3.37	3.33	3.28	3.24	3.19	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75
1995	4.31	4.25	4.20	4.14	4.08	4.02	3.96	3.90	3.84	3.77	3.71	3.65	3.58	3.51	3.45	3.38	3.31	3.23
1996	4.31	4.19	4.08	3.96	3.84	3.73	3.61	3.49	3.38	3.26	3.15	3.04	2.92	2.81	2.70	2.58	2.47	2.36
1997	6.80	6.71	6.62	6.53	6.44	6.35	6.26	6.16	6.07	5.97	5.87	5.78	5.67	5.57	5.47	5.36	5.25	5.14
1998	8.91	8.77	8.63	8.48	8.34	8.20	8.05	7.90	7.75	7.60	7.45	7.30	7.14	6.98	6.82	6.66	6.50	6.33
1999	2.15	2.10	2.05	1.99	1.94	1.89	1.84	1.79	1.74	1.69	1.64	1.59	1.54	1.49	1.44	1.38	1.33	1.28
2000	3.10	3.00	2.91	2.81	2.71	2.62	2.52	2.43	2.33	2.24	2.15	2.06	1.97	1.88	1.79	1.71	1.62	1.54
2001	3.10	3.05	3.00	2.95	2.89	2.84	2.79	2.73	2.68	2.63	2.57	2.52	2.46	2.40	2.34	2.29	2.23	2.17
2002	9.40	9.21	9.03	8.84	8.65	8.46	8.26	8.07	7.88	7.68	7.49	7.29	7.09	6.89	6.69	6.49	6.28	6.08
2003	1.77	1.72	1.66	1.61	1.55	1.50	1.45	1.39	1.34	1.29	1.24	1.19	1.14	1.09	1.04	0.99	0.94	0.89
2004	3.86	3.80	3.75	3.69	3.63	3.57	3.51	3.45	3.39	3.33	3.26	3.20	3.14	3.07	3.00	2.94	2.87	2.80
2005	4.67	4.57	4.47	4.36	4.26	4.15	4.05	3.94	3.84	3.73	3.63	3.52	3.41	3.31	3.20	3.09	2.98	2.88
2006	6.50	6.39	6.27	6.16	6.04	5.93	5.81	5.69	5.57	5.45	5.33	5.21	5.09	4.96	4.84	4.71	4.58	4.45
2007	3.66	3.54	3.42	3.30	3.18	3.06	2.95	2.83	2.72	2.61	2.50	2.39	2.28	2.17	2.07	1.96	1.86	1.76
2008	6.85	6.75	6.66	6.56	6.46	6.37	6.27	6.17	6.06	5.96	5.86	5.75	5.64	5.53	5.42	5.31	5.20	5.08
2009	7.12	7.00	6.88	6.76	6.64	6.52	6.40	6.27	6.15	6.02	5.90	5.77	5.64	5.51	5.37	5.24	5.10	4.96
2010	4.24	4.21	4.18	4.14	4.11	4.07	4.04	4.00	3.96	3.92	3.88	3.84	3.80	3.76	3.72	3.67	3.63	3.58
2011	6.89	6.77	6.65	6.53	6.41	6.29	6.17	6.04	5.92	5.79	5.66	5.54	5.41	5.28	5.14	5.01	4.87	4.74
2012	5.08	5.01	4.93	4.86	4.78	4.71	4.63	4.55	4.47	4.39	4.31	4.23	4.15	4.06	3.98	3.89	3.80	3.71
2013	4.65	4.52	4.39	4.26	4.13	4.00	3.87	3.74	3.61	3.49	3.36	3.23	3.11	2.98	2.86	2.74	2.62	2.49
2014	6.69	6.48	6.27	6.07	5.87	5.66	5.47	5.27	5.07	4.88	4.68	4.49	4.30	4.11	3.93	3.74	3.56	3.38
2015	7.68	7.49	7.30	7.12	6.93	6.74	6.55	6.36	6.17	5.99	5.80	5.61	5.42	5.23	5.04	4.86	4.67	4.48
2016	5.17	5.02	4.86	4.71	4.56	4.41	4.26	4.11	3.97	3.82	3.68	3.53	3.39	3.25	3.10	2.96	2.82	2.69
2017	6.77	6.60	6.44	6.27	6.11	5.94	5.78	5.61	5.45	5.28	5.12	4.95	4.79	4.62	4.46	4.29	4.13	3.96
2018	3.59	3.53	3.46	3.40	3.33	3.27	3.20	3.13	3.07	3.00	2.93	2.86	2.79	2.72	2.65	2.58	2.51	2.43

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.



Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 654:666	Maturity (months) 666:678	Maturity (months) 678:690	Maturity (months) 690:702	Maturity (months) 702:714	Maturity (months) 714:726	Maturity (months) 726:738	Maturity (months) 738:750	Maturity (months) 750:762	Maturity (months) 762:774	Maturity (months) 774:786	Maturity (months) 786:798	Maturity (months) 798:810	Maturity (months) 810:822	Maturity (months) 822:834	Maturity (months) 834:846	Maturity (months) 846:858	Maturity (months) 858:870
1989	2.05	1.97	1.89	1.81	1.73	1.65	1.57	1.49	1.41	1.33	1.25	1.17	1.09	1.02	0.94	0.87	0.80	0.73
1990	0.93	0.87	0.81	0.75	0.70	0.64	0.59	0.54	0.49	0.44	0.40	0.36	0.32	0.28	0.25	0.21	0.18	0.16
1991	2.62	2.56	2.49	2.43	2.36	2.30	2.23	2.16	2.09	2.02	1.95	1.87	1.80	1.72	1.65	1.57	1.49	1.42
1992	5.75	5.61	5.46	5.32	5.17	5.02	4.86	4.71	4.55	4.39	4.23	4.06	3.90	3.73	3.56	3.39	3.21	3.04
1993	4.46	4.32	4.18	4.04	3.90	3.76	3.61	3.46	3.32	3.17	3.02	2.87	2.72	2.57	2.42	2.28	2.13	1.98
1994	2.69	2.63	2.58	2.52	2.46	2.40	2.34	2.27	2.21	2.14	2.08	2.01	1.94	1.87	1.80	1.72	1.65	1.58
1995	3.16	3.09	3.01	2.94	2.86	2.78	2.70	2.62	2.53	2.45	2.36	2.27	2.18	2.09	2.00	1.91	1.82	1.73
1996	2.25	2.14	2.03	1.93	1.82	1.71	1.61	1.51	1.41	1.31	1.21	1.12	1.03	0.94	0.86	0.78	0.70	0.62
1997	5.03	4.91	4.80	4.68	4.56	4.44	4.31	4.18	4.05	3.92	3.79	3.65	3.51	3.37	3.23	3.08	2.94	2.79
1998	6.16	5.99	5.81	5.64	5.46	5.28	5.10	4.91	4.73	4.54	4.35	4.16	3.96	3.77	3.57	3.38	3.18	2.99
1999	1.23	1.18	1.13	1.08	1.02	0.97	0.92	0.87	0.82	0.77	0.72	0.68	0.63	0.58	0.54	0.49	0.45	0.41
2000	1.45	1.37	1.29	1.21	1.13	1.06	0.98	0.91	0.84	0.77	0.71	0.64	0.58	0.52	0.47	0.42	0.37	0.32
2001	2.11	2.04	1.98	1.92	1.86	1.79	1.73	1.66	1.60	1.53	1.46	1.39	1.33	1.26	1.19	1.12	1.06	0.99
2002	5.87	5.66	5.46	5.25	5.03	4.82	4.61	4.40	4.19	3.97	3.76	3.55	3.34	3.13	2.93	2.72	2.52	2.33
2003	0.85	0.80	0.75	0.71	0.66	0.62	0.58	0.54	0.50	0.46	0.42	0.38	0.35	0.31	0.28	0.25	0.22	0.20
2004	2.73	2.66	2.58	2.51	2.44	2.36	2.28	2.21	2.13	2.05	1.97	1.88	1.80	1.72	1.63	1.55	1.47	1.38
2005	2.77	2.66	2.55	2.44	2.33	2.22	2.11	2.00	1.90	1.79	1.68	1.58	1.47	1.37	1.27	1.17	1.08	0.98
2006	4.32	4.18	4.05	3.91	3.78	3.64	3.50	3.36	3.22	3.08	2.93	2.79	2.65	2.50	2.36	2.22	2.08	1.94
2007	1.66	1.56	1.46	1.37	1.28	1.19	1.10	1.02	0.93	0.86	0.78	0.71	0.64	0.57	0.51	0.45	0.39	0.34
2008	4.96	4.84	4.72	4.59	4.46	4.34	4.20	4.07	3.94	3.80	3.66	3.52	3.37	3.23	3.08	2.94	2.79	2.64
2009	4.82	4.68	4.54	4.39	4.25	4.10	3.95	3.80	3.65	3.49	3.34	3.18	3.03	2.87	2.71	2.56	2.40	2.25
2010	3.54	3.49	3.44	3.38	3.33	3.28	3.22	3.16	3.10	3.04	2.98	2.91	2.85	2.78	2.70	2.63	2.56	2.48
2011	4.60	4.46	4.32	4.17	4.03	3.88	3.74	3.59	3.44	3.29	3.14	2.99	2.83	2.68	2.53	2.38	2.23	2.08
2012	3.62	3.53	3.44	3.34	3.24	3.14	3.04	2.94	2.84	2.74	2.63	2.52	2.42	2.31	2.20	2.09	1.98	1.87
2013	2.37	2.25	2.14	2.02	1.90	1.79	1.68	1.57	1.46	1.35	1.25	1.15	1.06	0.96	0.87	0.79	0.70	0.63
2014	3.20	3.02	2.85	2.68	2.51	2.35	2.19	2.03	1.88	1.73	1.59	1.45	1.31	1.19	1.06	0.95	0.84	0.74
2015	4.29	4.10	3.92	3.73	3.55	3.36	3.18	3.00	2.82	2.64	2.47	2.30	2.13	1.97	1.81	1.65	1.50	1.36
2016	2.55	2.42	2.28	2.15	2.02	1.90	1.77	1.65	1.53	1.41	1.30	1.19	1.09	0.99	0.89	0.80	0.71	0.63
2017	3.80	3.63	3.47	3.30	3.14	2.98	2.82	2.66	2.50	2.35	2.19	2.04	1.90	1.75	1.61	1.47	1.34	1.21
2018	2.36	2.29	2.21	2.13	2.06	1.98	1.90	1.82	1.75	1.67	1.59	1.51	1.43	1.35	1.27	1.19	1.11	1.04

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 870:882	Maturity (months) 882:894	Maturity (months) 894:906	Maturity (months) 906:918	Maturity (months) 918:930	Maturity (months) 930:942	Maturity (months) 942:954	Maturity (months) 954:966	Maturity (months) 966:978	Maturity (months) 978:990	Maturity (months) 990:1002	Maturity (months) 1002:1014	Maturity (months) 1014:1026	Maturity (months) 1026:1038	Maturity (months) 1038:1050	Maturity (months) 1050:1062	Maturity (months) 1062:1074	Maturity (months) 1074:1086
1989	0.66	0.60	0.54	0.48	0.42	0.37	0.32	0.28	0.23	0.20	0.16	0.13	0.11	0.08	0.06	0.05	0.03	0.02
1990	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1991	1.34	1.26	1.18	1.10	1.03	0.95	0.87	0.80	0.73	0.66	0.59	0.52	0.46	0.40	0.34	0.29	0.24	0.20
1992	2.87	2.70	2.52	2.35	2.18	2.01	1.85	1.68	1.52	1.37	1.22	1.08	0.95	0.82	0.70	0.59	0.49	0.40
1993	1.84	1.70	1.56	1.43	1.30	1.17	1.05	0.93	0.82	0.71	0.62	0.53	0.44	0.37	0.30	0.24	0.19	0.15
1994	1.50	1.42	1.35	1.27	1.19	1.11	1.04	0.96	0.88	0.81	0.73	0.66	0.59	0.52	0.46	0.40	0.34	0.29
1995	1.63	1.54	1.44	1.35	1.26	1.16	1.07	0.98	0.89	0.81	0.73	0.64	0.57	0.50	0.43	0.36	0.31	0.25
1996	0.55	0.49	0.43	0.37	0.32	0.27	0.22	0.18	0.15	0.12	0.09	0.07	0.05	0.04	0.03	0.02	0.01	0.01
1997	2.65	2.50	2.35	2.20	2.05	1.91	1.76	1.62	1.48	1.34	1.20	1.07	0.95	0.83	0.72	0.62	0.52	0.43
1998	2.80	2.61	2.42	2.23	2.05	1.87	1.69	1.53	1.36	1.21	1.06	0.92	0.79	0.67	0.56	0.46	0.37	0.30
1999	0.37	0.33	0.30	0.26	0.23	0.20	0.17	0.15	0.12	0.10	0.08	0.07	0.05	0.04	0.03	0.02	0.02	0.01
2000	0.28	0.24	0.21	0.17	0.14	0.12	0.10	0.08	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0.01	0.00	0.00
2001	0.92	0.86	0.79	0.73	0.66	0.60	0.54	0.49	0.43	0.38	0.33	0.29	0.24	0.21	0.17	0.14	0.11	0.09
2002	2.14	1.95	1.77	1.60	1.43	1.27	1.12	0.98	0.85	0.72	0.61	0.51	0.42	0.34	0.27	0.21	0.16	0.12
2003	0.17	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00
2004	1.30	1.22	1.13	1.05	0.97	0.89	0.81	0.73	0.66	0.59	0.52	0.46	0.40	0.34	0.29	0.24	0.20	0.16
2005	0.90	0.81	0.73	0.65	0.57	0.50	0.43	0.37	0.32	0.27	0.22	0.18	0.14	0.11	0.09	0.06	0.05	0.03
2006	1.80	1.66	1.53	1.40	1.27	1.15	1.03	0.92	0.81	0.71	0.61	0.52	0.44	0.37	0.30	0.24	0.19	0.15
2007	0.30	0.25	0.21	0.18	0.15	0.12	0.10	0.08	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00
2008	2.49	2.34	2.19	2.05	1.90	1.75	1.61	1.47	1.33	1.20	1.07	0.95	0.83	0.72	0.62	0.52	0.43	0.36
2009	2.09	1.94	1.80	1.65	1.51	1.37	1.23	1.10	0.98	0.86	0.75	0.65	0.55	0.46	0.38	0.31	0.25	0.19
2010	2.40	2.32	2.23	2.15	2.06	1.97	1.88	1.79	1.69	1.60	1.50	1.40	1.30	1.20	1.11	1.01	0.91	0.82
2011	1.93	1.79	1.65	1.51	1.37	1.24	1.11	0.99	0.88	0.77	0.66	0.57	0.48	0.40	0.33	0.26	0.21	0.16
2012	1.76	1.65	1.54	1.43	1.32	1.21	1.11	1.01	0.91	0.81	0.72	0.64	0.55	0.48	0.40	0.34	0.28	0.23
2013	0.55	0.49	0.42	0.36	0.31	0.26	0.22	0.18	0.14	0.11	0.09	0.07	0.05	0.04	0.03	0.02	0.01	0.01
2014	0.65	0.56	0.48	0.41	0.34	0.28	0.23	0.18	0.14	0.11	0.09	0.06	0.05	0.03	0.02	0.01	0.01	0.01
2015	1.22	1.09	0.97	0.85	0.74	0.64	0.55	0.46	0.38	0.31	0.25	0.20	0.16	0.12	0.09	0.06	0.04	0.03
2016	0.55	0.48	0.41	0.35	0.30	0.25	0.20	0.17	0.13	0.10	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01
2017	1.09	0.98	0.87	0.76	0.66	0.57	0.49	0.41	0.35	0.28	0.23	0.18	0.14	0.11	0.08	0.06	0.04	0.03
2018	0.96	0.89	0.81	0.74	0.67	0.61	0.54	0.48	0.42	0.37	0.32	0.27	0.23	0.19	0.15	0.12	0.10	0.07

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 1086:1098	Maturity (months) 1098:1110	Maturity (months) 1110:1122	Maturity (months) 1122:1134	Maturity (months) 1134:1146	Maturity (months) 1146:1158	Maturity (months) 1158:1170	Maturity (months) 1170:1182	Maturity (months) 1182:1194	Maturity (months) 1194:1206	Maturity (months) 1206:1218	Maturity (months) 1218:1230	Maturity (months) 1230:1242	Maturity (months) 1242:1254	Maturity (months) 1254:1266	Maturity (months) 1266:1278	Maturity (months) 1278:1290	Maturity (months) 1290:1302
1989	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-
1991	0.16	0.13	0.10	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	0.32	0.26	0.20	0.15	0.11	0.08	0.05	0.04	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	0.24	0.20	0.16	0.13	0.10	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
1995	0.21	0.16	0.13	0.10	0.07	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	0.35	0.29	0.23	0.17	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
1998	0.23	0.18	0.13	0.09	0.07	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	0.07	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	0.13	0.10	0.07	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.29	0.23	0.18	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.15	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.73	0.64	0.56	0.48	0.41	0.35	0.29	0.23	0.19	0.15	0.11	0.09	0.07	0.05	0.04	0.03	0.02	0.02
2011	0.12	0.09	0.07	0.05	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.18	0.14	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Prospective Open Accepted Claim Counts (a)**

Year of Birth	Maturity (months) 1302:1314	Maturity (months) 1314:1326	Maturity (months) 1326:1338	Maturity (months) 1338:1350	Maturity (months) 1350:1362	Maturity (months) 1362:1374	Maturity (months) 1374:1386	Maturity (months) 1386:1398	Maturity (months) 1398:1410	Maturity (months) 1410:1422	Maturity (months) 1422:1434	Maturity (months) 1434:1446	Maturity (months) 1446:1458	Maturity (months) 1458:1470	Maturity (months) 1470:1482
1989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1994	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2010	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-

Notes: (a) See the ultimate accepted claim counts (shown in Appendix E, Exhibit II, Sheet 3, Column (8)) and the adjusted q(x) (shown in Appendix E, Exhibit III, Sheets 4a to 4g) to estimate the number of claim counts alive by maturity. For the maturity from 6:18 to 66:78, the ultimate accepted claim counts are adjusted for reporting pattern as shown in column (11) of Exhibit X, Sheet 1c.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Adjusted q(x) (a)**

Year of Birth	Maturity (months) 6:18	Maturity (months) 18:30	Maturity (months) 30:42	Maturity (months) 42:54	Maturity (months) 54:66	Maturity (months) 66:78	Maturity (months) 78:90	Maturity (months) 90:102	Maturity (months) 102:114	Maturity (months) 114:126	Maturity (months) 126:138	Maturity (months) 138:150	Maturity (months) 150:162	Maturity (months) 162:174	Maturity (months) 174:186	Maturity (months) 186:198	Maturity (months) 198:210	Maturity (months) 210:222
1989																		
1990																		
1991																		
1992																		
1993																		
1994																		
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		0.0112
2002																	0.0133	0.0136
2003																0.0203	0.0207	0.0211
2004															0.0094	0.0096	0.0098	0.0101
2005														0.0139	0.0142	0.0145	0.0148	0.0151
2006													0.0106	0.0108	0.0111	0.0113	0.0116	0.0118
2007												0.0200	0.0203	0.0208	0.0212	0.0217	0.0222	0.0226
2008											0.0081	0.0082	0.0084	0.0086	0.0087	0.0089	0.0091	0.0093
2009										0.0097	0.0098	0.0099	0.0101	0.0103	0.0106	0.0108	0.0110	0.0113
2010									0.0045	0.0045	0.0046	0.0047	0.0048	0.0049	0.0050	0.0051	0.0052	0.0053
2011								0.0098	0.0099	0.0100	0.0102	0.0103	0.0105	0.0107	0.0110	0.0112	0.0114	0.0117
2012							0.0081	0.0082	0.0083	0.0084	0.0085	0.0087	0.0088	0.0090	0.0092	0.0094	0.0096	0.0098
2013						0.0157	0.0159	0.0161	0.0163	0.0166	0.0168	0.0170	0.0173	0.0177	0.0181	0.0185	0.0189	0.0193
2014					0.0170	0.0172	0.0174	0.0176	0.0179	0.0181	0.0184	0.0186	0.0190	0.0194	0.0198	0.0202	0.0207	0.0211
2015				0.0133	0.0134	0.0136	0.0138	0.0140	0.0142	0.0144	0.0146	0.0148	0.0150	0.0154	0.0157	0.0160	0.0164	0.0167
2016			0.0292	0.0161	0.0163	0.0165	0.0167	0.0169	0.0171	0.0174	0.0176	0.0179	0.0182	0.0186	0.0190	0.0194	0.0198	0.0203
2017		0.0323	0.0239	0.0132	0.0133	0.0135	0.0137	0.0139	0.0141	0.0143	0.0145	0.0147	0.0149	0.0152	0.0156	0.0159	0.0163	0.0166
2018	0.1736	0.0235	0.0174	0.0096	0.0097	0.0098	0.0100	0.0101	0.0102	0.0104	0.0105	0.0107	0.0109	0.0111	0.0114	0.0116	0.0119	0.0121

