

Taylor&Mulder Property and Casualty Consulting Actuaries

Taylor & Mulder, Inc.

Missouri Department of Commerce and Insurance

Actuarial Review of the National Council on Compensation Insurance Missouri Advisory Loss Cost and Rating Values Filing Proposed to be Effective January 1, 2022



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October 20, 2021

Mr. Patrick Lennon
Senior Regulatory Auditor
Property and Casualty Section
Missouri Department of Commerce & Insurance
301 W. High St., Room 530
Jefferson City, MO 65101

Dear Mr. Lennon:

Enclosed is the report detailing our actuarial review of the Missouri NCCI Advisory Loss Costs and Rating Values Filing proposed to be effective January 1, 2022.

The first section in the text of our report is the **Executive Summary** section. This section presents our **Conclusions**. It also describes the **Purpose and Scope** of our report, explains the **Distribution** and **Use** of our report, and provides the **Conditions and Limitations** underlying our work.

The second section of our report is a **Summary of the NCCI's Methodology** for determining the indicated voluntary loss costs and rating factors. The third section of our report contains the **Analysis Performed by Taylor & Mulder**.

The last section of the text of our report details our Review of the NCCI's Response to Interrogatories.

Please call if you have any questions regarding any aspect of our report.

Sincerely,

Evelyn Toni Mulder, FCAS, MAAA, FCA

Daniel W. Lupton, FCAS, MAAA, CSPA, MBA

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Enclosures



Missouri Department of Commerce and Insurance Actuarial Review of the National Council on Compensation Insurance Missouri Advisory Loss Costs and Rating Values Filing

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Attachment A: NCCI Responses to Objections including Exhibits

Attachment B: Proposed and Current Loss Costs by Class Code



Executive Summary

Purpose and Scope

Taylor & Mulder, Incorporated ("T&M") was retained by the Missouri Department of Commerce and Insurance ("the Department") to provide an actuarial review of the Missouri Loss Costs and Rating Values Filing ("the Filing") filed by the National Council on Compensation Insurance ("NCCI") with a proposed effective date of January 1, 2022. This report contains our summary, conclusions, actuarial aspects raised with the NCCI, and a description of the analysis underlying our conclusions.

The scope of our work consisted of an actuarial review of all the components underlying the calculation of the Missouri advisory loss costs and the allocation of the overall indications to industry group and then to occupational classification. We reviewed each one of the analyses leading to the NCCI indications in order to determine (1) if the factors and the underlying calculations were justified based on the experience and actuarial soundness, (2) if the methodology and judgments were reasonable and (3) if the resulting advisory loss costs comply with Missouri law to the extent that the resulting loss costs are not excessive, inadequate or unfairly discriminatory.

We provided two sets of written interrogatories to the NCCI. Our interrogatories requested additional supporting data and calculations, which were also reviewed in order to reach our conclusions. The NCCI provided T&M with all the requested supporting information and additional schedules in a timely fashion.



The responses to the objections prepared by the NCCI were very thorough and detailed and included a significant number of supporting schedules, data and information that were very helpful.

Conclusions

The NCCI is proposing an overall average decrease of 7.7% in voluntary loss, effective January 1, 2022. Among Industry Groups, the 7.7% voluntary loss cost decrease is allocated to industry group as follows: a 7.9% decrease for manufacturing, a 6.3% decrease for office & clerical, a 7.5% decrease for goods & services, a 8.7% decrease for contracting, and a 7.8% decrease for miscellaneous.

NCCI Proposed Average Loss Cost Level Changes by Industry Group			
Industry Group	Average Change		
Manufacturing	-7.9%		
Contracting	-8.7%		
Office & Clerical	-6.3%		
Goods & Services	-7.5%		
Miscellaneous	-7.8%		

T&M has reviewed the methodology, calculations, assumptions, judgments, and selections of the advisory loss costs changes effective January 1, 2022 as filed by the NCCI. T&M concludes that there are several aspects of the filing where we think that different selections are more appropriate. Although, we would have selected different assumptions in certain areas, the overall effect to the indicated loss cost change is immaterial from that offered by NCCI.

Major Factors Influencing Overall Voluntary Loss Cost Level Change Indication

Although a wide variety of factors affect the overall voluntary loss cost levels, a subset of factors may be seen as having the greatest impact on the indicated loss costs:



- The filing was based on premium and loss experience from the two most recent experience periods. These periods are consistent with periods used in prior filings as can be seen by the modest rate increase and the relatively stable indication over the past two loss cost filings.
- There has been a slight decrease in indemnity and medical loss ratios during the
 experience period. The changes in loss ratio for the indemnity and medical coverages
 combined indicates a slight decrease in the average loss ratio in the current filing from
 100.5% to 92.1%.

Projected loss Ratio Including Benefit Changes					
	Effective Effective				
Coverage	1/1/2021	1/1/2022			
Indemnity Prior Policy Year	39.1%	39.5%			
Indemnity Current Policy Year	41.8%	36.1%			
Medical Prior Policy Year	59.8%	57.6%			
Medical Current Policy Year	60.2%	50.9%			
Total Prior Policy Period	98.9%	97.1%			
Total Current Policy Period	102.0%	87.0%			
Average	100.5%	92.1%			

The prior and current policy years for the filing effective 1/1/2021 are policy years 2017 and 2018 respectively whereas the prior and current policy years for the filing effective 1/1/2022 are 2018 and 2019, respectively.

• The provision for LAE has increased from 19.3% in the prior filing effective 1/1/2021 to 19.5% for this filing, resulting in a 0.2% loss cost increase.

Indication Excluding Assigned-Risk Experience

As part of our review, we requested that NCCI provide the calculation for the indicated loss cost change after removing the assigned-risk experience. After removing the assigned-risk experience,



there would be minimal changes to the loss development factors and trend assumptions. Therefore, the only changes would be to the premium and losses that were reported to NCCI. The table below shows the percentage of premiums and ultimate losses that were attributable to the assigned risk program for each policy year.

Percentage of Premiums and Ultimate Losses in the Assigned Risk Plan				
Policy Year Premium Indemnity Ultimate Losses Medical Ultimate Losses				
2019	1.2%	1.6%	1.8%	
2018	1.3%	2.4%	3.7%	

As can be seen from the table, the assigned risk plan accounts for a relatively small portion of the premiums and ultimate losses in the experience. However, since there is a higher percentage of losses in the assigned risk plan than premiums, if the associated premiums and losses were to be removed, this would cause the indicated rate change for just the voluntary market to decrease. In the supplementary analysis provided by NCCI, they have calculated that the indicated loss cost change would be 0.912 or -8.8% if the assigned risk experience were to be excluded.

Report Distribution and Use

This report has been prepared solely for internal use by the Missouri Department of Commerce and Insurance to assist the Department with its review of the NCCI filing. This report may be provided to other Missouri state agencies. The Exhibits are integral parts of this report. Other distribution or use of this report by the Department or parties described above is not authorized without the prior written permission of T&M. After approval by T&M, this report may be reproduced only in its entirety.



This report was prepared for use by persons technically competent in insurance financial matters. Persons receiving this report should be made aware of the availability of T&M personnel to answer questions and/or amplify on any matter addressed therein.

Conditions and Limitations

The actuarial review contained in this report was performed in conformance with sound actuarial standards and principles. With regard to projections of ultimate values, it should be understood that the emergence and settlement of claims are subject to uncertainty. While we have used our best professional judgment in all instances, projections of future ultimate losses and loss expenses are inherently uncertain because of the random nature of claims occurrences. They are also dependent upon future contingent events and are affected by many additional factors.

Claim reserving procedures and settlement philosophy, current and perceived social and economic inflation, current and future court and jury attitudes, improvements in medical technology, and many other economic, legal, political, and social factors all can have significant effects on ultimate claim costs. Therefore, we cannot warrant that actual developments will not differ from current projections. Such differences could be upward or downward and could be significant.

In summary, judgments regarding voluntary loss cost and assigned risk rate levels are subject to potential variations in estimation due to:

- (1) the fact that the ultimate liability of associated claims is subject to the outcome of events yet to occur,
- (2) the unanticipated changes in the legal, economic, or claims adjudication environments,



- (3) statistical fluctuation in losses around the estimated or expected values when all other factors remain constant; and,
- (4) the fact that the actual future loss and loss payment and reporting patterns may differ from those applied in the determination of the expected losses or there may be unanticipated changes in the loss and expense loss and expense reporting patterns.

Accordingly, no assurance can be given that future loss emergence will not deviate from the estimated ultimate loss and loss adjustment expenses. We performed a detailed review of the major aspects of each section of the ratemaking process. We believe our conclusions are based on a reasonable application of generally accepted actuarial procedures and techniques applied to the data and information provided by the NCCI.

T&M relied without audit or verification on historical loss, loss adjustment expense, exposure data, and other information compiled by the NCCI. T&M has relied upon the data provided and on the written statements made regarding the quality, accuracy, and completeness of the data and information supplied. Any inaccuracies or inconsistencies in the data or the written statements could have a significant effect on the conclusions drawn.

Summary of the NCCI's Methodology

The NCCI calculates proposed advisory loss cost changes by first calculating an overall proposed change in advisory loss cost level for new and renewal voluntary market policies. From this point,



the overall proposed change is allocated to industry group and then to occupational classification within each industry group and ultimately to each class.

Calculation of the Overall Voluntary Advisory Loss Cost Level Change

Overall voluntary advisory loss cost level change is calculated based on both voluntary and assigned risk market data combined for the two most recent policy years.

In this filing, policy years are 2018 and 2019 are evaluated as of December 31, 2020. The indicated changes in loss and loss adjustment expenses are calculated separately for each policy year and then combined in order to obtain the overall indicated change in advisory loss costs.

The change in loss costs excluding expenses is calculated first. This calculation involves adjusting historical earned premiums to current rate levels and removing the portion expected to cover loss adjustment expenses. The limited losses are developed to ultimate loss levels, trended and then compared to the portion of the on-level premiums available for payment of such benefits (i.e., excluding added expenses and profits). This calculation is performed separately for indemnity losses and medical losses, and the resulting ratios are added together. A final ratio of 1.000 would indicate that the portion of premiums available for the payment of benefits was exactly equal to the cost of such benefits. A ratio greater than 1.000 would indicate that the cost of the benefits exceeded the premium available to pay for such, and as a result, an increase in loss costs is indicated. A ratio lower than 1.000 indicates that a decrease in loss costs is indicated.

The specific steps involved in calculation of this ratio are as follows:



- 1. Standard earned premiums for each policy year are developed to ultimate and multiplied by an on-level factor. This factor includes placing the premium on level to reflect approved loss cost and rate level changes as well as statutory benefit levels for all years in the experience period. The factor also removes premium related to loss-based expenses because the purpose is to derive loss costs, which exclude expenses.
- Ultimate limited medical and indemnity losses are multiplied by an on-level factor to obtain on-level ultimate limited medical and indemnity losses separately for both medical and indemnity.
- 3. The results are divided by the on-level ultimate standard earned premium to produce the loss cost.
- 4. The resulting loss cost ratio is next multiplied by trend factors which are calculated based on an exponential trend of indemnity and medical loss ratios for Policy Years 2008 to 2019 (See Appendix A-III). The following chart shows current approved and selected annual loss ratio trend factors for medical and indemnity:

Annual Trend Factors			
	Indemnity	Medical	
Current Approved Annual Loss Ratio Trend Factor	0.980	0.990	
Selected Annual Loss Ratio Trend Factor	0.975	0.985	

The selected trend factor is then applied based on the length of the trend period calculated from the midpoint of each policy year to the midpoint of the effective period. For policy years 2018 and 2019, this is 4.001 and 3.001 years, respectively. So, for example, the indemnity trend factor for policy year 2018 is calculated as $0.975^4.001 = 0.904$.

5. The trended loss cost ratio is then multiplied by a factor for the adjustment of limited losses to unlimited. Losses are initially limited to exclude large losses that may increase the



volatility of loss cost change experience from year to year. A factor is then used to add back a provision for such large losses as a way of spreading such risk over a longer time-frame to achieve greater stability in loss costs. A threshold for large losses is selected based on a projection of losses at the midpoint of the loss cost effective period. The threshold for this filing is \$10,057,697 and it was determined that 1.1% of the statewide losses are expected to exceed this threshold. Therefore, a factor of 1.011 is multiplied by the ultimate loss ratio to adjust losses from a limited to an unlimited basis.

6. Finally, the unlimited trended loss cost ratio is multiplied by a factor representing proposed changes in both medical and indemnity benefits. The results for medical and indemnity are summed to obtain the indicated change in loss costs excluding expenses.

The indicated ratios are calculated separately for Policy Years 2018 and 2019 and then averaged to determine the indicated change in advisory loss costs on Exhibit I. The following table shows the results of these calculations:

Indicated Loss Cost Level Change by Policy Year				
Term Factor Percent Change				
Policy Year 2019	0.870	-13.0%		
Policy Year 2018	0.971	-2.9%		
Indicated Change	0.921	-7.9%		

Finally, a provision is made for changes in loss-based expenses. Loss-based expenses are made up of two components: defense and cost containment expenses ("DCCE") and adjusting and other expenses ("AOE"). For the DCCE expenses, the NCCI calculates the developed ratio of expenses to losses for policy years 2015 to 2019 based on Missouri data. From these indications, a statewide average is selected. An AOE provision is selected by analyzing the AOE expense ratio for accident years 2016 to 2020 countrywide. A provision of 9.4% was selected for the countrywide provision



and, after credibility weighting with Missouri data, an AOE provision of 9.5% was selected for the Missouri provision. The adjusted selected DCCE ratio and the selected AOE ratio are summed to obtain the Missouri selected loss adjustment expense ("LAE") ratio. This ratio is compared to the prior year ratio to obtain a proposed change in LAE provision.

The following table shows the results of these calculations:

Indicated LAE Provision Change			
Current Missouri LAE Provision	19.3%		
Proposed Missouri LAE Provision	19.5%		
Indicated Change Factor	1.002		

The calculated 1.002 factor is equal to (1 + 19.5%) / (1 + 19.3%). This 1.002 factor is applied to the previously calculated average loss cost factor of 1.002 to obtain the overall indicated loss-cost level change reflecting the change in loss-based expenses of 1.002 x 0.921 = 0.923, or -7.7% on Exhibit I.

Allocation of Overall to Industry Group

Each of the five industry groups has unique experience over the five-year experience period. Because the overall rate change of -7.7% represents the aggregated experience of all of the industry groups, it will only be accurate on average, i.e. for some industry groups the change of -7.7% will be inadequate, whereas for some it will be excessive. For this reason, the -7.7% must be allocated to the five industry groups to determine the relative change for each group. This is done by applying industry group differentials to the overall loss cost level change factor to obtain indicated loss cost level change factors by industry group.



Industry group differentials are calculated based on the ratio of prior five years actual losses to prior five years expected losses. Actual losses are trended, brought to current levels, developed to ultimate and include adjustments for wage trend and the off-balance factor (which is the ratio of standard premium to manual premium). Expected losses are based on underlying pure premiums multiplied by associated payrolls (in hundreds) and are adjusted for off-balance. Indicated ratios are normalized, adjusted for wage trend, credibility weighted, and re-normalized before being applied to the overall loss cost level change to obtain final level changes by industry group.

The following table from Exhibit I shows the results of this calculation:

Indicated Industry Group Loss Cost Level Change				
	(1)	(2)	$(3) = (1) \times (2)$	
	Overall	Industry	Final Loss Cost	
	Loss Cost	Group	Level Change	
Industry Group	Level Change	Differential	by Industry Group	
Manufacturing	0.923	0.998	0.921	
Contracting	0.923	0.989	0.913	
Office & Clerical	0.923	1.015	0.937	
Goods & Services	0.923	1.002	0.925	
Miscellaneous	0.923	0.999	0.922	
Overall	0.923	1.000	0.923	

Allocation to Occupational Classifications

To allocate the overall rate change to individual occupational classifications, the allocated rate change level factor by industry group is applied to occupational classifications using a three-way credibility weighting approach to obtain proposed advisory loss costs by class code.

For each occupational classification, three pure premiums are credibility weighted together:

- 1. Indicated Pure Premium
- 2. Pure Premium Indicated by National Relativity



3. Pure Premium Present on Rate Level

Weighting all of the pure premiums together results in the adjusted loss costs. The adjusted loss costs are limited to swing limits, and loaded for disease, catastrophe, and/or miscellaneous additional costs. The result is the final loaded loss cost.

Analysis Performed by Taylor & Mulder

Our review of the filing consisted an evaluation of the methodologies and assumptions underlying the determination of the indicated loss cost change. T&M reviewed all aspects of the filing, applying particular scrutiny and testing to the assumptions and selections that were used in the loss development method, trend determinations, and loss adjustment expense provisions.

Loss Development Method

When developing losses to an ultimate level, NCCI chose to use a loss development factor that was equal to the two-year average of the link ratios for the paid loss development method. They used a five-year average of the link ratios for the paid plus case loss development method. In our tests, we did not use a single prescribed average for a particular cohort of claims. For example, for the first to second loss development factor for the medical paid loss development method, we could select the three-year average of the link ratios in that period whereas for the next development period, the second to third year, we could select a different average, such as the five-year average. When making these selections, we considered trends in the link ratios as well as the stability of the link ratios over time with the goal of maximizing both stability and responsiveness. Since the NCCI used a single prescribed average without actuarial judgment, there are some cases where the selections were not always the best selection based on historical loss development.



After selecting loss development factors for the paid and paid plus case losses for medical and indemnity coverages, the cumulative loss development factors were applied to losses to bring them to an ultimate level. Although these newly calculated ultimate losses did not differ materially from the ultimate losses derived from the method used by NCCI, the net result was to lower the indication.

Trend

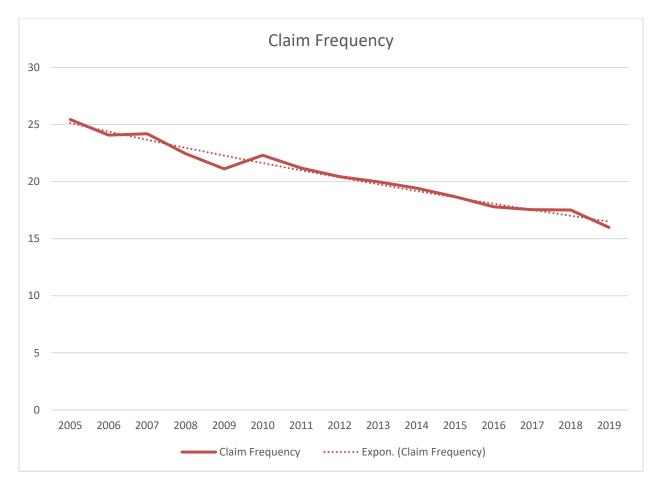
The next step in the ratemaking process that we tested was the trend factors that are used to bring losses and premiums to the projected level. In our tests, we reviewed how the premium, frequency, and severity for each year have changed from one policy period to the next over different time periods. Our review primarily focused on the selection of the frequency and severity trends. Our analysis consisted of fitting an exponential curve to the frequency and severity then selecting the trend provision that maximized the R-squared value¹.

As can be seen from the following chart, the frequency is consistently decreasing, with minimal volatility beginning in policy year 2010. We have selected a frequency trend of -3.3%, which coincides with an exponential fit of the data from policy year 2010 to 2019.

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 $^{^1}$ The R^2 value is known as the "coefficient of determination" and is a measure of the proportion of the variance that is explained by the prediction. A higher R^2 value is indicative of a model that "fits" the data better. Mathematically, the R^2 value is defined as one minus the ratio of the sum of the squared error (between the model and the dependent variable) and the variance in the dependent variable. An R-squared value close to 1.0 would indicate a strong fit whereas a value close to 0 would suggest the model is not fitting well to the data.



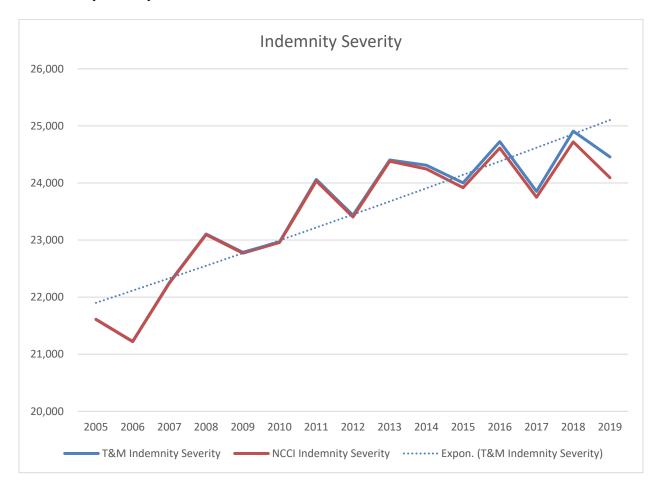


After selecting the frequency trend provision, we then analyzed the indemnity and medical severity trends. It is important to note that the loss development factors discussed in the prior section will have a direct effect on the severities, since ultimate losses are divided by the number of claims to calculate the ultimate severities.

The chart below shows the impact of our loss development factor selections on ultimate severities. Additionally, it shows how the ultimate indemnity severity changes from year to year. As can be seen from the chart, our loss development factor selections generated ultimate severities that were very similar to those calculated based on the NCCI's loss development factors (i.e., the solid red (NCCI) and solid blue (T&M) lines are very close for each policy year.) The dotted blue line shows



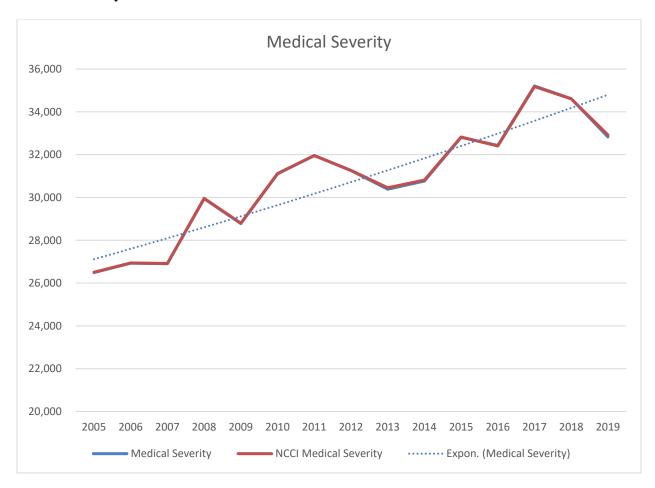
the fitted severity trend based on our selection. We selected an indemnity severity trend provision of 1.0%, which had the highest R-squared value. This trend reflects a consistent moderate increase in indemnity severity over time.



The medical trend procedure is similar to that of the indemnity trend procedure. We calculated the ultimate severities, and then analyzed them over time. Medical severities have been steadily increasing over time. Similar to the indemnity severity chart above, Taylor & Mulder's loss development factor selections generated similar medical severities to NCCI's selections. The dotted blue line shows the line of best fit. We selected the trend provision balancing the highest R-squared value with the longest time period, resulting in a medical severity trend of 1.8%. The



following chart shows the medical severities over time. The dotted blue line shows the fitted medical severity trend based on our selection.



In order to compare our trend selections with those of NCCI, we multiplied the frequency and severity trend factors together to determine a net trend. This yields a net indemnity trend of -2.3% (=(1-0.033)*(1+0.010)), which is slightly higher than the NCCI net indemnity trend selection. Repeating this same calculation for the net medical trend results in a net trend of -1.5% (=(1-0.033)*(1+0.018)), which is equal to the NCCI medical net trend of -1.5%.



Loss Adjustment Expenses

NCCI used a five-year average of the ultimate paid DCCE to paid losses ratio to determine the DCCE provision to be applied to losses. Their selection of 10.0% for the DCCE provision appears reasonable.

To determine the AOE provision, NCCI uses a weighted average of countrywide AOE paid divided by paid losses and State specific AOE paid divided by paid losses. NCCI applies a weight of 73% to the countrywide AOE ratio and a weight of 27% to the Missouri AOE to paid loss provision to calculate an AOE provision of 9.54%. These weights reflect the respective shares of ultimate projected losses.

The DCCE and AOE provisions are added together to determine a proposed LAE ratio of 19.5% which is 0.2% higher than the prior year's LAE provision of 19.3%. To account for this, NCCI applies a factor of 1.002 to the indicated rate changed based on experience, trend, and benefits. The selections and methods used to determine this provision appear reasonable.

Review of the NCCI's Response to Interrogatories

The scope of our work includes (1) a review of the Filing and (2) a review of the answers, attachments and supporting documentation provided in response to the T&M interrogatories. During the course of our review, we were provided with additional information, supporting data and calculations underlying certain portions of the filing that were not included within the filing. Therefore, our conclusions are based on the totality of the information we received from the NCCI.



Review of Responses to Interrogatories Dated September 1, 2021

This section contains a review of the responses provided by NCCI to the objections issued on September 1, 2021.

Question 1: DATA

NCCI has confirmed that there have been no changes to the underlying data used in this filing when compared to the previous filing.