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

Adjusted q(x) (a)

Year of Birth	Maturity (months) 222:234	Maturity (months) 234:246	Maturity (months) 246:258	Maturity (months) 258:270	Maturity (months) 270:282	Maturity (months) 282:294	Maturity (months) 294:306	Maturity (months) 306:318	Maturity (months) 318:330	Maturity (months) 330:342	Maturity (months) 342:354	Maturity (months) 354:366	Maturity (months) 366:378	Maturity (months) 378:390	Maturity (months) 390:402	Maturity (months) 402:414	Maturity (months) 414:426	Maturity (months) 426:438
1989												0.0189	0.0194	0.0198	0.0202	0.0207	0.0212	0.0217
1990											0.0312	0.0319	0.0326	0.0333	0.0341	0.0349	0.0357	0.0365
1991									0.0110	0.0112	0.0114	0.0117	0.0120	0.0122	0.0125	0.0128	0.0131	
1992									0.0111	0.0113	0.0116	0.0118	0.0121	0.0123	0.0126	0.0129	0.0132	0.0135
1993								0.0138	0.0141	0.0144	0.0147	0.0150	0.0153	0.0156	0.0160	0.0164	0.0167	0.0171
1994							0.0090	0.0092	0.0094	0.0096	0.0098	0.0100	0.0102	0.0104	0.0107	0.0109	0.0111	0.0114
1995						0.0100	0.0102	0.0104	0.0106	0.0108	0.0110	0.0113	0.0115	0.0118	0.0120	0.0123	0.0126	0.0129
1996					0.0205	0.0208	0.0212	0.0216	0.0220	0.0224	0.0229	0.0234	0.0239	0.0244	0.0250	0.0255	0.0261	0.0268
1997				0.0094	0.0096	0.0097	0.0099	0.0101	0.0103	0.0105	0.0107	0.0109	0.0112	0.0114	0.0117	0.0120	0.0122	0.0125
1998			0.0113	0.0115	0.0117	0.0119	0.0121	0.0124	0.0126	0.0128	0.0131	0.0134	0.0137	0.0140	0.0143	0.0146	0.0150	0.0153
1999		0.0166	0.0170	0.0173	0.0176	0.0179	0.0182	0.0186	0.0189	0.0193	0.0197	0.0201	0.0205	0.0210	0.0215	0.0220	0.0225	0.0230
2000	0.0221	0.0225	0.0229	0.0234	0.0238	0.0242	0.0247	0.0251	0.0256	0.0261	0.0266	0.0272	0.0278	0.0284	0.0291	0.0297	0.0304	0.0311
2001	0.0114	0.0116	0.0118	0.0120	0.0123	0.0125	0.0127	0.0129	0.0132	0.0134	0.0137	0.0140	0.0143	0.0146	0.0150	0.0153	0.0157	0.0160
2002	0.0138	0.0141	0.0144	0.0146	0.0149	0.0152	0.0154	0.0157	0.0160	0.0163	0.0167	0.0170	0.0174	0.0178	0.0182	0.0186	0.0190	0.0195
2003	0.0215	0.0219	0.0223	0.0228	0.0232	0.0236	0.0240	0.0245	0.0249	0.0254	0.0259	0.0265	0.0271	0.0277	0.0283	0.0290	0.0296	0.0303
2004	0.0102	0.0104	0.0106	0.0108	0.0110	0.0112	0.0114	0.0116	0.0119	0.0121	0.0123	0.0126	0.0129	0.0132	0.0135	0.0138	0.0141	0.0144
2005	0.0154	0.0157	0.0160	0.0163	0.0166	0.0169	0.0172	0.0175	0.0178	0.0182	0.0185	0.0189	0.0194	0.0198	0.0202	0.0207	0.0212	0.0217
2006	0.0120	0.0123	0.0125	0.0127	0.0130	0.0132	0.0134	0.0137	0.0139	0.0142	0.0145	0.0148	0.0151	0.0155	0.0158	0.0162	0.0166	0.0169
2007	0.0231	0.0235	0.0239	0.0244	0.0248	0.0253	0.0257	0.0262	0.0267	0.0272	0.0278	0.0284	0.0290	0.0297	0.0303	0.0310	0.0317	0.0325
2008	0.0095	0.0097	0.0099	0.0101	0.0102	0.0104	0.0106	0.0108	0.0110	0.0112	0.0115	0.0117	0.0120	0.0122	0.0125	0.0128	0.0131	0.0134
2009	0.0115	0.0117	0.0119	0.0121	0.0124	0.0126	0.0128	0.0130	0.0133	0.0135	0.0138	0.0141	0.0144	0.0148	0.0151	0.0154	0.0158	0.0162
2010	0.0054	0.0055	0.0056	0.0057	0.0058	0.0059	0.0060	0.0061	0.0063	0.0064	0.0065	0.0067	0.0068	0.0069	0.0071	0.0073	0.0074	0.0076
2011	0.0119	0.0121	0.0124	0.0126	0.0128	0.0131	0.0133	0.0135	0.0138	0.0140	0.0143	0.0147	0.0150	0.0153	0.0157	0.0160	0.0164	0.0168
2012	0.0100	0.0102	0.0104	0.0106	0.0108	0.0109	0.0111	0.0113	0.0116	0.0118	0.0120	0.0123	0.0126	0.0128	0.0131	0.0134	0.0137	0.0141
2013	0.0197	0.0200	0.0204	0.0208	0.0212	0.0216	0.0219	0.0223	0.0228	0.0232	0.0237	0.0242	0.0247	0.0253	0.0259	0.0264	0.0271	0.0277
2014	0.0215	0.0219	0.0223	0.0227	0.0232	0.0236	0.0240	0.0244	0.0249	0.0254	0.0259	0.0265	0.0271	0.0277	0.0283	0.0289	0.0296	0.0303
2015	0.0171	0.0174	0.0177	0.0180	0.0184	0.0187	0.0190	0.0194	0.0197	0.0201	0.0205	0.0210	0.0215	0.0219	0.0224	0.0229	0.0235	0.0240
2016	0.0207	0.0210	0.0214	0.0218	0.0222	0.0226	0.0230	0.0234	0.0239	0.0243	0.0249	0.0254	0.0260	0.0265	0.0271	0.0277	0.0284	0.0291
2017	0.0170	0.0173	0.0176	0.0179	0.0182	0.0186	0.0189	0.0192	0.0196	0.0200	0.0204	0.0208	0.0213	0.0218	0.0223	0.0228	0.0233	0.0238
2018	0.0124	0.0126	0.0128	0.0130	0.0133	0.0135	0.0138	0.0140	0.0143	0.0146	0.0149	0.0152	0.0155	0.0159	0.0162	0.0166	0.0170	0.0174

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

Adjusted q(x) (a)

Year of Birth	Maturity (months) 438:450	Maturity (months) 450:462	Maturity (months) 462:474	Maturity (months) 474:486	Maturity (months) 486:498	Maturity (months) 498:510	Maturity (months) 510:522	Maturity (months) 522:534	Maturity (months) 534:546	Maturity (months) 546:558	Maturity (months) 558:570	Maturity (months) 570:582	Maturity (months) 582:594	Maturity (months) 594:606	Maturity (months) 606:618	Maturity (months) 618:630	Maturity (months) 630:642	Maturity (months) 642:654
1989	0.0222	0.0228	0.0233	0.0239	0.0246	0.0252	0.0259	0.0267	0.0275	0.0284	0.0293	0.0303	0.0314	0.0325	0.0337	0.0350	0.0364	0.0379
1990	0.0374	0.0383	0.0393	0.0403	0.0413	0.0425	0.0437	0.0449	0.0463	0.0478	0.0493	0.0510	0.0528	0.0547	0.0568	0.0590	0.0613	0.0638
1991	0.0134	0.0137	0.0141	0.0144	0.0148	0.0152	0.0157	0.0161	0.0166	0.0171	0.0177	0.0183	0.0189	0.0196	0.0204	0.0211	0.0220	0.0229
1992	0.0138	0.0142	0.0145	0.0149	0.0153	0.0157	0.0162	0.0166	0.0172	0.0177	0.0183	0.0189	0.0196	0.0203	0.0210	0.0218	0.0227	0.0236
1993	0.0175	0.0180	0.0184	0.0189	0.0194	0.0199	0.0205	0.0211	0.0217	0.0224	0.0231	0.0239	0.0248	0.0257	0.0266	0.0277	0.0288	0.0299
1994	0.0117	0.0120	0.0123	0.0126	0.0129	0.0133	0.0136	0.0140	0.0145	0.0149	0.0154	0.0159	0.0165	0.0171	0.0178	0.0184	0.0192	0.0199
1995	0.0132	0.0135	0.0139	0.0142	0.0146	0.0150	0.0154	0.0159	0.0163	0.0169	0.0174	0.0180	0.0186	0.0193	0.0200	0.0208	0.0216	0.0225
1996	0.0274	0.0281	0.0288	0.0295	0.0303	0.0311	0.0320	0.0329	0.0339	0.0350	0.0361	0.0374	0.0387	0.0401	0.0416	0.0432	0.0449	0.0467
1997	0.0128	0.0131	0.0135	0.0138	0.0142	0.0146	0.0150	0.0154	0.0159	0.0164	0.0169	0.0175	0.0181	0.0188	0.0195	0.0202	0.0210	0.0219
1998	0.0157	0.0161	0.0165	0.0169	0.0173	0.0178	0.0183	0.0188	0.0194	0.0200	0.0207	0.0214	0.0221	0.0230	0.0238	0.0247	0.0257	0.0267
1999	0.0236	0.0241	0.0247	0.0254	0.0260	0.0268	0.0275	0.0283	0.0292	0.0301	0.0311	0.0321	0.0333	0.0345	0.0358	0.0372	0.0386	0.0402
2000	0.0319	0.0327	0.0335	0.0343	0.0352	0.0362	0.0372	0.0383	0.0395	0.0407	0.0421	0.0435	0.0450	0.0467	0.0484	0.0503	0.0523	0.0544
2001	0.0164	0.0168	0.0172	0.0177	0.0181	0.0186	0.0192	0.0197	0.0203	0.0210	0.0216	0.0224	0.0232	0.0240	0.0249	0.0259	0.0269	0.0280
2002	0.0199	0.0204	0.0209	0.0215	0.0220	0.0226	0.0233	0.0240	0.0247	0.0255	0.0263	0.0272	0.0282	0.0292	0.0303	0.0315	0.0327	0.0340
2003	0.0311	0.0318	0.0326	0.0334	0.0343	0.0353	0.0363	0.0373	0.0385	0.0397	0.0410	0.0424	0.0438	0.0454	0.0472	0.0490	0.0509	0.0530
2004	0.0148	0.0151	0.0155	0.0159	0.0163	0.0168	0.0172	0.0178	0.0183	0.0189	0.0195	0.0201	0.0209	0.0216	0.0224	0.0233	0.0242	0.0252
2005	0.0222	0.0227	0.0233	0.0239	0.0245	0.0252	0.0259	0.0267	0.0275	0.0284	0.0293	0.0303	0.0313	0.0325	0.0337	0.0350	0.0364	0.0379
2006	0.0174	0.0178	0.0182	0.0187	0.0192	0.0197	0.0203	0.0209	0.0215	0.0222	0.0229	0.0237	0.0245	0.0254	0.0264	0.0274	0.0285	0.0296
2007	0.0333	0.0341	0.0349	0.0358	0.0368	0.0378	0.0388	0.0400	0.0412	0.0425	0.0439	0.0454	0.0470	0.0487	0.0505	0.0525	0.0545	0.0567
2008	0.0137	0.0141	0.0144	0.0148	0.0152	0.0156	0.0160	0.0165	0.0170	0.0175	0.0181	0.0187	0.0194	0.0201	0.0208	0.0216	0.0225	0.0234
2009	0.0165	0.0170	0.0174	0.0178	0.0183	0.0188	0.0193	0.0199	0.0205	0.0211	0.0218	0.0226	0.0234	0.0242	0.0251	0.0261	0.0271	0.0282
2010	0.0078	0.0080	0.0082	0.0084	0.0086	0.0089	0.0091	0.0094	0.0097	0.0100	0.0103	0.0106	0.0110	0.0114	0.0118	0.0123	0.0128	0.0133
2011	0.0172	0.0176	0.0180	0.0185	0.0190	0.0195	0.0201	0.0206	0.0213	0.0219	0.0227	0.0234	0.0242	0.0251	0.0261	0.0271	0.0282	0.0293
2012	0.0144	0.0148	0.0151	0.0155	0.0159	0.0164	0.0168	0.0173	0.0178	0.0184	0.0190	0.0196	0.0203	0.0211	0.0219	0.0227	0.0236	0.0246
2013	0.0284	0.0291	0.0298	0.0305	0.0314	0.0322	0.0331	0.0341	0.0351	0.0362	0.0374	0.0387	0.0400	0.0415	0.0431	0.0447	0.0465	0.0484
2014	0.0310	0.0318	0.0326	0.0334	0.0343	0.0352	0.0362	0.0373	0.0384	0.0396	0.0409	0.0423	0.0438	0.0454	0.0471	0.0489	0.0509	0.0529
2015	0.0246	0.0252	0.0258	0.0265	0.0272	0.0279	0.0287	0.0296	0.0305	0.0314	0.0325	0.0336	0.0347	0.0360	0.0374	0.0388	0.0403	0.0420
2016	0.0298	0.0305	0.0313	0.0321	0.0329	0.0338	0.0348	0.0358	0.0369	0.0380	0.0393	0.0406	0.0420	0.0436	0.0452	0.0469	0.0488	0.0508
2017	0.0244	0.0250	0.0257	0.0263	0.0270	0.0277	0.0285	0.0294	0.0303	0.0312	0.0322	0.0333	0.0345	0.0357	0.0371	0.0385	0.0401	0.0417
2018	0.0178	0.0182	0.0187	0.0192	0.0197	0.0202	0.0208	0.0214	0.0220	0.0227	0.0235	0.0243	0.0251	0.0261	0.0270	0.0281	0.0292	0.0304

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Adjusted q(x) (a)**

Year of Birth	Maturity (months) 654:666	Maturity (months) 666:678	Maturity (months) 678:690	Maturity (months) 690:702	Maturity (months) 702:714	Maturity (months) 714:726	Maturity (months) 726:738	Maturity (months) 738:750	Maturity (months) 750:762	Maturity (months) 762:774	Maturity (months) 774:786	Maturity (months) 786:798	Maturity (months) 798:810	Maturity (months) 810:822	Maturity (months) 822:834	Maturity (months) 834:846	Maturity (months) 846:858	Maturity (months) 858:870
1989	0.0394	0.0411	0.0429	0.0448	0.0468	0.0490	0.0513	0.0538	0.0565	0.0594	0.0625	0.0658	0.0694	0.0732	0.0772	0.0815	0.0861	0.0912
1990	0.0664	0.0692	0.0722	0.0754	0.0788	0.0824	0.0863	0.0905	0.0951	0.0999	0.1052	0.1109	0.1169	0.1233	0.1300	0.1372	0.1450	0.1535
1991	0.0238	0.0248	0.0259	0.0270	0.0282	0.0296	0.0310	0.0325	0.0341	0.0358	0.0377	0.0397	0.0419	0.0442	0.0466	0.0492	0.0520	0.0550
1992	0.0246	0.0256	0.0267	0.0279	0.0292	0.0305	0.0320	0.0335	0.0352	0.0370	0.0390	0.0411	0.0433	0.0457	0.0482	0.0508	0.0537	0.0568
1993	0.0311	0.0325	0.0339	0.0354	0.0370	0.0387	0.0405	0.0425	0.0446	0.0469	0.0494	0.0520	0.0549	0.0579	0.0610	0.0644	0.0680	0.0720
1994	0.0207	0.0216	0.0226	0.0236	0.0246	0.0258	0.0270	0.0283	0.0297	0.0312	0.0329	0.0347	0.0365	0.0385	0.0406	0.0429	0.0453	0.0480
1995	0.0234	0.0244	0.0255	0.0266	0.0278	0.0291	0.0305	0.0320	0.0336	0.0353	0.0371	0.0391	0.0413	0.0435	0.0459	0.0484	0.0512	0.0542
1996	0.0486	0.0507	0.0529	0.0552	0.0577	0.0604	0.0633	0.0663	0.0697	0.0732	0.0771	0.0812	0.0857	0.0903	0.0953	0.1005	0.1062	0.1124
1997	0.0228	0.0237	0.0248	0.0259	0.0270	0.0283	0.0296	0.0311	0.0326	0.0343	0.0361	0.0380	0.0401	0.0423	0.0446	0.0471	0.0497	0.0526
1998	0.0278	0.0290	0.0303	0.0316	0.0330	0.0346	0.0362	0.0380	0.0399	0.0419	0.0441	0.0465	0.0490	0.0517	0.0545	0.0575	0.0608	0.0644
1999	0.0418	0.0436	0.0455	0.0475	0.0496	0.0519	0.0544	0.0570	0.0599	0.0630	0.0663	0.0698	0.0737	0.0777	0.0819	0.0864	0.0913	0.0967
2000	0.0566	0.0590	0.0616	0.0643	0.0672	0.0703	0.0736	0.0772	0.0811	0.0852	0.0897	0.0945	0.0997	0.1052	0.1109	0.1170	0.1236	0.1309
2001	0.0291	0.0304	0.0317	0.0331	0.0346	0.0362	0.0379	0.0397	0.0417	0.0439	0.0462	0.0486	0.0513	0.0541	0.0571	0.0602	0.0636	0.0673
2002	0.0354	0.0369	0.0385	0.0402	0.0420	0.0440	0.0461	0.0483	0.0507	0.0533	0.0561	0.0591	0.0624	0.0658	0.0694	0.0732	0.0773	0.0819
2003	0.0551	0.0574	0.0599	0.0626	0.0654	0.0685	0.0717	0.0752	0.0789	0.0830	0.0874	0.0921	0.0971	0.1024	0.1080	0.1139	0.1204	0.1274
2004	0.0262	0.0273	0.0285	0.0298	0.0311	0.0326	0.0341	0.0358	0.0376	0.0395	0.0415	0.0438	0.0462	0.0487	0.0514	0.0542	0.0573	0.0606
2005	0.0394	0.0411	0.0428	0.0447	0.0468	0.0489	0.0513	0.0537	0.0564	0.0593	0.0624	0.0658	0.0694	0.0732	0.0772	0.0814	0.0861	0.0911
2006	0.0308	0.0321	0.0335	0.0350	0.0366	0.0383	0.0401	0.0420	0.0441	0.0464	0.0488	0.0514	0.0543	0.0572	0.0603	0.0637	0.0673	0.0712
2007	0.0591	0.0615	0.0642	0.0671	0.0701	0.0733	0.0768	0.0806	0.0846	0.0889	0.0936	0.0986	0.1040	0.1097	0.1157	0.1221	0.1290	0.1365
2008	0.0244	0.0254	0.0265	0.0277	0.0289	0.0302	0.0317	0.0332	0.0349	0.0367	0.0386	0.0407	0.0429	0.0452	0.0477	0.0503	0.0532	0.0563
2009	0.0294	0.0306	0.0319	0.0334	0.0349	0.0365	0.0382	0.0401	0.0421	0.0442	0.0465	0.0490	0.0517	0.0546	0.0575	0.0607	0.0641	0.0679
2010	0.0138	0.0144	0.0150	0.0157	0.0164	0.0172	0.0180	0.0189	0.0198	0.0208	0.0219	0.0231	0.0244	0.0257	0.0271	0.0286	0.0302	0.0320
2011	0.0305	0.0318	0.0331	0.0346	0.0362	0.0379	0.0397	0.0416	0.0437	0.0459	0.0483	0.0509	0.0537	0.0566	0.0597	0.0630	0.0666	0.0705
2012	0.0256	0.0266	0.0278	0.0290	0.0303	0.0317	0.0333	0.0349	0.0366	0.0385	0.0405	0.0427	0.0450	0.0475	0.0501	0.0528	0.0558	0.0591
2013	0.0503	0.0525	0.0547	0.0572	0.0598	0.0625	0.0655	0.0687	0.0721	0.0758	0.0798	0.0841	0.0887	0.0935	0.0986	0.1041	0.1100	0.1164
2014	0.0551	0.0574	0.0599	0.0625	0.0654	0.0684	0.0716	0.0751	0.0789	0.0829	0.0873	0.0920	0.0970	0.1023	0.1079	0.1138	0.1203	0.1273
2015	0.0437	0.0455	0.0475	0.0496	0.0518	0.0542	0.0568	0.0596	0.0626	0.0658	0.0692	0.0729	0.0769	0.0811	0.0856	0.0903	0.0954	0.1010
2016	0.0528	0.0551	0.0574	0.0600	0.0627	0.0656	0.0687	0.0721	0.0757	0.0795	0.0837	0.0882	0.0931	0.0981	0.1035	0.1092	0.1154	0.1222
2017	0.0434	0.0452	0.0471	0.0492	0.0515	0.0538	0.0564	0.0591	0.0621	0.0653	0.0687	0.0724	0.0764	0.0805	0.0849	0.0896	0.0947	0.1003
2018	0.0316	0.0329	0.0344	0.0359	0.0375	0.0392	0.0411	0.0431	0.0453	0.0476	0.0501	0.0528	0.0557	0.0587	0.0619	0.0653	0.0690	0.0731

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.



Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

Adjusted q(x) (a)

Year of Birth	Maturity (months) 870:882	Maturity (months) 882:894	Maturity (months) 894:906	Maturity (months) 906:918	Maturity (months) 918:930	Maturity (months) 930:942	Maturity (months) 942:954	Maturity (months) 954:966	Maturity (months) 966:978	Maturity (months) 978:990	Maturity (months) 990:1002	Maturity (months) 1002:1014	Maturity (months) 1014:1026	Maturity (months) 1026:1038	Maturity (months) 1038:1050	Maturity (months) 1050:1062	Maturity (months) 1062:1074	Maturity (months) 1074:1086
1989	0.0967	0.1026	0.1092	0.1163	0.1240	0.1324	0.1414	0.1512	0.1619	0.1736	0.1864	0.2003	0.2155	0.2321	0.2501	0.2697	0.2909	0.3138
1990	0.1627	0.1728	0.1838	0.1958	0.2088	0.2229	0.2381	0.2545	0.2725	0.2922	0.3138	0.3373	0.3629	0.3908	0.4211	0.4540	0.4897	0.5283
1991	0.0583	0.0619	0.0659	0.0702	0.0749	0.0799	0.0853	0.0912	0.0977	0.1048	0.1125	0.1209	0.1301	0.1401	0.1509	0.1627	0.1755	0.1894
1992	0.0603	0.0640	0.0681	0.0725	0.0773	0.0825	0.0882	0.0943	0.1009	0.1082	0.1162	0.1249	0.1344	0.1447	0.1559	0.1681	0.1813	0.1956
1993	0.0763	0.0811	0.0862	0.0919	0.0980	0.1046	0.1117	0.1194	0.1279	0.1371	0.1472	0.1582	0.1702	0.1833	0.1976	0.2130	0.2297	0.2479
1994	0.0509	0.0540	0.0574	0.0612	0.0653	0.0697	0.0744	0.0796	0.0852	0.0913	0.0981	0.1054	0.1134	0.1221	0.1316	0.1419	0.1531	0.1651
1995	0.0574	0.0610	0.0649	0.0691	0.0737	0.0787	0.0840	0.0898	0.0962	0.1031	0.1107	0.1190	0.1281	0.1379	0.1486	0.1602	0.1728	0.1865
1996	0.1192	0.1266	0.1347	0.1434	0.1530	0.1633	0.1744	0.1865	0.1997	0.2141	0.2299	0.2471	0.2659	0.2863	0.3085	0.3326	0.3588	0.3871
1997	0.0558	0.0593	0.0630	0.0671	0.0716	0.0764	0.0816	0.0873	0.0935	0.1002	0.1076	0.1157	0.1245	0.1340	0.1444	0.1557	0.1679	0.1812
1998	0.0682	0.0725	0.0771	0.0821	0.0876	0.0935	0.0998	0.1067	0.1143	0.1226	0.1316	0.1414	0.1522	0.1639	0.1766	0.1904	0.2054	0.2216
1999	0.1025	0.1089	0.1158	0.1233	0.1316	0.1404	0.1500	0.1604	0.1717	0.1841	0.1977	0.2125	0.2286	0.2462	0.2653	0.2860	0.3085	0.3328
2000	0.1388	0.1474	0.1567	0.1670	0.1781	0.1901	0.2030	0.2170	0.2324	0.2492	0.2676	0.2876	0.3094	0.3332	0.3591	0.3872	0.4176	0.4505
2001	0.0714	0.0758	0.0806	0.0859	0.0916	0.0978	0.1045	0.1117	0.1196	0.1282	0.1377	0.1480	0.1592	0.1715	0.1848	0.1992	0.2149	0.2318
2002	0.0868	0.0922	0.0980	0.1044	0.1114	0.1189	0.1270	0.1358	0.1454	0.1559	0.1674	0.1799	0.1936	0.2084	0.2246	0.2422	0.2612	0.2818
2003	0.1351	0.1435	0.1526	0.1626	0.1734	0.1851	0.1977	0.2114	0.2263	0.2427	0.2606	0.2801	0.3013	0.3245	0.3497	0.3770	0.4066	0.4387
2004	0.0643	0.0683	0.0726	0.0773	0.0825	0.0880	0.0940	0.1005	0.1076	0.1154	0.1239	0.1332	0.1433	0.1543	0.1663	0.1793	0.1934	0.2087
2005	0.0966	0.1026	0.1091	0.1162	0.1240	0.1323	0.1413	0.1511	0.1618	0.1735	0.1863	0.2002	0.2154	0.2320	0.2500	0.2695	0.2907	0.3136
2006	0.0755	0.0802	0.0853	0.0909	0.0969	0.1034	0.1105	0.1181	0.1265	0.1356	0.1456	0.1565	0.1684	0.1813	0.1954	0.2107	0.2273	0.2452
2007	0.1448	0.1537	0.1635	0.1742	0.1858	0.1983	0.2118	0.2264	0.2424	0.2600	0.2792	0.3001	0.3228	0.3476	0.3746	0.4039	0.4357	0.4700
2008	0.0597	0.0634	0.0674	0.0718	0.0766	0.0818	0.0873	0.0934	0.1000	0.1072	0.1151	0.1237	0.1331	0.1434	0.1545	0.1666	0.1797	0.1938
2009	0.0720	0.0765	0.0813	0.0866	0.0924	0.0986	0.1053	0.1126	0.1206	0.1293	0.1388	0.1492	0.1606	0.1729	0.1863	0.2009	0.2167	0.2338
2010	0.0339	0.0360	0.0383	0.0408	0.0435	0.0465	0.0496	0.0531	0.0568	0.0609	0.0654	0.0703	0.0756	0.0815	0.0878	0.0946	0.1021	0.1101
2011	0.0747	0.0794	0.0844	0.0899	0.0959	0.1024	0.1093	0.1169	0.1251	0.1342	0.1441	0.1549	0.1666	0.1794	0.1934	0.2085	0.2249	0.2426
2012	0.0627	0.0666	0.0708	0.0754	0.0804	0.0858	0.0917	0.0980	0.1050	0.1125	0.1208	0.1299	0.1398	0.1505	0.1622	0.1748	0.1886	0.2035
2013	0.1234	0.1311	0.1394	0.1485	0.1584	0.1691	0.1806	0.1931	0.2067	0.2217	0.2380	0.2558	0.2752	0.2964	0.3194	0.3444	0.3714	0.4007
2014	0.1350	0.1434	0.1525	0.1624	0.1733	0.1849	0.1975	0.2112	0.2261	0.2425	0.2604	0.2798	0.3011	0.3242	0.3494	0.3767	0.4063	0.4384
2015	0.1071	0.1137	0.1209	0.1288	0.1374	0.1467	0.1566	0.1675	0.1793	0.1923	0.2065	0.2219	0.2388	0.2571	0.2771	0.2987	0.3222	0.3476
2016	0.1295	0.1375	0.1463	0.1558	0.1662	0.1774	0.1895	0.2026	0.2169	0.2326	0.2497	0.2684	0.2888	0.3110	0.3351	0.3613	0.3897	0.4205
2017	0.1063	0.1129	0.1201	0.1279	0.1364	0.1456	0.1555	0.1663	0.1780	0.1909	0.2050	0.2203	0.2370	0.2552	0.2751	0.2966	0.3199	0.3451
2018	0.0775	0.0823	0.0875	0.0932	0.0994	0.1061	0.1133	0.1212	0.1297	0.1391	0.1494	0.1605	0.1727	0.1860	0.2004	0.2161	0.2331	0.2515

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

Adjusted q(x) (a)

Year of Birth	Maturity (months) 1086:1098	Maturity (months) 1098:1110	Maturity (months) 1110:1122	Maturity (months) 1122:1134	Maturity (months) 1134:1146	Maturity (months) 1146:1158	Maturity (months) 1158:1170	Maturity (months) 1170:1182	Maturity (months) 1182:1194	Maturity (months) 1194:1206	Maturity (months) 1206:1218	Maturity (months) 1218:1230	Maturity (months) 1230:1242	Maturity (months) 1242:1254	Maturity (months) 1254:1266	Maturity (months) 1266:1278	Maturity (months) 1278:1290	Maturity (months) 1290:1302
1989	0.3386	0.3653	0.3939	0.4246	0.4573	0.4913	0.5267	0.5635	0.6016	0.6415	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649
1990	0.5700	0.6150	0.6632	0.7149	0.7698	0.8272	0.8868	0.9487	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1991	0.2043	0.2205	0.2378	0.2563	0.2760	0.2965	0.3179	0.3401	0.3631	0.3872	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013
1992	0.2111	0.2277	0.2456	0.2647	0.2851	0.3063	0.3284	0.3513	0.3751	0.4000	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146
1993	0.2674	0.2885	0.3112	0.3354	0.3612	0.3881	0.4161	0.4451	0.4752	0.5067	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252
1994	0.1782	0.1922	0.2073	0.2235	0.2406	0.2586	0.2772	0.2965	0.3166	0.3376	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499
1995	0.2012	0.2170	0.2341	0.2523	0.2717	0.2920	0.3130	0.3348	0.3575	0.3812	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951
1996	0.4177	0.4506	0.4859	0.5238	0.5641	0.6061	0.6498	0.6951	0.7421	0.7913	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202
1997	0.1955	0.2109	0.2275	0.2452	0.2640	0.2837	0.3041	0.3254	0.3474	0.3704	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839
1998	0.2391	0.2579	0.2781	0.2998	0.3229	0.3469	0.3719	0.3979	0.4248	0.4529	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695
1999	0.3591	0.3874	0.4178	0.4504	0.4850	0.5212	0.5587	0.5977	0.6381	0.6804	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053
2000	0.4861	0.5244	0.5656	0.6096	0.6565	0.7054	0.7563	0.8090	0.8637	0.9210	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547
2001	0.2501	0.2699	0.2910	0.3137	0.3378	0.3630	0.3892	0.4163	0.4445	0.4739	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913
2002	0.3040	0.3280	0.3538	0.3813	0.4106	0.4412	0.4730	0.5060	0.5403	0.5761	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971
2003	0.4734	0.5107	0.5508	0.5937	0.6393	0.6869	0.7364	0.7878	0.8411	0.8969	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297
2004	0.2252	0.2429	0.2620	0.2824	0.3041	0.3267	0.3503	0.3747	0.4001	0.4266	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422
2005	0.3384	0.3651	0.3937	0.4244	0.4570	0.4911	0.5265	0.5632	0.6013	0.6411	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646
2006	0.2645	0.2854	0.3078	0.3318	0.3573	0.3839	0.4116	0.4403	0.4701	0.5012	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196
2007	0.5071	0.5471	0.5901	0.6360	0.6849	0.7359	0.7890	0.8440	0.9011	0.9608	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960
2008	0.2091	0.2256	0.2433	0.2623	0.2824	0.3035	0.3254	0.3481	0.3716	0.3962	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107
2009	0.2522	0.2721	0.2934	0.3163	0.3406	0.3660	0.3924	0.4197	0.4481	0.4778	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953
2010	0.1188	0.1282	0.1383	0.1490	0.1605	0.1724	0.1849	0.1978	0.2111	0.2251	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334
2011	0.2618	0.2824	0.3046	0.3283	0.3535	0.3799	0.4073	0.4356	0.4651	0.4960	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141
2012	0.2195	0.2368	0.2554	0.2753	0.2965	0.3186	0.3415	0.3654	0.3901	0.4159	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311
2013	0.4324	0.4664	0.5031	0.5422	0.5839	0.6274	0.6727	0.7196	0.7682	0.8192	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491
2014	0.4730	0.5103	0.5503	0.5932	0.6388	0.6864	0.7358	0.7872	0.8404	0.8961	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289
2015	0.3751	0.4046	0.4364	0.4704	0.5066	0.5443	0.5835	0.6242	0.6665	0.7106	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366
2016	0.4537	0.4894	0.5279	0.5690	0.6127	0.6584	0.7058	0.7550	0.8061	0.8596	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910
2017	0.3723	0.4017	0.4332	0.4670	0.5029	0.5403	0.5793	0.6197	0.6616	0.7055	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313
2018	0.2713	0.2927	0.3157	0.3403	0.3665	0.3938	0.4222	0.4516	0.4821	0.5141	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

Accepted Claim Counts (Excluding Deceased Claims) - Expected Remaining Alive by Maturity

**Adjusted q(x) (a)**

Year of Birth	Maturity (months) 1302:1314	Maturity (months) 1314:1326	Maturity (months) 1326:1338	Maturity (months) 1338:1350	Maturity (months) 1350:1362	Maturity (months) 1362:1374	Maturity (months) 1374:1386	Maturity (months) 1386:1398	Maturity (months) 1398:1410	Maturity (months) 1410:1422	Maturity (months) 1422:1434	Maturity (months) 1434:1446	Maturity (months) 1446:1458	Maturity (months) 1458:1470	Maturity (months) 1470:1482
1989	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	0.6649	1.0000	1.0000	
1990	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
1991	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	0.4013	1.0000	1.0000	
1992	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	0.4146	1.0000	1.0000	
1993	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	1.0000	1.0000	
1994	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	0.3499	1.0000	1.0000	
1995	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	0.3951	1.0000	1.0000	
1996	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	0.8202	1.0000	1.0000	
1997	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	0.3839	1.0000	1.0000	
1998	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	0.4695	1.0000	1.0000	
1999	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	0.7053	1.0000	1.0000	
2000	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	0.9547	1.0000	1.0000	
2001	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	0.4913	1.0000	1.0000	
2002	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	0.5971	1.0000	1.0000	
2003	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	0.9297	1.0000	1.0000	
2004	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	0.4422	1.0000	1.0000	
2005	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	0.6646	1.0000	1.0000	
2006	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	1.0000	1.0000	
2007	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	0.9960	1.0000	1.0000	
2008	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	0.4107	1.0000	1.0000	
2009	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	0.4953	1.0000	1.0000	
2010	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	0.2334	1.0000	1.0000	
2011	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	0.5141	1.0000	1.0000	
2012	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	0.4311	1.0000	1.0000	
2013	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	0.8491	1.0000	1.0000	
2014	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	0.9289	1.0000	1.0000	
2015	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	0.7366	1.0000	1.0000	
2016	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	0.8910	1.0000	1.0000	
2017	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	0.7313	1.0000	1.0000	
2018	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	0.5329	1.0000	1.0000	

Notes: (a) See Appendix E, Exhibit V, Sheets 1a, 1b, 2a, and 2b.

**Development of Average Incremental Payments Per Open Accepted Claim (AAA Only) - 2018 Cost Level (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989			270,689	151,486	169,322	140,350	78,333	76,010	63,808	93,718	61,836	64,806	290,928	66,490	96,072	95,634
1990		92,616	81,117	122,140	5,270	63,524	42,507	23,925	20,777	17,328	14,759	12,423	20,076	33,773	47,213	56,774
1991		315,244	14,093	62,749	129,923	103,033	34,755	31,786	13,840	16,129	36,333	34,620	44,125	39,637	37,190	44,700
1992		10,596	53,227	104,630	91,866	38,822	36,052	29,594	28,470	26,053	26,730	29,620	43,341	42,109	33,156	40,802
1993		6,154	56,543	97,201	77,806	105,218	122,823	87,243	84,004	102,013	97,453	77,058	86,345	101,954	92,965	84,329
1994		141,675	396,492	78,448	88,194	149,188	55,096	83,684	71,696	50,434	19,607	92,605	143,797	23,618	22,253	50,694
1995			64,567	122,350	93,737	15,479	43,583	20,228	35,799	43,873	64,384	180,646	61,342	114,585	13,493	99,067
1996		75,796	204,920	70,398	129,784	98,772	140,939	77,410	58,301	68,959	69,614	56,926	72,339	55,226	80,438	73,967
1997		10,711	119,096	54,099	46,313	107,844	74,049	57,420	36,283	48,813	38,164	65,037	62,858	94,341	65,512	68,962
1998		45,080	125,900	125,071	70,387	57,255	48,609	145,708	60,697	73,012	60,598	83,655	77,008	99,955	88,199	95,562
1999		286,185	204,215	94,861	125,771	72,569	68,634	68,809	183,890	106,085	107,264	103,098	120,589	118,461	91,698	137,740
2000		251,856	81,236	149,780	127,291	52,098	50,889	37,575	39,465	38,620	44,421	61,342	47,631	51,972	67,232	62,529
2001			195,446	525,165	136,471	132,430	283,316	114,167	83,874	71,635	89,578	77,032	105,474	115,690	129,404	125,166
2002		73,897	127,865	91,151	75,179	61,963	73,538	97,881	65,479	67,614	62,375	76,640	97,753	75,988	77,354	82,405
2003				79,173	50,233	186,904	166,672	54,515	71,972	100,970	99,151	101,435	161,995	123,738	125,859	119,576
2004		158,902	157,446	239,067	136,931	106,193	57,727	103,174	58,916	45,593	68,622	78,232	56,084	59,767	65,729	
2005		4,281	50,847	112,092	92,981	75,848	116,435	92,195	55,528	62,781	64,350	67,893	65,831	83,421		
2006		17,007	260,665	50,467	121,349	87,390	191,275	81,478	65,532	61,930	68,843	80,965	78,656			
2007			176,591	137,755	140,483	117,446	132,298	116,678	120,356	113,674	135,243	117,296				
2008		70,986	69,659	77,908	79,554	40,788	42,401	67,918	64,509	73,267	83,067					
2009		126,880	100,659	112,737	99,631	51,598	58,753	79,926	138,849	60,841						
2010		186,371	254,626	71,772	74,246	36,751	34,376	49,715	37,672							
2011		48,159	43,410	96,257	62,141	82,452	62,887	59,074								
2012		25,843	95,990	113,583	92,813	51,801	38,750									
2013		110,189	116,409	169,678	88,952	72,372										
2014		47,209	110,934	64,183	123,676											
2015		1,851	124,482	83,666												
2016			48,148													
2017		139,700														
2018	1,406															
Averages:																
Latest 3	2,276	161,024	105,299	95,546	105,386	70,644	48,727	65,543	88,878	80,374	91,643	88,044	69,007	83,600	81,326	96,533
Latest 5	2,276	101,353	106,313	98,325	90,328	61,039	49,608	75,609	89,305	73,305	83,587	87,757	86,938	84,260	85,257	97,734
Latest 10	1,592	99,584	106,893	95,361	98,123	71,959	89,842	82,863	78,076	69,189	79,731	83,925	83,969	86,354	78,134	88,505
All	796	113,325	120,868	106,469	94,705	79,276	81,443	75,758	68,069	65,642	65,360	74,373	86,068	77,118	70,311	79,829
Cumulative	85,093	85,211	84,620	82,802	80,918	79,693	79,733	79,559	79,961	81,280	83,130	85,298	86,690	86,774	88,151	90,857
<b>Selected</b>		<b>99,584</b>	<b>106,893</b>	<b>95,361</b>	<b>98,123</b>	<b>71,959</b>	<b>89,842</b>	<b>82,863</b>	<b>78,076</b>	<b>69,189</b>	<b>79,731</b>	<b>83,925</b>	<b>83,969</b>	<b>86,354</b>	<b>78,134</b>	<b>88,505</b>

Note (a): Ratio of 2018 level incremental payments (shown in Appendix E, Exhibit IV, Sheets 3a and 3b) and accepted reported claim counts (AAA only as shown in Appendix E, Exhibit IV, Sheets 2a and 2b).