Question 2: IMPACTS OF CHANGES

The changes implemented in this year's filing include a change to the Federal Classification (F-Class) Ratemaking and changes to the Calendar Year 2020 Wage Adjustment. The change to the F-Class Ratemaking caused an overall average loss cost decrease and the change to the Calendar Year 2020 Wage Adjustment did not have any influence on the overall loss cost indication.

Question 3: TERRORISM

NCCI confirmed that there have been no changes to the methodology or assumptions used to determine the terrorism loss cost.

Question 4: COVID-19

NCCI confirmed that there have been 140 COVID-19 related lost-time claims and roughly \$1.65M in case incurred losses for these claims.

Question 5: COVID-19

NCCI removed the effects of shifts in the mix of employment due to the pandemic from the CY 2020 AWW. This was done to prevent distortions in the 2018 and 2019 policy years.



Question 6: COVID-19

NCCI explained that they have not explicitly adjusted their losses for COVID-19, but the effects of the pandemic were considered in their trend selections and trend analysis. Taylor & Mulder reviewed NCCI's trend selections, and they appear reasonable.

Question 7: LOSS DEVELOPMENT TRIANGLES

NCCI provided loss development triangles with 10 years of loss development factors for indemnity and medical coverages as well as DCCE. Paid and Paid + Case triangles were provided for both the medical and indemnity coverages. We used this data to evaluate trends and make selections of loss development factors by period to test NCCI's selections.

Question 8: FACTOR TO ADJUST LOSSES FOR PRIOR POLICY YEARS

It was requested that NCCI provide detailed calculations of how the factor to adjust losses for prior policy years was determined in Appendix A-II Section G column 6. A spreadsheet showing how this was calculated was provided. T&M reviewed the calculations and determined that the calculation and methodology are appropriate.

Ouestion 9: FACTOR TO ADJUST TAIL FACTOR TO A LIMITED BASIS

We requested support for the factor to adjust the 19th-to-ultimate development factor to a limited basis since this information was not provided in the filing as seen in Appendix-II Section H line 2. This calculation was provided as a response to this interrogatory. NCCI uses a countrywide unlimited loss development factor and the expected percentage of losses about the large loss threshold to determine the countrywide limited tail factor. The countrywide limited tail factor minus one is then divided by the countrywide unlimited tail factor minus one to determine the



factor to adjust the tail factor to a limited basis. After reviewing the calculations and supporting documentation, this calculation appears reasonable.

Question 10: AOE ANALYSIS

T&M requested detailed calculations and data supporting the AOE analysis in Exhibit II Sections A and B. In response, NCCI provided spreadsheets and exhibits showing how these calculations were performed. After reviewing these exhibits, it was determined the method used by NCCI is the same as the process they had used in the prior year and the method and selections appear reasonable.

Question 11: ADJUSTMENT FOR EXPENSE REMOVAL

NCCI provided the underlying calculations for the Adjustment for Expense Removal in Appendix A-1 Section A and Section D column (6). This calculation is reasonable.

Question 12: OFF-BALANCE ADJUSTMENT FACTOR

NCCI explained that this factor is used to adjust for the difference between the observed off-balance and the target off-balance factor in the experience periods. This is necessary since the premium in the indication includes policies that have been subject to experience rating and the indication was built using standard premium. Therefore, this factor is used to bring premiums to a common level. NCCI demonstrated that the off-balance factor is determined by taking a weighted average of the intrastate and interstate experience rating modification factor (e-mod). This method appears reasonable.

Question 13: INDUSTRY GROUP DIFFERENTIALS

This question asks for the calculations underlying the factors in the determination of the industry group factors in Appendix A-IV, Section I, Columns (4) and (5). NCCI provided these calculations



in Exhibit 13 of their response. Taylor & Mulder reviewed these calculations, and they appear reasonable.

Question 14: LIMITED LOSS DEVELOPMENT FACTORS

T&M asked for the underlying data and calculations of the limited loss development factors in Appendix B-1 Section A-1 Part 1. NCCI provided the requested information as Exhibit 14. We reviewed this exhibit and determined that the method and assumptions appear reasonable.

Question 15: TREND

The question asks for underlying data, fits, assumptions, calculation, selections and rationale that went into the selection of the indemnity and medical trend factors. NCCI provided Exhibit 15, "Supplemental Loss Development and Trend Information", as support for these calculations.

Question 16: F-CLASS TREND

In this question, we asked why the trends used in the F-Class Countrywide Pure Premium were not equal to the selected trends in this analysis. NCCI explained that this countrywide analysis is done before the Missouri analysis so they used the prior year's selected trends. This method appears reasonable.

Question 17: INDEX TO COUNTRYWIDE

NCCI applies a factor of 0.684 to adjust countrywide losses to a Missouri basis in Appendix B-IV Part 1 Section C. T&M requested the underlying data and calculations for this factor. NCCI provided the underlying data, calculations and a description stating that the Missouri pure premiums for the hazard groups E, F, and G are weighted by the overall F-Class countrywide payroll distribution to determine this factor. It was determined that this method and the assumptions underlying this method are reasonable.



Question 18: COUNTRYWIDE LOSSES

T&M requested the underlying data and calculations for the 10-Year Countrywide Losses in Appendix B-IV Part 1 Section D. NCCI explained that this value represents the countrywide losses adjusted for Missouri state acts. That is, the losses occurring under Missouri state acts had to be brought to a federal level before they were ready to be used in the analysis. NCCI provided Exhibit 18 to show how the state act losses were converted to a federal level. The methods and assumptions used appear reasonable.

Question 19: COUNTRYWIDE RELATIVITY

In determining the countrywide relativity for the F-Classes, there were certain class codes that contained a limited amount of data. In response to this, NCCI set the countrywide relativity equal to 1.000 so the relativity would be equal to the countrywide level. Of these codes, only one code 9077 exists in Missouri and it had no payroll in the most recent policy year. It was determined that setting these class codes equal to 1.000 would have no impact on the Missouri F-Class premium.

Question 20: STATE ACT PURE PREMIUM RELATIVITY

NCCI applies the state act pure premium relativity factor to adjust state act losses to the federal level. NCCI provided T&M with the calculation of this factor and it appears reasonable.

Question 21: FEDERAL ACT LOSS-BASED ASSESSMENT

NCCI pointed to where in the filing the federal act loss-based assessment factor was calculated. The calculation appears reasonable.

Question 22: EXCESS RATIOS

In response to this objection, NCCI provided Exhibit 22 which detailed how the excess ratios in Appendix B-IV Section B were calculated. The methods and assumptions appear reasonable.



Question 23: COUNTRYWIDE RELATIVITY

T&M asked why the countrywide relativities in the F-Class ratemaking were set equal to 1.000 instead of using credibility weighting. NCCI explained that they set these relativities to 1.000 because even at the countrywide level the data was limited and reiterated that there would be no impact to the state of Missouri. This response is reasonable.

Question 24: F-CLASS DATA

The limited loss development factors seen in Appendix B-IV Section 3 are derived using countrywide data excluding Texas. NCCI explained that they excluded Texas because their data is not available on a likely-to-develop and a not-likely-to-develop basis.

Question 25: F-CLASS DATA

The data used in the F-Class ratemaking runs through policy year 2017 whereas the rest of the analysis relies on data through 2019. NCCI explained that the F-Class analysis only uses data up to policy year 2017 because they only used approved data for all states from the prior filing session.

Question 26: ASSIGNED RISK PLAN

This question asked for the indicated loss cost change when assigned risk experience was removed from the analysis. An overall average loss cost level indication of -8.8% would result if the assigned risk experience was removed from the filing. The details of this calculation were provided in Exhibit 26, "Voluntary Only Indication". Taylor & Mulder reviewed the calculation and assumptions determined that they were appropriate.

Question 27: CLASS RATEMAKING

NCCI indicated that there were no updates to the small class ratemaking in the past year.



Question 28: CLASSIFICATIONS

T&M requested information pertaining to the loss cost changes and payrolls by class code. NCCI provided an excel spreadsheet with this information in Exhibit 28 in the responses to the objections. We evaluated the data and calculated several statistics based on the history of rate changes, including:

- Coefficient of Variation of Loss Costs from loss costs that are effective from January 1, 2019 to January 1, 2022.
- 2. Absolute Percent Change in loss costs from changes effective from January 1, 2019 to January 1, 2022 (i.e., the total amount of rate change over time. For example, if a class code had a 10% increase and a 10% decrease, the absolute change would be 21% (= (1+|.1|) × (1+|-.1|)-1) = $((1.1 \times 1.1)-1.0)$).
- 3. Total "Swing" (i.e. the maximum change minus the minimum change in loss costs from loss cost changes effective from January 1, 2019 to January 1, 2022).

Attachment B displays loss costs and changes in loss costs by individual class codes. The data is sorted in three ways; (1) by dollar amount of payroll written in each class, (2) by absolute change percent of changes effective from January 1, 2019 to January 1, 2022 and (3) by swing. We searched for class codes that had particularly high payrolls and unusual or unstable loss cost change history, which would indicate potential issues with the classification rate making algorithm. We also reviewed the class codes with the largest amount of change and the widest swings in rate change history to see if similar stability issues could be detected.



One class code, number 7403, has a somewhat unusual rate change history. Class code 7403 received a 1.3% decrease in 2020, a 9.3% increase in 2021, and a 16.4% decrease in 2022. This swinging back and forth implies that the class code's claims history may be receiving excessive credibility, causing an excessive impact on the loss cost from year to year.

Of the remaining 509 class codes with payrolls greater than \$0 in 2018 or 2019, we observe several other classes that have swings that are over 20%. The highest 38 swing classes have swings that are greater than 20%. However, the remainder of the classes are under 20% for the three years of changes. Since most of the class codes have swings that are less than 20% over this period, the new classification methodology appears to be achieving the goal of less volatility in class ratemaking.

The NCCI implemented a new classification ratemaking methodology effective January 1, 2019. If we look at the classification information sorted by payroll, we observe that the smaller classes do not appear to have a higher absolute value of rate changes from 2019 to 2021 than the higher payroll classes.

In our interrogatories, Taylor & Mulder asked for any updates on class ratemaking research, status and results, or stability performance results on tests of the performance of the recently implemented small class ratemaking project intended to address the stability of the small classes.

The response included two studies that dated 2017 and 2018, before this change was implemented. It would be helpful to have an update of those studies to understand if the classification ratemaking



has improved the volatility in the small class ratemaking. Our methodology was an attempt to test the new classification methodology but the NCCI has much more information available to do a more detailed evaluation.

Review of Responses to Interrogatories Dated September 24, 2021

This section contains a review of the responses provided by NCCI to the objections issued on September 24, 2021.

Question 1: AWW SHIFT

NCCI derived a hypothetical AWW for 2020 for the shift of business that was due to the pandemic. They provided Exhibit 1 in response to this objection to demonstrate that 1.3% of the growth in AWW is due to this shift in business. This assumption appears reasonable.

Question 2: AOE

NCCI certified that the method used to determine the AOE provision was mainly the same as last year aside from a consideration for the COVID-19 pandemic. NCCI provided Exhibit 2 to demonstrate how the AOE provision was calculated and how the factors to adjust the AOE provision were determined. The methods and assumptions used appear reasonable.

Question 3: EXCESS RATIOS

NCCI provided Exhibits 5A-5C of the MO ELF 2022-1-1 spreadsheet to show Missouri's values that contribute to the countrywide data. They also provided the "Excess Loss Factor Calculations" exhibit which describes and calculates the excess loss factors. Further information was provided in Exhibit VI of the "CW20191001" file. After reviewing these files and exhibits, it was determined that these methods appear reasonable.

Determination of Loss Cost Level Change

		Policy Ye	ar
<u>Prem</u>	<u>ium</u>	<u>2019</u>	<u>2018</u>
(1)	Standard Earned Premium Developed to Ultimate	615,309,646	632,858,547
(2)	Premium On-level Factor	0.826	0.799
(3)	Pure Premium Available for Benefit Costs = (1) x (2)	508,245,768	505,653,979
Inden	nnity Benefit Cost:		
(4)	Limited Indemnity Losses Developed to Ultimate	198,714,745	220,676,295
(5)	Indemnity Loss On-level Factor	1.000	1.000
(6)	Adjusted Limited Indemnity Losses = (4) x (5)	198,714,745	220,676,295
(7)	Adjusted Limited Indemnity Cost Ratio excluding Trend and Benefits = (6) / (3)	0.391	0.436
(8)	Factor to Reflect Indemnity Trend	0.932	0.910
(9)	Projected Limited Indemnity Cost Ratio = (7) x (8)	0.364	0.397
(10)	Factor to Adjust Indemnity Cost Ratio to an Unlimited Basis	1.011	1.011
(11)	Projected Indemnity Cost Ratio = (9) x (10)	0.368	0.402
(12)	Factor to Reflect Proposed Changes in Indemnity Benefits	1.000	1.000
(13)	Projected Indemnity Cost Ratio including Benefit Changes = (11) x (12)	0.368	0.402
NCCI	Indemnity Benefit Cost	0.361	0.395
	cal Benefit Cost:	0.501	0.555
	Limited Medical Losses Developed to Ultimate	268,799,464	306,147,580
	Medical Loss On-level Factor	1.000	1.000
	Adjusted Limited Medical Losses = (14) x (15)	268,799,464	306,147,580
(17)	Adjusted Limited Medical Cost Ratio excluding Trend and Benefits = (16) / (3)	0.529	0.605
(18)	Factor to Reflect Medical Trend	0.955	0.941
(19)	Projected Limited Medical Cost Ratio = (17) x (18)	0.505	0.570
(20)	Factor to Adjust Medical Cost Ratio to an Unlimited Basis	1.011	1.011
(21)	Projected Medical Cost Ratio = (19) x (20)	0.511	0.576
(22)	Factor to Reflect Proposed Changes in Medical Benefits	1.000	1.000
(23)	Projected Medical Cost Ratio including Benefit Changes = (21) x (22)	0.511	0.576
NCCI	Medical Benefit Cost	0.509	0.576
<u>Total</u>	Benefit Cost:		
(24)	Indicated Change Based on Experience, Trend, and Benefits = (13) + (23)	0.879	0.978
NCCI	Indicated Change Based on Experience, Trend, and Benefits	0.870	0.971
<u>Total</u>	Indicated Change		
(25)	PY 2018 Indicated Change Based on Experience, Trend and Benefits		0.879
	PY 2017 Indicated Change Based on Experience, Trend and Benefits		0.978
	Indicated Change Based on Experience, Trend, and Benefits = Average of (25) and (26)		0.929
(28)			1.001
	Indicated Change Modified to Reflect the Change in Loss-Based Expenses = (27) * (28)		0.930
NCCI	Indicated Change Modified to Reflect the Change in Loss-Based Expenses		0.923

Missouri				
<u>Provisions</u>	<u>Current</u>		<u>Proposed</u>	
(1) AOE		8.4%	9.5%	
(2) DCCE		10.3%	10.0%	
(3) Total LAE = (1) + (2)		19.3%	19.5%	
(4) Proposed Change in MO L	AE Provision		1.001	
= [1 + (3 Proposed)] / [1 + (3 Current)]			
Accident	CW Ult			
<u>Year</u>	AOE Ratio			
2015	8.5%			
2016	9.1%			
2017	9.1%			
2018	9.4%			
2019	9.8%			
T&M CW Selected	9.2%			
NCCI CW Selected	9.4%			
T&M MO Selected	9.5%			
NCCI MO Selected	9.5%			
(5)	(6)		(7)	(8) = (6) * (7)
(5)	ReportedRatio of		Age to Ult	Ultimate
Policy	Paid DCCE to		Development	DCCE
<u>Year</u>	Paid Losses		<u>Factor</u>	Ratio
2015	10.5%		0.966	10.1%
2016	10.6%		0.962	10.2%
2017	10.0%		0.972	9.7%
2018	9.9%		0.997	9.9%
2019	9.3%		1.076	10.0%
			T&M Selected	10.0%

NCCI Selected

10.0%

AOE Provision

		State Fund				
	Ultimate AOE	Ultimate AOE	Average	Ultimate AOE	Ultimate AOE	Average
	Ratio Based on	Ratio Based on	Ultimate	Ratio Based on	Ratio Based on	Ultimate
Accident Year	Paid Data	Incurred Data	AOE Ratio	Paid Data	Incurred Data	AOE Ratio
2016	8.5%	8.5%	8.5%	9.7%	9.1%	9.4%
2017	9.1%	9.0%	9.1%	9.4% 8.5%		9.0%
2018	9.2%	9.0%	9.1%	9.8%	8.8%	9.3%
2019	9.6%	9.2%	9.4%	11.4%	10.4%	10.9%
2020	10.4%	9.2%	9.8%	13.2%	10.8%	12.0%
		T&M Selected AOE Povision	9.2%	T&M Sele	ected AOE Povision	10.1%
		NCCI Selected AOE Provision	9.4%	NCCI Sele	cted AOE Provision	9.9%
		T&M Weights	70.0%			30.0%
		NCCI Weights	73.0%			27.0%
		T&M Weighted Average AOE Ratio	9.45%			
		NCCI Weighted Average AOE Ratio	9.54%			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy	Claim	Fitted		T&M Indemnity	Fitted		Medical	Fitted	
<u>Year</u>	<u>Frequency</u>	<u>Trend</u>	R ²	<u>Severity</u>	<u>Trend</u>	R ²	Severity	Trend	R ²
2005	25.441	-3.0%	97.0%	21,609	1.0%	79.3%	26,452	1.8%	83.2%
2006	24.075	-2.9%	96.4%	21,220	0.9%	74.6%	26,885	1.7%	79.4%
2007	24.193	-2.9%	95.7%	22,256	0.8%	72.8%	26,859	1.6%	74.2%
2008	22.445	-2.8%	94.7%	23,105	0.7%	65.6%	29,916	1.4%	68.8%
2009	21.112	-2.9%	93.8%	22,802	0.7%	59.9%	28,724	1.4%	66.1%
2010	22.308	-3.3%	97.5%	23,003	0.5%	46.8%	31,047	1.2%	54.8%
2011	21.184	-3.2%	96.7%	24,099	0.3%	27.4%	31,895	1.3%	52.9%
2012	20.434	-3.2%	95.4%	23,494	0.4%	30.0%	31,196	1.7%	63.6%
2013	19.980	-3.3%	93.9%	24,387	0.2%	6.7%	30,328	2.0%	63.9%
2014	19.424	-3.3%	90.7%	24,313	0.3%	11.3%	30,708	1.8%	46.8%
2015	18.674	-3.2%	84.1%	24,007	0.4%	14.5%	32,746	0.9%	14.8%
2016	17.794	-3.2%	72.2%	24,727	0.1%	0.5%	32,357	0.5%	3.0%
2017	17.539	-4.5%	76.1%	23,856	1.3%	33.2%	35,116	-2.9%	93.4%
2018	17.515	-8.7%	100.0%	24,910	-1.8%	100.0%	34,558	-4.3%	100.0%
2019	15.984			24,460			33,087		
(11) T&M Selected -3.3%		-3.3%			1.0%			1.8%	
(12) T&M Net Trend					-2.3%			-1.5%	
(13) Curre	nt NCCI Net Trend				-2.0%			-1.0%	
(14) Select	ted NCCI Net Trend				-2.5%			-1.5%	

(15)	(16)	(17) = [1 + (12 Indemnity)] ^ (16)	+ (12 Medical)] ^ (16)
Policy		Trend Factor	
<u>Year</u>	<u>Years</u>	<u>Indemnity</u>	<u>Medical</u>
2018	4.001	0.9103	0.9410
2019	3.001	0.9319	0.9554

Indemnity Ultimate Losses

(1)	(2)	(3)	(4)	(5) = 1 - (3)	(6) = (2) * (3) + (4) * (5)
	Paid	Paid Ult	Paid + Case	Paid + Case Ult	Selected
	On-Level	Loss	On-Level	Loss	On-Level
Policy Year	Ult. Losses	<u>Weight</u>	<u>Ult. Losses</u>	<u>Weight</u>	<u>Ult. Losses</u>
2005	183,984,733	50%	186,008,924	50%	184,996,828
2006	184,241,781	50%	185,676,338	50%	184,959,059
2007	212,044,462	50%	214,827,138	50%	213,435,800
2008	195,841,701	50%	199,560,257	50%	197,700,979
2009	177,474,945	50%	176,231,434	50%	176,853,190
2010	198,682,595	50%	196,475,024	50%	197,578,810
2011	203,156,917	50%	198,053,828	50%	200,605,372
2012	192,849,035	50%	185,862,742	50%	189,355,888
2013	197,130,274	50%	197,787,559	50%	197,458,916
2014	202,168,039	50%	200,587,128	50%	201,377,583
2015	204,929,680	50%	199,430,896	50%	202,180,288
2016	209,140,103	50%	206,632,050	50%	207,886,076
2017	209,772,393	50%	208,091,327	50%	208,931,860
2018	215,888,456	50%	225,464,133	50%	220,676,295
2019	200,199,230	50%	197,230,260	50%	198,714,745

Medical Ultimate Losses

(1)	(2)	(3)	(4)	(5) = 1 - (3)	(6) = (2) * (3) + (4) * (5)
	Paid	Paid Ult	Paid + Case	Paid + Case Ult	Selected
	On-Level	Loss	On-Level	Loss	On-Level
Policy Year	Ult. Losses	<u>Weight</u>	Ult. Losses	<u>Weight</u>	<u>Ult. Losses</u>
2005	223,942,690	50%	232,167,901	50%	228,055,296
2006	235,425,866	50%	236,524,139	50%	235,975,002
2007	259,878,768	50%	258,888,994	50%	259,383,881
2008	254,269,350	50%	261,265,161	50%	257,767,256
2009	226,380,420	50%	222,308,868	50%	224,344,644
2010	269,996,532	50%	267,066,764	50%	268,531,648
2011	269,270,869	50%	265,451,221	50%	267,361,045
2012	255,368,965	50%	251,028,530	50%	253,198,747
2013	248,515,730	50%	244,577,993	50%	246,546,862
2014	257,835,602	50%	250,851,185	50%	254,343,393
2015	274,708,257	50%	276,849,439	50%	275,778,848
2016	274,251,058	50%	269,816,572	50%	272,033,815
2017	304,683,301	50%	310,416,099	50%	307,549,700
2018	307,829,046	50%	304,466,113	50%	306,147,580
2019	280,064,017	50%	257,534,911	50%	268,799,464

Indemnity Ultimate Losses

(1)	(2)	(3)	(4)	(5) = 1 - (3)	(6) = (2) * (3) + (4) * (
	Paid		Paid + Case		Selected
	Wage Adj	Paid Ult	Wage Adj	Paid + Case Ult	Wage Adj
	On-Level	Loss	On-Level	Loss	On-Level
Policy Year	Ult. Losses	Weight	<u>Ult. Losses</u>	<u>Weight</u>	<u>Ult. Losses</u>
2005	262,118,634	50%	265,002,449	50%	263,560,542
2006	253,992,587	50%	255,970,243	50%	254,981,415
2007	280,363,280	50%	284,042,508	50%	282,202,894
2008	253,418,181	50%	258,229,974	50%	255,824,078
2009	229,830,409	50%	228,220,060	50%	229,025,235
2010	252,692,671	50%	249,884,991	50%	251,288,831
2011	251,836,768	50%	245,510,892	50%	248,673,830
2012	233,815,570	50%	225,345,192	50%	229,580,381
2013	234,335,853	50%	235,117,191	50%	234,726,522
2014	232,493,245	50%	230,675,197	50%	231,584,221
2015	230,750,820	50%	224,559,189	50%	227,655,004
2016	231,099,814	50%	228,328,415	50%	229,714,114
2017	224,666,233	50%	222,865,811	50%	223,766,022
2018	223,660,440	50%	233,580,842	50%	228,620,641
2019	200,199,230	50%	197,230,260	50%	198,714,745

Medical Ultimate Losses

(1)	(2)	(3)	(4)	(5) = 1 - (3)	(6) = (2) * (3) + (4) * (
	Paid		Paid + Case		Selected
	Wage Adj	Paid Ult	Wage Adj	Paid + Case Ult	Wage Adj
	On-Level	Loss	On-Level	Loss	On-Level
Policy Year	Ult. Losses	Weight	<u>Ult. Losses</u>	<u>Weight</u>	<u>Ult. Losses</u>
2005	316,821,353	50%	328,457,913	50%	322,639,633
2006	322,298,010	50%	323,801,546	50%	323,049,778
2007	341,220,823	50%	339,921,249	50%	340,571,036
2008	326,736,115	50%	335,725,732	50%	331,230,924
2009	291,125,220	50%	285,889,205	50%	288,507,212
2010	341,005,619	50%	337,305,323	50%	339,155,471
2011	331,472,440	50%	326,770,453	50%	329,121,446
2012	307,464,234	50%	302,238,350	50%	304,851,292
2013	294,242,625	50%	289,580,344	50%	291,911,484
2014	296,510,942	50%	288,478,863	50%	292,494,902
2015	309,321,498	50%	311,732,469	50%	310,526,983
2016	303,047,419	50%	298,147,312	50%	300,597,366
2017	326,315,815	50%	332,455,642	50%	329,385,729
2018	318,910,892	50%	315,426,893	50%	317,168,892
2019	280,064,017	50%	257,534,911	50%	268,799,464

<u>Tail</u> 1.035

Cumulative

3.559

1.976

1.536

1.348

1.246

1.183

1.147

1.122

1.103

1.087

1.077

1.069

1.063

1.054

1.050

1.044

1.041

1.039

		Ultimate		Wage Adj														
		Development	Ultimate	On-Level														
Policy Year	Losses	Factor	Losses	Ult. Losses														
2005	175,272,624	1.050	183,984,733	262,118,634														
2006	174,731,209	1.054	184,241,781	253,992,587														
2007	199,502,693	1.063	212,044,462	280,363,280														
2008	183,250,397	1.069	195,841,701	253,418,181														
2009	164,811,930	1.077	177,474,945	229,830,409														
2010	182,860,647	1.087	198,682,595	252,692,671														
2011	184,106,596	1.103	203,156,917	251,836,768														
2012	171,945,395	1.122	192,849,035	233,815,570														
2013	171,844,519	1.147	197,130,274	234,335,853														
2014	170,870,752	1.183	202,168,039	232,493,245														
2015	164,518,302	1.246	204,929,680	230,750,820														
2016	155,116,819	1.348	209,140,103	231,099,814														
2017	136,538,641	1.536	209,772,393	224,666,233														
2018	109,234,703	1.976	215,888,456	223,660,440														
2019	56,250,726	3.559	200,199,230	200,199,230														
Indemnity Limited Sta	stowido Daid Locc	Davidonment thre	uah @12/10															
indennity Limited Sta	itewide Paid Loss	Development tino	ugii @12/15															
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992																		1.004
1993																	1.002	1.004
1994																1.004	1.004	1.001
1995															1.004	1.007	1.004	1.002
1996														1.004	1.005	1.005	1.004	1.002
1997													1.004	1.004	1.002	1.003	1.002	1.004
1998												1.007	1.005	1.006	1.004	1.005	1.004	1.007
1999											1.006	1.006	1.008	1.007	1.001	1.007	1.002	1.002
2000										1.008	1.003	1.013	1.006	1.006	1.004	1.003	1.004	1.001
2001									1.010	1.010	1.007	1.004	1.012	1.003	1.004	1.004	1.003	1.006
2002								1.018	1.008	1.009	1.008	1.007	1.003	1.004	1.003	1.004	1.002	
2003							1.023	1.016	1.016	1.005	1.006	1.005	1.007	1.007	1.005	1.002		
2004						1.032	1.021	1.020	1.014	1.014	1.007	1.006	1.012	1.005	1.005			
2005					1.046	1.036	1.022	1.012	1.014	1.009	1.009	1.006	1.004	1.004				
2006				1.068	1.040	1.032	1.026	1.016	1.009	1.008	1.010	1.005	1.012					
2007			1.125	1.077	1.054	1.036	1.018	1.016	1.021	1.013	1.006	1.006						
2008	4 700	1.248	1.159	1.092	1.047	1.041	1.019	1.020	1.020	1.009	1.006							
2009	1.799	1.292	1.141	1.091	1.059	1.026	1.023	1.017	1.012	1.006								
2010	1.872	1.289	1.152	1.092	1.051	1.033	1.020	1.016	1.016									
2011 2012	1.789 1.801	1.295 1.308	1.161 1.155	1.092 1.087	1.060 1.052	1.045 1.031	1.024 1.028	1.013										
2012	1.747	1.328	1.155	1.087	1.032	1.031	1.028											
2013	1.869	1.268	1.182	1.073	1.040	1.022												
2015	1.806	1.282	1.117	1.074	1.001													
2016	1.782	1.291	1.135	1.080														
2017	1.812	1.263	1.133															
2018	1.735	1.203																
2 Yr Avg	1.774	1.277	1.140	1.080	1.051	1.027	1.026	1.015	1.014	1.008	1.006	1.006	1.008	1.005	1.005	1.003	1.003	1.004
3 Yr Avg	1.776	1.279	1.132	1.078	1.051	1.033	1.024	1.015	1.016	1.009	1.007	1.006	1.009	1.005	1.004	1.003	1.003	1.003
5 Yr Avg	1.801	1.286	1.147	1.082	1.053	1.031	1.023	1.016	1.016	1.009	1.008	1.006	1.008	1.005	1.004	1.004	1.003	1.004
5 Yr Avg (Ex. Hi Lo)	1.800	1.280	1.145	1.082	1.054	1.030	1.022	1.016	1.016	1.009	1.007	1.006	1.008	1.004	1.004	1.004	1.003	1.004
5 Yr Median	1.806	1.282	1.144	1.086	1.052	1.031	1.023	1.016	1.016	1.009	1.007	1.006	1.007	1.004	1.004	1.004	1.003	1.004
7 Yr Avg	1.793	1.291	1.149	1.085	1.053	1.033	1.023	1.016	1.015	1.009	1.007	1.006	1.008	1.005	1.004	1.004	1.003	1.003
All Yr Avg	1.801	1.286	1.147	1.083	1.051	1.033	1.022	1.016	1.014	1.009	1.007	1.007	1.007	1.005	1.004	1.004	1.003	1.003
T&M Selected	1.801	1.286	1.140	1.082	1.053	1.031	1.023	1.016	1.016	1.009	1.008	1.006	1.008	1.005	1.005	1.003	1.003	1.004

<u>Tail</u> 1.010

Policy Year 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	Losses 183,345,122 182,797,942 210,696,194 194,671,655 171,742,573 191,342,968 192,303,622 179,926,706 190,707,840 191,834,160 188,206,416 189,654,027 182,768,806 185,280,244 143,229,428	Ultimate Development Factor 1.015 1.016 1.020 1.025 1.026 1.027 1.030 1.033 1.037 1.046 1.060 1.090 1.139 1.217 1.377	199,560,257 176,231,434 196,475,024 198,053,828 185,862,742 197,787,559 200,587,128 199,430,896 206,632,050 208,091,327 225,464,133 197,230,260	255,970,243 284,042,508 258,229,974 228,220,060 249,884,991 245,510,892 225,345,192 235,117,191 230,675,197 224,559,189 228,328,415 222,865,811 233,580,842 197,230,260														
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	1.119 1.124 1.095 1.136 1.128 1.135 1.123 1.140 1.127 1.133	1.041 1.063 1.059 1.051 1.078 1.089 1.054 1.063 1.063	1.024 1.055 1.028 1.043 1.072 1.038 1.074 1.021 1.033 1.059	1.013 1.009 1.029 1.041 1.029 1.033 1.019 1.040 1.028	1.017 1.017 1.021 1.028 1.005 1.015 1.017 1.002 1.002	0.996 1.006 1.004 1.001 1.013 1.002 1.014 1.003 1.009 1.013	1.005 1.001 1.005 1.009 1.007 1.009 1.014 1.006 1.002	1.005 1.005 1.001 1.000 1.002 1.014 1.008 1.001 1.000 0.997	1.007 1.005 1.007 1.008 1.006 1.002 1.012 1.002 1.004 0.995	1.003 0.997 1.002 1.000 1.003 0.996 1.001 1.002 1.003 0.999	0.999 1.003 1.004 0.995 1.000 1.005 0.998 1.002 1.000	1.005 1.002 1.004 1.001 0.999 1.008 1.011 1.004 1.002	0.999 1.001 1.003 1.001 1.003 0.998 1.006 1.002	1.000 0.999 1.006 0.999 1.001 0.999 1.004 1.002	1.000 1.001 0.998 0.999 1.001 1.000 1.001 1.002 1.002	1.000 1.000 1.001 0.998 1.003 1.001 1.000 1.000 1.000	1.002 1.000 1.000 1.001 1.004 1.002 1.001 0.996 0.999 1.001	1.002 1.003 1.001 1.001 1.002 1.003 1.000 1.003 1.001
2 Yr Avg	1.130	1.069	1.046	1.025	1.013	1.011	1.003	0.999	1.000	1.001	1.001	1.002	1.006	1.002	1.004	1.003	1.000	1.002
3 Yr Avg	1.133	1.067	1.038	1.030	1.012	1.008	1.004	0.999	1.000	1.001	1.000	1.003	1.006	1.003	1.003	1.002	0.999	1.002
5 Yr Avg (Ev. Hillo)	1.132	1.069	1.045	1.028	1.013	1.008	1.007	1.004	1.003	1.000	1.001	1.005	1.004	1.001	1.002	1.001	1.000	1.002
5 Yr Avg (Ex. Hi Lo) 5 Yr Median	1.132 1.133	1.067 1.063	1.043 1.038	1.027 1.028	1.014 1.015	1.008 1.009	1.006 1.006	1.003 1.001	1.003 1.002	1.001 1.001	1.001 1.000	1.005 1.004	1.004 1.003	1.001 1.002	1.002 1.002	1.001 1.001	1.000 1.001	1.002 1.002
7 Yr Avg	1.133	1.063	1.038	1.028	1.015	1.009	1.006	1.001	1.002	1.001	1.000	1.004	1.003	1.002	1.002	1.001	1.001	1.002
All Yr Avg	1.126	1.064	1.045	1.026	1.014	1.006	1.007	1.003	1.004	1.001	1.000	1.004	1.003	1.001	1.001	1.001	1.001	1.002
T&M Selected	1.132	1.069	1.045	1.028	1.013	1.008	1.004	1.003	1.003	1.001	1.001	1.005	1.003	1.001	1.001	1.001	1.001	1.002
Cumulative	1.377	1.217	1.139	1.090	1.060	1.046	1.037	1.033	1.030	1.027	1.026	1.025	1.020	1.016	1.015	1.013	1.011	1.011

Policy Year 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	Losses 212,183,616 222,130,869 244,128,698 238,049,872 211,200,734 250,938,649 248,623,294 233,684,224 224,894,120 231,063,706 242,881,235 238,002,558 257,561,357 245,537,446	1.060 1.065 1.068 1.072 1.076 1.083 1.093 1.105 1.116 1.131 1.152	Ultimate <u>Losses</u> 223,942,690 235,425,866 259,878,768 254,269,350 226,380,420 269,996,532 269,9270,869 255,368,965 248,515,730 274,708,257 274,251,058 304,683,301 307,829,046	341,220,823 326,736,115 291,125,220 341,005,619 331,472,440 307,464,234 294,242,625 296,510,942 309,321,498 303,047,419 326,315,815																
2019	183,528,497	1.526	280,064,017	280,064,017																
Medical Limited State	wide Paid Loss Dev	velopment throu	gh @12/19																	
PY 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	1,226 1,243 1,218 1,226 1,219 1,241 1,237 1,205 1,212 1,191	1.064 1.059 1.059 1.058 1.066 1.064 1.061 1.059 1.060 1.055	1.036 1.033 1.036 1.036 1.036 1.030 1.027 1.021 1.035	1.017 1.009 1.023 1.017 1.016 1.020 1.019 1.016 1.015	1.026 1.014 1.012 1.013 1.013 1.015 1.018	1.015 1.022 1.009 1.011 1.019 1.010 1.013 1.009 1.007	1.014 1.012 1.014 1.019 1.019 1.006 1.009 1.012 1.017	1.011 1.008 1.007 1.006 1.007 1.004 1.006 1.007 1.011	1.007 1.006 1.009 1.012 1.006 1.004 1.004 1.012 1.003 1.010	1.006 1.009 1.007 1.005 1.005 1.003 1.005 1.005	1.008 1.007 1.007 1.005 1.005 1.004 1.005 1.003 1.004	1.012 1.007 1.007 1.004 1.005 1.004 1.005 1.003 1.001	1.005 1.007 1.010 1.004 1.003 1.007 1.002 1.004 1.004	1.004 1.006 1.003 1.004 1.004 1.004 1.004 1.005 1.004	1.005 1.000 1.004 1.003 1.002 1.001 1.003 1.003 1.002 1.004	1.008 1.003 1.001 1.006 1.001 1.008 1.002 1.003 1.011 1.004	17/18 1.003 1.004 1.004 1.003 1.005 1.001 1.001 1.003 1.003	18/19 1.001 1.003 1.004 1.003 1.001 1.011 1.002 1.001 1.003		
2 Yr Avg 3 Yr Avg 5 Yr Avg 5 Yr Avg (Ex. Hi Lo) 5 Yr Median 7 Yr Avg All Yr Avg T&M Selected Cumulative	1.202 1.203 1.217 1.218 1.212 1.219 1.222 1.217 1.526	1.058 1.058 1.060 1.060 1.060 1.061 1.060 1.254	1.028 1.025 1.027 1.026 1.027 1.029 1.031 1.027 1.183	1.020 1.018 1.019 1.018 1.019 1.018 1.018 1.019 1.152	1.012 1.013 1.014 1.015 1.015 1.015 1.016 1.014 1.131	1.008 1.010 1.010 1.010 1.010 1.011 1.013 1.010 1.116	1.015 1.013 1.011 1.011 1.012 1.011 1.012 1.011 1.105	1.009 1.008 1.006 1.006 1.006 1.006 1.007 1.009	1.007 1.008 1.007 1.006 1.004 1.007 1.007 1.007	1.003 1.004 1.004 1.004 1.005 1.005 1.006 1.004 1.076	1.004 1.004 1.004 1.004 1.004 1.004 1.005 1.004 1.072	1.002 1.003 1.003 1.004 1.004 1.004 1.005 1.003 1.068	1.005 1.004 1.004 1.004 1.004 1.004 1.005 1.004 1.065	1.005 1.004 1.004 1.004 1.006 1.006 1.006 1.004 1.060	1.003 1.003 1.003 1.003 1.003 1.003 1.003 1.003 1.005	1.008 1.006 1.006 1.005 1.004 1.005 1.005 1.006 1.052	1.004 1.003 1.002 1.002 1.003 1.003 1.003 1.002 1.046	1.002 1.002 1.004 1.002 1.002 1.003 1.003 1.002 1.044	:	<u>Tail</u> 1.042

<u>Tail</u> 1.016

		Ultimate		Wage Adj														
		Development	Ultimate	On-Level														
Policy Year	Losses	Factor	Losses	Ult. Losses														
2005	228,611,862	1.016		328,457,913														
2006	232,390,118	1.018	236,524,139	323,801,546														
2007	254,313,213	1.018	258,888,994															
2008	255,981,829	1.021		335,725,732														
2009	217,595,719	1.022	222,308,868	285,889,205														
2010	262,823,956	1.016	267,066,764	337,305,323														
2011	261,103,527	1.017	265,451,221	326,770,453														
2012	246,966,451	1.016	251,028,530	302,238,350														
2013	240,235,918	1.018	244,577,993	289,580,344														
2014	246,447,029	1.018	250,851,185															
2015	271,717,119	1.019	276,849,439															
2016	263,934,846	1.022	269,816,572															
2017	303,345,999	1.023	310,416,099															
2018	300,354,867	1.014	304,466,113															
2019	248,929,437	1.035	257,534,911															
2019	240,323,437	1.033	237,334,311	237,334,311														
Medical Limited State	wide Paid+Case I	oss Develonment	through @12	/19														
Wicarcar Emilica State	. Wide i did i case E	.oss Development	tinough @12/	15														
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992	-,-	-,-	٥, ٠	-,,5	5,0	٠,,	.,,	0,5	5, 20	10,11	,	,	10,11	,	20, 20	10, 1.	1,,10	1.002
1993																	1.002	1.002
1994																1.001	0.996	1.004
1995															1.004	1.001	0.998	1.001
1996														0.991	1.004	1.003	1.001	1.002
1997													0.995	1.002	0.990	0.999	1.001	0.992
												4 007						
1998												1.007	1.004	0.989	1.008	1.004	1.000	1.000
1999										4 000	1.002	1.000	1.005	1.000	1.000	1.004	0.999	0.999
2000										1.003	1.009	1.005	1.003	0.992	0.997	1.000	1.001	1.003
2001									1.001	1.017	1.007	1.002	0.999	1.003	0.993	1.000	0.996	1.002
2002								1.001	1.008	1.002	0.999	1.005	1.003	1.003	1.001	1.002	1.011	
2003							1.000	0.999	0.995	1.004	0.994	1.004	0.999	1.009	1.001	1.002		
2004						1.005	1.001	1.031	1.005	0.997	1.001	1.005	0.994	0.997	0.997			
2005					0.989	1.002	1.004	1.001	1.023	0.997	1.010	1.002	1.000	0.999				
2006				0.997	1.002	0.985	1.006	0.998	1.001	1.006	1.001	1.003	1.005					
2007			1.001	1.000	0.997	0.998	1.003	1.004	1.002	0.996	1.001	0.999						
2008		1.023	1.010	0.983	1.010	1.007	0.998	1.008	0.990	0.985	1.001							
2009	1.043	1.013	0.999	1.003	0.998	1.007	1.007	0.996	0.997	0.989								
2010	1.048	1.002	0.994	0.993	1.010	1.001	0.999	0.998	1.004									
2011	1.022	0.996	0.972	0.993	1.024	0.992	1.006	0.993										
2012	1.031	1.005	1.004	0.998	0.986	0.995	0.998											
2013	1.013	0.993	1.000	1.000	0.981	1.004												
2014	1.034	0.993	0.992	1.008	1.004													
2015	1.035	1.006	1.007	1.002														
2016	1.007	0.967	1.002															
2017	1.025	0.994																
2018	1.002																	
-																		
2 Yr Avg	1.014	0.981	1.005	1.005	0.993	1.000	1.002	0.996	1.001	0.987	1.001	1.001	1.003	0.998	0.999	1.002	1.004	1.003
3 Yr Avg	1.011	0.989	1.000	1.003	0.990	0.997	1.001	0.996	0.997	0.990	1.001	1.001	1.000	1.002	1.000	1.001	1.003	1.001
5 Yr Avg	1.021	0.991	1.001	1.000	1.001	1.000	1.002	1.000	0.999	0.995	1.003	1.003	1.000	1.002	0.998	1.002	1.001	0.999
5 Yr Avg (Ex. Hi Lo)	1.022	0.993	1.002	1.000	1.000	1.000	1.001	0.999	1.000	0.994	1.001	1.003	1.001	1.002	0.998	1.001	1.000	1.000
5 Yr Median	1.025	0.993	1.002	1.000	1.004	1.001	0.999	0.998	1.000	0.996	1.001	1.003	1.000	1.002	0.997	1.001	1.000	1.000
7 Yr Avg	1.023	0.993	0.996	1.000	1.004	1.001	1.002	1.000	1.001	0.996	1.001	1.003	1.000	1.003	1.000	1.002	1.003	1.000
-	1.021	0.999	0.998	0.998	1.002	1.001	1.002	1.000	1.003	1.000	1.001	1.003	1.000	0.999	1.000	1.002	1.003	1.000
All Yr Avg	1.026				1.000		1.002	1.003	1.003			1.003				1.002	1.002	0.999
T&M Selected		0.991	1.001	1.003		1.000				0.995	1.001		1.000	1.002	0.998			
Cumulative	1.035	1.014	1.023	1.022	1.019	1.018	1.018	1.016	1.017	1.016	1.022	1.021	1.018	1.018	1.016	1.018	1.016	1.015

Missouri Department of Commerce and Insurance	Exhibit IX
Review of 2022 NCCI Loss Cost Filing	Page 1
Limited to Unlimited Analysis	

Factor to Adjust Limited Losses to an Ultimate Bases

(1) Threshold at the Midpoint of the Loss Cost Effective Period	10,057,697
(2) Statewide Excess Ratio	0.011
(3) Market Share for Carriers Missing from Large Loss and Catastrophe Call	0.000
(4) Factor to Adjust Limited Losses to an Unlimited Bases = 1 / [1 - [(2) * [1 - (3	1.011

1.012

	Indemnity	Medical				
	Paid/Paid+Case	Paid/Paid+Case				
Policy Year	19th Report	19th Report				
1997	0.975	0.983				
1998	0.973	0.975				
1999	0.968	0.986				
2000	0.989	0.959				
2001	0.972	0.971				
T&M Selected	0.975	0.975				
NCCI Selected	0.975	0.975				
NCCI Selected	0.973	0.973				
					<u>Indemnity</u>	<u>Medical</u>
(1) Paid + Case 19	th-to-Ultimate Loss	Development Facto	or		1.012	1.020
(2) Factor to Adju	st 19th-to-Ultimate	Development Facto	r to a Limited Basis	S	0.778	0.778
(3) Limited Paid +	Case 19th-to-Ultim	ate Loss Developme	nt Factor = [(1) - 1	.]*(2)+1	1.010	1.016
	o Paid + Case Ratio				0.975	0.975
(5) Limited Paid 1	9th-to-Ultiamte Los	s Development Fact	or = (3) / (4)		1.035	1.042
•	Case Tail Factor An	•				
(1)	(2)	(3)	(4)	(5)	(6)	(7) = [1 + (3) - (2) + ((5) - (4)) / (6)] / (2)
					Factor to	Indicated
	Losses for	Policy Year	Losses for All Pri	or Policy Years	Adjust Losses	19th-to-Ult Development
Policy Year	19th Report	20th Report	Previous	Current	for Prior Policy Years	for Policy Year
1991	225,355,332	225,327,519	1,968,281,782	1,970,265,933	0.630	1.014
1992	200,549,303	200,679,586	2,195,087,537	2,198,064,275	0.787	1.020
1993	183,188,006	183,535,361	2,399,277,237	2,401,159,473	0.934	1.013
1994	163,726,551	163,870,863	2,566,044,372	2,568,255,311	1.098	1.013
1995	141,313,490	141,545,926	2,727,688,854	2,729,411,452	1.309	1.011
1996	147,966,426	148,885,395	2,870,128,232	2,872,051,105	1.256	1.017
1997	154,311,500	154,746,190	3,017,196,317	3,016,590,277	1.201	1.000
1998	182,540,288	182,664,069	3,169,160,582	3,171,144,364	1.008	1.011
1999	178,274,607	178,699,133	3,218,869,043	3,221,136,033	0.987	1.015
2000	186,670,607	186,822,793	3,254,882,983	3,256,641,831	0.913	1.013
2000	100,070,007	100,022,733	5,254,002,505	5,250,041,051	0.515	1.011
			Т	&M 19th-to-Ultima	te Loss Development Facto	r 1.012

Medical Paid + Case Tail Factor Analysis

(1)	(2)	(3)	(4)	(5)	(6) Factor to	(7) = [1 + (3) - (2) + ((5) - (4)) / (6)] / (2) Indicated
	Losses for F	olicy Year	Losses for All Pri	or Policy Years	Adjust Losses	19th-to-Ult Development
Policy Year	19th Report	20th Report	<u>Previous</u>	Current	for Prior Policy Years	for Policy Year
1991	191,573,815	192,847,310	1,391,708,184	1,391,806,331	0.551	1.008
1992	165,486,131	165,432,240	1,584,603,674	1,590,881,650	0.723	1.052
1993	169,737,364	170,485,300	1,756,367,002	1,757,043,235	0.775	1.010
1994	151,270,232	149,612,389	1,915,056,614	1,916,008,300	0.935	0.996
1995	134,266,425	134,657,354	2,061,176,436	2,065,782,021	1.111	1.034
1996	128,546,172	128,496,716	2,199,686,714	2,200,950,027	1.194	1.008
1997	152,933,798	153,607,274	2,327,361,810	2,327,688,399	1.021	1.006
1998	156,288,073	155,917,719	2,480,377,273	2,483,028,345	1.011	1.014
1999	162,855,364	162,873,779	2,532,868,394	2,541,713,451	0.946	1.058
2000	176,217,899	175,902,987	2,578,710,212	2,587,101,775	0.849	1.054

NCCI Indemnity 19th-to-Ultimate Loss Development Factor

T&M 19th-to-Ultimate Loss Development Factor 1.020
NCCI Indemnity 19th-to-Ultimate Loss Development Factor 1.020

0.913

Indemnity Paid + Case Data

(1)		(2)		(3)	(4) = (3) / (2)	(5) = 1 / (4)	(6)
	Olde	er Year	New	er Year	Growth	Inverse Growth	Upward Cum.
Policy Year	Evaluation Date	Paid + Case Losses	Evaluation Date	Paid + Case Losses	<u>Ratio</u>	<u>Ratio</u>	Prod of (5)
1987/1986	PY 1986@2005	157,871,301	PY 1987@2006	179,756,406	1.139	0.878	0.756
1988/1987	PY 1987@2006	177,454,320	PY 1988@2007	198,950,113	1.121	0.892	0.860
1989/1988	PY 1988@2007	198,505,376	PY 1989@2008	220,882,644	1.113	0.899	0.965
1990/1989	PY 1989@2008	219,039,126	PY 1990@2009	232,456,428	1.061	0.942	1.073
1991/1990	PY 1990@2009	227,189,268	PY 1991@2010	225,498,511	0.993	1.007	1.139
1992/1991	PY 1991@2010	225,498,511	PY 1992@2011	200,835,736	0.891	1.123	1.131
1993/1992	PY 1992@2011	200,811,854	PY 1993@2012	183,496,440	0.914	1.094	1.007
1994/1993	PY 1993@2012	183,545,036	PY 1994@2013	165,007,399	0.899	1.112	0.920
1995/1994	PY 1994@2013	163,997,293	PY 1995@2014	141,633,259	0.864	1.158	0.827
1996/1995	PY 1995@2014	141,608,646	PY 1996@2015	148,254,038	1.047	0.955	0.714
1997/1996	PY 1996@2015	148,247,760	PY 1997@2016	154,914,525	1.045	0.957	0.748
1998/1997	PY 1997@2016	154,914,525	PY 1998@2017	182,906,839	1.181	0.847	0.782
1999/1998	PY 1998@2017	192,061,279	PY 1999@2018	195,440,205	1.018	0.983	0.923
2000/1999	9 PY 1999@2018 187,282,040		PY 2000@2019	199,418,430	1.065	0.939	0.939
						T&M Selected	0.913