**Development of Average Incremental Payments Per Open Accepted Claim (AAA Only) - 2018 Cost Level (a)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	98,931	97,826	87,951	72,390	50,646	53,351	76,991	84,933	95,395	120,531	128,098	118,303	118,257	92,829
1990	57,588	78,650	31,777	31,952	28,391	38,718	34,073	40,468	73,023	90,407	67,752	64,738	77,426	
1991	44,679	130,906	136,075	148,612	121,745	103,780	246,439	130,807	139,860	126,654	130,829	154,347		
1992	43,592	52,122	62,061	81,095	68,033	72,806	106,849	94,403	96,473	98,244	107,348			
1993	98,878	90,999	95,663	102,633	110,628	137,110	116,716	115,142	104,807	108,796				
1994	39,253	44,184	37,808	40,339	74,797	58,972	60,339	61,023	72,583					
1995	273,313	68,854	90,546	125,704	141,656	125,803	147,048	108,249						
1996	74,044	54,819	77,351	56,749	68,475	74,970	79,304							
1997	116,978	77,786	67,666	69,537	74,100	70,462								
1998	115,349	106,737	107,244	114,427	123,892									
1999	164,418	112,541	129,914	112,183										
2000	55,592	64,925	61,981											
2001	113,443	110,009												
2002	80,414													
2003														
2004														
2005														
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														
Averages:														
Latest 3	80,778	93,448	100,785	98,521	94,659	86,449	96,828	100,381	95,097	107,675	105,794			
Latest 5	100,499	94,484	89,198	95,147	99,233	95,977	104,618	102,644	98,227					
Latest 10	109,009	79,047	86,062	89,992										
All	95,636	82,841	83,255	88,698	89,454	84,289	107,884	93,996	97,810	108,105	111,104	116,926	100,758	92,829
Cumulative	92,642	92,105	93,731	95,792	97,359	99,432	103,634	102,325	105,360	108,877	109,385	107,815	97,875	92,829
<b>Selected</b>	<b>95,636</b>	<b>92,105</b>	<b>93,731</b>	<b>95,792</b>	<b>97,359</b>	<b>99,432</b>	<b>103,634</b>	<b>102,325</b>	<b>105,360</b>	<b>105,000</b>	<b>105,000</b>	<b>105,000</b>	<b>105,000</b>	<b>105,000</b>

Note (a): Ratio of 2018 level incremental payments (shown in Appendix E, Exhibit IV, Sheets 3a and 3b) and accepted reported claim counts (AAA only as shown in Appendix E, Exhibit IV, Sheets 2a and 2b).

**Accepted Reported Claim Counts - (Open Accepted Claims AAA Only)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989	-	-	4	8	8	9	8	8	8	8	8	7	6	6	5	5
1990	-	2	5	7	7	7	7	7	7	7	7	7	7	7	7	7
1991	-	1	1	3	4	4	4	4	4	4	4	4	4	4	4	4
1992	1	2	7	12	13	13	12	12	12	11	11	11	11	11	11	10
1993	-	2	9	11	11	11	11	11	11	11	11	11	11	11	10	9
1994	-	2	3	6	6	7	7	5	5	4	4	4	4	4	4	4
1995	-	-	5	6	6	6	6	5	5	5	5	5	5	5	5	5
1996	-	2	4	5	5	6	6	6	6	6	6	6	6	6	6	6
1997	-	2	8	8	7	8	9	9	9	9	9	9	9	9	9	9
1998	-	6	7	10	12	11	12	12	12	12	12	12	12	12	12	12
1999	-	3	3	5	7	8	8	7	7	7	7	7	7	6	6	5
2000	1	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2001	-	-	2	2	3	4	4	4	4	4	4	4	4	4	4	4
2002	-	4	6	11	12	14	15	15	15	15	15	15	14	14	14	13
2003	-	-	-	2	3	3	3	3	3	3	3	3	3	3	3	3
2004	-	1	3	3	4	5	5	5	5	5	5	5	5	5	5	5
2005	-	1	5	8	10	10	10	9	9	8	7	7	7	7	7	7
2006	-	2	2	7	9	10	10	10	10	10	10	9	9			
2007	-	-	4	7	8	8	8	8	8	8	7	7				
2008	-	2	6	8	9	9	10	10	10	10	9					
2009	-	4	6	9	9	10	10	10	10	10						
2010	-	2	3	6	6	6	5	5	5							
2011	-	2	7	10	11	10	10	10								
2012	-	2	4	7	7	7	7									
2013	1	3	6	7	8	8										
2014	-	6	10	12	12											
2015	-	2	6	12												
2016	-	-	3													
2017	-	3														
2018	1															
Totals:																
Latest 3	1	5	19	31	27	25	22	25	25	28	26	23	21	15	22	20
Latest 5	1	14	29	48	44	41	42	43	43	46	38	31	38	33	31	30
Latest 10	2	26	55	85	89	83	78	85	79	78	72	74	75	71	69	66
All	4	59	134	197	202	199	192	180	170	162	149	138	129	119	110	101
Cumulative	2,869	2,865	2,806	2,672	2,475	2,273	2,074	1,882	1,702	1,532	1,370	1,221	1,083	954	835	725

**Accepted Reported Claim Counts - (Open Accepted Claims AAA Only)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	5	5	5	5	5	5	5	5	5	5	5	5	4	4
1990	6	4	4	4	4	4	4	4	4	3	3	3	3	
1991	4	4	4	4	4	4	4	4	4	4	4	4		
1992	10	10	9	9	9	9	9	9	9	9	9			
1993	8	8	8	8	8	8	8	8	8	8				
1994	4	4	4	4	4	4	4	4	4					
1995	5	5	5	5	5	5	5	5						
1996	6	6	6	6	6	6	6							
1997	9	8	8	8	8	8								
1998	12	12	12	12	11									
1999	4	4	4	3										
2000	5	5	5											
2001	4	4												
2002	13													
2003														
2004														
2005														
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														
Totals:														
Latest 3	22	13	21	23	25	19	15	17	21	21	16			
Latest 5	38	33	35	34	34	31	32	30	29					
Latest 10	70	66	65	63										
All	95	79	74	68	64	53	45	39	34	29	21	12	7	4
Cumulative	624	529	450	376	308	244	191	146	107	73	44	23	11	4

**Incremental Payments - 2018 Level (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989			1,082,758	1,211,887	1,354,579	1,263,149	626,667	608,079	510,462	749,744	494,690	453,639	1,745,570	398,938	480,360	478,170
1990		185,232	405,586	854,981	36,888	444,669	297,547	167,477	145,438	121,298	103,314	86,963	140,531	236,412	330,494	397,416
1991	0	315,244	14,093	188,248	519,691	412,133	139,019	127,145	55,360	64,516	145,331	138,478	176,499	158,549	148,762	178,801
1992	0	21,192	372,590	1,255,563	1,194,253	504,681	432,626	355,128	341,641	286,588	294,035	325,821	476,747	463,198	364,719	408,018
1993	0	12,308	508,891	1,069,212	855,868	1,157,393	1,351,057	959,670	924,049	1,122,138	1,071,987	847,643	949,797	1,121,493	929,652	758,960
1994	0	283,350	1,189,477	470,685	529,162	1,044,317	385,674	418,420	358,480	201,734	78,428	370,421	575,189	94,472	89,010	202,774
1995	0	5,632	322,833	734,100	562,421	92,877	261,497	101,142	178,996	219,363	321,922	903,230	306,708	572,927	67,467	495,333
1996	0	151,592	819,681	351,989	648,919	592,632	845,635	464,462	349,806	413,754	417,685	341,559	434,035	331,355	482,631	443,801
1997	0	21,421	952,771	432,790	324,189	862,750	666,442	516,778	326,551	439,315	343,479	585,330	565,719	849,067	589,610	620,661
1998	0	270,482	881,301	1,250,706	844,645	629,809	583,312	1,748,491	728,365	876,147	727,173	1,003,860	924,091	1,199,460	1,058,384	1,146,747
1999	0	858,556	612,646	474,306	880,399	580,549	549,069	481,665	1,287,228	742,597	750,849	721,685	844,120	710,764	550,189	688,701
2000	0	755,569	406,179	748,900	636,456	260,489	254,443	187,877	197,326	193,099	222,105	306,712	238,155	259,859	336,162	312,645
2001	0	304,035	390,892	1,050,329	409,414	529,720	1,133,266	456,667	335,495	286,541	358,311	308,127	421,894	462,760	517,616	500,666
2002	0	295,587	767,187	1,002,658	902,149	867,482	1,103,073	1,468,222	982,183	1,014,204	935,628	1,149,601	1,368,538	1,063,839	1,082,957	1,071,269
2003	0	278,799	342,418	158,345	150,700	560,713	500,017	163,546	215,917	302,909	297,454	304,304	485,984	371,215	377,576	358,727
2004	0	158,902	472,339	717,201	547,724	530,963	288,634	515,872	294,581	227,965	343,109	391,161	280,420	298,835	328,647	
2005	0	4,281	254,234	896,736	929,813	758,477	1,164,348	829,756	499,748	502,248	450,451	475,253	460,818	583,944		
2006	0	34,015	521,330	353,272	1,092,140	873,895	1,912,746	814,785	655,317	619,296	688,426	728,681	707,902			
2007	0	140,831	706,363	964,288	1,123,860	939,564	1,058,382	933,425	962,852	909,395	946,702	821,073				
2008	0	141,973	417,952	623,262	715,989	367,088	424,015	679,185	645,090	732,669	747,603					
2009	0	507,519	603,952	1,014,636	896,677	515,983	587,531	799,258	1,388,492	608,412						
2010	0	372,742	763,878	430,632	445,476	220,505	171,878	248,573	188,361							
2011	849	96,317	303,868	962,568	683,555	824,522	628,872	590,744								
2012	60	51,686	383,961	795,080	649,693	362,606	271,252									
2013	0	330,567	698,453	1,187,743	711,615	578,979										
2014	0	283,251	1,109,335	770,197	1,484,111											
2015	0	3,701	746,893	1,003,996												
2016	870	382,319	144,445													
2017	0	419,099														
2018	1,406															
Totals:																
Latest 3	2,276	805,120	2,000,673	2,961,936	2,845,419	1,766,107	1,072,002	1,638,575	2,221,943	2,250,476	2,382,730	2,025,006	1,449,140	1,253,995	1,789,180	1,930,661
Latest 5	2,276	1,418,938	3,083,087	4,719,584	3,974,450	2,502,594	2,083,548	3,251,185	3,840,112	3,372,019	3,176,290	2,720,470	3,303,662	2,780,593	2,642,959	2,932,007
Latest 10	3,185	2,589,175	5,879,100	8,105,675	8,732,930	5,972,583	7,007,674	7,043,365	6,168,035	5,396,738	5,740,636	6,210,455	6,297,640	6,131,099	5,391,239	5,841,324
All	3,185	6,686,204	16,196,303	20,974,311	19,130,384	15,775,945	15,637,003	13,636,366	11,571,737	10,633,932	9,738,681	10,263,539	11,102,716	9,177,088	7,734,235	8,062,688
Cumulative	244,133,086	244,129,902	237,443,698	221,247,395	200,273,084	181,142,700	165,366,754	149,729,752	136,093,386	124,521,649	113,887,717	104,149,036	93,885,497	82,782,781	73,605,693	65,871,458

Notes: (a) The product of actual incremental payments (shown in Appendix E, Exhibit IV, Sheets 5a and 5b) and adjustment factors to 2018 level (shown in Appendix E, Exhibit IV, Sheets 4a and 4b).



**Incremental Payments - 2018 Level (a)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	494,655	489,129	439,754	361,948	253,231	266,755	384,953	424,666	476,973	602,655	640,488	591,515	473,030	371,315
1990	345,529	314,600	127,107	127,808	113,564	154,871	136,291	161,871	292,091	271,222	203,257	194,215	232,277	
1991	178,717	523,626	544,300	594,446	486,982	415,121	985,757	523,227	559,441	506,614	523,316	617,387		
1992	435,923	521,221	558,547	729,854	612,294	655,251	961,637	849,626	868,253	884,194	966,129			
1993	791,022	727,994	765,307	821,066	885,027	1,096,878	933,726	921,136	838,454	870,371				
1994	157,012	176,735	151,231	161,354	299,188	235,887	241,355	244,093	290,333					
1995	1,366,566	344,271	452,731	628,522	708,278	629,013	735,238	541,243						
1996	444,266	328,915	464,105	340,497	410,850	449,821	475,825							
1997	1,052,802	622,291	541,330	556,295	592,804	563,696								
1998	1,384,183	1,280,844	1,286,927	1,373,128	1,362,817									
1999	657,671	450,163	519,657	336,549										
2000	277,959	324,624	309,905											
2001	453,772	440,035												
2002	1,045,377													
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Totals:														
Latest 3	1,777,108	1,214,822	2,116,488	2,265,972	2,366,471	1,642,531	1,452,418	1,706,472	1,997,039	2,261,178	1,692,703			
Latest 5	3,818,962	3,117,957	3,121,923	3,234,990	3,373,938	2,975,296	3,347,781	3,079,324	2,848,571					
Latest 10	7,630,630	5,217,092	5,594,038	5,669,518										
All	9,085,454	6,544,446	6,160,899	6,031,466	5,725,035	4,467,294	4,854,782	3,665,862	3,325,544	3,135,055	2,333,191	1,403,117	705,307	371,315
Cumulative	57,808,769	48,723,315	42,178,869	36,017,970	29,986,503	24,261,468	19,794,174	14,939,392	11,273,530	7,947,986	4,812,931	2,479,740	1,076,623	371,315

Notes: (a) The product of actual incremental payments (shown in Appendix E, Exhibit IV, Sheets 5a and 5b) and adjustment factors to 2018 level (shown in Appendix E, Exhibit IV, Sheets 4a and 4b).

**Adjustment Factors to 2018 Level (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989	1.517	1.491	1.468	1.446	1.424	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265
1990	1.491	1.468	1.446	1.424	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247
1991	1.468	1.446	1.424	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233
1992	1.446	1.424	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219
1993	1.424	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206
1994	1.404	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062
1995	1.388	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053
1996	1.374	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044
1997	1.360	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035
1998	1.348	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028
1999	1.335	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022
2000	1.322	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017
2001	1.309	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012
2002	1.294	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005
2003	1.280	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000
2004	1.265	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000	
2005	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000		
2006	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000			
2007	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000				
2008	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000					
2009	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000						
2010	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000							
2011	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000								
2012	1.035	1.028	1.022	1.017	1.012	1.005	1.000									
2013	1.028	1.022	1.017	1.012	1.005	1.000										
2014	1.022	1.017	1.012	1.005	1.000											
2015	1.017	1.012	1.005	1.000												
2016	1.012	1.005	1.000													
2017	1.005	1.000														
2018	1.000															

Notes: (a) See Appendix E, Exhibit II, Sheet 3, Column (3).

**Adjustment Factors to 2018 Level (a)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	1.247	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000
1990	1.233	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000	
1991	1.219	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000		
1992	1.206	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000			
1993	1.062	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000				
1994	1.053	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000					
1995	1.044	1.035	1.028	1.022	1.017	1.012	1.005	1.000						
1996	1.035	1.028	1.022	1.017	1.012	1.005	1.000							
1997	1.028	1.022	1.017	1.012	1.005	1.000								
1998	1.022	1.017	1.012	1.005	1.000									
1999	1.017	1.012	1.005	1.000										
2000	1.012	1.005	1.000											
2001	1.005	1.000												
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Notes: (a) See Appendix E, Exhibit II, Sheet 3, Column (3).

**Actual Incremental Payments (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989			737,761	837,922	950,993	899,739	451,505	442,693	375,340	556,331	370,541	343,093	1,333,545	308,222	375,217	377,990
1990		126,212	280,430	600,246	26,275	320,378	216,620	123,145	107,919	90,857	78,138	66,436	108,575	184,665	261,253	318,589
1991	0	217,966	9,894	134,089	374,430	300,041	102,220	94,345	41,467	48,794	111,027	106,989	137,866	125,332	119,255	145,052
1992	0	14,878	265,395	904,616	869,439	371,089	321,021	266,004	258,387	218,942	227,173	254,504	376,865	371,323	295,877	334,824
1993	0	8,767	366,649	778,407	629,315	858,818	1,011,991	725,810	705,936	866,971	837,347	670,056	761,406	909,807	762,883	629,226
1994	0	204,150	865,962	346,092	392,653	782,232	291,690	319,656	276,964	157,578	61,997	296,948	466,620	77,525	73,795	190,909
1995	0	4,100	237,377	544,723	421,274	70,244	199,773	78,143	139,817	173,405	258,069	732,742	251,688	474,993	63,519	470,359
1996	0	111,465	608,226	263,653	490,785	452,747	653,343	362,799	276,519	331,686	338,845	280,287	359,843	311,966	458,297	425,175
1997	0	15,895	713,660	327,324	247,667	666,566	520,569	408,509	261,780	356,393	281,863	485,276	532,616	806,259	564,865	599,896
1998	0	202,601	666,539	955,489	652,578	491,954	461,104	1,401,680	590,883	718,976	602,873	945,119	877,499	1,149,120	1,022,975	1,115,848
1999	0	649,336	468,037	366,452	687,694	458,920	440,162	390,749	1,056,314	615,660	706,913	685,298	808,693	686,985	535,364	673,896
2000	0	577,224	313,816	584,978	503,114	208,821	206,416	154,174	163,596	181,800	210,907	293,840	230,187	252,857	328,936	307,376
2001	0	234,899	305,332	830,278	328,207	429,733	929,971	378,606	315,863	272,094	343,273	297,819	410,526	452,812	508,892	494,590
2002	0	230,888	606,456	803,782	731,865	711,866	914,518	1,382,309	932,663	971,639	904,326	1,118,625	1,339,120	1,045,908	1,069,815	1,066,311
2003	0	220,389	274,500	128,457	123,666	464,867	470,758	155,300	206,855	292,775	289,439	297,763	477,793	366,711	375,829	358,727
2004	0	127,384	383,183	588,543	454,098	499,894	274,082	494,221	284,726	221,823	335,733	384,568	277,017	297,452	328,647	
2005	0	3,473	208,627	743,451	875,405	720,236	1,115,481	801,996	486,282	491,451	442,859	469,485	458,686	583,944		
2006	0	27,913	432,216	332,600	1,037,076	837,219	1,848,754	792,830	641,230	608,858	680,071	725,309	707,902			
2007	0	116,758	665,030	915,670	1,076,693	908,131	1,029,864	913,360	946,623	898,359	942,321	821,073				
2008	0	133,665	396,880	597,104	692,035	357,197	414,900	667,738	637,262	729,278	747,603					
2009	0	481,931	578,604	980,691	872,516	504,891	577,629	789,559	1,382,067	608,412						
2010	0	357,099	738,322	419,029	435,900	216,788	169,792	247,423	188,361							
2011	813	93,095	295,681	941,877	672,034	814,516	625,962	590,744								
2012	58	50,293	375,708	781,679	641,809	360,928	271,252									
2013	0	323,461	686,681	1,173,329	708,322	578,979										
2014	0	278,477	1,095,873	766,633	1,484,111											
2015	0	3,657	743,436	1,003,996												
2016	859	380,550	144,445													
2017	0	419,099														
2018	1,406															
Totals:																
Latest 3	2,266	803,306	1,983,754	2,943,958	2,834,242	1,754,423	1,067,006	1,627,725	2,207,689	2,236,049	2,369,995	2,015,867	1,443,605	1,248,107	1,774,291	1,919,628
Latest 5	2,266	1,405,244	3,046,142	4,667,514	3,942,175	2,476,102	2,059,535	3,208,823	3,795,543	3,336,358	3,148,587	2,698,197	3,260,517	2,746,827	2,612,119	2,900,900
Latest 10	3,136	2,521,327	5,720,659	7,912,609	8,495,901	5,798,779	6,798,474	6,835,479	6,021,931	5,276,489	5,603,444	6,038,897	6,120,039	5,954,014	5,257,139	5,703,088
All	3,136	5,615,625	13,464,719	17,651,111	16,379,954	13,286,794	13,519,377	11,981,792	10,276,853	9,412,082	8,771,317	9,275,228	9,916,447	8,405,881	7,145,419	7,508,769

Note: (a) See actual payments as shown in Appendix E, Exhibit IV, Sheets 6a and 6b.