Medical Paid + Case Data

(1)		(2) er Year		(3) er Year	(4) = (3) / (2) Growth	(5) = 1 / (4) Inverse Growth	(6) Upward Cum.
Policy Year	Evaluation Date	Paid + Case Losses	Evaluation Date	Paid + Case Losses	Ratio	Ratio	Prod of (5)
1987/1986	PY 1986@2005	108,101,402	PY 1987@2006	140,700,501	1.302	0.768	0.548
1988/1987	PY 1987@2006	139,423,344	PY 1988@2007	152,395,769	1.093	0.915	0.713
1989/1988	PY 1988@2007	152,292,010	PY 1989@2008	169,069,844	1.110	0.901	0.780
1990/1989	PY 1989@2008	167,794,520	PY 1990@2009	186,527,540	1.112	0.900	0.866
1991/1990	PY 1990@2009	182,662,813	PY 1991@2010	191,692,398	1.049	0.953	0.962
1992/1991	PY 1991@2010	191,692,398	PY 1992@2011	166,012,660	0.866	1.155	1.010
1993/1992	PY 1992@2011	166,008,493	PY 1993@2012	170,212,510	1.025	0.975	0.875
1994/1993	PY 1993@2012	170,220,623	PY 1994@2013	152,705,754	0.897	1.115	0.897
1995/1994	PY 1994@2013	151,577,681	PY 1995@2014	134,631,701	0.888	1.126	0.804
1996/1995	PY 1995@2014	134,623,547	PY 1996@2015	128,910,066	0.958	1.044	0.715
1997/1996	PY 1996@2015	128,897,172	PY 1997@2016	153,272,672	1.189	0.841	0.684
1998/1997	PY 1997@2016	153,272,672	PY 1998@2017	156,640,785	1.022	0.978	0.814
1999/1998	PY 1998@2017	164,679,784	PY 1999@2018	177,106,284	1.075	0.930	0.831
2000/1999	PY 1999@2018	169,817,461	PY 2000@2019	189,908,827	1.118	0.894	0.894

T&M Selected 0.849
NCCI Factor to Adjust Losses for Prior Years - 10-Year Average 0.849

NCCI Factor to Adjust Losses for Prior Years - 10-Year Average

Indemnity Paid + Case Data

(1)	(2) Older Year			(3) Newer Year		(5) = 1 / (4) Inverse Growth	(6) Upward Cum.
Policy Year	Evaluation Date	Paid + Case Losses	Evaluation Date	Paid + Case Losses	<u>Ratio</u>	<u>Ratio</u>	Prod of (5)
1986/1985	PY 1985@2004	140,568,476	PY 1986@2005	157,871,301	1.123	0.890	0.717
1987/1986	PY 1986@2005	157,871,301	PY 1987@2006	179,756,406	1.139	0.878	0.805
1988/1987	PY 1987@2006	177,454,320	PY 1988@2007	198,950,113	1.121	0.892	0.916
1989/1988	PY 1988@2007	198,505,376	PY 1989@2008	220,882,644	1.113	0.899	1.027
1990/1989	PY 1989@2008	219,039,126	PY 1990@2009	232,456,428	1.061	0.942	1.143
1991/1990	PY 1990@2009	227,189,268	PY 1991@2010	225,498,511	0.993	1.007	1.213
1992/1991	PY 1991@2010	225,498,511	PY 1992@2011	200,835,736	0.891	1.123	1.204
1993/1992	PY 1992@2011	200,811,854	PY 1993@2012	183,496,440	0.914	1.094	1.072
1994/1993	PY 1993@2012	183,545,036	PY 1994@2013	165,007,399	0.899	1.112	0.980
1995/1994	PY 1994@2013	163,997,293	PY 1995@2014	141,633,259	0.864	1.158	0.881
1996/1995	PY 1995@2014	141,608,646	PY 1996@2015	148,254,038	1.047	0.955	0.761
1997/1996	PY 1996@2015	148,247,760	PY 1997@2016	154,914,525	1.045	0.957	0.796
1998/1997	PY 1997@2016	154,914,525	PY 1998@2017	182,906,839	1.181	0.847	0.832
1999/1998	PY 1998@2017	192,061,279	PY 1999@2018	195,440,205	1.018	0.983	0.983

NCCI Factor to Adjust Losses for Prior Years - 10-Year Average

T&M Selected

0.987

0.987

Medical Paid + Case Data

(1)	(2) Older Year		(3) Newer Year		(4) = (3) / (2) Growth	(5) = 1 / (4) Inverse Growth	(6) Upward Cum.
Policy Year	Evaluation Date	Paid + Case Losses	Evaluation Date	Paid + Case Losses	Ratio	Ratio	Prod of (5)
1986/1985	PY 1985@2004	94,696,424	PY 1986@2005	108,101,402	1.142	0.876	0.537
1987/1986	PY 1986@2005	108,101,402	PY 1987@2006	140,700,501	1.302	0.768	0.613
1988/1987	PY 1987@2006	139,423,344	PY 1988@2007	152,395,769	1.093	0.915	0.798
1989/1988	PY 1988@2007	152,292,010	PY 1989@2008	169,069,844	1.110	0.901	0.872
1990/1989	PY 1989@2008	167,794,520	PY 1990@2009	186,527,540	1.112	0.900	0.968
1991/1990	PY 1990@2009	182,662,813	PY 1991@2010	191,692,398	1.049	0.953	1.076
1992/1991	PY 1991@2010	191,692,398	PY 1992@2011	166,012,660	0.866	1.155	1.129
1993/1992	PY 1992@2011	166,008,493	PY 1993@2012	170,212,510	1.025	0.975	0.978
1994/1993	PY 1993@2012	170,220,623	PY 1994@2013	152,705,754	0.897	1.115	1.003
1995/1994	PY 1994@2013	151,577,681	PY 1995@2014	134,631,701	0.888	1.126	0.900
1996/1995	PY 1995@2014	134,623,547	PY 1996@2015	128,910,066	0.958	1.044	0.799
1997/1996	PY 1996@2015	128,897,172	PY 1997@2016	153,272,672	1.189	0.841	0.765
1998/1997	PY 1997@2016	153,272,672	PY 1998@2017	156,640,785	1.022	0.978	0.910
1999/1998	PY 1998@2017	164,679,784	PY 1999@2018	177,106,284	1.075	0.930	0.930

T&M Selected 0.946
NCCI Factor to Adjust Losses for Prior Years - 10-Year Average 0.946

ATTACHMENT A NCCI RESPONSES TO OBJECTIONS INCLUDING EXHIBITS

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

RESPONSES TO THE DEPARTMENT OF COMMERCE AND INSURANCE'S REQUESTS DATED SEPTEMBER 1, 2021

1. Have any of the data sources used in determining the Missouri Advisory Loss Costs and Rating Values Filing changed since the previous filing? For example, using data from a different data call to develop expenses.

There have not been any changes in the underlying data sources between this and last year's filings.

2. Please provide the estimated overall impact for each change in methodology from the previous filing.

The methodology changes contained in this year's filing are as follows:

- Federal-Classification (F-Class) Ratemaking: This change proposes to revise the
 current approach used to determine the loss costs for those classification codes
 that are subject to the benefits provided under the United States Longshore and
 Harbor Workers Compensation Act. The change in methodology has resulted in an
 overall average loss cost/rate level decline across all jurisdictions for which NCCI
 provides ratemaking services.
- Calendar Year 2020 Wage Adjustment: No filed aggregate or class ratemaking parameters were affected by the wage adjustment—including the filed loss ratio trend factors. Note: Even though the wage adjustment slightly impacted the frequency and severity values displayed in the filing's Appendix A-III (as those values are adjusted to a common wage level), those values were not used as the basis for the selected loss ratio trend factors included in the filing.
- 3. Please provide support for the selected catastrophe provision (other than Certified Acts of Terrorism) of \$0.01 per \$100 of payroll in Missouri.

Please see the attached copy of Missouri Item Filing 02-MO-2021 (*Rules and an Endorsement Related to the Catastrophe (Other than Certified Acts of Terrorism)*Provision in Missouri) for additional supporting information. The proposed provision recognizes that there are multiple potentially catastrophic perils with exposure on workers compensation system costs.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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4. How many COVID-19-related claims were removed from reported loss data in Missouri and Countrywide, and what was the total cost of these claims in Missouri and Countrywide?

The following slide provides aggregate countrywide totals as of year-end 2020 for those jurisdictions where NCCI provides ratemaking services: https://www.ncci.com/SecureDocuments/SOLGuide2021.html#covid-19 losses

In Missouri, a total of 140 COVID-19-related lost-time claims and approximately \$1.65M case-incurred losses were removed from Policy Year (PY) 2019.

5. How was the 2020 average weekly wage adjusted to exclude the estimated impact of pandemic-related industry-sector mix change? How was it determined what industry-sector mix changes were expected to return to pre-pandemic levels over time and what changes were expected to persist?

The nationwide impact of shifts in the average weekly wage (AWW) due to the mix of employment across economic sectors was notably higher in CY 2020 (+1.6% countrywide) than in previous years (+/- 0.2%). This change in the AWW due to mix of employment across economic sectors was almost entirely due to large job losses in the leisure and hospitality sector. For frequency purposes, as the AWW change should be approximating average wage growth for workers within a class, the CY 2020 AWW was restated to remove the impact of the shift in mix of employment across sectors. The mix impact was estimated by comparing a hypothetical AWW using CY 2019 AWW by sector with the 2020 employment mix by sector to the actual CY 2019 AWW. This adjustment is intended to remove distortion in the change in frequency between Policy Years 2018 and 2019.

6. Was it assumed in this analysis that 2022 will mark a return to pre-COVID-19 loss and wage levels, or was there consideration given to the impact of the Delta variant or other variants on claims and economic conditions in 2022?

While no assumption was specifically made that 2022 will return to pre-COVID-19 levels, recognition of the pandemic's direct and indirect impacts on PY2019 were considered when selecting the filing's experience period as well as during this year's trend analysis. Please see the response to Request 15 for additional detail.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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7. Please provide loss development triangles with at least 10 diagonals for both the voluntary and assigned risk markets separated by indemnity, medical, and DCCE for the past 19 years. In the prior year, this was submitted as Exhibit 4 Development Triangles.xlsx. An updated version of this file will suffice for these purposes.

Please see the attached Exhibit 7 for the available loss development triangles.

8. Please provide an Excel file with the specific calculations used to determine Appendix A-II, Section G, column (6) for the most recent year.

Please see the attached Exhibit 8 for the requested information. The calculations are provided for the most recent two valuations separately for indemnity and medical.

9. Please provide an excel file spreadsheet with the specific calculations that provide the derivation of the 0.778 factor in Appendix A-II, Section H, line 2.

Please see the attached Exhibit 9 for the requested information.

10. Exhibit II Sections A and B Page 46 of 97:

- a) Please provide the underlying data and calculations to bring AOE and DCCE to an ultimate level including the development factors, AOE, DCCE, losses, and any other values used to determine the Ultimate AOE and DCCE ratios.
- b) Please provide the Ultimate AOE Ratios for MO only data.
- c) In the prior years filing, the AOE provision from MO was selected based on a countrywide and MO specific analysis. Was this process still used in this filing?

Please see Exhibits 10a, 10b, and 10c for the requested information.

The Missouri selected AOE provision is based on a weighted average of the countrywide private carrier AOE provision and the indicated provision for Missouri Employers Mutual.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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11. Appendix A-I Section A and Section D Pages 48 and 49 of 97: Please provide the underlying data and calculations to support the factors in column (6).

The expense removal factor removes the current LAE provision of 19.3% to adjust reported premium to a pure premium level.

$$0.838 = (1/1.193)$$

12. Appendix A-I Section A and Section D Pages 48 and 49 of 97: Please provide the underlying data and calculations to support the factors in column (7). More specifically, how is the targeted off-balance factor of 0.952 determined?

The premium used in the statewide rate level indication is standard premium, which includes the impact of experience rating. The off-balance adjustment factor adjusts the premium in historical policy years to account for the difference between the observed off-balance for each of those years and the targeted off-balance.

The targeted off-balance factor (0.952) is a weighted average of the targeted intrastate experience rating modification factor (e-mod) and the current estimate of the average interstate e-mod, adjusted for risks that are not subject to experience rating. The targeted intrastate e-mod in this year's filing is 0.960, and the average interstate e-mod is 0.927. Using 53.4% as the intrastate percentage of experience rated risks, the combined weighted average e-mod factor is 0.945. The final targeted off-balance is calculated by multiplying 0.945 by the percentage of risks that are experience rated (87.4%) and then adding to that the percentage of risks not experience rated multiplied by unity. The calculation is as follows:

$$0.952 = 0.945 \times 0.874 + (1.000 - 0.874) \times 1.000$$

The off-balance factor for each policy year is calculated in a similar manner, instead using the historical factors calculated from the experience rating values in place at that time. The table below summarizes the calculation for policy years 2018 and 2019.

	2018	2019
(1) Average intrastate e-mod	0.956	0.962
(2) Average interstate e-mod	0.950	0.948

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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(3) Intrastate %	53.6%	53.4%
(4) Combined average e-mod = $(1)x(3)+(2)x[1-(3)]$	0.953	0.955
(5) Rated %	88.4%	87.9%
(6) Off-Balance = $(4)x(5)+[1-(5)]$	0.958	0.960

The off-balance adjustment factor results from the ratio of the Targeted Off-Balance to the Off-Balance for the corresponding policy year.

	2018	2019
(1) Targeted Off-Balance	0.952	0.952
(2) Policy Year Off-Balance	0.958	0.960
(3) Off-Balance Adjustment Factor = (1)/(2)	0.994	0.992

13. Appendix A-IV Section I Page 63 of 97: Please show the calculations underlying the factors in Col (4) and Col (5).

Column (4) shows the current manual premium to standard premium ratios that were calculated using the latest five years of WCSP data underlying the 1/1/2021 Missouri filing. Column (5) shows the proposed manual premium to standard premium ratios calculated using the latest five years of WCSP data underlying the 1/1/2022 Missouri filing. Standard premium is calculated as the reported manual premium multiplied by the reported experience modification factor. Please see Exhibit 13 for the calculation of these factors.

14. Appendix B-I Section I Page 66 of 97: Please provide underlying data and calculations for how the Likely-to-Develop and Not-Likely-to-Develop columns are calculated.

Please see the attached Exhibit 14 for the requested information.

15. Page 62 of 97 (Appendix A-III). Provide the underlying data, fits, assumptions, calculations, selections and rationale of the selection of the indemnity and medical trend factors. Please include an update of the excel file provided last year entitled Exhibit 14 Supplemental Loss Development and Trend. Please include fifteen years of information including Lost-Time claim frequency and severity based on data in excess

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of wage inflation, claim counts, premium, limited indemnity losses, and limited medical losses.

Please see the attached Exhibit 15 for the requested trend information.

Supporting the proposed loss ratio trend factors in this year's filing is an underlying continuation of the long-term decline in lost-time claim frequency, relatively consistent year-over-year indemnity claim severity changes, and a generally increasing pattern of medical lost-time claim severities.

Consideration of the trend component in this year's filing included a review of loss ratio patterns observed over an extended period of time. This allows one to review trends over an entire underwriting cycle and smooth out year-to-year fluctuations. The proposed annual loss ratio trend factors utilized in this year's filing were selected based on actuarial judgment and considered the uncertainty related to the COVID-19 pandemic. Results of exponential trends fit to a varying number of policy year loss ratios are provided below.

Policy Year Loss Ratio Exponential Trend Fits

	<u>Indemnity</u>	<u>Medical</u>
8-point	-2.9%	-1.6%
10-point	-2.8%	-2.2%
12-point	-2.3%	-1.6%
15-point	-2.1%	-1.2%

16. Appendix B-IV Part 1 Section A.2, Page 77 of 97: Why are the current annual trends of 0.980 and 0.990 for indemnity and medical, respectively, used to trend losses rather than the selected trends of 0.975 and 0.985?

Each state's experience is adjusted to a common countrywide level and aggregated to determine a countrywide pure premium. The countrywide pure premium is prepared prior to the preparation of each state's proposed experience filing. As such, current annual trends for each state are used to bring the losses of each state from the midpoint of each policy year to 1/1/2022. The proposed trends 0.975 and 0.985 are then used to bring Missouri's base pure premium from the 1/1/2022 date to the midpoint of the proposed period.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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17. Appendix B-IV Part I Section C Page 79 of 97: Please provide the underlying data, assumptions, and calculations used to determine Missouris index to Countrywide factor of .684. Please provide the data and calculations described on steps 1 to 5 for Missouri.

			(a)	(b)
			F-class	
			Countrywide	Missouri's
		Hazard	Payroll	Average Pure
		Group	Distribution	Premium
(1)		E	13.5%	1.21
(2)		F	11.7%	3.94
(3)		G	74.8%	4.19
(4)	Missouri Average Pure Premium			
	$= (1a) \times (1b) + (2a) \times (2b) + (3a) \times (3b)$			3.76
(5)	Countrywide Average Pure Premium			2.57
(6)	Missouri Index to Countrywide Factor	r		
	= (5) / (4)			0.684

Missouri's index to countrywide factor of 0.684 is a ratio of the countrywide average pure premium to Missouri's average pure premium. Missouri's average pure premium is calculated using the industrial loss costs from Hazard Groups E, F, and G, payroll by class code, and loss-based expenses from the latest approved filing. The industrial average pure premiums from hazard groups E, F, and G are used since F-class codes are in these hazard groups. The loss-based expenses are removed from the loss costs and weighted with the payroll by class code to calculate the average pure premium for each hazard group. The average pure premiums by hazard groups (Column B) are then weighted by the F-class countrywide payroll distribution of Hazard Groups E, F, and G (Column A) to calculate a Missouri average pure premium. An average pure premium is calculated for each state in a similar manner using values from its latest approved filing. To calculate the countrywide average pure premium, each state's average pure premium is weighted by its respective F-class payroll. Missouri's F-class payroll of \$348,102,767 gives Missouri a weight of 3.8% in the calculation of the countrywide average pure premium.

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18. Appendix B-IV Part I Section D Page 79 of 97: Please provide the underlying data, assumptions, and calculations used to determine the 10-Year Expected Unlimited Countrywide Losses in Col (2).

For each state, federal and state act losses are reported separately. Each state's experience is adjusted using primary conversion factors and excess ratios to calculate expected unlimited losses; the Missouri specific factors can be found in Appendix B-IV Part I. While the federal losses are at a countrywide level as they are based on a national benefit structure, the individual state act losses need to be adjusted to a countrywide basis before combining with federal act losses to calculate final converted losses. The final converted losses for Missouri and all other NCCI states are then aggregated by class. Exhibit 18 includes the Missouri limited loss data for both state act and federal losses as well as the final converted losses for Missouri.

19. Appendix B-IV Part I Section D Page 79 of 97: Regarding Col (4), what is considered a limited amount of data that would equate to a class code having their relativity set to 1.000 per the footnote?

The class codes with their relativity set to 1.000 were selected based on actuarial judgment. Even on a countrywide basis these codes are subject to large swings where a single loss could have a significant impact on the calculated pure premium for these codes due to the limited amount of experience. Note that for the five codes where a relativity of unity was selected (6801, 6828, 6829, 6873, 9077) only code 9077 exists in Missouri. Code 9077 has no payroll in the latest policy year in Missouri, therefore the 1.000 relativity selection for 9077 is estimated to have no impact on Missouri F-Class premium.

20. Appendix B-IV Part II Section A.1 Page 80 of 97: Please provide the underlying data and calculations for the State Act Pure Premium Relativity Factor of 1.462.

State Act Pure Premium Relativity Factor = 1 / Missouri's index to countrywide factor*

= 1 / 0.684

= 1.462

*See the response to Question 17 for the derivation of Missouri's index to countrywide factor.

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21. Appendix B-IV Part II Section B.4. Page 80 of 97: Please provide the underlying data and calculations for the Federal Act Loss-Based Assessment of 1.115.

The derivation of the Federal Act Loss-Based Assessment may be found in the Appendix C-I, Page 89 of 97, of the loss cost filing.

22. Appendix B-IV Section B Page 78 of 97: Please provide the underlying data and calculations to support the Excess Ratios in Row (1).

Please see the attached Exhibit 22 for the underlying data and calculations to support the Countrywide Excess Ratios. These values use the countrywide aggregated data underlying the R-1419 Item Filing.

23. Why were relativities for class codes with limited data set to 1.000 rather than credibility weighting or similar?

Due to the limited amount of experience available for these codes at even the national level, the overall F-Class loss cost for the state is more appropriate than the relativity indicated based on the class code's experience. See "Response 19" for further details regarding the impact of the 1.000 relativity selection.

24. Appendix B-IV Section 3 Page 78 of 97: Please explain why the losses developed to an ultimate basis using loss development factors based on country wide data excludes data from Texas.

The loss development factors used to develop the F-class losses to an ultimate basis exclude Texas because the majority of Texas Workers Compensation Statistical Plan experience is not available on a likely/not-likely basis.

25. Why do the Policy Periods found in Appendix B-IV only go up to Policy Year 2017 and not Policy Year 2019 like the other Policy.

The proposed F-Class methodology uses countrywide information for increased stability. In order to use countrywide experience, the F-Class analysis relies on the latest

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

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approved data for all states from the prior filing season. As a result, the policy years used for the F-Class analysis do not match those used for the industrial analysis.

26. Please provide the indication as of 1/1/2022 if all assigned risk experience was excluded. Please provide these calculations in an excel file and include all the underlying components that will change because they are based on only voluntary experience, such as loss development, trend, LAE, etc.

All else equal, an overall average loss cost level indication of –8.8% results after excluding the assigned risk premium and loss experience reported to NCCI by Missouri's designated assigned risk plan administrator from the filing's experience period. Please see the attached Exhibit 26 for additional detail.

27. Please provide any updates on class ratemaking research, status and results, or stability performance results on tests of the performance of the recently implemented small class ratemaking project intended to address the stability of the small classes.

There have been no research or performance testing updates for small class ratemaking in the past year. Please refer to the exhibits provided in response to Objection 17 of last year's filing for the latest available information.

28. Please provide an Excel file with seven columns of information. The first column should be the class code, the second column should be the exposures by class code, the third column should be the current advisory loss cost, the fourth column should be the proposed advisory loss cost by class code and the last three columns should be the percentage loss cost changes effective 2022, 2021, and 2020 by class code. Include totals in columns 4, 5 and 6 and please exclude discontinued classes. This file was submitted as Exhibit 18 Loss Cost Comparison.xlsx in last years filing.

Please see the attached Exhibit 28 for the requested information. The exposure reflects the most recent policy period used in the Missouri 1/1/2022 filing. The prior year changes exclude class codes that are discontinued as of 1/1/2022.

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29. Please confirm that the indication provided in Exhibit I is an indication for the voluntary market but that the data upon which it is based is on combined voluntary and assigned risk plan losses. If not, please explain. Please confirm that although the voluntary indications are based on combined voluntary and assigned risk plan data, that you are not providing loss costs or rates for the assigned risk market

The voluntary market advisory loss cost level indication determined in the filing's Exhibit I is based on combined voluntary and assigned risk premium and loss experience reported to NCCI. NCCI's role in Missouri does not include the filing of loss costs or rates for the state's assigned risk market.

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FILING MEMORANDUM

ITEM 02-MO-2021—RULES AND AN ENDORSEMENT RELATED TO THE CATASTROPHE (OTHER THAN CERTIFIED ACTS OF TERRORISM) PROVISION IN MISSOURI

PURPOSE

This item revises and establishes rules and an endorsement related to the Catastrophe (other than Certified Acts of Terrorism) Provision in Missouri. The following NCCI manuals are impacted:

- Basic Manual for Workers Compensation and Employers Liability Insurance (Basic Manual)
- Statistical Plan for Workers Compensation and Employers Liability Insurance (Statistical Plan)
- Forms Manual of Workers Compensation and Employers Liability Insurance (Forms Manual)

BACKGROUND

NCCI currently categorizes catastrophic events as earthquakes, noncertified acts of terrorism, or catastrophic industrial accidents that results in aggregate workers compensation losses in excess of \$50 million. Under NCCI's actuarial catastrophe methodology, data from catastrophes is excluded in the calculation of loss costs/rates because these events are not considered to be predictive of future experience. NCCI's Catastrophe (other than Certified Acts of Terrorism) Provision is used to contemplate exposure to catastrophic occurrences.

Both the definition of catastrophe and the treatment of catastrophe losses in property and casualty ratemaking are addressed in the Actuarial Standards of Practice (ASOP). As defined in ASOP 39, Treatment of Catastrophe Losses in Property/Casualty Insurance Ratemaking, a catastrophe is "a relatively infrequent event or phenomenon that produces unusually large aggregate losses." ASOP 39 also states that "consideration should be given to the impact of catastrophes and that procedures should be developed to include an allowance for catastrophe exposure in the rate."

The exposure to catastrophic workers compensation losses exists in Missouri. In 2004, NCCI filed a similar provision in Missouri—Item B-1393—Miscellaneous Values for Domestic Terrorism, Earthquakes, and Catastrophic Industrial Accidents to address certain catastrophic occurrences; this item was withdrawn in Missouri. Since there is not currently a provision to account for any events that may result in aggregate workers compensation losses in excess of \$50 million, the current loss cost structure in Missouri does not sufficiently account for these risks. The COVID-19 pandemic is the most recent catastrophic event impacting the workers compensation system. NCCI estimates that COVID-19 pandemic claims, excluding self-insureds, have the potential to ultimately result in workers compensation losses exceeding \$500 million over the entire duration of the pandemic across jurisdictions where NCCI provides ratemaking services.

NCCI is proposing to implement NCCI's actuarial catastrophe methodology in Missouri. This methodology would treat a single event or peril that results in aggregate workers compensation losses in excess of \$50 million per occurrence as a catastrophe and thus exclude reported data from such an event from ratemaking. It would also establish the Catastrophe (other than Certified Acts of Terrorism) Provision in Missouri, which includes a *Basic Manual* rule, endorsement, statistical code, and miscellaneous value, consistent with other NCCI states. The Catastrophe (Other Than Certified Acts of Terrorism) Premium Endorsement defines "Catastrophe (Other Than Certified Acts of Terrorism)" as "A single event or peril resulting in a group of claims with aggregate workers compensation losses in excess of \$50 million. This \$50 million threshold applies per occurrence, across all states for which claims arise from a single event or peril." In

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adherence with the ASOPs, this treatment recognizes that there are multiple potentially catastrophic perils with exposure on workers compensation system costs.

Since pandemics have not previously been contemplated as a catastrophic event and the COVID-19 pandemic resulted in losses in excess of \$50 million, NCCI recently consulted with an expert catastrophe loss modeling firm to model the impact of pandemics on workers compensation system costs. No other perils were recently modeled but should still be contemplated as possible catastrophic events with exposure to workers compensation system costs.

Pandemic Modeling

The COVID-19 pandemic has shown that pandemics have the potential to be a catastrophic peril on workers compensation system costs. To understand the risk that future pandemics could have on workers compensation system costs beyond COVID-19, NCCI recently engaged with AIR Worldwide (AIR), an expert catastrophe loss modeling firm and subsidiary of Verisk Analytics. After an extended joint project with AIR, NCCI has concluded that:

- Pandemics may have a significant impact on the workers compensation system.
- The expected average annual pandemic loss is not directly quantifiable for workers compensation insurance exposure.
- It is appropriate to define Catastrophe (other than Certified Acts of Terrorism) as a single event or
 peril resulting in a group of claims with aggregate workers compensation losses in excess of \$50
 million. This \$50 million threshold applies per occurrence, across all states for which claims arise from
 a single event or peril.

AIR uses a global catastrophe pandemic model to assess the potential impact of pandemics. This model considers a collection of risk parameters including, but not limited to, pathogen type; start location; transmission rate; virulence; local, national, and international response mechanisms; time of year; and travel patterns. The included pathogens are influenza, coronaviruses, filoviruses, cholera, Rift Valley fever, Crimean-Congo hemorrhagic fever, bubonic plague, Lassa fever, and bacterial meningitis. Using employees as the unit of exposure, the model estimates the probability of a physician visit, hospitalization, or death, along with the associated costs.

In accordance with ASOP 38, Using Models Outside the Actuary's Area of Expertise (Property and Casualty), NCCI reviewed the appropriateness of the pandemic model for its intended use. AIR's model produced estimates of the average medical losses per worker resulting from pandemics, regardless of whether the claim originated from the workplace or was otherwise compensable. To focus AIR's model framework on workers compensation, NCCI applied several adjustments to the AIR-provided values: (1) converted the estimates to account for lifetime medical costs, (2) added expected indemnity losses, (3) applied a factor for compensability, and (4) limited all events to \$100 billion to account for insurer insolvency and to recognize preventative measures that could be taken at more severe event levels.

NCCI discovered a number of challenges in quantifying the impact of pandemics on workers compensation system costs:

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- Uncertainty in quantifying the share of pandemic illnesses that were transmitted at work or are otherwise compensable
- Uncertainty of how occupation exposure risk could vary depending on the severity of the pandemic
- Uncertainty in human behavior by state that could impact the transmissibility of a future pandemic
- Possible inverse correlation of pandemic losses with nonpandemic losses

NCCI converted the estimated countrywide loss amount per worker from the pandemic loss modeling firm to a loss cost per \$100 of payroll using an NCCI-weighted state average weekly wage and the approved January 1, 2021 Missouri voluntary loss-based expense provision. NCCI relied on average weekly wage information from the Bureau of Labor Statistics' Quarterly Census of Employment and Wages to calculate an indicated pandemic loss cost. The indicated pandemic loss cost in Missouri is \$0.019.

NCCI selected an overall Catastrophe (other than Certified Acts of Terrorism) Provision to consider all catastrophic events or perils resulting in aggregate workers compensation losses in excess of \$50 million per occurrence. This provision contemplates exposure to any single event or peril, which may include pandemics.

PROPOSAL

To reflect the newly established Catastrophe (other than Certified Acts of Terrorism) Provision in Missouri, this item proposes to:

- Revise the rule, Catastrophe provisions, in NCCI's Basic Manual to include Catastrophe (other than Certified Acts of Terrorism)
- 2. Revise the Missouri Workers Compensation Premium Algorithm in NCCl's Basic Manual
- 3. Establish the Missouri Miscellaneous Value advisory loss cost for Catastrophe (other than Certified Acts of Terrorism) in NCCl's *Basic Manual*

NCCI is proposing a Miscellaneous Value advisory loss cost for Catastrophe (other than Certified Acts of Terrorism) to apply to Missouri payroll, to account for a single event or peril resulting in a group of claims with aggregate workers compensation losses in excess of \$50 million. This \$50 million threshold applies per occurrence, across all states for which claims arise from a single event or peril.

The proposed Catastrophe (other than Certified Acts of Terrorism) advisory loss cost per \$100 of payroll in Missouri is \$0.01. Each insurance company offering voluntary workers compensation insurance may choose to incorporate the Catastrophe (other than Certified Acts of Terrorism) Provision in its premium calculation. This premium charge would not be used by NCCI in ratemaking or experience rating. Note: The advisory loss cost catastrophe provision in the Miscellaneous Values is not a final rate, as it does not include provisions for all expense-related components.

The calculation of the voluntary loss cost is detailed in the Informational Exhibit.

In accordance with NCCI's Catastrophe Methodology, NCCI would exclude from ratemaking all reported claims resulting from a single event or peril that results in a group of claims with aggregate workers compensation losses in excess of \$50 million per occurrence, across all states for which claims arise from a single event or peril.

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- 4. Establish Statistical Code 9741—Catastrophe Provisions for Catastrophe (Other Than Certified Acts of Terrorism) in NCCl's *Statistical Plan* for use in Missouri
- 5. Establish the Catastrophe (Other Than Certified Acts of Terrorism) Premium Endorsement (WC 00 04 21 F) in NCCI's *Forms Manual*
- 6. Establish the Catastrophe (other than Certified Acts of Terrorism) Voluntary Loss Cost Calculation for use in Missouri

IMPACT

Catastrophic data would be excluded in the calculation of loss costs.

Carriers charging the Catastrophe (other than Certified Acts of Terrorism) advisory loss cost of \$0.01 per \$100 of payroll would collect additional premium to account for exposure to catastrophic risks.

EXHIBIT COMMENTS AND IMPLEMENTATION SUMMARY

Exhibit	Exhibit Comments	Implementation Summary			
1	Details the revision to the rule, Catastrophe provisions, in NCCl's <i>Basic Manual</i> .				
2	Details the revisions to the Missouri Workers Compensation Premium Algorithm in NCCl's Basic Manual .				
3	Details the establishment of the Missouri Miscellaneous Value advisory loss cost for Catastrophe (other than Certified Acts of Terrorism) in NCCI's Basic Manual .	To become effective for new and renewal policies with effective dates on and after 12:01 a.m. on August 1,			
4	Details the establishment of Statistical Code 9741 in NCCI's Statistical Plan for use in Missouri.	2022.*			
5	Details the establishment of the Catastrophe (Other Than Certified Acts of Terrorism) Premium Endorsement (WC 00 04 21 F) in NCCI's <i>Forms Manual</i> .				
Informational Exhibit	Details the Catastrophe (other than Certified Acts of Terrorism) Voluntary Loss Cost Calculation.				

^{*}This lead time will provide insurance companies with ample time to incorporate the rule revisions and the new endorsement into their processes.



EXHIBIT 1

Rules and an Endorsement Related to the Catastrophe (Other Than Certified Acts of Terrorism) Provision in Missouri

Catastrophe provisions

Rule ID: BM-PARC-C499F

Effective Date: August 1, 2022

Catastrophe provisions of the policy are (a) Terrorism, and Catastrophe (other than Certified Acts of Terrorism), (a b) Terrorism, and (b c) Terrorism Risk Insurance Act (TRIA) of 2002 and any amendments thereto enacted by Congress.

Premium for Catastrophe (other than Certified Acts of Terrorism)

Premium for Catastrophe (other than Certified Acts of Terrorism) is calculated on the basis of total payroll according to Rules for calculating premium and Payroll rules. Premium is calculated by dividing an employer's total payroll in each state by units of \$100 and multiplying that by the appropriate value, found in the miscellaneous values. The calculation is expressed as

Payroll/100 x Catastrophe (other than Certified Acts of Terrorism) Value = Premium.

This premium is applied after the standard premium and is not subject to any other modifications including, but not limited to

- premium discount
- experience rating
- schedule rating, or
- retrospective rating.

A policy issued on an "if any" basis is not charged this premium unless such policy develops premium during the policy term or at audit.

Per capita classifications are not subject to this premium charge.

Premium for Terrorism

Premium for Terrorism is calculated on the basis of total payroll according to the Rules for premium basis and payroll allocation. Premium is calculated by dividing an employer's total payroll in each state by units of \$100 and multiplying that by the appropriate value found in the miscellaneous values. The calculation is expressed as

Payroll/100 x Terrorism Value = Premium.

This premium is applied after standard premium and is not subject to any other modifications including, but not limited to

- premium discount
- experience rating
- schedule rating, or
- · retrospective rating.

A policy issued on an "if any" basis is not charged this premium unless such policy develops premium during the policy term or at audit.

Per capita classifications are not subject to this premium charge.



EXHIBIT 2

Rules and an Endorsement Related to the Catastrophe (Other Than Certified Acts of Terrorism) Provision in Missouri

Missouri Workers Compensation Premium Algorithm*

Rule ID: BM-BMPP-W0064

Effective Date: August 1, 2022

This algorithm provides the framework for premium charges and credits. Where not specified, the premium base is the result from the prior line. Use this rating method in the absence of independent carrier filings.

Missouri Workers Compensation Premium Algorithm

	PREMIUM ELEMENTS	EXPLANATORY NOTES
	MANUAL PREMIUM	[(PAYROLL / 100) * RATE]
+	Supplementary Disease (foundry, abrasive, sandblasting)	[(SUBJECT PAYROLL / 100) * DISEASE RATE]
+	USL&H Exposure for non-F-classification codes	[(SUBJECT PAYROLL / 100) * (RATE * USL&H FACTOR)]
	TOTAL MANUAL PREMIUM	
+	Waiver of Subrogation factor ¹	[% applied to the portion of Total Manual Premium where waiver is applicable, subject to minimum charge]
+	Employers Liability (E/L) increased limits factor	[% applied to Total Manual Premium]
+	Employers Liability increased limits charge	[Balance to E/L increased limits minimum premium]
+	Employers Liability increased limits factor (Admiralty law, FELA)	[Factor applied to the portion of Manual Premium where Admiralty law/FELA coverage is applicable]
+	Employers Liability/Voluntary Compensation flat charge	[Coverage in Monopolistic State Funds]
-	Small Deductible credit ²	[% applied to Total Manual Premium]
	TOTAL SUBJECT PREMIUM	
х	Experience Modification (Exp Mod)	
	TOTAL MODIFIED PREMIUM	
х	Contracting Class Prem Adj Program factor (1 – CCPAP credit %)	
х	Schedule Rating factor or Risk Modeling Plan factor (1 – credit %) or (1 + debit %) 3	[% applied to Total Modified Premium]
+	Supplemental Disease Exposure (Asbestos, NOC)4,5	
+	Atomic Energy Radiation Exposure NOC4, 5	
+	Charge for nonratable catastrophe loading ⁵	
+	Balance to Minimum Premium (State Act)	[Balance to minimum premium at Standard Limits]
+	Balance to Minimum Premium (Admiralty law, FELA)	
	TOTAL STANDARD PREMIUM	
_	Premium Discount6	[% applied to Standard Premium]
+	Coal Mine Disease Charge	[Underground, surface, surface auger]
+	Expense Constant	

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	PREMIUM ELEMENTS	EXPLANATORY NOTES
+	Terrorism	[(PAYROLL / 100) * TERRORISM VALUE]
<u>+</u>	Catastrophe (other than Certified Acts of Terrorism)	[(PAYROLL / 100) * CATASTROPHE (OTHER THAN CERTIFIED ACTS OF TERRORISM) VALUE]
	ESTIMATED ANNUAL PREMIUM	
+	Audit Noncompliance Charge	
	TOTAL AMOUNT DUE	

- 1 Premium charges established for Waiver of Subrogation are not filed by NCCI for the voluntary market.
- 2 Second Injury Fund assessments are calculated as if the deductible plan were not being used.
- 3 Schedule Rating and Risk Modeling Plans are individually filed by each carrier. Carriers have the option of filing a Schedule Rating Plan or a Risk Modeling Plan.
- 4 Not Otherwise Classified.
- 5 Nonratable Element Premiums generated by nonratable portion of manual rate are subject to all applicable premium elements applied to the policy, however, not subject to experience rating or retrospective rating.
- 6 For policies subject to premium adjustments under a retrospective rating plan, premium discount does not apply.

Note For short-rate cancellations, short-rate percentage/short-rate penalty premium factor is subject to experience rating, included in Total Subject Premium, and applied prior to Experience Modification.



EXHIBIT 3

Rules and an Endorsement Related to the Catastrophe (Other Than Certified Acts of Terrorism) Provision in Missouri

MISSOURI ADVISORY MISCELLANEOUS VALUES

Effective Date: August 1, 2022

Catastrophe (other than Certified Acts of Terrorism) - (Advisory Loss Cost)*

0.01

^{*}Effective August 1, 2022, per Item 02-MO-2021.

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EXHIBIT 4 STATISTICAL PLAN—2008 EDITION

PART 6—CODING VALUES

E. STATISTICAL CODES

3. Premium Amount Not Part of Standard Premium

Phraseology	Stat Code	Premium Credit (-) or Debit (+)	Applicable States	Effective Date	Discontinued Date	Notes (If Applicable)
Catastrophe Provisions for	<u>9741</u>	Debit (+)	MO	08/01/2022		
Catastrophe						
(Other Than						
Certified Acts						
of Terrorism)						

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ITEM 02-MO-2021—RULES AND AN ENDORSEMENT RELATED TO THE CATASTROPHE (OTHER THAN CERTIFIED ACTS OF TERRORISM) PROVISION IN MISSOURI

EXHIBIT 5

FORMS MANUAL OF WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE CATASTROPHE (OTHER THAN CERTIFIED ACTS OF TERRORISM) PREMIUM ENDORSEMENT (WC 00 04 21 F)

Catastrophe (Other Than Certified Acts of Terrorism) Premium Endorsement (WC 00 04 21 F)

This endorsement is notification that we are charging premium to cover the losses that may occur in the event of a Catastrophe (Other Than Certified Acts of Terrorism) as that term is defined below. Your policy provides coverage for workers compensation losses caused by a Catastrophe (Other Than Certified Acts of Terrorism). Coverage for such losses is subject to all terms, definitions, exclusions, and conditions in your policy, and any applicable federal and/or state laws, rules, or regulations. This premium charge does not provide funding for Certified Acts of Terrorism contemplated under the Terrorism Risk Insurance Program Reauthorization Act Disclosure Endorsement attached to this policy.

For purposes of this endorsement, Catastrophe (Other Than Certified Acts of Terrorism) is defined as:

A single event or peril resulting in a group of claims with aggregate workers compensation losses in excess of \$50 million. This \$50 million threshold applies per occurrence, across all states for which claims arise from a single event or peril.

The premium charge for the coverage your policy provides for workers compensation losses caused by a Catastrophe (Other Than Certified Acts of Terrorism) is shown in Item 4 of the Information Page or in the Schedule below.

Schedule	

State	Rate	Premium

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INFORMATIONAL EXHIBIT CATASTROPHE (OTHER THAN CERTIFIED ACTS OF TERRORISM) VOLUNTARY LOSS COST CALCULATION

	Countrywide Average Annual \$ Loss Per Worker	Average Weekly Wage	Average Annual Salary	Indicated \$ Loss Per \$100 Payroll	Loss- Based Expense Provision	Indicated Pandemic Loss Cost	Proposed Selected Catastrophe Loss Cost
State	(1)	(2)	(3) = (2) x 52	(4) = (1)/ [(3) /100]	(5)	(6) = (4) x (5)	(7)
Missouri	8.43	1,045	54,340	0.016	1.193	0.019	0.01

Column Sources/Notes:

- (1) Modeled Countrywide Workers Compensation Pandemic losses above \$50M per occurrence
- (2) U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, NCCI weighted state average weekly wage for 2019
- (5) Exhibit II of the 1/1/2021 approved Missouri Loss Cost Filing
- (7) Selection based on actuarial judgement

NATIONAL COUNCIL ON COMPENSATION INSURANCE 2021 ANNUAL COUNTRYWIDE ADJUSTING AND OTHER EXPENSE REVIEW

Each year, NCCI calculates a countrywide (CW) adjusting and other expense (AOE) provision. This file provides the CW AOE provision that will be filed as applicable during the 2021–2022 filing season.

NCCI calculates ultimate AOE ratios by accident year, separately for both paid and incurred data (paid plus unpaid). The average of the paid and incurred AOE ratio indications are also calculated. The AOE ratios by year as well as the selected provision are shown in Exhibit 1.

Exhibit 1: Ultimate AOE Ratios and Countrywide Selection

			Ultimate AOE
	Ultimate AOE	Ultimate AOE	Ratio Based on
	Ratio Based on	Ratio Based on	Avg. of Paid and
Accident Year	Paid Data	Incurred Data	Incurred Data
2016	8.5%	8.5%	8.5%
2017	9.1%	9.0%	9.1%
2018	9.2%	9.0%	9.1%
2019	9.6%	9.2%	9.4%
2020	10.4%	9.2%	9.8%
		Selected AOE Provision	9.4%

During this year's analysis, which included an assessment of pandemic claim-related impacts, a provision of 9.4% was selected as most appropriate in terms of providing a balance between stability and responsiveness.

Data Used

NCCI uses private carrier data reported on NCCI Call 19 to calculate the ultimate AOE ratios. Call 19 is a CW Call in which data is reported for the most recent 10 individual accident years, in addition to an aggregated "prior line" in which data is reported for all years older than the most recent 10. The data reported includes losses and AOE on both a paid and unpaid basis. Further, the Call 19 data is reported for all policy types—including that for large deductible policies.

Methodology Overview

To determine the ultimate AOE ratios, NCCI uses the following methodology:

- After developing AOE and losses separately to a 10th report, calculate the ratio of AOE-to-losses at that age of maturity
- Apply a 10th-to-ultimate (tail) factor to the AOE ratios at a 10th report
- Apply the adjustment to reverse AOE credits
 - Carriers may credit their AOE amounts for reimbursement of claims-handling provided to policyholders (such as for claims below a deductible amount) or for other service fees charged related to claims-handling. The purpose of this adjustment is to add these credits back in to put AOE on a first-dollar basis.
- Apply the adjustment for losses associated with Third-Party Administrator (TPA) Agreements
 - As a result of TPA agreements, some carriers report losses on Call 19 without associated AOE. The purpose of this
 adjustment is to remove these losses from the analysis.
- Apply the adjustment to convert losses from a net-of-deductible to a gross-of-deductible basis
 - Up to this point in the calculation, the data used includes losses from large deductible policies, net of the deductible. The purpose of this adjustment is to convert the data to a full coverage basis, allowing the AOE provision to be on the same basis as the losses used in individual state experience filings.
- Apply an adjustment to exclude the losses from reported COVID-19 pandemic related claims
 - The percentage of reported COVID-19 pandemic related losses to total losses is removed from the denominator of the AY 2020 AOE ratio to better reflect the conditions likely to prevail during the effective period of the 2021–2022 filing season.

Exhibit 2: Calculation of Ultimate AOE Ratios—Paid Data

	(1)	(2)	(3)=(1)x(2)	(4)	(5)	(6)=(4)x(5)	(7)
		Cumulative	Estimated		Cumulative	Estimated	10th Report-
	Paid AOE	Paid AOE	Paid AOE	Paid Losses	Paid Loss	Paid Losses	to-Ultimate
Accident	at Current	Development	Developed to a	at Current	Development	Developed to a	Paid AOE
Year	Report	Factors	10th Report	Report	Factors	10th Report	Tail Factor
2016	1,877,466,237	1.092	2,050,193,131	15,879,742,948	1.130	17,944,109,531	0.92
2017	1,911,456,406	1.143	2,184,794,672	15,015,586,251	1.208	18,138,828,191	0.92
2018	1,857,755,012	1.225	2,275,749,890	13,995,848,360	13,995,848,360		0.92
2019	1,722,318,435	1.401	2,412,968,127	10,903,787,755	1.745	19,027,109,632	0.92
2020	1,066,217,940	2.087	2,225,196,841	4,308,640,438	3.787	16,316,821,339	0.92
	(8)=(3)/(6)x(7)	(9)	(10)	(11)	(12)	(13)=[(8)+(9)]x(10)	x(11)/[1-(12)]
	Estimated		Adjustment for	Adjustment to	Pct. of Reported	Estimat	ed
	Ultimate AOE	Adjustment to	Losses	Convert Losses	COVID-19-Related	Ultimate	AOE
Accident	Ratio Before	Reverse AOE	Associated with	From Net to Gross	Losses to	Ratio Af	ter
Year	Adjustments	Credits	TPA Agreements	of Deductible	Total Losses	Adjustme	ents
2016	10.5%	0.011	1.049	0.70	-	8.5%	
2017	11.0%	0.013	1.056	0.70	-	9.1%	
2018	11.0%	0.014	1.058	0.70	-		
2019	11.7%	0.012	1.063	0.70	-	9.6%	
2020	12.5%	0.012	1.065	0.70	2.0%	10.4%	Ď

Exhibit 3: Calculation of Ultimate AOE Ratios—Incurred Data

	(1)	(2)	(3)=(1)x(2)	(4)	(5)	(6)=(4)x(5)	(7)
		Cumulative	Estimated		Cumulative	Estimated	10th Report-
	Incurred AOE	Incurred AOE	Incurred AOE	Incurred Losses	Incurred Loss	Incurred Losses	to-Ultimate
Accident	at Current	Development	Developed to a	at Current	Development	Developed to a	Incurred AOE
Year	Report	Factors	10th Report	Report	Factors	10th Report	Tail Factor
2016	2,216,009,400	1.015	2,249,249,541	22,775,644,146	0.960	21,864,618,380	1.01
2017	2,355,501,371	1.014	2,388,478,390	23,601,906,879	0.937	22,114,986,746	1.01
2018	2,429,616,009	1.008	2,449,052,937	25,191,363,333	0.911	22,949,331,996	1.01
2019	2,537,961,346	0.989	2,510,043,771	25,841,028,131	0.884	22,843,468,868	1.01
2020	2,260,212,629	0.982	2,219,528,802	23,759,962,651	0.870	20,671,167,506	1.01
	(8)=(3)/(6)x(7)	(9)	(10)	(11)	(12)	(13)=[(8)+(9)]x(10)	x(11)/[1-(12)]
	Estimated		Adjustment for	Adjustment to	Pct. of Reported	Estimat	ed
	Ultimate AOE	Adjustment to	Losses	Convert Losses	COVID-19-Related	Ultimate	AOE
Accident	Ratio Before	Reverse AOE	Associated with	From Net to Gross	Losses to	Ratio Af	ter
Year	Adjustments	Credits	TPA Agreements	of Deductible	Total Losses	Adjustme	ents
2016	10.4%	0.011	1.049	0.70	-	8.5%	
2017	10.9%	0.013	1.056	0.70	-	9.0%	
2018	10.8%	0.014	1.058	0.70	-	9.0%	
2019	11.1%	0.012	1.063	0.70	-	9.2%	
2020	10.8%	0.012	1.065	0.70	2.0%	9.2%	