**Actual Incremental Payments (a)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	396,541	396,804	360,867	300,078	238,413	253,306	368,797	410,459	464,121	589,700	629,693	584,337	470,841	371,315
1990	280,309	258,164	105,380	120,329	107,838	148,371	131,731	157,510	285,812	266,651	200,791	193,316	232,277	
1991	146,657	434,119	512,450	564,475	466,543	401,233	959,196	511,979	550,012	500,466	520,895	617,387		
1992	361,408	490,722	530,386	699,223	591,809	637,595	940,966	835,306	857,717	880,102	966,129			
1993	744,735	691,289	733,188	793,597	861,180	1,073,300	917,989	909,958	834,573	870,371				
1994	149,095	169,318	146,171	157,007	292,757	231,911	238,426	242,963	290,333					
1995	1,309,213	332,753	440,532	615,011	696,341	621,380	731,835	541,243						
1996	429,403	320,052	454,128	334,758	405,865	447,740	475,825							
1997	1,024,434	608,914	532,206	549,544	590,060	563,696								
1998	1,354,429	1,259,256	1,271,309	1,366,774	1,362,817									
1999	646,586	444,700	517,252	336,549										
2000	274,586	323,122	309,905											
2001	451,672	440,035												
2002	1,045,377													
2003														
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2014														
2015														
2016														
2017														
2018														
Totals:														
Latest 3	1,771,635	1,207,857	2,098,466	2,252,867	2,358,742	1,632,816	1,446,087	1,694,164	1,982,623	2,250,939	1,687,814			
Latest 5	3,772,650	3,076,027	3,084,800	3,202,635	3,347,840	2,938,027	3,305,041	3,041,449	2,818,446					
Latest 10	7,429,530	5,080,161	5,447,528	5,537,266										
All	8,614,445	6,169,248	5,913,775	5,837,344	5,613,624	4,378,532	4,764,765	3,609,418	3,282,567	3,107,289	2,317,507	1,395,040	703,118	371,315

Note: (a) See actual payments as shown in Appendix E, Exhibit IV, Sheets 6a and 6b.

**Paid Loss & ALAE - Actual (a)**

Year of Birth	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186
1989			737,761	1,575,683	2,526,676	3,426,415	3,877,920	4,320,613	4,695,953	5,252,284	5,622,825	5,965,918	7,299,463	7,607,685	7,982,902	8,360,892
1990		126,212	406,642	1,006,888	1,033,163	1,353,541	1,570,161	1,693,306	1,801,225	1,892,082	1,970,220	2,036,656	2,145,231	2,329,896	2,591,149	2,909,738
1991	0	217,966	227,860	361,949	736,379	1,036,420	1,138,640	1,232,985	1,274,452	1,323,246	1,434,273	1,541,262	1,679,128	1,804,460	1,923,715	2,068,767
1992	0	14,878	280,273	1,184,889	2,054,328	2,425,417	2,746,438	3,012,442	3,270,829	3,489,771	3,716,944	3,971,448	4,348,313	4,719,636	5,015,513	5,350,337
1993	0	8,767	375,416	1,153,823	1,783,138	2,641,956	3,653,947	4,379,757	5,085,693	5,952,664	6,790,011	7,460,067	8,221,473	9,131,280	9,894,163	10,523,389
1994	0	204,150	1,070,112	1,416,204	1,808,857	2,591,089	2,882,779	3,202,435	3,479,399	3,636,977	3,698,974	3,995,922	4,462,542	4,540,067	4,613,862	4,804,771
1995	0	4,100	241,477	786,200	1,207,474	1,277,718	1,477,491	1,555,634	1,695,451	1,868,856	2,126,925	2,859,667	3,111,355	3,586,348	3,649,867	4,120,226
1996	0	111,465	719,691	983,344	1,474,129	1,926,876	2,580,219	2,943,018	3,219,537	3,551,223	3,890,068	4,170,355	4,530,198	4,842,164	5,300,461	5,725,637
1997	0	15,895	729,555	1,056,879	1,304,546	1,971,112	2,491,681	2,900,190	3,161,970	3,518,363	3,800,226	4,285,502	4,818,118	5,624,377	6,189,241	6,789,138
1998	0	202,601	869,140	1,824,629	2,477,207	2,969,161	3,430,265	4,831,945	5,422,828	6,141,804	6,744,677	7,689,796	8,567,295	9,716,416	10,739,391	11,855,239
1999	0	649,336	1,117,373	1,483,825	2,171,519	2,630,439	3,070,601	3,461,350	4,517,664	5,133,324	5,840,237	6,525,535	7,334,228	8,021,213	8,556,577	9,230,473
2000	0	577,224	891,040	1,476,018	1,979,132	2,187,953	2,394,369	2,548,543	2,712,139	2,893,939	3,104,846	3,398,686	3,628,873	3,881,730	4,210,666	4,518,042
2001	0	234,899	540,231	1,370,509	1,698,716	2,128,449	3,058,420	3,437,026	3,752,889	4,024,983	4,368,255	4,666,074	5,076,601	5,529,413	6,038,305	6,532,895
2002	0	230,888	837,344	1,641,126	2,372,991	3,084,857	3,999,375	5,381,684	6,314,347	7,285,986	8,190,312	9,308,936	10,648,056	11,693,965	12,763,780	13,830,091
2003	0	220,389	494,889	623,346	747,012	1,211,879	1,682,637	1,837,937	2,044,792	2,337,568	2,627,007	2,924,769	3,402,562	3,769,273	4,145,102	4,503,829
2004	0	127,384	510,567	1,099,110	1,553,208	2,053,102	2,327,184	2,821,405	3,106,130	3,327,953	3,663,687	4,048,254	4,325,271	4,622,723	4,951,370	
2005	0	3,473	212,100	955,551	1,830,956	2,551,192	3,666,673	4,468,669	4,954,951	5,446,402	5,889,261	6,358,746	6,817,432	7,401,376		
2006	0	27,913	460,129	792,729	1,829,805	2,667,024	4,515,777	5,308,608	5,949,838	6,558,696	7,238,767	7,964,076	8,671,977			
2007	0	116,758	781,788	1,697,458	2,774,151	3,682,281	4,712,146	5,625,506	6,572,129	7,470,488	8,412,808	9,233,881				
2008	0	133,665	530,545	1,127,649	1,819,684	2,176,881	2,591,781	3,259,519	3,896,781	4,626,059	5,373,662					
2009	0	481,931	1,060,536	2,041,227	2,913,743	3,418,634	3,996,263	4,785,821	6,167,888	6,776,300						
2010	0	357,099	1,095,421	1,514,450	1,950,349	2,167,137	2,336,930	2,584,353	2,772,713							
2011	813	93,908	389,589	1,331,465	2,003,499	2,818,015	3,443,977	4,034,720								
2012	58	50,351	426,059	1,207,738	1,849,547	2,210,475	2,481,727									
2013	0	323,461	1,010,142	2,183,471	2,891,793	3,470,772										
2014	0	278,477	1,374,350	2,140,983	3,625,094											
2015	0	3,657	747,093	1,751,089												
2016	859	381,409	525,854													
2017	0	419,099														
2018	1,406															

Note: (a) See Exhibit IX, Sheets 6a, 6b, and 6c.

**Paid Loss & ALAE - Actual (a)**

Year of Birth	198	210	222	234	246	258	270	282	294	306	318	330	342	354
1989	8,757,433	9,154,237	9,515,104	9,815,182	10,053,595	10,306,901	10,675,697	11,086,156	11,550,277	12,139,977	12,769,670	13,354,007	13,824,848	14,196,163
1990	3,190,047	3,448,211	3,553,591	3,673,920	3,781,758	3,930,129	4,061,860	4,219,370	4,505,182	4,771,833	4,972,624	5,165,940	5,398,218	
1991	2,215,424	2,649,543	3,161,993	3,726,468	4,193,012	4,594,245	5,553,441	6,065,420	6,615,431	7,115,897	7,636,792	8,254,179		
1992	5,711,745	6,202,467	6,732,853	7,432,076	8,023,885	8,661,480	9,602,446	10,437,752	11,295,468	12,175,570	13,141,699			
1993	11,268,124	11,959,413	12,692,601	13,486,198	14,347,378	15,420,678	16,338,666	17,248,624	18,083,197	18,953,568				
1994	4,953,866	5,123,184	5,269,355	5,426,362	5,719,119	5,951,030	6,189,456	6,432,420	6,722,752					
1995	5,429,439	5,762,192	6,202,724	6,817,735	7,514,076	8,135,456	8,867,291	9,408,534						
1996	6,155,040	6,475,092	6,929,220	7,263,978	7,669,842	8,117,582	8,593,407							
1997	7,813,572	8,422,486	8,954,692	9,504,236	10,094,296	10,657,992								
1998	13,209,667	14,468,923	15,740,233	17,107,006	18,469,823									
1999	9,877,059	10,321,759	10,839,011	11,175,560										
2000	4,792,628	5,115,749	5,425,655											
2001	6,984,567	7,424,602												
2002	14,875,468													
2003														
2004														
2005														
2006														
2007														
2008														
2009														
2010														
2011														
2012														
2013														
2014														
2015														
2016														
2017														
2018														

Note: (a) See Exhibit IX, Sheets 6a, 6b, and 6c.

Adjusted q(x) (a)

Time (Year)	Adjusted q(x) BY 2005	Adjusted q(x) BY 2006	Adjusted q(x) BY 2007	Adjusted q(x) BY 2008	Adjusted q(x) BY 2009	Adjusted q(x) BY 2010	Adjusted q(x) BY 2011	Adjusted q(x) BY 2012	Adjusted q(x) BY 2013	Adjusted q(x) BY 2014	Adjusted q(x) BY 2015	Adjusted q(x) BY 2016	Adjusted q(x) BY 2017	Adjusted q(x) BY 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
0	0.0139	0.0106	0.0200	0.0081	0.0097	0.0045	0.0098	0.0081	0.0157	0.0170	0.0133	0.0292	0.0323	0.1736
1	0.0142	0.0108	0.0203	0.0082	0.0098	0.0045	0.0099	0.0082	0.0159	0.0172	0.0134	0.0161	0.0239	0.0235
2	0.0145	0.0111	0.0208	0.0084	0.0099	0.0046	0.0100	0.0083	0.0161	0.0174	0.0136	0.0163	0.0132	0.0174
3	0.0148	0.0113	0.0212	0.0086	0.0101	0.0047	0.0102	0.0084	0.0163	0.0176	0.0138	0.0165	0.0133	0.0096
4	0.0151	0.0116	0.0217	0.0087	0.0103	0.0048	0.0103	0.0085	0.0166	0.0179	0.0140	0.0167	0.0135	0.0097
5	0.0154	0.0118	0.0222	0.0089	0.0106	0.0049	0.0105	0.0087	0.0168	0.0181	0.0142	0.0169	0.0137	0.0098
6	0.0157	0.0120	0.0226	0.0091	0.0108	0.0050	0.0107	0.0088	0.0170	0.0184	0.0144	0.0171	0.0139	0.0100
7	0.0160	0.0123	0.0231	0.0093	0.0110	0.0051	0.0110	0.0090	0.0173	0.0186	0.0146	0.0174	0.0141	0.0101
8	0.0163	0.0125	0.0235	0.0095	0.0113	0.0052	0.0112	0.0092	0.0177	0.0190	0.0148	0.0176	0.0143	0.0102
9	0.0166	0.0127	0.0239	0.0097	0.0115	0.0053	0.0114	0.0094	0.0181	0.0194	0.0150	0.0179	0.0145	0.0104
10	0.0169	0.0130	0.0244	0.0099	0.0117	0.0054	0.0117	0.0096	0.0185	0.0198	0.0154	0.0182	0.0147	0.0105
11	0.0172	0.0132	0.0248	0.0101	0.0119	0.0055	0.0119	0.0098	0.0189	0.0202	0.0157	0.0186	0.0149	0.0107
12	0.0175	0.0134	0.0253	0.0102	0.0121	0.0056	0.0121	0.0100	0.0193	0.0207	0.0160	0.0190	0.0152	0.0109
13	0.0178	0.0137	0.0257	0.0104	0.0124	0.0057	0.0124	0.0102	0.0197	0.0211	0.0164	0.0194	0.0156	0.0111
14	0.0182	0.0139	0.0262	0.0106	0.0126	0.0058	0.0126	0.0104	0.0200	0.0215	0.0167	0.0198	0.0159	0.0114
15	0.0185	0.0142	0.0267	0.0108	0.0128	0.0059	0.0128	0.0106	0.0204	0.0219	0.0171	0.0203	0.0163	0.0116
16	0.0189	0.0145	0.0272	0.0110	0.0130	0.0060	0.0131	0.0108	0.0208	0.0223	0.0174	0.0207	0.0166	0.0119
17	0.0194	0.0148	0.0278	0.0112	0.0133	0.0061	0.0133	0.0109	0.0212	0.0227	0.0177	0.0210	0.0170	0.0121
18	0.0198	0.0151	0.0284	0.0115	0.0135	0.0063	0.0135	0.0111	0.0216	0.0232	0.0180	0.0214	0.0173	0.0124
19	0.0202	0.0155	0.0290	0.0117	0.0138	0.0064	0.0138	0.0113	0.0219	0.0236	0.0184	0.0218	0.0176	0.0126
20	0.0207	0.0158	0.0297	0.0120	0.0141	0.0065	0.0140	0.0116	0.0223	0.0240	0.0187	0.0222	0.0179	0.0128
21	0.0212	0.0162	0.0303	0.0122	0.0144	0.0067	0.0143	0.0118	0.0228	0.0244	0.0190	0.0226	0.0182	0.0130
22	0.0217	0.0166	0.0310	0.0125	0.0148	0.0068	0.0147	0.0120	0.0232	0.0249	0.0194	0.0230	0.0186	0.0133
23	0.0222	0.0169	0.0317	0.0128	0.0151	0.0069	0.0150	0.0123	0.0237	0.0254	0.0197	0.0234	0.0189	0.0135
24	0.0227	0.0174	0.0325	0.0131	0.0154	0.0071	0.0153	0.0126	0.0242	0.0259	0.0201	0.0239	0.0192	0.0138
25	0.0233	0.0178	0.0333	0.0134	0.0158	0.0073	0.0157	0.0128	0.0247	0.0265	0.0205	0.0243	0.0196	0.0140
26	0.0239	0.0182	0.0341	0.0137	0.0162	0.0074	0.0160	0.0131	0.0253	0.0271	0.0210	0.0249	0.0200	0.0143
27	0.0245	0.0187	0.0349	0.0141	0.0165	0.0076	0.0164	0.0134	0.0259	0.0277	0.0215	0.0254	0.0204	0.0146
28	0.0252	0.0192	0.0358	0.0144	0.0170	0.0078	0.0168	0.0137	0.0264	0.0283	0.0219	0.0260	0.0208	0.0149
29	0.0259	0.0197	0.0368	0.0148	0.0174	0.0080	0.0172	0.0141	0.0271	0.0289	0.0224	0.0265	0.0213	0.0152
30	0.0267	0.0203	0.0378	0.0152	0.0178	0.0082	0.0176	0.0144	0.0277	0.0296	0.0229	0.0271	0.0218	0.0155
31	0.0275	0.0209	0.0388	0.0156	0.0183	0.0084	0.0180	0.0148	0.0284	0.0303	0.0235	0.0277	0.0223	0.0159
32	0.0284	0.0215	0.0400	0.0160	0.0188	0.0086	0.0185	0.0151	0.0291	0.0310	0.0240	0.0284	0.0228	0.0162
33	0.0293	0.0222	0.0412	0.0165	0.0193	0.0089	0.0190	0.0155	0.0298	0.0318	0.0246	0.0291	0.0233	0.0166
34	0.0303	0.0229	0.0425	0.0170	0.0199	0.0091	0.0195	0.0159	0.0305	0.0326	0.0252	0.0298	0.0238	0.0170
35	0.0313	0.0237	0.0439	0.0175	0.0205	0.0094	0.0201	0.0164	0.0314	0.0334	0.0258	0.0305	0.0244	0.0174
36	0.0325	0.0245	0.0454	0.0181	0.0211	0.0097	0.0206	0.0168	0.0322	0.0343	0.0265	0.0313	0.0250	0.0178
37	0.0337	0.0254	0.0470	0.0187	0.0218	0.0100	0.0213	0.0173	0.0331	0.0352	0.0272	0.0321	0.0257	0.0182
38	0.0350	0.0264	0.0487	0.0194	0.0226	0.0103	0.0219	0.0178	0.0341	0.0362	0.0279	0.0329	0.0263	0.0187
39	0.0364	0.0274	0.0505	0.0201	0.0234	0.0106	0.0227	0.0184	0.0351	0.0373	0.0287	0.0338	0.0270	0.0192
40	0.0379	0.0285	0.0525	0.0208	0.0242	0.0110	0.0234	0.0190	0.0362	0.0384	0.0296	0.0348	0.0277	0.0197
41	0.0394	0.0296	0.0545	0.0216	0.0251	0.0114	0.0242	0.0196	0.0374	0.0396	0.0305	0.0358	0.0285	0.0202
42	0.0411	0.0308	0.0567	0.0225	0.0261	0.0118	0.0251	0.0203	0.0387	0.0409	0.0314	0.0369	0.0294	0.0208
43	0.0428	0.0321	0.0591	0.0234	0.0271	0.0123	0.0261	0.0211	0.0400	0.0423	0.0325	0.0380	0.0303	0.0214
44	0.0447	0.0335	0.0615	0.0244	0.0282	0.0128	0.0271	0.0219	0.0415	0.0438	0.0336	0.0393	0.0312	0.0220
45	0.0468	0.0350	0.0642	0.0254	0.0294	0.0133	0.0282	0.0227	0.0431	0.0454	0.0347	0.0406	0.0322	0.0227
46	0.0489	0.0366	0.0671	0.0265	0.0306	0.0138	0.0293	0.0236	0.0447	0.0471	0.0360	0.0420	0.0333	0.0235
47	0.0513	0.0383	0.0701	0.0277	0.0319	0.0144	0.0305	0.0246	0.0465	0.0489	0.0374	0.0436	0.0345	0.0243
48	0.0537	0.0401	0.0733	0.0289	0.0334	0.0150	0.0318	0.0256	0.0484	0.0509	0.0388	0.0452	0.0357	0.0251
49	0.0564	0.0420	0.0768	0.0302	0.0349	0.0157	0.0331	0.0266	0.0503	0.0529	0.0403	0.0469	0.0371	0.0261
50	0.0593	0.0441	0.0806	0.0317	0.0365	0.0164	0.0346	0.0278	0.0525	0.0551	0.0420	0.0488	0.0385	0.0270
51	0.0624	0.0464	0.0846	0.0332	0.0382	0.0172	0.0362	0.0290	0.0547	0.0574	0.0437	0.0508	0.0401	0.0281
52	0.0658	0.0488	0.0889	0.0349	0.0401	0.0180	0.0379	0.0303	0.0572	0.0599	0.0455	0.0528	0.0417	0.0292
53	0.0694	0.0514	0.0936	0.0367	0.0421	0.0189	0.0397	0.0317	0.0598	0.0625	0.0475	0.0551	0.0434	0.0304
54	0.0732	0.0543	0.0986	0.0386	0.0442	0.0198	0.0416	0.0333	0.0625	0.0654	0.0496	0.0574	0.0452	0.0316
55	0.0772	0.0572	0.1040	0.0407	0.0465	0.0208	0.0437	0.0349	0.0655	0.0684	0.0518	0.0600	0.0471	0.0329
56	0.0814	0.0603	0.1097	0.0429	0.0490	0.0219	0.0459	0.0366	0.0687	0.0716	0.0542	0.0627	0.0492	0.0344
57	0.0861	0.0637	0.1157	0.0452	0.0517	0.0231	0.0483	0.0385	0.0721	0.0751	0.0568	0.0656	0.0515	0.0359
58	0.0911	0.0673	0.1221	0.0477	0.0546	0.0244	0.0509	0.0405	0.0758	0.0789	0.0596	0.0687	0.0538	0.0375
59	0.0966	0.0712	0.1290	0.0503	0.0575	0.0257	0.0537	0.0427	0.0798	0.0829	0.0626	0.0721	0.0564	0.0392
60	0.1026	0.0755	0.1365	0.0532	0.0607	0.0271	0.0566	0.0450	0.0841	0.0873	0.0658	0.0757	0.0591	0.0411

Note: (a) Assumed mortality rates by birth year are based on selected life expectancy as shown in Appendix E, Exhibit VII, Column (9).



Adjusted q(x) (a)

Time (Year)	Adjusted q(x) BY 2005	Adjusted q(x) BY 2006	Adjusted q(x) BY 2007	Adjusted q(x) BY 2008	Adjusted q(x) BY 2009	Adjusted q(x) BY 2010	Adjusted q(x) BY 2011	Adjusted q(x) BY 2012	Adjusted q(x) BY 2013	Adjusted q(x) BY 2014	Adjusted q(x) BY 2015	Adjusted q(x) BY 2016	Adjusted q(x) BY 2017	Adjusted q(x) BY 2018
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
61	0.1091	0.0802	0.1448	0.0563	0.0641	0.0286	0.0597	0.0475	0.0887	0.0920	0.0692	0.0795	0.0621	0.0431
62	0.1162	0.0853	0.1537	0.0597	0.0679	0.0302	0.0630	0.0501	0.0935	0.0970	0.0729	0.0837	0.0653	0.0453
63	0.1240	0.0909	0.1635	0.0634	0.0720	0.0320	0.0666	0.0528	0.0986	0.1023	0.0769	0.0882	0.0687	0.0476
64	0.1323	0.0969	0.1742	0.0674	0.0765	0.0339	0.0705	0.0558	0.1041	0.1079	0.0811	0.0931	0.0724	0.0501
65	0.1413	0.1034	0.1858	0.0718	0.0813	0.0360	0.0747	0.0591	0.1100	0.1138	0.0856	0.0981	0.0764	0.0528
66	0.1511	0.1105	0.1983	0.0766	0.0866	0.0383	0.0794	0.0627	0.1164	0.1203	0.0903	0.1035	0.0805	0.0557
67	0.1618	0.1181	0.2118	0.0818	0.0924	0.0408	0.0844	0.0666	0.1234	0.1273	0.0954	0.1092	0.0849	0.0587
68	0.1735	0.1265	0.2264	0.0873	0.0986	0.0435	0.0899	0.0708	0.1311	0.1350	0.1010	0.1154	0.0896	0.0619
69	0.1863	0.1356	0.2424	0.0934	0.1053	0.0465	0.0959	0.0754	0.1394	0.1434	0.1071	0.1222	0.0947	0.0653
70	0.2002	0.1456	0.2600	0.1000	0.1126	0.0496	0.1024	0.0804	0.1485	0.1525	0.1137	0.1295	0.1003	0.0690
71	0.2154	0.1565	0.2792	0.1072	0.1206	0.0531	0.1093	0.0858	0.1584	0.1624	0.1209	0.1375	0.1063	0.0731
72	0.2320	0.1684	0.3001	0.1151	0.1293	0.0568	0.1169	0.0917	0.1691	0.1733	0.1288	0.1463	0.1129	0.0775
73	0.2500	0.1813	0.3228	0.1237	0.1388	0.0609	0.1251	0.0980	0.1806	0.1849	0.1374	0.1558	0.1201	0.0823
74	0.2695	0.1954	0.3476	0.1331	0.1492	0.0654	0.1342	0.1050	0.1931	0.1975	0.1467	0.1662	0.1279	0.0875
75	0.2907	0.2107	0.3746	0.1434	0.1606	0.0703	0.1441	0.1125	0.2067	0.2112	0.1566	0.1774	0.1364	0.0932
76	0.3136	0.2273	0.4039	0.1545	0.1729	0.0756	0.1549	0.1208	0.2217	0.2261	0.1675	0.1895	0.1456	0.0994
77	0.3384	0.2452	0.4357	0.1666	0.1863	0.0815	0.1666	0.1299	0.2380	0.2425	0.1793	0.2026	0.1555	0.1061
78	0.3651	0.2645	0.4700	0.1797	0.2009	0.0878	0.1794	0.1398	0.2558	0.2604	0.1923	0.2169	0.1663	0.1133
79	0.3937	0.2854	0.5071	0.1938	0.2167	0.0946	0.1934	0.1505	0.2752	0.2798	0.2065	0.2326	0.1780	0.1212
80	0.4244	0.3078	0.5471	0.2091	0.2338	0.1021	0.2085	0.1622	0.2964	0.3011	0.2219	0.2497	0.1909	0.1297
81	0.4570	0.3318	0.5901	0.2256	0.2522	0.1101	0.2249	0.1748	0.3194	0.3242	0.2388	0.2684	0.2050	0.1391
82	0.4911	0.3573	0.6360	0.2433	0.2721	0.1188	0.2426	0.1886	0.3444	0.3494	0.2571	0.2888	0.2203	0.1494
83	0.5265	0.3839	0.6849	0.2623	0.2934	0.1282	0.2618	0.2035	0.3714	0.3767	0.2771	0.3110	0.2370	0.1605
84	0.5632	0.4116	0.7359	0.2824	0.3163	0.1383	0.2824	0.2195	0.4007	0.4063	0.2987	0.3351	0.2552	0.1727
85	0.6013	0.4403	0.7890	0.3035	0.3406	0.1490	0.3046	0.2368	0.4324	0.4384	0.3222	0.3613	0.2751	0.1860
86	0.6411	0.4701	0.8440	0.3254	0.3660	0.1605	0.3283	0.2554	0.4664	0.4730	0.3476	0.3897	0.2966	0.2004
87	0.6646	0.5012	0.9011	0.3481	0.3924	0.1724	0.3535	0.2753	0.5031	0.5103	0.3751	0.4205	0.3199	0.2161
88	0.6646	0.5196	0.9608	0.3716	0.4197	0.1849	0.3799	0.2965	0.5422	0.5503	0.4046	0.4537	0.3451	0.2331
89	0.6646	0.5196	0.9960	0.3962	0.4481	0.1978	0.4073	0.3186	0.5839	0.5932	0.4364	0.4894	0.3723	0.2515
90	0.6646	0.5196	0.9960	0.4107	0.4778	0.2111	0.4356	0.3415	0.6274	0.6388	0.4704	0.5279	0.4017	0.2713
91	0.6646	0.5196	0.9960	0.4107	0.4953	0.2251	0.4651	0.3654	0.6727	0.6864	0.5066	0.5690	0.4332	0.2927
92	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.4960	0.3901	0.7196	0.7358	0.5443	0.6127	0.4670	0.3157
93	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4159	0.7682	0.7872	0.5835	0.6584	0.5029	0.3403
94	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8192	0.8404	0.6242	0.7058	0.5403	0.3665
95	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.8961	0.6665	0.7550	0.5793	0.3938
96	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7106	0.8061	0.6197	0.4222
97	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8596	0.6616	0.4516
98	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7055	0.4821
99	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5141
100	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
101	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
102	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
103	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
104	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
105	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
106	0.6646	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
107	1.0000	0.5196	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
108	1.0000	1.0000	0.9960	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
109	1.0000	1.0000	1.0000	0.4107	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
110	1.0000	1.0000	1.0000	1.0000	0.4953	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
111	1.0000	1.0000	1.0000	1.0000	1.0000	0.2334	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
112	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5141	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
113	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4311	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
114	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8491	0.9289	0.7366	0.8910	0.7313	0.5329
115	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9289	0.7366	0.8910	0.7313	0.5329
116	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.7366	0.8910	0.7313	0.5329
117	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8910	0.7313	0.5329
118	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.7313	0.5329
119	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5329
120	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Note: (a) Assumed mortality rates by birth year are based on selected life expectancy as shown in Appendix E, Exhibit VII, Column (9).

Adjusted q(x) (a)

Time (Year)	Adjusted q(x) BY 1989	Adjusted q(x) BY 1990	Adjusted q(x) BY 1991	Adjusted q(x) BY 1992	Adjusted q(x) BY 1993	Adjusted q(x) BY 1994	Adjusted q(x) BY 1995	Adjusted q(x) BY 1996	Adjusted q(x) BY 1997	Adjusted q(x) BY 1998	Adjusted q(x) BY 1999	Adjusted q(x) BY 2000	Adjusted q(x) BY 2001	Adjusted q(x) BY 2002	Adjusted q(x) BY 2003	Adjusted q(x) BY 2004
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0	0.0189	0.0312	0.0110	0.0111	0.0138	0.0090	0.0100	0.0205	0.0094	0.0113	0.0166	0.0221	0.0112	0.0133	0.0203	0.0094
1	0.0194	0.0319	0.0112	0.0113	0.0141	0.0092	0.0102	0.0208	0.0096	0.0115	0.0170	0.0225	0.0114	0.0136	0.0207	0.0096
2	0.0198	0.0326	0.0114	0.0116	0.0144	0.0094	0.0104	0.0212	0.0097	0.0117	0.0173	0.0229	0.0116	0.0138	0.0211	0.0098
3	0.0202	0.0333	0.0117	0.0118	0.0147	0.0096	0.0106	0.0216	0.0099	0.0119	0.0176	0.0234	0.0118	0.0141	0.0215	0.0101
4	0.0207	0.0341	0.0120	0.0121	0.0150	0.0098	0.0108	0.0220	0.0101	0.0121	0.0179	0.0238	0.0120	0.0144	0.0219	0.0102
5	0.0212	0.0349	0.0122	0.0123	0.0153	0.0100	0.0110	0.0224	0.0103	0.0124	0.0182	0.0242	0.0123	0.0146	0.0223	0.0104
6	0.0217	0.0357	0.0125	0.0126	0.0156	0.0102	0.0113	0.0229	0.0105	0.0126	0.0186	0.0247	0.0125	0.0149	0.0228	0.0106
7	0.0222	0.0365	0.0128	0.0129	0.0160	0.0104	0.0115	0.0234	0.0107	0.0128	0.0189	0.0251	0.0127	0.0152	0.0232	0.0108
8	0.0228	0.0374	0.0131	0.0132	0.0164	0.0107	0.0118	0.0239	0.0109	0.0131	0.0193	0.0256	0.0129	0.0154	0.0236	0.0110
9	0.0233	0.0383	0.0134	0.0135	0.0167	0.0109	0.0120	0.0244	0.0112	0.0134	0.0197	0.0261	0.0132	0.0157	0.0240	0.0112
10	0.0239	0.0393	0.0137	0.0138	0.0171	0.0111	0.0123	0.0250	0.0114	0.0137	0.0201	0.0266	0.0134	0.0160	0.0245	0.0114
11	0.0246	0.0403	0.0141	0.0142	0.0175	0.0114	0.0126	0.0255	0.0117	0.0140	0.0205	0.0272	0.0137	0.0163	0.0249	0.0116
12	0.0252	0.0413	0.0144	0.0145	0.0180	0.0117	0.0129	0.0261	0.0120	0.0143	0.0210	0.0278	0.0140	0.0167	0.0254	0.0119
13	0.0259	0.0425	0.0148	0.0149	0.0184	0.0120	0.0132	0.0268	0.0122	0.0146	0.0215	0.0284	0.0143	0.0170	0.0259	0.0121
14	0.0267	0.0437	0.0152	0.0153	0.0189	0.0123	0.0135	0.0274	0.0125	0.0150	0.0220	0.0291	0.0146	0.0174	0.0265	0.0123
15	0.0275	0.0449	0.0157	0.0157	0.0194	0.0126	0.0139	0.0281	0.0128	0.0153	0.0225	0.0297	0.0150	0.0178	0.0271	0.0126
16	0.0284	0.0463	0.0161	0.0162	0.0199	0.0129	0.0142	0.0288	0.0131	0.0157	0.0230	0.0304	0.0153	0.0182	0.0277	0.0129
17	0.0293	0.0478	0.0166	0.0166	0.0205	0.0133	0.0146	0.0295	0.0135	0.0161	0.0236	0.0311	0.0157	0.0186	0.0283	0.0132
18	0.0303	0.0493	0.0171	0.0172	0.0211	0.0136	0.0150	0.0303	0.0138	0.0165	0.0241	0.0319	0.0160	0.0190	0.0290	0.0135
19	0.0314	0.0510	0.0177	0.0177	0.0217	0.0140	0.0154	0.0311	0.0142	0.0169	0.0247	0.0327	0.0164	0.0195	0.0296	0.0138
20	0.0325	0.0528	0.0183	0.0183	0.0224	0.0145	0.0159	0.0320	0.0146	0.0173	0.0254	0.0335	0.0168	0.0199	0.0303	0.0141
21	0.0337	0.0547	0.0189	0.0189	0.0231	0.0149	0.0163	0.0329	0.0150	0.0178	0.0260	0.0343	0.0172	0.0204	0.0311	0.0144
22	0.0350	0.0568	0.0196	0.0196	0.0239	0.0154	0.0169	0.0339	0.0154	0.0183	0.0268	0.0352	0.0177	0.0209	0.0318	0.0148
23	0.0364	0.0590	0.0204	0.0203	0.0248	0.0159	0.0174	0.0350	0.0159	0.0188	0.0275	0.0362	0.0181	0.0215	0.0326	0.0151
24	0.0379	0.0613	0.0211	0.0210	0.0257	0.0165	0.0180	0.0361	0.0164	0.0194	0.0283	0.0372	0.0186	0.0220	0.0334	0.0155
25	0.0394	0.0638	0.0220	0.0218	0.0266	0.0171	0.0186	0.0374	0.0169	0.0200	0.0292	0.0383	0.0192	0.0226	0.0343	0.0159
26	0.0411	0.0664	0.0229	0.0227	0.0277	0.0178	0.0193	0.0387	0.0175	0.0207	0.0301	0.0395	0.0197	0.0233	0.0353	0.0163
27	0.0429	0.0692	0.0238	0.0236	0.0288	0.0184	0.0200	0.0401	0.0181	0.0214	0.0311	0.0407	0.0203	0.0240	0.0363	0.0168
28	0.0448	0.0722	0.0248	0.0246	0.0299	0.0192	0.0208	0.0416	0.0188	0.0221	0.0321	0.0421	0.0210	0.0247	0.0373	0.0172
29	0.0468	0.0754	0.0259	0.0256	0.0311	0.0199	0.0216	0.0432	0.0195	0.0230	0.0333	0.0435	0.0216	0.0255	0.0385	0.0178
30	0.0490	0.0788	0.0270	0.0267	0.0325	0.0207	0.0225	0.0449	0.0202	0.0238	0.0345	0.0450	0.0224	0.0263	0.0397	0.0183
31	0.0513	0.0824	0.0282	0.0279	0.0339	0.0216	0.0234	0.0467	0.0210	0.0247	0.0358	0.0467	0.0232	0.0272	0.0410	0.0189
32	0.0538	0.0863	0.0296	0.0292	0.0354	0.0226	0.0244	0.0486	0.0219	0.0257	0.0372	0.0484	0.0240	0.0282	0.0424	0.0195
33	0.0565	0.0905	0.0310	0.0305	0.0370	0.0236	0.0255	0.0507	0.0228	0.0267	0.0386	0.0503	0.0249	0.0292	0.0438	0.0201
34	0.0594	0.0951	0.0325	0.0320	0.0387	0.0246	0.0266	0.0529	0.0237	0.0278	0.0402	0.0523	0.0259	0.0303	0.0454	0.0209
35	0.0625	0.0999	0.0341	0.0335	0.0405	0.0258	0.0278	0.0552	0.0248	0.0290	0.0418	0.0544	0.0269	0.0315	0.0472	0.0216
36	0.0658	0.1052	0.0358	0.0352	0.0425	0.0270	0.0291	0.0577	0.0259	0.0303	0.0436	0.0566	0.0280	0.0327	0.0490	0.0224
37	0.0694	0.1109	0.0377	0.0370	0.0446	0.0283	0.0305	0.0604	0.0270	0.0316	0.0455	0.0590	0.0291	0.0340	0.0509	0.0233
38	0.0732	0.1169	0.0397	0.0390	0.0469	0.0297	0.0320	0.0633	0.0283	0.0330	0.0475	0.0616	0.0304	0.0354	0.0530	0.0242
39	0.0772	0.1233	0.0419	0.0411	0.0494	0.0312	0.0336	0.0663	0.0296	0.0346	0.0496	0.0643	0.0317	0.0369	0.0551	0.0252
40	0.0815	0.1300	0.0442	0.0433	0.0520	0.0329	0.0353	0.0697	0.0311	0.0362	0.0519	0.0672	0.0331	0.0385	0.0574	0.0262
41	0.0861	0.1372	0.0466	0.0457	0.0549	0.0347	0.0371	0.0732	0.0326	0.0380	0.0544	0.0703	0.0346	0.0402	0.0599	0.0273
42	0.0912	0.1450	0.0492	0.0482	0.0579	0.0365	0.0391	0.0771	0.0343	0.0399	0.0570	0.0736	0.0362	0.0420	0.0626	0.0285
43	0.0967	0.1535	0.0520	0.0508	0.0610	0.0385	0.0413	0.0812	0.0361	0.0419	0.0599	0.0772	0.0379	0.0440	0.0654	0.0298
44	0.1026	0.1627	0.0550	0.0537	0.0644	0.0406	0.0435	0.0857	0.0380	0.0441	0.0630	0.0811	0.0397	0.0461	0.0685	0.0311
45	0.1092	0.1728	0.0583	0.0568	0.0680	0.0429	0.0459	0.0903	0.0401	0.0465	0.0663	0.0852	0.0417	0.0483	0.0717	0.0326
46	0.1163	0.1838	0.0619	0.0603	0.0720	0.0453	0.0484	0.0953	0.0423	0.0490	0.0698	0.0897	0.0439	0.0507	0.0752	0.0341
47	0.1240	0.1958	0.0659	0.0640	0.0763	0.0480	0.0512	0.1005	0.0446	0.0517	0.0737	0.0945	0.0462	0.0533	0.0789	0.0358
48	0.1324	0.2088	0.0702	0.0681	0.0811	0.0509	0.0542	0.1062	0.0471	0.0545	0.0777	0.0997	0.0486	0.0561	0.0830	0.0376
49	0.1414	0.2229	0.0749	0.0725	0.0862	0.0540	0.0574	0.1124	0.0497	0.0575	0.0819	0.1052	0.0513	0.0591	0.0874	0.0395
50	0.1512	0.2381	0.0799	0.0773	0.0919	0.0574	0.0610	0.1192	0.0526	0.0608	0.0864	0.1109	0.0541	0.0624	0.0921	0.0415
51	0.1619	0.2545	0.0853	0.0825	0.0980	0.0612	0.0649	0.1266	0.0558	0.0644	0.0913	0.1170	0.0571	0.0658	0.0971	0.0438
52	0.1736	0.2725	0.0912	0.0882	0.1046	0.0653	0.0691	0.1347	0.0593	0.0682	0.0967	0.1236	0.0602	0.0694	0.1024	0.0462
53	0.1864	0.2922	0.0977	0.0943	0.1117	0.0697	0.0737	0.1434	0.0630	0.0725	0.1025	0.1309	0.0636	0.0732	0.1080	0.0487
54	0.2003	0.3138	0.1048	0.1009	0.1194	0.0744	0.0787	0.1530	0.0671	0.0771	0.1089	0.1388	0.0673	0.0773	0.1139	0.0514
55	0.2155	0.3373	0.1125	0.1082	0.1279	0.0796	0.0840	0.1633	0.0716	0.0821	0.1158	0.1474	0.0714	0.0819	0.1204	0.0542
56	0.2321	0.3629	0.1209	0.1162	0.1371	0.0852	0.0898	0.1744	0.0764	0.0876	0.1233	0.1567	0.0758	0.0868	0.1274	0.0573
57	0.2501	0.3908	0.1301	0.1249	0.1472	0.0913	0.0962	0.1865	0.0816	0.0935	0.1316	0.1670	0.0806	0.0922	0.1351	0.0606
58	0.2697	0.4211	0.1401	0.1344	0.1582	0.0981	0.1031	0.1997	0.0873	0.0998	0.1404	0.1781	0.0859	0.0980	0.1435	0.0643
59	0.2909	0.4540	0.1509	0.1447	0.1702	0.1054	0.1107	0.2141	0.0935	0.1067	0.1500	0.1901	0.0916	0.1044	0.1526	0.0683
60	0.3138	0.4897	0.1627	0.1559	0.1833	0.1134	0.1190	0.2299	0.1002	0.1143	0.1604	0.2030	0.0978	0.1114	0.1626	0.0726

Note: (a) Assumed mortality rates by birth year are based on selected life expectancy as shown in Appendix E, Exhibit VII, Column (9).