Exhibit 4: AOE Tail Factor Selection—Paid

	(1)	(2)	(3) = (1)/(2)
			Paid AOE-to-Losses
	Paid AOE	Paid Losses	10th-to-Ultimate
Valuation Date	10th-to-Ultimate	10th-to-Ultimate	Tail Factor
12/31/2013	1.118	1.252	0.893
12/31/2014	1.089	1.233	0.883
12/31/2015	1.057	1.214	0.871
12/31/2016	1.081	1.198	0.902
12/31/2017	1.073	1.192	0.900
12/31/2018	1.115	1.138	0.980
12/31/2019	1.094	1.163	0.941
12/31/2020	1.117	1.135	0.984
		Selected Paid AOE Tail Factor	0.920

Exhibit 5: AOE Tail Factor Selection—Incurred

	(1)	(2)	(3) = (1)/(2) Incurred AOE-to-Losses
	Incurred AOE	Incurred Losses	10th-to-Ultimate
Valuation Date	10th-to-Ultimate	10th-to-Ultimate	Tail Factor
12/31/2013	1.051	1.039	1.012
12/31/2014	1.027	1.033	0.994
12/31/2015	0.999	1.017	0.982
12/31/2016	1.003	0.995	1.008
12/31/2017	1.000	0.997	1.003
12/31/2018	1.041	0.960	1.084
12/31/2019	1.007	0.976	1.032
12/31/2020	1.020	0.967	1.055
		Selected Incurred AOE Tail Factor	1.010

Missouri
Derivation of the Adjusting and Other Expense (AOE) Provision

Missouri Employers Mutual Private Carrier (1) (2) (3) = [(1)+(2)]/2(5) (6) = [(4)+(5)]/2(4) Ultimate AOE Ultimate AOE Average **Ultimate AOE** Ultimate AOE Average Ratio Based on Ratio Based on Ultimate AOE Ratio Based on Ratio Based on Ultimate AOE Paid Data **Incurred Data** Ratio Paid Data **Incurred Data** Ratio 8.5% 8.5% 8.5% 2016 9.7% 9.1% 9.4% 9.4% 8.5% 9.0% 2017 9.1% 9.0% 9.1% 9.0% 9.8% 9.3% 2018 9.2% 9.1% 8.8% 9.6% 9.2% 9.4% 11.4% 10.4% 10.9% 2019 2020 9.8% 12.0% 10.4% 9.2% 13.2% 10.8% (7) Selected AOE ratio 9.4% 9.9% (8) Weights 73% 27% (9) Weighted-average AOE ratio = $(0.094 \times 0.73) + (0.099 \times 0.27) =$ 9.5%

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Exhibit 10c - Missouri DCCE

Section A - Selection of DCCE Provision

	(1)	(2)	(3)
	Reported Ratio of	Age to Ultimate	Ultimate DCCE
5	Paid DCCE to	Development	
<u>Policy Year</u>	<u>Paid Losses</u>	<u>Factor</u>	<u>Ratio</u>
2015	10.5%	0.966	10.1%
2016	10.6%	0.962	10.2%
2017	10.0%	0.972	9.7%
2018	9.9%	0.997	9.9%
2019	9.3%	1.076	10.0%

Missouri Selected 10.0%

 $(3) = (1) \times (2)$

Section B - Summary of Paid DCCE to Paid Loss Ratio Development Factors

(1) (2) **DCCE Ratio Development** To Next Report To Ultimate Report 1st 1.079 1.076 2nd 1.026 0.997 3rd 1.010 0.972 4th 0.996 0.962 5th 0.966 0.998 6th 0.999 0.968 7th 0.992 0.969 8th 0.997 0.977 9th 0.995 0.980 10th 1.000 0.985 0.985 11th 1.002 12th 1.000 0.983 0.983 13th 0.997 14th 0.997 0.986 0.989 15th 0.998 16th 0.997 0.991 17th 0.998 0.994 0.996 18th 1.001 19th 0.995*

⁽²⁾ Section B

⁽¹⁾ Section C

^{(2) =} Cumulative upward product of column (1)

^{*}Selection

Exhibit 10c - Missouri DCCE

Section C - Paid DCCE to Paid Loss Ratio Development Factors

<u>Valuation</u>	<u>1st/2nd</u>	<u>2nd/3rd</u>	3rd/4th	4th/5th	5th/6th	6th/7th
12/31/2019 12/31/2020	1.090 1.068	1.023 1.029	1.001 1.018	1.000 0.992	1.002 0.994	0.995 1.002
Average	1.079	1.026	1.010	0.996	0.998	0.999

<u>Valuation</u>	7th/8th	8th/9th	9th/10th	10th/11th	11th/12th	12th/13th
12/31/2019 12/31/2020	0.995 0.988	0.996 0.997	0.995 0.994	1.000 1.000	1.002 1.001	0.999 1.001
Average	0.992	0.997	0.995	1.000	1.002	1.000

<u>Valuation</u>	13th/14th	14th/15th	15th/16th	16th/17th	17th/18th	18th/19th
12/31/2019	0.997	0.997	0.998	0.995	0.999	1.001
12/31/2020	0.996	0.996	0.998	0.998	0.996	1.000
Average	0.997	0.997	0.998	0.997	0.998	1.001

		(1)	(2)	Current Manual to		(3)	(4)	Proposed Manual to
		PY Standard Earned	Premiums @ PY	Standard Ratio		PY Standard Earned	Premiums @ PY	Standard Ratio
_	Policy Period	Premiums	Manual Rates	(2)/(1)	Policy Period	Premiums	Manual Rates	(4)/(3)
Manufacturing	7/13-6/14	222,009,841	279,735,283		7/14-6/15	232,511,405	293,853,138	
-	7/14-6/15	232,439,158	293,702,567		7/15-6/16	230,979,377	290,850,296	
	7/15-6/16	230,982,906	290,874,238		7/16-6/17	233,283,946	293,511,048	
	7/16-6/17	232,289,469	292,288,442		7/17-6/18	245,745,708	308,640,385	
	7/17-6/18	243,593,444	304,607,697		7/18-6/19	247,187,910	311,809,693	
-	5 Yr Totals	1,161,314,818	1,461,208,227	1.258	5 Yr Totals	1,189,708,346	1,498,664,560	1.260
Contracting	7/13-6/14	289,061,775	322,364,855		7/14-6/15	320,895,341	361,970,347	
_	7/14-6/15	320,850,952	361,899,314		7/15-6/16	340,835,179	384,947,670	
	7/15-6/16	340,894,092	385,033,841		7/16-6/17	332,487,880	373,956,736	
	7/16-6/17	332,663,066	374,203,093		7/17-6/18	325,136,918	365,225,319	
	7/17-6/18	326,282,342	366,416,407		7/18-6/19	326,409,147	366,870,749	
-	5 Yr Totals	1,609,752,227	1,809,917,510	1.124	5 Yr Totals	1,645,764,465	1,852,970,821	1.126
Office & Clerical	7/13-6/14	160,292,725	181,260,989		7/14-6/15	165,315,150	188,891,828	
	7/14-6/15	164,879,374	187,499,859		7/15-6/16	164,730,046	188,780,086	
	7/15-6/16	164,730,413	188,779,696		7/16-6/17	163,709,327	188,531,348	
	7/16-6/17	163,704,664	188,456,926		7/17-6/18	163,338,525	185,394,001	
	7/17-6/18	162,731,149	184,635,343		7/18-6/19	163,076,080	181,863,732	
-	5 Yr Totals	816,338,325	930,632,813	1.140	5 Yr Totals	820,169,128	933,460,995	1.138
Goods & Services	7/13-6/14	380,262,527	406,138,517		7/14-6/15	400,289,020	432,583,137	
	7/14-6/15	399,768,337	431,570,412		7/15-6/16	406,708,633	442,876,004	
	7/15-6/16	406,789,502	442,937,456		7/16-6/17	406,678,850	442,447,773	
	7/16-6/17	405,376,712	441,612,061		7/17-6/18	417,771,100	453,661,749	
	7/17-6/18	415,150,286	451,003,468		7/18-6/19	410,089,633	447,481,956	
-	5 Yr Totals	2,007,347,364	2,173,261,914	1.083	5 Yr Totals	2,041,537,236	2,219,050,619	1.087
Miscellaneous	7/13-6/14	236,942,977	255,230,302		7/14-6/15	252,476,000	274,208,677	
	7/14-6/15	252,433,172	274,166,456		7/15-6/16	264,288,768	282,707,875	
	7/15-6/16	264,304,824	282,728,323		7/16-6/17	267,542,068	286,713,305	
	7/16-6/17	267,650,506	286,788,896		7/17-6/18	277,593,121	293,351,147	
	7/17-6/18	277,589,330	293,160,800		7/18-6/19	278,213,644	298,452,089	
-	5 Yr Totals	1,298,920,809	1,392,074,777	1.072	5 Yr Totals	1,340,113,601	1,435,433,093	1.071

01/01/22

LIMITED INDEMNITY LOSS DEVELOPMENT Likely

PY Data	1st Report	2nd Report	3rd Report	4th Report	5th Report	6th Report	7th Report	8th Report	9th Report	10th Report
7/05-6/06	76,947,671	91,690,283	101,288,877	107,913,115	112,385,948	114,492,756	116,431,008	117,483,461	118,047,324	119,013,915
7/06-6/07	76,140,429	88,429,315	97,122,490	102,414,309	106,329,085	108,223,440	110,895,382	111,665,771	112,488,047	113,668,298
7/07-6/08	77,323,191	93,390,680	101,811,778	107,897,799	111,698,789	116,127,037	117,726,530	118,428,820	119,979,745	120,041,004
7/08-6/09	60,056,111	72,230,419	81,623,268	86,439,771	91,063,778	93,644,828	95,068,921	96,622,964	96,975,915	97,418,302
7/09-6/10	62,432,683	75,716,217	83,034,104	89,865,106	96,748,706	100,052,564	101,358,956	103,317,336	103,554,732	103,459,678
7/10-6/11	59,870,667	73,966,189	84,905,974	90,360,559	96,020,802	97,927,150	100,556,582	100,314,345	100,472,625	
7/11-6/12	58,045,953	71,694,986	80,390,193	86,894,864	91,855,328	95,134,267	96,142,685	97,498,932		
7/12-6/13	54,835,449	69,380,639	80,366,338	87,654,735	91,252,185	94,604,277	97,520,116			
7/13-6/14	57,635,421	75,116,052	87,085,600	93,849,791	99,615,885	103,866,635				
7/14-6/15	64,560,921	81,329,756	92,519,271	100,117,427	104,506,219					
7/15-6/16	62,399,313	79,157,363	89,176,575	95,744,406						
7/16-6/17	61,862,720	78,642,126	89,990,356							
7/17-6/18	63,422,537	79,583,609								
7/18-6/19	63,701,074									
Link Ratios	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
7/05-6/06	1.192	1.105	1.065	1.041	1.019	1.017	1.009	1.005	1.008	
7/06-6/07	1.161	1.098	1.054	1.038	1.018	1.025	1.007	1.007	1.010	
7/07-6/08	1.208	1.090	1.060	1.035	1.040	1.014	1.006	1.013	1.001	
7/08-6/09	1.203	1.130	1.059	1.053	1.028	1.015	1.016	1.004	1.005	
7/09-6/10	1.213	1.097	1.082	1.077	1.034	1.013	1.019	1.002	0.999	
7/10-6/11	1.235	1.148	1.064	1.063	1.020	1.027	0.998	1.002		
7/11-6/12	1.235	1.121	1.081	1.057	1.036	1.011	1.014			
7/12-6/13	1.265	1.158	1.091	1.041	1.037	1.031				
7/13-6/14	1.303	1.159	1.078	1.061	1.043					
7/14-6/15	1.260	1.138	1.082	1.044						
7/15-6/16	1.269	1.127	1.074							
7/16-6/17	1.271	1.144								
7/17-6/18	1.255									
AVERAGE DEV.	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
5 Year Averages	1.272	1.145	1.081	1.053	1.034	1.019	1.011	1.006	1.005	
AVG DEV. TO ULT.	1:U	2:U	3:U	4:U	5:U	6:U	7:U	8:U	9:U	10:U
5 Year Averages	1.890	1.486	1.298	1.201	1.141	1.103	1.082	1.070	1.064	1.059

LIMITED INDEMNITY LOSS DEVELOPMENT Not-Likely

PY Data	1st Report	2nd Report	3rd Report	4th Report	5th Report	6th Report	7th Report	8th Report	9th Report	10th Report
7/05-6/06	147,478,853	157,943,608	164,060,221	166,495,078	169,362,459	169,315,079	170,012,167	169,695,199	169,884,450	169,487,780
7/06-6/07	151,819,694	164,230,930	169,498,764	173,131,217	174,361,556	175,769,718	175,355,137	175,604,930	175,916,976	175,564,477
7/07-6/08	147,714,143	159,379,477	167,941,265	172,880,371	173,571,859	174,182,814	175,146,585	175,184,872	175,009,255	175,171,636
7/08-6/09	139,687,182	154,274,723	162,009,873	164,259,555	164,639,976	166,277,817	167,130,375	167,879,518	167,598,132	167,979,672
7/09-6/10	134,849,777	146,345,111	154,579,279	157,834,574	159,958,766	159,770,939	160,002,837	162,024,245	162,054,511	162,163,601
7/10-6/11	140,897,267	156,186,337	164,446,298	167,299,133	170,091,951	172,775,263	172,962,399	172,434,640	173,062,723	
7/11-6/12	140,505,102	153,215,704	163,085,788	166,077,667	168,416,294	169,602,133	170,954,087	170,359,528		
7/12-6/13	154,192,792	169,246,651	178,042,750	182,999,734	185,111,136	187,638,568	188,742,013			
7/13-6/14	155,553,142	172,090,336	182,049,311	188,079,751	190,062,622	192,396,342				
7/14-6/15	161,524,545	181,082,853	191,978,072	197,941,017	200,682,312					
7/15-6/16	164,693,869	181,952,171	191,586,416	196,401,339						
7/16-6/17	166,077,025	183,195,933	194,857,023							
7/17-6/18	177,836,092	197,360,967								
7/18-6/19	177,752,821									
Link Ratios	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
7/05-6/06	1.071	1.039	1.015	1.017	1.000	1.004	0.998	1.001	0.998	
7/06-6/07	1.082	1.032	1.021	1.007	1.008	0.998	1.001	1.002	0.998	
7/07-6/08	1.079	1.054	1.029	1.004	1.004	1.006	1.000	0.999	1.001	
7/08-6/09	1.104	1.050	1.014	1.002	1.010	1.005	1.004	0.998	1.002	
7/09-6/10	1.085	1.056	1.021	1.013	0.999	1.001	1.013	1.000	1.001	
7/10-6/11	1.109	1.053	1.017	1.017	1.016	1.001	0.997	1.004		
7/11-6/12	1.090	1.064	1.018	1.014	1.007	1.008	0.997			
7/12-6/13	1.098	1.052	1.028	1.012	1.014	1.006				
7/13-6/14	1.106	1.058	1.033	1.011	1.012					
7/14-6/15	1.121	1.060	1.031	1.014						
7/15-6/16	1.105	1.053	1.025							
7/16-6/17	1.103	1.064								
7/17-6/18	1.110									
AVERAGE DEV.	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
5 Year Averages	1.109	1.057	1.027	1.014	1.010	1.004	1.002	1.001	1.000	
AVG DEV. TO ULT.	1:U	2:U	3:U	4:U	5:U	6:U	7:U	8:U	9:U	10:U
5 Year Averages	1.251	1.128	1.067	1.039	1.025	1.015	1.011	1.009	1.008	1.008

LIMITED MEDICAL LOSS DEVELOPMENT Likely

PY Data	1st Report	2nd Report	3rd Report	4th Report	5th Report	6th Report	7th Report	8th Report	9th Report	10th Report
7/05-6/06	99,323,294	106,494,451	110,979,108	114,405,386	114,845,328	114,274,953	114,483,824	115,053,323	114,218,196	114,214,813
7/06-6/07	100,854,536	105,262,138	108,886,106	110,393,045	111,390,966	111,011,418	112,211,487	113,066,299	113,408,269	114,173,457
7/07-6/08	100,533,090	106,442,753	110,879,923	114,192,455	114,978,382	114,979,764	115,149,833	115,033,467	114,769,376	114,524,663
7/08-6/09	81,308,701	88,082,227	89,043,099	90,604,958	91,445,358	90,922,546	90,663,811	90,810,422	90,696,941	90,496,918
7/09-6/10	88,550,954	96,355,353	96,688,213	97,646,496	97,962,046	97,417,674	97,200,782	97,133,560	96,810,935	96,561,268
7/10-6/11	88,018,409	94,376,875	98,213,891	98,751,290	98,722,736	98,753,831	98,910,309	98,490,432	98,688,176	
7/11-6/12	87,546,132	92,904,216	95,366,981	95,843,226	96,261,020	96,654,947	96,055,164	95,912,617		
7/12-6/13	80,729,427	89,886,118	92,190,186	92,931,783	92,417,819	92,262,710	91,918,800			
7/13-6/14	85,630,049	92,562,964	95,394,536	95,775,957	97,547,434	97,739,124				
7/14-6/15	91,090,386	98,584,419	100,346,772	100,072,364	100,307,162					
7/15-6/16	92,542,876	97,216,210	98,261,718	99,416,136						
7/16-6/17	91,566,584	99,170,752	98,965,527							
7/17-6/18	94,120,666	100,304,852								
7/18-6/19	92,828,200									
Link Ratios	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
7/05-6/06	1.072	1.042	1.031	1.004	0.995	1.002	1.005	0.993	1.000	
7/06-6/07	1.044	1.034	1.014	1.009	0.997	1.011	1.008	1.003	1.007	
7/07-6/08	1.059	1.042	1.030	1.007	1.000	1.001	0.999	0.998	0.998	
7/08-6/09	1.083	1.011	1.018	1.009	0.994	0.997	1.002	0.999	0.998	
7/09-6/10	1.088	1.003	1.010	1.003	0.994	0.998	0.999	0.997	0.997	
7/10-6/11	1.072	1.041	1.005	1.000	1.000	1.002	0.996	1.002		
7/11-6/12	1.061	1.027	1.005	1.004	1.004	0.994	0.999			
7/12-6/13	1.113	1.026	1.008	0.994	0.998	0.996				
7/13-6/14	1.081	1.031	1.004	1.018	1.002					
7/14-6/15	1.082	1.018	0.997	1.002						
7/15-6/16	1.050	1.011	1.012							
7/16-6/17	1.083	0.998								
7/17-6/18	1.066									
AVERAGE DEV.	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
5 Year Averages	1.072	1.017	1.005	1.004	1.000	0.997	0.999	1.000	1.000	
AVG DEV. TO ULT.	1:U	2:U	3:U	4:U	5:U	6:U	7:U	8:U	9:U	10:U
5 Year Averages	1.168	1.090	1.072	1.067	1.063	1.063	1.066	1.067	1.067	1.067

LIMITED MEDICAL LOSS DEVELOPMENT Not-Likely

PY Data	1st Report	2nd Report	3rd Report	4th Report	5th Report	6th Report	7th Report	8th Report	9th Report	10th Report
7/05-6/06	229,660,299	231,894,373	232,046,126	231,763,210	231,264,656	231,053,167	231,442,423	231,216,495	231,009,181	231,007,076
7/06-6/07	241,306,088	243,502,966	245,021,830	246,691,026	245,444,289	245,542,135	244,872,395	244,090,067	244,259,979	243,719,247
7/07-6/08	243,698,504	247,358,461	249,999,026	249,947,070	249,328,107	248,756,488	248,887,906	249,612,457	249,912,175	249,674,416
7/08-6/09	235,382,638	240,558,389	243,160,990	242,547,891	241,434,652	241,906,796	241,753,544	241,726,384	241,760,628	242,002,224
7/09-6/10	240,954,039	244,818,410	245,967,706	244,378,911	243,552,184	243,146,389	243,600,160	243,543,003	244,111,844	243,957,586
7/10-6/11	259,348,781	263,873,946	263,920,409	264,309,744	265,150,007	264,932,483	265,064,593	265,243,702	264,632,572	
7/11-6/12		259,431,655	259,912,636	260,193,525	260,469,379	260,571,939	260,664,785	259,598,297		
7/12-6/13		282,275,511	280,693,337	279,523,305	278,999,420	278,932,224	277,737,067			
7/13-6/14	288,908,676	290,057,878	290,969,302	290,891,158	290,478,287	290,017,505				
7/14-6/15	296,576,953	299,257,207	299,646,288	298,912,504	298,681,048					
7/15-6/16	313,236,878	315,751,638	318,534,833	318,096,991						
7/16-6/17	318,745,155	320,029,888	321,095,338							
7/17-6/18		344,937,255								
7/18-6/19	350,224,652									
Link Ratios	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
7/05-6/06	1.010	1.001	0.999	0.998	0.999	1.002	0.999	0.999	1.000	
7/06-6/07	1.009	1.006	1.007	0.995	1.000	0.997	0.997	1.001	0.998	
7/07-6/08	1.015	1.011	1.000	0.998	0.998	1.001	1.003	1.001	0.999	
7/08-6/09	1.022	1.011	0.997	0.995	1.002	0.999	1.000	1.000	1.001	
7/09-6/10	1.016	1.005	0.994	0.997	0.998	1.002	1.000	1.002	0.999	
7/10-6/11	1.017	1.000	1.001	1.003	0.999	1.000	1.001	0.998		
7/11-6/12	1.005	1.002	1.001	1.001	1.000	1.000	0.996			
7/12-6/13	1.004	0.994	0.996	0.998	1.000	0.996				
7/13-6/14	1.004	1.003	1.000	0.999	0.998					
7/14-6/15	1.009	1.001	0.998	0.999						
7/15-6/16	1.008	1.009	0.999							
7/16-6/17	1.004	1.003								
7/17-6/18	1.008									
AVERAGE DEV.	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	
5 Year Averages	1.007	1.002	0.999	1.000	0.999	0.999	1.000	1.000	0.999	
AVG DEV. TO ULT.	1:U	2:U	3:U	4:U	5:U	6:U	7:U	8:U	9:U	10:U
5 Year Averages	1.010	1.003	1.001	1.002	1.002	1.003	1.004	1.004	1.004	1.005

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Missouri Indemnity I	Limited State	wide Paid L	.oss Develo	pment														Exhibit 7
PY 1992	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19 1.004
1993																	1.002	1.004
1994																1.004	1.004	1.001
1995															1.004	1.007	1.004	1.002
1996														1.004	1.005	1.005	1.004	1.002
1997													1.004	1.004	1.002	1.003	1.002	1.004
1998												1.007	1.005	1.006	1.004	1.005	1.004	1.007
1999											1.006	1.006	1.008	1.007	1.001	1.007	1.002	1.002
2000										1.008	1.003	1.013	1.006	1.006	1.004	1.003	1.004	1.001
2001									1.010	1.010	1.007	1.004	1.012	1.003	1.004	1.004	1.003	1.006
2002								1.018	1.008	1.009	1.008	1.007	1.003	1.004	1.003	1.004	1.002	
2003							1.023	1.016	1.016	1.005	1.006	1.005	1.007	1.007	1.005	1.002		
2004						1.032	1.021	1.020	1.014	1.014	1.007	1.006	1.012	1.005	1.005			
2005					1.046	1.036	1.022	1.012	1.014	1.009	1.009	1.006	1.004	1.004				
2006				1.068	1.040	1.032	1.026	1.016	1.009	1.008	1.010	1.005	1.012					
2007			1.125	1.077	1.054	1.036	1.018	1.016	1.021	1.013	1.006	1.006						
2008		1.248	1.159	1.092	1.047	1.041	1.019	1.020	1.020	1.009	1.006							
2009	1.799	1.292	1.141	1.091	1.059	1.026	1.023	1.017	1.012	1.006								
2010	1.872	1.289	1.152	1.092	1.051	1.033	1.020	1.016	1.016									
2011	1.789	1.295	1.161	1.092	1.060	1.045	1.024	1.013										
2012	1.801	1.308	1.155	1.087	1.052	1.031	1.028											
2013	1.747	1.328	1.182	1.073	1.040	1.022												
2014	1.869	1.268	1.117	1.074	1.061													
2015	1.806	1.282	1.144	1.086														
2016	1.782	1.291	1.135															
2017	1.812	1.263																
2018	1.735																	

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Missouri Indemnity Li	mited Statev	vide Paid+C	ase Loss De	velopment														Exhibit 7	
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	
1992																		1.002	
1993																	1.002	1.003	
1994																1.000	1.000	1.001	
1995															1.000	1.000	1.000	1.001	
1996														1.000	1.001	1.001	1.001	1.002	
1997													0.999	0.999	0.998	0.998	1.004	1.003	
1998												1.005	1.001	1.006	0.999	1.003	1.002	1.000	
1999											0.999	1.002	1.003	0.999	1.001	1.001	1.001	1.003	
2000										1.003	1.003	1.004	1.001	1.001	1.000	1.000	0.996	1.001	
2001									1.007	0.997	1.004	1.001	1.002	0.999	1.001	1.000	0.999	1.002	
2002								1 005	1 005	1 002	0.995	0 999	1 003	0 999	1 002	1 001	1 001		