Adjusted q(x) (a)

Time (Year)	Adjusted q(x) BY 1989	Adjusted q(x) BY 1990	Adjusted q(x) BY 1991	Adjusted q(x) BY 1992	Adjusted q(x) BY 1993	Adjusted q(x) BY 1994	Adjusted q(x) BY 1995	Adjusted q(x) BY 1996	Adjusted q(x) BY 1997	Adjusted q(x) BY 1998	Adjusted q(x) BY 1999	Adjusted q(x) BY 2000	Adjusted q(x) BY 2001	Adjusted q(x) BY 2002	Adjusted q(x) BY 2003	Adjusted q(x) BY 2004
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
61	0.3386	0.5283	0.1755	0.1681	0.1976	0.1221	0.1281	0.2471	0.1076	0.1226	0.1717	0.2170	0.1045	0.1189	0.1734	0.0773
62	0.3653	0.5700	0.1894	0.1813	0.2130	0.1316	0.1379	0.2659	0.1157	0.1316	0.1841	0.2324	0.1117	0.1270	0.1851	0.0825
63	0.3939	0.6150	0.2043	0.1956	0.2297	0.1419	0.1486	0.2863	0.1245	0.1414	0.1977	0.2492	0.1196	0.1358	0.1977	0.0880
64	0.4246	0.6632	0.2205	0.2111	0.2479	0.1531	0.1602	0.3085	0.1340	0.1522	0.2125	0.2676	0.1282	0.1454	0.2114	0.0940
65	0.4573	0.7149	0.2378	0.2277	0.2674	0.1651	0.1728	0.3326	0.1444	0.1639	0.2286	0.2876	0.1377	0.1559	0.2263	0.1005
66	0.4913	0.7698	0.2563	0.2456	0.2885	0.1782	0.1865	0.3588	0.1557	0.1766	0.2462	0.3094	0.1480	0.1674	0.2427	0.1076
67	0.5267	0.8272	0.2760	0.2647	0.3112	0.1922	0.2012	0.3871	0.1679	0.1904	0.2653	0.3332	0.1592	0.1799	0.2606	0.1154
68	0.5635	0.8868	0.2965	0.2851	0.3354	0.2073	0.2170	0.4177	0.1812	0.2054	0.2860	0.3591	0.1715	0.1936	0.2801	0.1239
69	0.6016	0.9487	0.3179	0.3063	0.3612	0.2235	0.2341	0.4506	0.1955	0.2216	0.3085	0.3872	0.1848	0.2084	0.3013	0.1332
70	0.6415	1.0000	0.3401	0.3284	0.3881	0.2406	0.2523	0.4859	0.2109	0.2391	0.3328	0.4176	0.1992	0.2246	0.3245	0.1433
71	0.6649	1.0000	0.3631	0.3513	0.4161	0.2586	0.2717	0.5238	0.2275	0.2579	0.3591	0.4505	0.2149	0.2422	0.3497	0.1543
72	0.6649	1.0000	0.3872	0.3751	0.4451	0.2772	0.2920	0.5641	0.2452	0.2781	0.3874	0.4861	0.2318	0.2612	0.3770	0.1663
73	0.6649	1.0000	0.4013	0.4000	0.4752	0.2965	0.3130	0.6061	0.2640	0.2998	0.4178	0.5244	0.2501	0.2818	0.4066	0.1793
74	0.6649	1.0000	0.4013	0.4146	0.5067	0.3166	0.3348	0.6498	0.2837	0.3229	0.4504	0.5656	0.2699	0.3040	0.4387	0.1934
75	0.6649	1.0000	0.4013	0.4146	0.5252	0.3376	0.3575	0.6951	0.3041	0.3469	0.4850	0.6096	0.2910	0.3280	0.4734	0.2087
76	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3812	0.7421	0.3254	0.3719	0.5212	0.6565	0.3137	0.3538	0.5107	0.2252
77	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.7913	0.3474	0.3979	0.5587	0.7054	0.3378	0.3813	0.5508	0.2429
78	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3704	0.4248	0.5977	0.7563	0.3630	0.4106	0.5937	0.2620
79	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4529	0.6381	0.8090	0.3892	0.4412	0.6393	0.2824
80	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.6804	0.8637	0.4163	0.4730	0.6869	0.3041
81	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9210	0.4445	0.5060	0.7364	0.3267
82	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4739	0.5403	0.7878	0.3503
83	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5761	0.8411	0.3747
84	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.8969	0.4001
85	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4266
86	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
87	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
88	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
89	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
90	0.6649	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
91	1.0000	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
92	1.0000	1.0000	0.4013	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
93	1.0000	1.0000	1.0000	0.4146	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
94	1.0000	1.0000	1.0000	1.0000	0.5252	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
95	1.0000	1.0000	1.0000	1.0000	1.0000	0.3499	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
96	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3951	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
97	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8202	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
98	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3839	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
99	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4695	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.7053	0.9547	0.4913	0.5971	0.9297	0.4422
101	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9547	0.4913	0.5971	0.9297	0.4422
102	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4913	0.5971	0.9297	0.4422
103	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4422
104	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4422
105	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4422
106	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
107	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
108	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
109	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
110	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
111	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
112	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
113	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
114	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
115	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
116	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
117	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
118	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
119	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
120	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Note: (a) Assumed mortality rates by birth year are based on selected life expectancy as shown in Appendix E, Exhibit VII, Column (9).

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Sum of (a) Remaining Life Expectancy	Cumulative Paid (b) Loss & ALAE	Number of Years Since Date of Claim (c)	Average Annual Payment (3) / (4)	Indicated Birth Year Relativity Based on Average Annual Payment (d)	Remaining Life Expectancy X Annual Payment Relativity (e)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (7) / (2)	Current (f) Case O/S Loss & ALAE @ 6/30/18	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (9) / (2)	Average Annual Remaining Payment Relativity Based on Current Case O/S (g)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1989	83.51	5,633,057	108	52,018	0.713	57.62	0.690	10,983,818	131,527	0.952
1990	46.77	2,710,850	79	34,415	0.472	25.92	0.554	5,922,595	126,632	0.917
1991	111.55	8,415,470	100	84,391	1.157	128.50	1.152	18,536,486	166,172	1.203
1992	251.72	13,724,971	220	62,284	0.854	208.81	0.830	36,732,914	145,928	1.057
1993	203.42	15,031,803	182	82,443	1.131	123.79	0.609	24,376,891	119,835	0.868
1994	124.71	3,707,805	88	41,934	0.575	90.21	0.723	13,106,976	105,100	0.761
1995	150.39	9,478,407	106	89,343	1.225	176.93	1.176	22,210,821	147,688	1.069
1996	126.59	8,050,941	120	67,086	0.920	113.19	0.894	20,680,263	163,364	1.183
1997	251.74	10,101,240	147	68,567	0.940	169.40	0.673	27,464,563	109,099	0.790
1998	321.30	17,599,201	198	88,948	1.220	351.17	1.093	47,197,584	146,896	1.064
1999	72.52	3,845,973	49	78,393	1.075	76.96	1.061	14,421,029	198,856	1.440
2000	103.25	4,653,765	83	55,968	0.768	68.70	0.665	15,245,302	147,654	1.069
2001	119.92	5,623,936	56	100,088	1.373	159.26	1.328	21,488,298	179,189	1.297
2002	359.90	11,817,830	172	68,800	0.944	334.79	0.930	53,360,555	148,265	1.073
2003	66.08	3,668,600	37	98,991	1.358	92.37	1.398	13,540,663	204,913	1.484
2004	164.70	3,675,158	58	63,860	0.876	119.08	0.723	22,983,676	139,549	1.010
2005	192.06	5,501,904	75	73,222	1.004	124.49	0.648	24,888,108	129,585	0.938
2006	283.53	7,371,353	86	85,346	1.171	317.05	1.118	39,717,062	140,081	1.014
2007	157.64	8,047,670	63	128,557	1.763	265.73	1.686	29,084,920	184,502	1.336
2008	324.52	3,884,896	72	54,047	0.741	215.59	0.664	47,065,850	145,032	1.050
2009	336.50	5,384,580	72	74,332	1.019	347.88	1.034	51,656,858	153,512	1.111
2010	229.95	1,706,934	31	54,762	0.751	150.97	0.657	25,361,673	110,292	0.799
2011	340.13	3,234,760	51	63,626	0.873	281.61	0.828	43,357,020	127,472	0.923
2012	261.20	1,492,771	30	49,250	0.675	166.47	0.637	26,116,594	99,987	0.724
2013	184.46	2,836,613	26	107,447	1.474	250.90	1.360	24,610,239	133,418	0.966
2014	217.35	2,968,038	26	113,892	1.562	288.96	1.329	27,246,567	125,358	0.908
2015	120.75	732,044	8	97,346	1.335	149.28	1.236	12,850,840	106,425	0.771
2016	20.00	122,781	1	130,618	1.791	35.83	1.791	1,615,516	80,776	0.585
2017										
2018										
Totals / Avg.	5,226.16	171,023,351	2,346	72,912				721,823,681	138,117	

Notes: (a) See Appendix E, Exhibit VI, Sheets 2a to 2g, Column (4).  
 (b) See Appendix E, Exhibit VI, Sheets 2a to 2g, Column (5).  
 (c) See Appendix E, Exhibit VI, Sheets 2a to 2g, Column (6).  
 (d) Based on column (5) divided by the average for all birth years.  
 (e) See Appendix E, Exhibit VI, Sheets 2a to 2g, Column (9).  
 (f) See Appendix E, Exhibit VI, Sheets 2a to 2g, Column (11).  
 (g) Based on column (10) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1989			4.61	1,965,768	27.63	71,146	0.976	4.50		601,975	130,580	0.945
1989			36.05	1,331,703	26.95	49,414	0.678	24.43		4,382,852	121,577	0.880
1989			13.90	761,991	26.88	28,348	0.389	5.40		1,592,934	114,600	0.830
1989			28.95	1,573,595	26.83	58,651	0.804	23.29		4,406,057	152,195	1.102
<b>Subtotals / Avg. BY 1989:</b>			<b>83.51</b>	<b>5,633,057</b>	<b>108.29</b>	<b>52,018</b>	<b>0.713</b>	<b>57.62</b>	<b>0.690</b>	<b>10,983,818</b>	<b>131,527</b>	<b>0.952</b>
1990			20.00	1,288,111	26.54	48,535	0.666	13.31		3,364,845	168,242	1.218
1990			17.83	1,280,162	26.24	48,787	0.669	11.93		2,228,247	124,972	0.905
1990			8.94	142,577	25.99	5,486	0.075	0.67		329,503	36,857	0.267
<b>Subtotals / Avg. BY 1990:</b>			<b>46.77</b>	<b>2,710,850</b>	<b>78.77</b>	<b>34,415</b>	<b>0.472</b>	<b>25.92</b>	<b>0.554</b>	<b>5,922,595</b>	<b>126,632</b>	<b>0.917</b>
1991			23.30	2,403,604	26.34	91,253	1.252	29.16		4,399,250	188,809	1.367
1991			28.01	2,814,216	24.79	113,522	1.557	43.61		4,468,222	159,522	1.155
1991			42.25	1,732,663	24.75	70,007	0.960	40.57		6,897,016	163,243	1.182
1991			17.99	1,464,987	23.84	61,451	0.843	15.16		2,771,998	154,086	1.116
<b>Subtotals / Avg. BY 1991:</b>			<b>111.55</b>	<b>8,415,470</b>	<b>99.72</b>	<b>84,391</b>	<b>1.157</b>	<b>128.50</b>	<b>1.152</b>	<b>18,536,486</b>	<b>166,172</b>	<b>1.203</b>
1992			45.53	747,552	26.11	28,631	0.393	17.88		4,699,603	103,220	0.747
1992			18.55	1,998,182	25.87	77,239	1.059	19.65		3,009,280	162,225	1.175
1992			25.00	2,358,195	24.65	95,667	1.312	32.80		4,373,358	174,934	1.267
1992			28.93	1,664,420	24.21	68,749	0.943	27.28		4,700,689	162,485	1.176
1992			33.79	1,026,843	24.21	42,414	0.582	19.66		3,943,264	116,699	0.845
1992			17.89	333,054	24.19	13,768	0.189	3.38		2,175,661	121,613	0.881
1992			26.97	2,908,284	23.77	122,351	1.678	45.26		4,475,744	165,953	1.202
1992			27.93	1,421,603	23.68	60,034	0.823	23.00		5,250,121	187,974	1.361
1992			27.13	1,266,837	23.67	53,521	0.734	19.91		4,105,195	151,316	1.096
<b>Subtotals / Avg. BY 1992:</b>			<b>251.72</b>	<b>13,724,971</b>	<b>220.36</b>	<b>62,284</b>	<b>0.854</b>	<b>208.81</b>	<b>0.830</b>	<b>36,732,914</b>	<b>145,928</b>	<b>1.057</b>
1993			45.72	114,157	24.45	4,669	0.064	2.93		3,354,284	73,366	0.531
1993			30.00	743,933	23.35	31,860	0.437	13.11		4,139,713	137,990	0.999
1993			4.64	1,485,354	23.25	63,886	0.876	4.07		851,473	183,507	1.329
1993			36.39	1,433,708	23.16	61,904	0.849	30.90		5,667,271	155,737	1.128
1993			42.19	498,437	23.08	21,596	0.296	12.50		2,076,447	49,217	0.356
1993			35.00	1,585,208	22.83	69,435	0.952	33.33		5,275,189	150,720	1.091
1993			4.48	6,567,253	22.60	290,586	3.985	17.85		1,656,211	369,690	2.677
1993			5.00	2,603,753	19.61	132,777	1.821	9.11		1,356,304	271,261	1.964
<b>Subtotals / Avg. BY 1993:</b>			<b>203.42</b>	<b>15,031,803</b>	<b>182.33</b>	<b>82,443</b>	<b>1.131</b>	<b>123.79</b>	<b>0.609</b>	<b>24,376,891</b>	<b>119,835</b>	<b>0.868</b>

Notes: (a) As provided by NICA management evaluated as of June 30, 2018.

(b) Number of years since date of claim as shown in column (3) to June 30, 2018.

(c) Based on column (7) divided by the average for all birth years.

(d) Average annual payment relativity shown in column (8) is based on payments to date. This relativity is adjusted to account for expected difference in duration of remaining payments.

(e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.

(f) Based on column (12) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1994			4.82	121,533	23.29	5,218	0.072	0.34		299,906	62,221	0.450
1994			36.25	1,165,639	22.16	52,601	0.721	26.15		4,795,345	132,285	0.958
1994			43.64	456,946	21.95	20,818	0.286	12.46		1,687,911	38,678	0.280
1994			40.00	1,963,686	21.02	93,420	1.281	51.25		6,323,815	158,095	1.145
<b>Subtotals / Avg. BY 1994:</b>			<b>124.71</b>	<b>3,707,805</b>	<b>88.42</b>	<b>41,934</b>	<b>0.575</b>	<b>90.21</b>	<b>0.723</b>	<b>13,106,976</b>	<b>105,100</b>	<b>0.761</b>
1995			27.07	3,261,916	21.78	149,767	2.054	55.60		4,906,237	181,243	1.312
1995			36.29	1,104,361	21.41	51,582	0.707	25.67		5,172,331	142,528	1.032
1995			14.45	1,816,182	21.27	85,387	1.171	16.92		2,452,587	169,729	1.229
1995			36.29	1,805,046	21.07	85,669	1.175	42.64		4,722,553	130,134	0.942
1995			36.29	1,490,902	20.56	72,515	0.995	36.09		4,957,113	136,597	0.989
<b>Subtotals / Avg. BY 1995:</b>			<b>150.39</b>	<b>9,478,407</b>	<b>106.09</b>	<b>89,343</b>	<b>1.225</b>	<b>176.93</b>	<b>1.176</b>	<b>22,210,821</b>	<b>147,688</b>	<b>1.069</b>
1996			36.32	1,154,880	21.82	52,928	0.726	26.37		6,668,088	183,593	1.329
1996			33.85	1,642,700	21.38	76,833	1.054	35.67		5,210,502	153,929	1.114
1996			15.00	2,715,922	20.69	131,267	1.800	27.01		3,291,498	219,433	1.589
1996			4.80	350,896	20.16	17,406	0.239	1.15		734,092	152,936	1.107
1996			9.34	1,643,873	18.29	89,878	1.233	11.51		1,453,306	155,600	1.127
1996			27.28	542,670	17.67	30,711	0.421	11.49		3,322,777	121,803	0.882
<b>Subtotals / Avg. BY 1996:</b>			<b>126.59</b>	<b>8,050,941</b>	<b>120.01</b>	<b>67,086</b>	<b>0.920</b>	<b>113.19</b>	<b>0.894</b>	<b>20,680,263</b>	<b>163,364</b>	<b>1.183</b>
1997			40.00	852,896	20.18	42,264	0.580	23.19		3,629,244	90,731	0.657
1997			45.88	138,922	19.98	6,953	0.095	4.38		1,268,498	27,648	0.200
1997			36.35	655,085	19.84	33,018	0.453	16.46		3,551,919	97,714	0.707
1997			10.00	4,345,812	19.64	221,274	3.035	30.35		2,015,074	201,507	1.459
1997			27.31	1,341,453	19.07	70,344	0.965	26.35		4,286,547	156,959	1.136
1997			36.55	1,459,910	16.75	87,159	1.195	43.69		6,049,732	165,519	1.198
1997			19.30	1,081,896	15.98	67,703	0.929	17.92		2,861,583	148,269	1.073
1997			36.35	225,267	15.88	14,186	0.195	7.07		3,801,966	104,593	0.757
<b>Subtotals / Avg. BY 1997:</b>			<b>251.74</b>	<b>10,101,240</b>	<b>147.32</b>	<b>68,567</b>	<b>0.940</b>	<b>169.40</b>	<b>0.673</b>	<b>27,464,563</b>	<b>109,099</b>	<b>0.790</b>
1998			17.99	1,512,395	19.66	76,928	1.055	18.98		2,290,457	127,318	0.922
1998			36.58	2,044,526	19.47	105,009	1.440	52.68		7,220,647	197,393	1.429
1998			38.81	788,968	19.33	40,816	0.560	21.73		4,050,356	104,364	0.756
1998			42.31	2,066,635	19.13	108,031	1.482	62.69		6,991,097	165,235	1.196
1998			36.58	120,192	15.01	8,007	0.110	4.02		2,370,515	64,804	0.469
1998			36.58	1,226,824	19.05	64,400	0.883	32.31		4,287,683	117,214	0.849
1998			8.91	3,569,345	18.40	193,986	2.661	23.71		2,253,121	252,876	1.831
1998			36.37	1,159,287	17.45	66,435	0.911	33.14		4,650,052	127,854	0.926
1998			27.34	2,120,913	17.05	124,394	1.706	46.64		5,021,340	183,663	1.330
1998			35.00	1,754,524	16.73	104,873	1.438	50.34		7,232,334	206,638	1.496
1998			4.83	1,235,591	16.58	74,523	1.022	4.94		829,983	171,839	1.244
<b>Subtotals / Avg. BY 1998:</b>			<b>321.30</b>	<b>17,599,201</b>	<b>197.86</b>	<b>88,948</b>	<b>1.220</b>	<b>351.17</b>	<b>1.093</b>	<b>47,197,584</b>	<b>146,896</b>	<b>1.064</b>