1.007

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1.006

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0.995

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1.009

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0.996

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1.011

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2013 1.128 1.089 1.074 1.040 1.002 1.013 2014 1.054 1.021 1.028 1.024 1.135 2015 1.123 1.063 1.033 1.021 2016 1.140 1.063 1.059 2017 1.127 1.075

1.024

1.055

1.028

1.043

1.072

1.038

1.041

1.063

1.059

1.051

1.078

1.124

1.095

1.136

1.133

2003

2004

2005

2006 2007

2008

2009

2010

2011

2012

2018

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Missouri Medical Limit	ted Statewid	de Paid Loss	Developm	ent														Exhibit 7
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992																		1.001
1993																	1.003	1.003
1004																1 000	1 004	1 004

PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992																		1.001
1993																	1.003	1.003
1994																1.008	1.004	1.004
1995															1.005	1.003	1.004	1.003
1996														1.004	1.000	1.001	1.003	1.001
1997													1.005	1.006	1.004	1.006	1.005	1.011
1998												1.012	1.007	1.003	1.003	1.001	1.001	1.002
1999											1.008	1.007	1.010	1.004	1.002	1.008	1.001	1.001
2000										1.006	1.007	1.007	1.004	1.017	1.001	1.002	1.003	1.001
2001									1.007	1.009	1.007	1.004	1.003	1.004	1.005	1.003	1.003	1.003
2002								1.011	1.006	1.007	1.005	1.005	1.007	1.004	1.003	1.011	1.004	
2003							1.014	1.008	1.009	1.005	1.005	1.004	1.002	1.004	1.002	1.004		
2004						1.015	1.012	1.007	1.012	1.009	1.004	1.004	1.004	1.005	1.004			
2005					1.026	1.022	1.014	1.006	1.006	1.005	1.004	1.005	1.004	1.004				
2006				1.017	1.014	1.009	1.014	1.007	1.004	1.003	1.005	1.003	1.005					
2007			1.036	1.009	1.012	1.011	1.009	1.004	1.004	1.005	1.003	1.001						
2008		1.064	1.033	1.023	1.022	1.019	1.012	1.004	1.012	1.005	1.004							
2009	1.226	1.059	1.036	1.017	1.013	1.010	1.006	1.006	1.003	1.001								
2010	1.243	1.059	1.036	1.016	1.012	1.010	1.009	1.007	1.010									
2011	1.218	1.058	1.036	1.020	1.018	1.013	1.012	1.011										
2012	1.226	1.066	1.030	1.019	1.015	1.009	1.017											
2013	1.219	1.064	1.027	1.016	1.005	1.007												
2014	1.241	1.061	1.021	1.015	1.018													
2015	1.237	1.059	1.035	1.024														
2016	1.205	1.060	1.020															
2017	1.212	1.055																
2018	1.191																	

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Missouri Medical Lir	mited Statewi	ide Paid+Ca	ise Loss Dev	relopment														Exhibit 7
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1992																		1.002
1993																	1.002	1.002
1994																1.001	0.996	1.004
1995															1.004	1.003	0.998	1.001
1996														0.991	1.004	1.008	1.001	1.002
1997													0.995	1.002	0.990	0.999	1.011	0.992
1998												1.007	1.004	0.989	1.008	1.004	1.000	1.000
1999											1.002	1.000	1.005	1.000	1.000	1.004	0.999	0.999
2000										1.003	1.009	1.005	1.003	0.992	0.997	1.000	1.001	1.003
2001									1.001	1.017	1.007	1.002	0.999	1.003	0.993	1.000	0.996	1.002
2002								1.001	1.008	1.002	0.999	1.005	1.003	1.003	1.001	1.002	1.011	
2003							1.000	0.999	0.995	1.004	0.994	1.004	0.999	1.009	1.001	1.002		
2004						1.005	1.001	1.031	1.005	0.997	1.001	1.005	0.994	0.997	0.997			
2005					0.989	1.002	1.004	1.001	1.023	0.997	1.010	1.002	1.000	0.999				
2006				0.997	1.002	0.985	1.006	0.998	1.001	1.006	1.001	1.003	1.005					
2007			1.001	1.000	0.997	0.998	1.003	1.004	1.002	0.996	1.001	0.999						
2008		1.023	1.010	0.983	1.010	1.007	0.998	1.008	0.990	0.985	1.001							
2009	1.043	1.013	0.999	1.003	0.998	1.007	1.007	0.996	0.997	0.989								
2010	1.048	1.002	0.994	0.993	1.010	1.001	0.999	0.998	1.004									
2011	1.022	0.996	0.972	0.993	1.024	0.992	1.006	0.993										
2012	1.031	1.005	1.004	0.998	0.986	0.995	0.998											
2013	1.013	0.993	1.000	1.000	0.981	1.004												
2014	1.034	0.993	0.992	1.008	1.004													
2015	1.035	1.006	1.007	1.002														
2016	1.007	0.967	1.002															
2017	1.025	0.994																
2018	1.002																	

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Missouri Statewide	e Unlimited DC	CE Paid De	velopment															Exhibit 7
PY	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
1994																1.003	1.003	1.007
1995															1.005	1.002	1.001	1.001
1996														1.007	1.001	1.001	1.002	1.002
1997													1.003	1.004	1.002	1.003	1.002	1.002
1998												1.006	1.004	1.005	1.003	1.003	1.001	1.002
1999											1.011	1.011	1.004	1.005	1.002	1.005	1.002	1.001
2000										1.007	1.010	1.007	1.004	1.005	1.001	1.001	1.002	1.002
2001									1.012	1.008	1.005	1.002	1.002	1.004	1.005	0.999	1.002	1.004
2002								1.008	1.015	1.008	1.006	1.004	1.003	1.002	1.004	1.002	0.999	
2003							1.016	1.015	1.009	1.005	1.005	1.004	1.002	1.003	1.002	1.001		
2004						1.022	1.020	1.011	1.008	1.009	1.005	1.003	1.003	1.002	1.002			
2005					1.038	1.027	1.014	1.009	1.008	1.006	1.005	1.004	1.004	1.001				
2006				1.054	1.034	1.018	1.011	1.011	1.006	1.006	1.005	1.003	1.004					
2007			1.095	1.058	1.038	1.022	1.013	1.011	1.012	1.005	1.006	1.004						
2008		1.191	1.114	1.050	1.032	1.023	1.015	1.010	1.008	1.007	1.006							
2009	1.493	1.190	1.085	1.048	1.031	1.018	1.012	1.008	1.002	1.003								
2010	1.508	1.181	1.090	1.049	1.026	1.016	1.010	1.007	1.006									
2011	1.476	1.164	1.108	1.066	1.034	1.019	1.012	1.009										
2012	1.476	1.175	1.071	1.051	1.025	1.013	1.009											
2013	1.477	1.152	1.084	1.042	1.022	1.016												
2014	1.452	1.158	1.077	1.039	1.030													
2015	1.475	1.172	1.076	1.040														
2016	1.479	1.161	1.081															
2017	1 470	1 152																

1.479 1.470 1.408

2017 2018

1.152

MISSOURI Exhibit 8

Statewide - Private Carrier + State Fund
Derivation of the Factor to Adjust Losses for Prior Policy Years for Valuation Year 2020

			Indemnity Paid+0	ase Data			
(1)	(2)		(3)		(4)=(3)/(2)	(5)	(6)
Policy	Older Year's Inc	demnity	Newer Year's	Indemnity	Growth	Inverse	Upward Cum.
Years	Paid + Case L	osses	Paid + Case	Losses	Ratio	1 / (4)	Product of (5)
1987/1986	PY 1986@2005	157,871,301	PY 1987@2006	179,756,406	1.139	0.878	0.756
1988/1987	PY 1987@2006	177,454,320	PY 1988@2007	198,950,113	1.121	0.892	0.860
1989/1988	PY 1988@2007	198,505,376	PY 1989@2008	220,882,644	1.113	0.899	0.965
1990/1989	PY 1989@2008	219,039,126	PY 1990@2009	232,456,428	1.061	0.942	1.073
1991/1990	PY 1990@2009	227,189,268	PY 1991@2010	225,498,511	0.993	1.007	1.139
1992/1991	PY 1991@2010	225,498,511	PY 1992@2011	200,835,736	0.891	1.123	1.131
1993/1992	PY 1992@2011	200,811,854	PY 1993@2012	183,496,440	0.914	1.094	1.007
1994/1993	PY 1993@2012	183,545,036	PY 1994@2013	165,007,399	0.899	1.112	0.920
1995/1994	PY 1994@2013	163,997,293	PY 1995@2014	141,633,259	0.864	1.158	0.827
1996/1995	PY 1995@2014	141,608,646	PY 1996@2015	148,254,038	1.047	0.955	0.714
1997/1996	PY 1996@2015	148,247,760	PY 1997@2016	154,914,525	1.045	0.957	0.748
1998/1997	PY 1997@2016	154,914,525	PY 1998@2017	182,906,839	1.181	0.847	0.782
1999/1998	PY 1998@2017	192,061,279	PY 1999@2018	195,440,205	1.018	0.983	0.923
2000/1999	PY 1999@2018	187,282,040	PY 2000@2019	199,418,430	1.065	0.939	0.939
			Factor t	o Adjust Losses fo	or Prior Years—1	10-Year Average	0.913

			Medical Paid+Ca	se Data			
(1)	(2)		(3)		(4)=(3)/(2)	(5)	(6)
Policy	Older Year's I	Medical	Newer Year's	Medical	Growth	Inverse	Upward Cum.
Years	Paid + Case	Losses	Paid + Case	Losses	Ratio	1 / (4)	Product of (5)
1987/1986	PY 1986@2005	108,101,402	PY 1987@2006	140,700,501	1.302	0.768	0.548
1988/1987	PY 1987@2006	139,423,344	PY 1988@2007	152,395,769	1.093	0.915	0.713
1989/1988	PY 1988@2007	152,292,010	PY 1989@2008	169,069,844	1.110	0.901	0.780
1990/1989	PY 1989@2008	167,794,520	PY 1990@2009	186,527,540	1.112	0.900	0.866
1991/1990	PY 1990@2009	182,662,813	PY 1991@2010	191,692,398	1.049	0.953	0.962
1992/1991	PY 1991@2010	191,692,398	PY 1992@2011	166,012,660	0.866	1.155	1.010
1993/1992	PY 1992@2011	166,008,493	PY 1993@2012	170,212,510	1.025	0.975	0.875
1994/1993	PY 1993@2012	170,220,623	PY 1994@2013	152,705,754	0.897	1.115	0.897
1995/1994	PY 1994@2013	151,577,681	PY 1995@2014	134,631,701	0.888	1.126	0.804
1996/1995	PY 1995@2014	134,623,547	PY 1996@2015	128,910,066	0.958	1.044	0.715
1997/1996	PY 1996@2015	128,897,172	PY 1997@2016	153,272,672	1.189	0.841	0.684
1998/1997	PY 1997@2016	153,272,672	PY 1998@2017	156,640,785	1.022	0.978	0.814
1999/1998	PY 1998@2017	164,679,784	PY 1999@2018	177,106,284	1.075	0.930	0.831
2000/1999	PY 1999@2018	169,817,461	PY 2000@2019	189,908,827	1.118	0.894	0.894
			Factor t	o Adjust Losses fo	or Prior Years—1	LO-Year Average	0.849

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MISSOURI Exhibit 8

Statewide - Private Carrier + State Fund
Derivation of the Factor to Adjust Losses for Prior Policy Years for Valuation Year 2019

			Indemnity Paid+0	ase Data			
(1)	(2)		(3)		(4)=(3)/(2)	(5)	(6)
Policy	Older Year's Inc	demnity	Newer Year's	Indemnity	Growth	Inverse	Upward Cum.
Years	Paid + Case L	.osses	Paid + Case	Losses	Ratio	1 / (4)	Product of (5)
1986/1985	PY 1985@2004	140,568,476	PY 1986@2005	157,871,301	1.123	0.890	0.717
1987/1986	PY 1986@2005	157,871,301	PY 1987@2006	179,756,406	1.139	0.878	0.805
1988/1987	PY 1987@2006	177,454,320	PY 1988@2007	198,950,113	1.121	0.892	0.916
1989/1988	PY 1988@2007	198,505,376	PY 1989@2008	220,882,644	1.113	0.899	1.027
1990/1989	PY 1989@2008	219,039,126	PY 1990@2009	232,456,428	1.061	0.942	1.143
1991/1990	PY 1990@2009	227,189,268	PY 1991@2010	225,498,511	0.993	1.007	1.213
1992/1991	PY 1991@2010	225,498,511	PY 1992@2011	200,835,736	0.891	1.123	1.204
1993/1992	PY 1992@2011	200,811,854	PY 1993@2012	183,496,440	0.914	1.094	1.072
1994/1993	PY 1993@2012	183,545,036	PY 1994@2013	165,007,399	0.899	1.112	0.980
1995/1994	PY 1994@2013	163,997,293	PY 1995@2014	141,633,259	0.864	1.158	0.881
1996/1995	PY 1995@2014	141,608,646	PY 1996@2015	148,254,038	1.047	0.955	0.761
1997/1996	PY 1996@2015	148,247,760	PY 1997@2016	154,914,525	1.045	0.957	0.796
1998/1997	PY 1997@2016	154,914,525	PY 1998@2017	182,906,839	1.181	0.847	0.832
1999/1998	PY 1998@2017	192,061,279	PY 1999@2018	195,440,205	1.018	0.983	0.983
			Factor t	o Adjust Losses fo	or Prior Years—:	10-Year Average	0.987

			Medical Paid+Ca	se Data			
(1)	(2)		(3)		(4)=(3)/(2)	(5)	(6)
Policy	Older Year's	Medical	Newer Year's	Medical	Growth	Inverse	Upward Cum.
Years	Paid + Case	Losses	Paid + Case	Losses	Ratio	1 / (4)	Product of (5)
1986/1985	PY 1985@2004	94,696,424	PY 1986@2005	108,101,402	1.142	0.876	0.537
1987/1986	PY 1986@2005	108,101,402	PY 1987@2006	140,700,501	1.302	0.768	0.613
1988/1987	PY 1987@2006	139,423,344	PY 1988@2007	152,395,769	1.093	0.915	0.798
1989/1988	PY 1988@2007	152,292,010	PY 1989@2008	169,069,844	1.110	0.901	0.872
1990/1989	PY 1989@2008	167,794,520	PY 1990@2009	186,527,540	1.112	0.900	0.968
1991/1990	PY 1990@2009	182,662,813	PY 1991@2010	191,692,398	1.049	0.953	1.076
1992/1991	PY 1991@2010	191,692,398	PY 1992@2011	166,012,660	0.866	1.155	1.129
1993/1992	PY 1992@2011	166,008,493	PY 1993@2012	170,212,510	1.025	0.975	0.978
1994/1993	PY 1993@2012	170,220,623	PY 1994@2013	152,705,754	0.897	1.115	1.003
1995/1994	PY 1994@2013	151,577,681	PY 1995@2014	134,631,701	0.888	1.126	0.900
1996/1995	PY 1995@2014	134,623,547	PY 1996@2015	128,910,066	0.958	1.044	0.799
1997/1996	PY 1996@2015	128,897,172	PY 1997@2016	153,272,672	1.189	0.841	0.765
1998/1997	PY 1997@2016	153,272,672	PY 1998@2017	156,640,785	1.022	0.978	0.910
1999/1998	PY 1998@2017	164,679,784	PY 1999@2018	177,106,284	1.075	0.930	0.930
			Factor t	o Adjust Losses fo	or Prior Years—1	0-Year Average	0.946

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Calculation of Tail Adjustment Factors (F_T) by Threshold Rate Filing Season 2021–2022 ULDF = 1.020

<u>Threshold</u>	<u>ELFT</u>	<u>ELDFT</u>	<u>CLDFT</u>	<u> </u>
10,000,000	0.010	1.877	1.016	0.776
11,000,000	0.008	1.940	1.016	0.803
10,057,697				0.778

Notes:

- (1) ULDF = Uncapped 19th to ultimate tail factor, based on NCCI states except NV, TX, and WV
- (2) ELF_T = Excess ratio for threshold T
- (3) ELDF_T = Excess paid+case tail factor, 19th to ultimate, for threshold T
- (4) $CLDF_T = Capped paid+case tail factor, 19th to ultimate: <math>(1-ELF_T) / (1/ULDF-ELF_T/ELDF_T)$
- (5) $F_T = Tail Adjustment Factor: [CLDF_T -1] / [ULDF-1]$



Supplemental Loss Development and Trend Information Missouri January 1, 2022 Filing Introduction

Supplemental Loss Development and Trend Information provides the data underlying the frequency and severity trend graphs shown in the filing document. The data included (i.e., policy year or accident year, limited or unlimited, etc.) is consistent with the data used in the filing and can vary by state. All of the data shown is as of the latest valuation date, December 31, 2020.

The development and on-level factors shown in the Supplemental Loss Development and Trend Information exhibit can be found in the filing. The frequency and severity values provided have been adjusted to the current wage level.

Note: The information shown in the Supplemental Loss Development and Trend Information exhibit is provided for informational purposes only. NCCI makes no warranty that any of the loss development factors, on-level factors, wage adjustment factors or any other information provided is suitable for application to an individual carrier's data.

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Supplemental Loss Development and Trend Information Missouri January 1, 2022 Filing Definitions

Accident Year (AY)—A loss accounting definition in which experience is summarized by the calendar year in which an accident occurred.

Calendar Year (CY)

- 1. The 12-month period beginning January 1 and ending December 31.
- 2. Method of accounting for all financial transactions occurring during a specific year.

Case Reserves—Reserves that an insurance company establishes for specific (known) claims.

DSR Premium (commonly referred to as DSR Level Premium)—The standard earned premium that would result if business were written at a common benchmark level known as the designated statistical reporting level (e.g., NCCI state-approved loss costs or rates).

Frequency—The number of workplace injuries resulting in lost-time claims per million dollars of on-leveled, wage-adjusted premium.

Incurred Claim Count—The total of all claims reported, whether open or closed, as of a given valuation date. An indemnity claim is associated with a payment or case reserve for an indemnity loss (i.e., lost work time-related benefits) and excludes claims closed without an indemnity payment.

Limited Losses—Losses that result after the application of NCCI's large loss procedure (in which individual large claims are limited to state- and year-specific large loss thresholds).

On-Level Factor—Applied to historical policy and accident year premiums and losses to adjust the historical experience to reflect approved loss cost and rate level changes as well as statutory benefit level changes implemented since that time period.

Paid+Case Losses—The sum of paid losses and case reserves. Also known as case-incurred losses.

Paid Losses—Losses that an insurance company has paid as a result of claim activity.

Policy Year

- 1. The one-year period beginning with the effective date or anniversary of a policy.
- 2. A premium and loss accounting definition in which experience is summarized for all policies with effective dates in a given calendar year period.

Severity - The average indemnity or medical cost per lost-time claim.

Ultimate Development Factor—For an aggregation of data, an estimate of the development that will occur between the data's current valuation date and the time period when all claims are closed. For example, an ultimate loss development factor applied to Policy Year 2019 reported losses represents an estimate of the Policy Year 2019 ultimate losses.

Unlimited Losses—Losses that have not been adjusted to reflect NCCI's large loss procedure (see **Limited Losses**).

Valuation Date—The date that premiums and losses are valued for reporting purposes. Premiums and losses change over time from initial estimates to final values (other than calendar year statistics). Therefore, interim snapshots have associated valuation dates.

Wage Level Adjustment Factor—Ratio of the average workers' wage during the most recent policy or accident year period to the average workers' wage during a historical time period.

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Supplemental Loss Development and Trend Information Missouri January 1, 2022 Filing Limited-Statewide-Private Carrier + State Fund-Policy Year

Lost-Time Claim Frequency and Severity-Based on Data in Excess of Wage Inflation

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Claim Freq	Inde	mnity Severity		Med	ical Severity	
Policy	Per Million On-level		Paid +	Average		Paid +	Average
Year	Premium	Paid	Case	Pd/P+C	Paid	Case	Pd/P+C
2005	25.441	21,501	21,720	21,611	26,068	26,946	26,507
2006	24.075	21,156	21,293	21,224	26,927	26,953	26,940
2007	24.193	22,110	22,384	22,247	27,024	26,808	26,916
2008	22.445	22,894	23,298	23,096	29,589	30,333	29,961
2009	21.112	22,843	22,697	22,770	29,070	28,529	28,799
2010	22.308	23,081	22,837	22,959	31,276	30,964	31,120
2011	21.184	24,314	23,756	24,035	32,210	31,709	31,959
2012	20.434	23,779	23,030	23,404	31,556	30,976	31,266
2013	19.980	24,285	24,477	24,381	30,763	30,143	30,453
2014	19.424	24,240	24,250	24,245	31,273	30,350	30,811
2015	18.674	24,125	23,711	23,918	32,704	32,941	32,822
2016	17.794	24.613	24.611	24,612	32.754	32,053	32,403
2017	17.539	23,712	23,790	23,751	34,966	35,398	35,182
2018	17.515	23,945	25,494	24,720	34,867	34,344	34,606
2019	15.984	23,853	24,330	24,092	34,157	31,683	32,920

(9)	(10)	(11)										
Annua	Annual Percentage Change											
	Indemnity	Medical										
Claim	Severity	Severity										
Frequency	(Avg Pd/P+C)	(Avg Pd/P+C)										
-5.4%	-1.8%	1.6%										
0.5%	4.8%	-0.1%										
-7.2%	3.8%	11.3%										
-5.9%	-1.4%	-3.9%										
5.7%	0.8%	8.1%										
-5.0%	4.7%	2.7%										
-3.5%	-2.6%	-2.2%										
-2.2%	4.2%	-2.6%										
-2.8%	-0.6%	1.2%										
-3.9%	-1.3%	6.5%										
-4.7%	2.9%	-1.3%										
-1.4%	-3.5%	8.6%										
-0.1%	4.1%	-1.6%										
-8.7%	-2.5%	-4.9%										

Notes: (2) = (15) / [(22) / 1,000,000] (3) = (27) / (15) (4) = (31) / (15) (5) = (33) / (15)

(6) = (39) / (15) (7) = (43) / (15) (8) = (45) / (15)

(9) is based on (2) (10) is based on (5) (11) is based on (8)

Claim Counts

(12)	(13)	(14)	(15)
			Ultimate
	Incurred	Ultimate	Incurred Lost-
Policy	Lost-Time	Development	Time Claim
Year	Claim Count	Factor	Count
2005	12,197	1.000	12,197
2006	12,016	1.000	12,016
2007	12,680	1.000	12,680
2008	11,072	1.000	11,072
2009	10,044	1.000	10,044
2010	10,924	1.000	10,924
2011	10,319	1.000	10,319
2012	9,772	1.000	9,772
2013	9,625	1.000	9,625
2014	9,525	1.000	9,525
2015	9,483	1.000	9,483
2016	9,299	0.999	9,290
2017	9,399	0.998	9,380
2018	9,160	1.002	9,178
2019	7,789	1.043	8,124

Notes: (15) = (13) x (14)

Premium

(16)	(17)	(18)	(19)	(20)	(21)	(22)
					Factor to	
	DSR	Ultimate			Adjust to 2019	Wage-Adj
Policy	Level	Development	Ultimate	On-level	Wage	On-level
Year	Premium	Factor	Premium	Factor	Levels	Ult. Prem
2005	602,296,224	1.000	602,296,224	0.561	1.419	479,427,794
2006	636,604,338	1.000	636,604,338	0.573	1.369	499,097,801
2007	691,451,651	1.000	691,451,651	0.577	1.313	524,120,351
2008	601,590,499	1.000	601,590,499	0.638	1.285	493,304,209
2009	540,617,280	1.000	540,617,280	0.684	1.286	475,743,206
2010	558,362,870	1.000	558,362,870	0.694	1.263	489,684,237
2011	546,084,427	1.000	546,084,427	0.725	1.231	487,107,309
2012	522,067,363	1.000	522,067,363	0.761	1.204	478,213,705
2013	540,052,770	1.000	540,052,770	0.753	1.184	481,727,071
2014	628,685,938	1.000	628,685,938	0.678	1.150	490,375,032
2015	641,173,699	1.000	641,173,699	0.703	1.126	507,809,570
2016	653,418,441	1.000	653,418,441	0.723	1.105	522,081,334
2017	656,362,036	1.001	657,018,398	0.760	1.071	534,812,976
2018	632,226,321	1.001	632,858,547	0.799	1.036	524,006,877
2019	610,426,236	1.008	615,309,646	0.826	1.000	508,245,768

(19) = (17) x (18) (22) = (19) x [(20) x (21)]