- Notes: (a) As provided by NICA management evaluated as of June 30, 2018.  
 (b) Number of years since date of claim as shown in column (3) to June 30, 2018.  
 (c) Based on column (7) divided by the average for all birth years.  
 (d) Average annual payment relativity shown in column (8) is based on payments to date. This relativity is adjusted to account for expected difference in duration of remaining payments.  
 (e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.  
 (f) Based on column (12) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1999			27.15	1,619,982	18.31	88,475	1.213	32.95		6,011,595	221,422	1.603
1999			18.00	1,258,344	15.94	78,943	1.083	19.49		4,215,146	234,175	1.695
1999			27.37	967,647	14.81	65,337	0.896	24.53		4,194,288	153,244	1.110
<b>Subtotals / Avg. BY 1999:</b>			<b>72.52</b>	<b>3,845,973</b>	<b>49.06</b>	<b>78,393</b>	<b>1.075</b>	<b>76.96</b>	<b>1.061</b>	<b>14,421,029</b>	<b>198,856</b>	<b>1.440</b>
2000			15.00	375,845	17.45	21,538	0.295	4.43		2,674,980	178,332	1.291
2000			13.94	1,269,629	17.21	73,773	1.012	14.10		2,293,606	164,534	1.191
2000			14.47	1,934,536	16.66	116,119	1.593	23.04		2,904,586	200,732	1.453
2000			45.77	522,590	16.12	32,419	0.445	20.35		6,496,532	141,939	1.028
2000			14.07	551,165	15.71	35,084	0.481	6.77		875,598	62,232	0.451
<b>Subtotals / Avg. BY 2000:</b>			<b>103.25</b>	<b>4,653,765</b>	<b>83.15</b>	<b>55,968</b>	<b>0.768</b>	<b>68.70</b>	<b>0.665</b>	<b>15,245,302</b>	<b>147,654</b>	<b>1.069</b>
2001			19.38	1,728,526	15.57	111,016	1.523	29.51		4,517,580	233,105	1.688
2001			36.44	900,957	15.25	59,079	0.810	29.53		5,296,629	145,352	1.052
2001			36.68	1,100,213	13.04	84,372	1.157	42.45		5,894,747	160,707	1.164
2001			27.42	1,894,240	12.33	153,629	2.107	57.78		5,779,342	210,771	1.526
<b>Subtotals / Avg. BY 2001:</b>			<b>119.92</b>	<b>5,623,936</b>	<b>56.19</b>	<b>100,088</b>	<b>1.373</b>	<b>159.26</b>	<b>1.328</b>	<b>21,488,298</b>	<b>179,189</b>	<b>1.297</b>
2002			10.00	872,012	15.62	55,827	0.766	7.66		1,066,098	106,610	0.772
2002			24.17	2,227,102	15.10	147,490	2.023	48.89		5,959,879	246,582	1.785
2002			36.71	973,173	15.06	64,620	0.886	32.54		4,449,298	121,201	0.878
2002			24.24	1,592,864	14.31	111,311	1.527	37.01		3,581,674	147,759	1.070
2002			36.47	1,252,433	14.20	88,200	1.210	44.12		5,026,288	137,820	0.998
2002			18.65	477,082	13.70	34,824	0.478	8.91		2,831,668	151,832	1.099
2002			27.21	821,280	13.43	61,153	0.839	22.82		6,162,738	226,488	1.640
2002			27.45	923,741	13.30	69,454	0.953	26.15		3,430,583	124,976	0.905
2002			9.08	114,778	12.79	8,974	0.123	1.12		299,906	33,029	0.239
2002			47.32	715,924	11.28	63,468	0.870	41.19		5,272,814	111,429	0.807
2002			23.52	708,645	11.14	63,613	0.872	20.52		5,539,341	235,516	1.705
2002			29.03	1,019,723	10.99	92,786	1.273	36.94		4,572,234	157,500	1.140
2002			46.05	119,073	10.85	10,974	0.151	6.93		5,168,034	112,227	0.813
<b>Subtotals / Avg. BY 2002:</b>			<b>359.90</b>	<b>11,817,830</b>	<b>171.77</b>	<b>68,800</b>	<b>0.944</b>	<b>334.79</b>	<b>0.930</b>	<b>53,360,555</b>	<b>148,265</b>	<b>1.073</b>
2003			18.04	645,346	12.93	49,911	0.685	12.35		3,571,809	197,994	1.434
2003			30.00	1,346,310	12.44	108,224	1.484	44.53		5,763,189	192,106	1.391
2003			18.04	1,676,943	11.69	143,451	1.967	35.49		4,205,666	233,130	1.688
<b>Subtotals / Avg. BY 2003:</b>			<b>66.08</b>	<b>3,668,600</b>	<b>37.06</b>	<b>98,991</b>	<b>1.358</b>	<b>92.37</b>	<b>1.398</b>	<b>13,540,663</b>	<b>204,913</b>	<b>1.484</b>

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 (f) Based on column (12) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18 (11)	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4) (12)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2004			36.54	402,643	13.65	29,498	0.405	14.78		4,494,252	122,995	0.891
2004			20.00	1,482,995	12.63	117,418	1.610	32.21		4,344,380	217,219	1.573
2004			27.26	1,046,762	12.54	83,474	1.145	31.21		3,286,295	120,554	0.873
2004			45.90	173,830	9.38	18,532	0.254	11.67		3,250,299	70,813	0.513
2004			35.00	568,928	9.35	60,848	0.835	29.21		7,608,450	217,384	1.574
<b>Subtotals / Avg. BY 2004:</b>			<b>164.70</b>	<b>3,675,158</b>	<b>57.55</b>	<b>63,860</b>	<b>0.876</b>	<b>119.08</b>	<b>0.723</b>	<b>22,983,676</b>	<b>139,549</b>	<b>1.010</b>
2005			36.82	592,254	12.30	48,151	0.660	24.32		4,665,231	126,704	0.917
2005			35.00	813,494	11.58	70,250	0.963	33.72		6,609,698	188,849	1.367
2005			45.94	407,234	11.43	35,628	0.489	22.45		5,178,453	112,722	0.816
2005			4.83	1,870,573	10.76	173,845	2.384	11.52		1,043,850	216,118	1.565
2005			14.47	986,702	10.40	94,875	1.301	18.83		2,362,262	163,252	1.182
2005			50.00	116,290	9.85	11,806	0.162	8.10		3,895,982	77,920	0.564
2005			5.00	715,355	8.82	81,106	1.112	5.56		1,132,634	226,527	1.640
<b>Subtotals / Avg. BY 2005:</b>			<b>192.06</b>	<b>5,501,904</b>	<b>75.14</b>	<b>73,222</b>	<b>1.004</b>	<b>124.49</b>	<b>0.648</b>	<b>24,888,108</b>	<b>129,585</b>	<b>0.938</b>
2006			18.13	903,596	11.60	77,896	1.068	19.37		3,069,334	169,296	1.226
2006			27.58	945,879	11.10	85,214	1.169	32.23		4,272,204	154,902	1.122
2006			45.98	736,592	8.87	83,043	1.139	52.37		4,130,541	89,833	0.650
2006			27.34	2,746,779	9.85	278,861	3.825	104.57		8,185,091	299,382	2.168
2006			48.60	814,029	9.76	83,405	1.144	55.59		5,764,195	118,605	0.859
2006			15.00	345,981	9.52	36,343	0.498	7.48		2,285,894	152,393	1.103
2006			27.34	264,513	9.43	28,050	0.385	10.52		2,892,192	105,786	0.766
2006			27.58	409,099	8.68	47,131	0.646	17.83		4,039,556	146,467	1.060
2006			45.98	204,883	7.56	27,101	0.372	17.09		5,078,057	110,441	0.800
<b>Subtotals / Avg. BY 2006:</b>			<b>283.53</b>	<b>7,371,353</b>	<b>86.37</b>	<b>85,346</b>	<b>1.171</b>	<b>317.05</b>	<b>1.118</b>	<b>39,717,062</b>	<b>140,081</b>	<b>1.014</b>
2007			10.00	1,489,199	9.98	149,218	2.047	20.47		1,761,142	176,114	1.275
2007			15.00	814,615	9.72	83,808	1.149	17.24		1,927,897	128,526	0.931
2007			25.00	874,904	9.35	93,573	1.283	32.08		4,399,571	175,983	1.274
2007			46.25	1,218,896	9.23	132,058	1.811	83.77		9,167,559	198,217	1.435
2007			14.49	1,970,214	8.92	220,876	3.029	43.90		3,492,203	241,008	1.745
2007			10.00	944,902	8.35	113,162	1.552	15.52		1,937,281	193,728	1.403
2007			36.90	734,940	7.05	104,247	1.430	52.76		6,399,267	173,422	1.256
<b>Subtotals / Avg. BY 2007:</b>			<b>157.64</b>	<b>8,047,670</b>	<b>62.60</b>	<b>128,557</b>	<b>1.763</b>	<b>265.73</b>	<b>1.686</b>	<b>29,084,920</b>	<b>184,502</b>	<b>1.336</b>

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 (e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.  
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Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18 (11)	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4) (12)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2008			25.00	107,643	9.44	11,403	0.156	3.91		299,900	11,996	0.087
2008			36.93	645,320	9.25	69,764	0.957	35.34		5,960,300	161,395	1.169
2008			27.64	965,360	8.87	108,834	1.493	41.26		4,664,637	168,764	1.222
2008			48.63	131,916	8.39	15,723	0.216	10.49		4,798,407	98,672	0.714
2008			48.63	151,653	8.35	18,162	0.249	12.11		4,363,055	89,719	0.650
2008			27.41	1,167,910	8.08	144,543	1.982	54.34		6,552,840	239,067	1.731
2008			46.06	290,100	7.74	37,481	0.514	23.68		9,562,177	207,603	1.503
2008			24.22	205,247	6.84	30,007	0.412	9.97		4,861,722	200,732	1.453
2008			40.00	219,746	4.92	44,664	0.613	24.50		6,002,813	150,070	1.087
<b>Subtotals / Avg. BY 2008:</b>			<b>324.52</b>	<b>3,884,896</b>	<b>71.88</b>	<b>54,047</b>	<b>0.741</b>	<b>215.59</b>	<b>0.664</b>	<b>47,065,850</b>	<b>145,032</b>	<b>1.050</b>
2009			45.00	680,573	8.91	76,383	1.048	47.14		6,804,200	151,204	1.095
2009			28.14	698,782	8.18	85,426	1.172	32.97		4,997,005	177,577	1.286
2009			55.00	492,618	8.16	60,370	0.828	45.54		6,639,794	120,724	0.874
2009			20.00	622,102	8.05	77,280	1.060	21.20		3,587,967	179,398	1.299
2009			28.14	281,787	7.79	36,173	0.496	13.96		5,784,543	205,563	1.488
2009			30.00	478,410	7.37	64,913	0.890	26.71		6,207,581	206,919	1.498
2009			24.31	541,790	6.82	79,441	1.090	26.49		4,260,461	175,255	1.269
2009			47.50	112,350	6.82	16,474	0.226	10.73		3,746,950	78,883	0.571
2009			28.41	567,432	6.01	94,415	1.295	36.79		5,004,396	176,149	1.275
2009			30.00	908,736	4.33	209,870	2.878	86.35		4,623,961	154,132	1.116
<b>Subtotals / Avg. BY 2009:</b>			<b>336.50</b>	<b>5,384,580</b>	<b>72.44</b>	<b>74,332</b>	<b>1.019</b>	<b>347.88</b>	<b>1.034</b>	<b>51,656,858</b>	<b>153,512</b>	<b>1.111</b>
2010			34.07	728,560	7.26	100,353	1.376	46.89		3,991,304	117,150	0.848
2010			56.42	298,027	7.11	41,917	0.575	32.44		6,080,641	107,775	0.780
2010			47.37	123,674	5.76	21,471	0.294	13.95		4,688,939	98,985	0.717
2010			38.45	435,971	5.53	78,837	1.081	41.57		5,733,675	149,120	1.080
2010			53.64	120,701	5.51	21,906	0.300	16.12		4,867,115	90,737	0.657
<b>Subtotals / Avg. BY 2010:</b>			<b>229.95</b>	<b>1,706,934</b>	<b>31.17</b>	<b>54,762</b>	<b>0.751</b>	<b>150.97</b>	<b>0.657</b>	<b>25,361,673</b>	<b>110,292</b>	<b>0.799</b>
2011			29.38	608,802	6.75	90,193	1.237	36.34		4,951,070	168,518	1.220
2011			28.77	214,600	6.41	33,479	0.459	13.21		4,262,373	148,153	1.073
2011			28.93	659,152	5.73	115,035	1.578	45.64		4,454,941	153,990	1.115
2011			48.67	347,042	5.70	60,884	0.835	40.64		7,979,357	163,948	1.187
2011			38.19	204,767	5.70	35,924	0.493	18.82		5,648,797	147,913	1.071
2011			9.68	281,936	5.62	50,167	0.688	6.66		733,988	75,825	0.549
2011			48.67	273,759	4.27	64,112	0.879	42.80		5,196,172	106,763	0.773
2011			48.67	222,804	4.07	54,743	0.751	36.54		5,420,546	111,373	0.806
2011			49.33	150,578	3.50	43,022	0.590	29.11		3,042,103	61,668	0.446
2011			9.84	271,320	3.09	87,806	1.204	11.85		1,667,673	169,479	1.227
<b>Subtotals / Avg. BY 2011:</b>			<b>340.13</b>	<b>3,234,760</b>	<b>50.84</b>	<b>63,626</b>	<b>0.873</b>	<b>281.61</b>	<b>0.828</b>	<b>43,357,020</b>	<b>127,472</b>	<b>0.923</b>

Notes: (a) As provided by NICA management evaluated as of June 30, 2018.

(b) Number of years since date of claim as shown in column (3) to June 30, 2018.

(c) Based on column (7) divided by the average for all birth years.

(d) Average annual payment relativity shown in column (8) is based on payments to date. This relativity is adjusted to account for expected difference in duration of remaining payments.

(e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.

(f) Based on column (12) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18 (11)	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4) (12)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2012			38.86	364,466	5.84	62,409	0.856	33.26		7,093,282	182,534	1.322
2012			19.41	390,011	5.84	66,783	0.916	17.78		1,997,895	102,931	0.745
2012			48.33	137,922	4.47	30,855	0.423	20.45		3,813,563	78,907	0.571
2012			55.00	137,803	4.15	33,206	0.455	25.05		4,470,719	81,286	0.589
2012			40.00	320,411	3.35	95,645	1.312	52.47		3,659,780	91,494	0.662
2012			30.00	125,908	3.35	37,584	0.515	15.46		4,681,518	156,051	1.130
2012			29.60	16,250	3.31	4,909	0.067	1.99		399,837	13,508	0.098
<b>Subtotals / Avg. BY 2012:</b>			<b>261.20</b>	<b>1,492,771</b>	<b>30.31</b>	<b>49,250</b>	<b>0.675</b>	<b>166.47</b>	<b>0.637</b>	<b>26,116,594</b>	<b>99,987</b>	<b>0.724</b>
2013			10.00	614,621	5.35	114,882	1.576	15.76		1,703,605	170,361	1.233
2013			30.02	338,478	4.82	70,224	0.963	28.91		5,507,394	183,457	1.328
2013			29.63	278,117	4.22	65,905	0.904	26.78		3,707,606	125,130	0.906
2013			24.81	455,527	3.42	133,195	1.827	45.32		2,270,805	91,528	0.663
2013			20.00	475,401	3.40	139,824	1.918	38.35		3,745,260	187,263	1.356
2013			20.00	526,575	3.17	166,112	2.278	45.57		2,783,054	139,153	1.007
2013			50.00	147,893	2.02	73,214	1.004	50.21		4,892,516	97,850	0.708
<b>Subtotals / Avg. BY 2013:</b>			<b>184.46</b>	<b>2,836,613</b>	<b>26.40</b>	<b>107,447</b>	<b>1.474</b>	<b>250.90</b>	<b>1.360</b>	<b>24,610,239</b>	<b>133,418</b>	<b>0.966</b>
2014			11.49	650,505	3.92	165,945	2.276	26.15		1,727,733	150,368	1.089
2014			30.45	246,632	3.86	63,894	0.876	26.68		3,523,628	115,718	0.838
2014			15.00	454,096	3.44	132,005	1.810	27.16		2,259,011	150,601	1.090
2014			10.00	484,681	3.22	150,522	2.064	20.64		1,652,528	165,253	1.196
2014			30.45	425,896	3.01	141,494	1.941	59.09		4,013,284	131,799	0.954
2014			30.06	323,311	2.48	130,367	1.788	53.75		3,970,203	132,076	0.956
2014			39.90	12,321	2.30	5,357	0.073	2.93		4,796,863	120,222	0.870
2014			30.00	291,608	1.97	148,025	2.030	60.91		3,518,215	117,274	0.849
2014			20.00	78,989	1.86	42,467	0.582	11.65		1,785,101	89,255	0.646
<b>Subtotals / Avg. BY 2014:</b>			<b>217.35</b>	<b>2,968,038</b>	<b>26.06</b>	<b>113,892</b>	<b>1.562</b>	<b>288.96</b>	<b>1.329</b>	<b>27,246,567</b>	<b>125,358</b>	<b>0.908</b>
2015			40.00	117,591	2.38	49,408	0.678	27.11		3,443,843	86,096	0.623
2015			20.75	319,895	2.17	147,417	2.022	41.95		3,031,365	146,090	1.058
2015			20.00	185,701	1.83	101,476	1.392	27.84		2,269,938	113,497	0.822
2015			40.00	108,857	1.14	95,489	1.310	52.39		4,105,694	102,642	0.743
<b>Subtotals / Avg. BY 2015:</b>			<b>120.75</b>	<b>732,044</b>	<b>7.52</b>	<b>97,346</b>	<b>1.335</b>	<b>149.28</b>	<b>1.236</b>	<b>12,850,840</b>	<b>106,425</b>	<b>0.771</b>

Notes: (a) As provided by NICA management evaluated as of June 30, 2018.  
 (b) Number of years since date of claim as shown in column (3) to June 30, 2018.  
 (c) Based on column (7) divided by the average for all birth years.  
 (d) Average annual payment relativity shown in column (8) is based on payments to date. This relativity is adjusted to account for expected difference in duration of remaining payments.  
 (e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.  
 (f) Based on column (12) divided by the average for all birth years.

Development of Average Annual Remaining Payments Relativity

All Open Accepted Claims (AAA Only) with Life Expectancy

Birth Year	Claim #	Date of Claim	Remaining Life (a) Expectancy	Cumulative Paid (a) Loss & ALAE	Number of Years Since Date of Claim (b)	Average Annual Payment (5) / (6)	Indicated (c) Birth Year Relativity Based on Average Annual Payment	Remaining Life Expectancy X Annual Payment Relativity (d) (4) x (8)	Average Annual Remaining Payment Relativity Based on Cumulative Payments to Date (e) (9) / (4)	Current (a) Case O/S Loss & ALAE @ 6/30/18	Average Annual Remaining Payment Based on Case O/S & Life Expectancy (11) / (4)	Average Annual Remaining Payment Relativity Based on Current Case O/S (f) (13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2016			20.00	122,781	0.94	130,618	1.791	35.83		1,615,516	80,776	0.585
<b>Subtotals / Avg. BY 2016:</b>			<b>20.00</b>	<b>122,781</b>	<b>0.94</b>	<b>130,618</b>	<b>1.791</b>	<b>35.83</b>	<b>1.791</b>	<b>1,615,516</b>	<b>80,776</b>	<b>0.585</b>
<b>Totals / Averages:</b>			<b>5,226.16</b>	<b>171,023,351</b>	<b>2,345.62</b>	<b>72,912</b>				<b>721,823,681</b>	<b>138,117</b>	

- Notes: (a) As provided by NICA management evaluated as of June 30, 2018.  
 (b) Number of years since date of claim as shown in column (3) to June 30, 2018.  
 (c) Based on column (7) divided by the average for all birth years.  
 (d) Average annual payment relativity shown in column (8) is based on payments to date. This relativity is adjusted to account for expected difference in duration of remaining payments.  
 (e) Average annual remaining payment relativity based on payments to date after adjustment for expected difference in weight required for remaining average due to difference in estimated remaining life expectancy.  
 (f) Based on column (12) divided by the average for all birth years.

A. Adjustment for Life Expectancy (a) **1.250**

Birth Year	Accepted Claim Counts AAA with life expectancy			Average Life Expectancy				After (a) Adjustment Selected Remaining Life Expectancy (8) x A
	Reported Counts (b)	Ultimate Counts (c)	IBNR (3) - (2)	Actual Birth Year	All Birth Years	Indicated (d) Average Life Expectancy	Selected (e) Average Life Expectancy	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1989				20.88			20.88	26.10
1990				15.59			15.59	19.49
1991				27.89			27.89	34.86
1992				27.97			27.97	34.96
1993				25.43			25.43	31.79
1994				31.18			31.18	38.98
1995				30.08			30.08	37.60
1996				21.10			21.10	26.38
1997				31.47			31.47	39.34
1998				29.21			29.21	36.51
1999				24.17			24.17	30.21
2000				20.65			20.65	25.81
2001				29.98			29.98	37.48
2002				27.68			27.68	34.60
2003				22.03			22.03	27.54
2004				32.94			32.94	41.18
2005				27.44			27.44	34.30
2006				31.50			31.50	39.38
2007				22.52			22.52	28.15
2008				36.06			36.06	45.08
2009				33.65			33.65	42.06
2010				45.99			45.99	57.49
2011				34.01			34.01	42.51
2012				37.31			37.31	46.64
2013	7	9	2	26.35	29.03	26.95	<b>27.00</b>	33.75
2014	9	14	5	24.15	29.03	25.89	<b>26.00</b>	32.50
2015	4	15	11	30.19	29.03	29.34	<b>30.00</b>	37.50
2016	1	11	10	-	29.03	26.39	<b>27.00</b>	33.75
2017	-	13	13	-	29.03	29.03	<b>30.00</b>	37.50
2018	-	7	7	-	29.03	29.03	<b>30.00</b>	37.50

- Notes: (a) Final selected remaining life expectancy estimated to include consideration of increased life expectancy over time by 0.2 per year.  
 (b) Based on AAA claims with life expectancy.  
 (c) See Exhibit X, Sheet 1a, Column (10) minus Column (3).  
 (d) Based on the formula:  $\{[(5) \times (2)] + [(6) \times (4)]\} / (3)$ .  
 (e) For birth years 2012 and prior, it is based on actual average remaining life expectancy by birth year as shown in column (5). For birth years 2013 and subsequent, see column (7).