Limited Indemnity Losses

(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
		Pa	id			Paid +	Case		Average	Pd/P+C	
		Ultimate		Wage-Adj		Ultimate		Wage-Adj		Wage-Adj	Loss
Policy		Development	Ultimate	On-level		Development	Ultimate	On-level	Ultimate	On-level	On-level
Year	Losses	Factor	Losses	Ult. Losses	Losses	Factor	Losses	Ult. Losses	Losses	Ult. Losses	Factor
2005	175,272,624	1.050	184,036,255	262,251,663	183,345,122	1.014	185,911,954	264,924,534	184,974,105	263,588,100	1.004
2006	174,731,209	1.055	184,341,425	254,206,825	182,797,942	1.015	185,539,911	255,859,537	184,940,668	255,033,181	1.007
2007	199,502,693	1.063	212,071,363	280,358,342	210,696,194	1.019	214,699,422	283,832,636	213,385,393	282,095,490	1.007
2008	183,250,397	1.069	195,894,674	253,487,708	194,671,655	1.024	199,343,775	257,950,845	197,619,225	255,719,277	1.007
2009	164,811,930	1.075	177,172,825	229,438,808	171,742,573	1.025	176,036,137	227,966,797	176,604,481	228,702,803	1.007
2010	182,860,647	1.084	198,220,941	252,137,037	191,342,968	1.025	196,126,542	249,472,961	197,173,742	250,805,000	1.007
2011	184,106,596	1.099	202,333,149	250,893,105	192,303,622	1.028	197,688,123	245,133,273	200,010,636	248,013,189	1.007
2012	171,945,395	1.115	191,719,115	232,363,567	179,926,706	1.032	185,684,361	225,049,446	188,701,738	228,706,506	1.007
2013	171,844,519	1.144	196,590,130	233,745,665	190,707,840	1.039	198,145,446	235,594,935	197,367,788	234,670,300	1.004
2014	170,870,752	1.175	200,773,134	230,889,104	191,834,160	1.047	200,850,366	230,977,921	200,811,750	230,933,513	1.000
2015	164,518,302	1.235	203,180,103	228,780,796	188,206,416	1.061	199,687,007	224,847,570	201,433,555	226,814,183	1.000
2016	155,116,819	1.334	206,925,837	228,653,050	189,654,027	1.091	206,912,543	228,638,360	206,919,190	228,645,705	1.000
2017	136,538,641	1.521	207,675,273	222,420,217	182,768,806	1.140	208,356,439	223,149,746	208,015,856	222,784,982	1.000
2018	109,234,703	1.942	212,133,793	219,770,610	185,280,244	1.219	225,856,617	233,987,455	218,995,205	226,879,032	1.000
2019	56,250,726	3.445	193,783,751	193,783,751	143,229,428	1.380	197,656,611	197,656,611	195,720,181	195,720,181	1.000

Notes: (26) = (24) x (25) (27) = (26) x [(34) x (21)] (30) = (28) x (29) (31) = (30) x [(34) x (21)] $(32) = [0.50 \times (26)] + [0.50 \times (30)]$ $(33) = (32) \times [(34) \times (21)]$

Limited Medical Losses

(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)
		Pai	d			Paid +	Case		Average	Pd/P+C	
		Ultimate		Wage-Adj		Ultimate		Wage-Adj		Wage-Adj	Loss
Policy		Development	Ultimate	On-level		Development	Ultimate	On-level	Ultimate	On-level	On-level
Year	Losses	Factor	Losses	Ult. Losses	Losses	Factor	Losses	Ult. Losses	Losses	Ult. Losses	Factor
2005	212,183,616	1.059	224,702,449	317,953,965	228,611,862	1.016	232,269,652	328,661,558	228,486,051	323,307,762	0.997
2006	222,130,869	1.064	236,347,245	323,559,378	232,390,118	1.018	236,573,140	323,868,629	236,460,193	323,714,004	1.000
2007	244,128,698	1.069	260,973,578	342,658,308	254,313,213	1.018	258,890,851	339,923,687	259,932,215	341,290,998	1.000
2008	238,049,872	1.071	254,951,413	327,612,566	255,981,829	1.021	261,357,447	335,844,319	258,154,430	331,728,443	1.000
2009	211,200,734	1.075	227,040,789	291,974,455	217,595,719	1.024	222,818,016	286,543,969	224,929,403	289,259,212	1.000
2010	250,938,649	1.078	270,511,864	341,656,484	262,823,956	1.019	267,817,611	338,253,643	269,164,738	339,955,064	1.000
2011	248,623,294	1.086	270,004,897	332,376,028	261,103,527	1.018	265,803,390	327,203,973	267,904,144	329,790,001	1.000
2012	233,684,224	1.096	256,117,910	308,365,964	246,966,451	1.018	251,411,847	302,699,864	253,764,879	305,532,914	1.000
2013	224,894,120	1.112	250,082,261	296,097,397	240,235,918	1.020	245,040,636	290,128,113	247,561,449	293,112,756	1.000
2014	231,063,706	1.121	259,022,414	297,875,776	246,447,029	1.020	251,375,970	289,082,366	255,199,192	293,479,071	1.000
2015	242,881,235	1.134	275,427,320	310,131,162	271,717,119	1.021	277,423,178	312,378,498	276,425,249	311,254,830	1.000
2016	238,002,558	1.157	275,368,960	304,282,701	263,934,846	1.021	269,477,478	297,772,613	272,423,219	301,027,657	1.000
2017	257,561,357	1.189	306,240,453	327,983,525	303,345,999	1.022	310,019,611	332,031,003	308,130,032	330,007,264	1.000
2018	245,537,446	1.258	308,886,107	320,006,007	300,354,867	1.013	304,259,480	315,212,821	306,572,794	317,609,415	1.000
2019	183,528,497	1.512	277,495,087	277,495,087	248,929,437	1.034	257,393,038	257,393,038	267,444,063	267,444,063	1.000

Notes: (38) = (36) x (37) (39) = (38) x [(46) x (21)] (42) = (40) x (41) (43) = (42) x [(46) x (21)] (44) = [0.50 x (38)] + [0.50 x (42)] (45) = (44) x [(46) x (21)]

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Class Code	Missouri 10- Year State Act Limited Losses	Missouri 10- Year Federal Act Limited Losses	Missouri 10- Year Expected Unlimited Losses
6824	-	-	-
6825	3,549,659	-	3,107,916
6826	-	-	-
6872	6,300	1,186,574	1,439,172
6874	-	-	-
7309	222,825	23,172	218,641
7313	-	-	-
7317	78,965	1,093,145	1,443,238
7327	-	-	-
7350	246	-	213
8709	-	374	470
8726	-	-	-
9077	-	-	-
Total	3,857,995	2,303,265	6,209,650

Countrywide Excess Ratios by Hazard Group

Hazard	Attachment	Fa	tal	P	T	Likely	PP/TT	Not Like	ly PP/TT	Med	Only	Weighted Average
Group	Point	Excess Ratio	Loss Weight	Excess Ratio								
Α	500,000	0.296	0.007	0.702	0.036	0.098	0.278	0.045	0.527	0.012	0.152	0.079
В	500,000	0.318	0.008	0.734	0.048	0.117	0.288	0.053	0.534	0.012	0.122	0.101
С	500,000	0.346	0.013	0.761	0.072	0.139	0.289	0.063	0.528	0.013	0.098	0.134
D	500,000	0.361	0.019	0.777	0.074	0.159	0.296	0.072	0.535	0.013	0.076	0.151
E	500,000	0.381	0.032	0.797	0.121	0.191	0.287	0.085	0.502	0.014	0.058	0.207
F	500,000	0.417	0.046	0.821	0.131	0.223	0.287	0.099	0.495	0.015	0.041	0.240
G	500,000	0.450	0.058	0.838	0.139	0.263	0.288	0.115	0.479	0.016	0.036	0.274

Countrywide Average Costs Per Case by Claim Group and Hazard Group

	Hazard Group									
Claim Group	Α	В	С	D	E	F	G			
Fatal	334,894	360,775	395,400	415,295	443,350	497,213	550,415			
PT	1,396,338	1,618,704	1,855,894	2,015,307	2,255,971	2,614,823	2,915,406			
Likely PP/TT	73,334	85,221	99,455	113,622	135,950	160,561	194,590			
Not Likely PP/TT	25,076	28,588	33,237	37,422	43,359	49,694	57,559			
Med-Only	1,329	1,428	1,546	1,516	1,721	1,845	2,049			

Countrywide Unlimited Parameter by Claim Group and Hazard Group

	Hazard Group									
Claim Group	Α	В	С	D	E	F	G			
Fatal	335,060	360,975	395,651	415,578	443,683	497,657	550,986			
PT	1,400,699	1,625,000	1,864,760	2,026,218	2,270,492	2,636,009	2,943,483			
Likely PP/TT	73,338	85,226	99,463	113,634	135,969	160,591	194,640			
Not Likely PP/TT	25,076	28,588	33,237	37,423	43,360	49,696	57,562			
Med-Only	1,329	1,428	1,546	1,516	1,721	1,845	2,049			

Countrywide Losses by Claim Group and Hazard Group

				Hazard Group			
Claim Group	Α	В	С	D	E	F	G
Fatal	45,949,131	116,791,381	366,730,531	342,068,202	632,869,000	1,133,153,961	815,572,312
PT	240,729,509	686,212,172	2,014,981,549	1,335,086,967	2,401,520,311	3,209,747,017	1,968,378,828
Likely PP/TT	1,884,236,883	4,125,483,540	8,054,876,601	5,328,285,876	5,723,904,733	7,035,634,708	4,081,126,246
Not Likely PP/TT	3,571,216,999	7,648,115,911	14,740,610,627	9,642,899,375	10,002,954,038	12,121,680,103	6,788,614,848
Med-Only	1,033,119,567	1,754,346,729	2,730,183,812	1,368,643,015	1,163,379,824	1,001,568,646	505,218,721
Total	6,775,252,089	14,330,949,732	27,907,383,120	18,016,983,436	19,924,627,906	24,501,784,435	14,158,910,954

Countrywide Loss Weights by Claim Group and Hazard Group

	Hazard Group								
Claim Group	Α	В	С	D	E	F	G		
Fatal	0.007	0.008	0.013	0.019	0.032	0.046	0.058		
PT	0.036	0.048	0.072	0.074	0.121	0.131	0.139		
Likely PP/TT	0.278	0.288	0.289	0.296	0.287	0.287	0.288		
Not Likely PP/TT	0.527	0.534	0.528	0.535	0.502	0.495	0.479		
Med-Only	0.152	0.122	0.098	0.076	0.058	0.041	0.036		

Determination of the indicated loss cost level change after excluding the assigned risk premium and loss experience reported to NCCI by Missouri's designated assigned risk plan administrator from the filing's experience period

PY 2019 Premium:					
	uiii.				
(1)	Standard Earned Premium Developed to Ultimate (Appendix A-II)	\$607,919,228	\$624,474,590		
(2)	Premium On-level Factor (Appendix A-I)	0.826	0.799		
(3)	Pure Premium Available for Benefit Costs = (1) x (2)	\$502,141,282	\$498,955,197		
Indem	nity Benefit Cost:				
(4)	Limited Indemnity Losses Developed to Ultimate (Appendix A-II)	\$192,544,719	\$213,773,462		
(5)	Indemnity Loss On-level Factor (Appendix A-I)	1.000	1.000		
(6)	Adjusted Limited Indemnity Losses = (4) x (5)	\$192,544,719	\$213,773,462		
(7)	Adjusted Limited Indemnity Cost Ratio excluding Trend and Benefits = (6) / (3)	0.383	0.428		
(8)	Factor to Reflect Indemnity Trend (Appendix A-III)	0.927	0.904		
(9)	Projected Limited Indemnity Cost Ratio = (7) x (8)	0.355	0.387		
(10)	Factor to Adjust Indemnity Cost Ratio to an Unlimited Basis (Appendix A-II)	1.011	1.011		
(11)	Projected Indemnity Cost Ratio = (9) x (10)	0.359	0.391		
(12)	Factor to Reflect Proposed Changes in Indemnity Benefits (Appendix C)	1.000	1.000		
(13)	Projected Indemnity Cost Ratio including Benefit Changes = (11) x (12)	0.359	0.391		
Medic	al Benefit Cost:				
(14)	Limited Medical Losses Developed to Ultimate (Appendix A-II)	\$262,745,868	\$295,213,713		
(15)	Medical Loss On-level Factor (Appendix A-I)	1.000	1.000		
(16)	Adjusted Limited Medical Losses = (14) x (15)	\$262,745,868	\$295,213,713		
(17)	Adjusted Limited Medical Cost Ratio excluding Trend and Benefits = (16) / (3)	0.523	0.592		
(18)	Factor to Reflect Medical Trend (Appendix A-III)	0.956	0.941		
(19)	Projected Limited Medical Cost Ratio = (17) x (18)	0.500	0.557		
(20)	Factor to Adjust Medical Cost Ratio to an Unlimited Basis (Appendix A-II)	1.011	1.011		
(21)	Projected Medical Cost Ratio = (19) x (20)	0.506	0.563		
(22)	Factor to Reflect Proposed Changes in Medical Benefits (Appendix C)	1.000	1.000		
(23)	Projected Medical Cost Ratio including Benefit Changes = (21) x (22)	0.506	0.563		
Total	Benefit Cost:				
(24)	Indicated Change Based on Experience, Trend, and Benefits = (13) + (23)	0.865	0.954		
(25)	Average Indicated Change Based on Experience, Trend, and Benefits = Average of (24)		0.910		
(26)	Effect of the Change in Loss-based Expenses (Exhibit II)		1.002		
(27)	Overall Average Voluntary Loss Cost Level Change		0.912		

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Missouri

Note: Class codes discontinued in the proposed filing are not included in this exhibit. An asterisk indicates non-standard exposure.

Class Code	Latest Policy Period Exposure	Current 01/01/2021 Loss Cost	Proposea 01/01/2022 Loss Cost	01/01/2022 Change	01/01/2021 Change	01/01/2020 Change
0005	190,469.66	2.90	2.54	-12.4%	2.1%	-4.7%
0008	69,821.90	2.39	2.13	-10.9%	-5.5%	-2.7%
0016	20,904.54	4.80	4.03	-16.0%	-7.5%	-9.7%
0034	492,747.10	2.62	2.49	-5.0%	8.7%	7.1%
0035	173,701.38	2.03	1.79	-11.8%	-1.9%	10.1%
0036	73,199.39	5.93	4.73	-20.2%	-10.3%	-10.6%
0037	571,498.89	2.99	2.85	-4.7%	-1.0%	-7.1%
0042 0050	744,630.38 173,355.28	5.69 4.55	5.33 4.33	-6.3% -4.8%	7.0% 1.6%	-0.4% 0.4%
	173,355.26					
0059 0065	-	0.12 0.04	0.11 0.04	-8.3% 0.0%	0.0% 0.0%	0.0% 0.0%
0066	-	0.04	0.04	0.0%	0.0%	0.0%
0067	-	0.04	0.04	0.0%	0.0%	0.0%
0007	- 21,864.05	3.42	2.97	-13.2%	-4.2%	-15.8%
0079	909,983.17	4.25	3.86	-13.2% -9.2%	-4.2% -2.1%	-13.6% -4.6%
0106	893,089.94	6.74	5.92	-9.2% -12.2%	-2.1% -5.3%	-4.0% 5.0%
0113	11,673.04	4.39	3.89	-12.2 %	-3.3%	-9.9%
0170	4,727.87	1.99	1.95	-2.0%	0.0%	-9.9 <i>%</i> -2.9%
0251	9,014.18	3.38	3.11	-8.0%	0.0%	-2.9 % -4.8%
0401	76,644.19	10.77	8.89	-17.5%	2.9%	1.6%
0771	70,044.19	0.44	0.43	-2.3%	0.0%	0.0%
0908	350.60 *	117.00	111.00	-5.1%	0.0%	-4.1%
0913	415.50 *	423.00	417.00	-1.4%	7.4%	3.4%
0917	220,769.37	3.31	3.24	-2.1%	-2.4%	- 7.6%
1005	11,809.99	5.70	5.29	-7.2%	9.4%	11.3%
1016	554.71	14.64	15.75	7.6%	16.9%	11.6%
1164	979,574.01	4.25	3.71	-12.7%	-3.2%	-4.4%
1165	7,820.78	3.00	2.47	-17.7%	-3.8%	-8.2%
1320	11,947.81	1.42	1.32	-7.0%	1.4%	-4.1%
1322	58.04	6.44	6.30	-2.2%	5.6%	-2.4%
1430	172,793.24	5.22	4.95	-5.2%	-3.3%	4.9%
1438	390,264.98	12.78	11.16	-12.7%	1.1%	8.4%
1452	16,743.37	2.96	2.72	-8.1%	5.3%	-4.7%
1463	160,650.58	8.77	7.81	-10.9%	-2.7%	-3.0%
1472	248,694.47	2.74	2.80	2.2%	2.2%	5.1%
1624	972,033.13	2.46	2.45	-0.4%	-15.2%	-12.9%
1642	337,375.74	2.60	2.61	0.4%	7.0%	-1.6%
1654	25,207.25	3.45	3.10	-10.1%	-0.6%	-8.0%
1699	211,532.54	2.50	2.21	-11.6%	-2.3%	-8.6%
1701	897,825.27	2.94	2.72	-7.5%	-4.5%	-0.6%
1710	27,964.16	3.28	3.28	0.0%	8.3%	-1.0%
1747	49,294.82	1.99	2.05	3.0%	2.1%	15.4%
1748	-	5.60	5.27	-5.9%	5.5%	-3.1%
1803	178,866.15	7.24	6.98	-3.6%	1.1%	1.1%
1924	123,910.16	3.32	2.72	-18.1%	-7.3%	-6.8%
1925	302,473.51	3.35	3.06	-8.7%	3.1%	0.6%
2002	211,927.56	3.08	3.02	-1.9%	5.8%	3.9%
2003	767,071.30	3.65	3.28	-10.1%	3.7%	-3.0%

2014	720,215.62	4.62	4.28	-7.4%	2.2%	0.4%
2016	283,276.42	2.84	2.55	-10.2%	-1.4%	-1.7%
2021	114,119.76	2.49	2.57	3.2%	20.9%	10.8%
2039	454,806.20	2.68	2.48	-7.5%	7.2%	0.4%
2041	43,277.85	2.54	2.36	-7.1%	2.8%	0.4%
2065	1,032.56	1.70	1.60	-5.9%	-2.9%	-7.4%
2070	958,478.31	3.86	3.53	-8.5%	-1.3%	-3.0%
2081	19,495.66	4.79	4.50	-6.1%	0.0%	-1.6%
2089	2,115,020.36	3.13	2.77	-11.5%	-1.3%	-4.8%
2095	1,985,603.35	3.42	3.18	-7.0%	5.9%	12.5%
2105	8,060.63	4.00	3.88	-3.0%	17.0%	5.9%
2110	299.36	1.76	1.70	-3.4%	-2.2%	-4.8%
2111	457,455.37	1.98	1.81	-8.6%	-3.9%	-4.2%
2112	2,292.95	3.57	3.35	-6.2%	0.0%	-1.9%
2114	2,232.33	2.92	2.51	-14.0%	-1.4%	-3.9%
2121	1,024,063.75	1.26	1.15	-8.7%	6.8%	-7.8%
2130	190,792.62	1.72	1.60	-7.0%	2.4%	-2.3%
2131	85,702.94	2.34	2.15	-8.1%	5.4%	0.5%
2143	136,066.39	2.31	2.17	-6.1%	6.5%	5.9%
2157	716,481.61	5.32	4.31	-19.0%	-10.9%	-4.5%
2172	199.55	1.48	1.37	-7.4%	0.7%	-3.9%
2174	28.20	2.93	2.70	-7.8%	6.2%	0.4%
2211	204.32	8.97	7.79	-13.2%	-4.2%	- 7.9%
2220	9,986.97	2.03	2.03	0.0%	5.7%	1.1%
2288	88,278.87	3.84	3.65	-4.9%	8.2%	-3.5%
2302	-	1.71	1.69	-1.2%	5.6%	-5.8%
2305	107,514.72	2.18	2.04	-6.4%	-3.5%	-7.4%
2361	2,171.36	1.74	1.60	-8.0%	-3.3%	-2.2%
2362	1,299.20	1.94	1.98	2.1%	12.1%	4.8%
2380	249.89	2.00	1.86	-7.0%	1.0%	-5.7%
2388	140,447.01	1.55	1.37	-11.6%	2.0%	1.3%
2402	1,452.57	2.54	2.34	-7.9%	3.3%	4.2%
2413	7,553.24	2.65	2.32	-12.5%	5.2%	2.9%
2416	-	1.94	1.98	2.1%	7.8%	-3.2%
2417	19,508.61	1.40	1.40	0.0%	4.5%	3.9%
2501	1,046,515.52	2.53	2.21	-12.6%	3.3%	4.3%
2503	23,977.39	1.21	1.12	-7.4%	-7.6%	-8.4%
2570	34,288.64	3.86	3.64	-5.7%	2.4%	-2.6%
2585	1,032,087.85	2.94	2.77	-5.8%	-4.5%	-1.9%
2586	61,529.24	2.78	2.68	-3.6%	11.2%	12.6%
2587	1,535.39	1.95	1.96	0.5%	12.7%	-0.6%
2589	191,798.24	1.96	1.89	-3.6%	4.3%	-1.6%
2600	-	4.08	4.02	-1.5%	9.7%	-2.1%
2623	29,999.30	5.79	5.05	-12.8%	-3.8%	-8.9%
2651	56,805.41	2.23	1.86	-16.6%	0.9%	3.8%
2660	326,625.74	2.83	2.53	-10.6%	4.8%	0.0%
2688	75,385.48	2.30	2.15	-6.5%	-5.0%	-10.7%
2701	2,540.72	10.42	9.34	-10.4%	-0.6%	3.6%
2702	14,412.70	15.80	14.82	-6.2%	-0.4%	-11.2%
2702	2,210.97	19.92	14.35	-28.0%	20.3%	-0.5%
2710				-28.0 % -8.7%	1.3%	
	92,704.08	12.62	11.52			-7.8%
2714	257.51 416.030.31	4.50	4.11 3.01	-8.7% 13.3%	-2.6% 5.7%	-2.5% 5.4%
2731	416,030.21	3.47	3.01	-13.3%	-5.7% 6.0%	5.4%
2735	33,214.43	3.69	3.54	-4.1%	6.0%	-6.5%
2759	299,454.21	5.91	5.23	-11.5%	-2.8%	-1.8%
2790	47,221.79	1.80	1.85	2.8%	10.4%	0.6%
2797	27,293.26	5.07	4.50	-11.2%	6.7%	9.2%
2799	33,215.92	4.69	4.37	-6.8%	-6.8%	-0.4%
2802	330,123.94	4.88	4.57	-6.4%	-0.8%	0.0%

2835 12,420,74 2,26 2,15 -4,9% 1,8% -10,1% 2841 31,943,92 3,94 3,83 -2,6% 11,0% 0,0% 2881 207,616,71 2,78 2,00 -6,5% -5,1% -6,1% 2883 1,417,902,45 2,74 2,48 -10,2% -3,2% -4,4% 28915 1,082,81 3,41 3,04 -10,9% -8,1% -7,9% 2916 1,082,81 3,41 3,04 -10,9% -8,1% -7,9% 2920 1,1865,56 1,77 1,52 -14,1% -4,3% -3,1% 2950 2,274,596 4,97 4,27 -14,1% -4,2% -8,3% 3004 9,144,41 1,71 1,39 -19,7% -3,4% -8,3% 3018 4,27 -14,1% -4,2% -8,3% 3027 14,116,67 2,28 2,03 -11,0% -6,9% -3,9% 3028 365,34,97 3,74 -							
2841 31,943 92 3.94 3.83 2.28% 11.0% 0.0% 2.88	2835	12,428.74	2.26	2.15	-4.9%	1.8%	-10.1%
2881 207,615.71 278 2.60 -6.5% -5.1% -6.1% 2883 1.417,903.45 2.74 2.46 -10.2% 3.28 4.4% 2915 1.082.81 3.41 3.04 -10.9% -8.1% -7.9% 2923 11.968.56 1.77 1.52 -14.1% 4.2% -3.1% 2960 22.745.96 4.97 4.27 -14.1% 4.2% -6.3% 3004 9.144.41 1.71 1.39 -18.7% 3.4% -6.3% 3018 44.270.46 3.87 3.02 -22.0% -11.4% -14.0% 3022 143.794.06 3.28 2.85 -13.1% -6.9% -3.9% 3027 14.116.67 2.28 2.03 -11.0% -6.9% -3.9% 3028 386,314.07 3.71 3.40 -8.4% 3.7% 1.6% 3030 1.001,744.83 4.8 4.28 -4.5% 3.7% 1.6% 3041 17.6	2836	5,584.89	2.48	2.42	-2.4%	14.8%	3.8%
2883 1,417,903,45 2,74 2,46 -10,2% 5,32 6,6% 2916 1,082,81 3,41 3,04 -10,9% 8,1% -7,9% 2923 11,186,856 1,77 1,52 -14,1% 4,3% -3,1% 2960 22,745,96 4,97 4,27 -14,1% 4,2% -3,3% 3004 9,144,41 1,71 1,39 -18,7% -3,4% -8,3% 3022 143,794,05 3,28 2,85 -13,1% 4,7% -2,28% 3027 14,116,67 2,28 2,03 -11,1% 4,7% -2,28% 3028 366,314,97 3,71 3,40 -8,4% 3,1% -5,0% 3030 1,007,744,83 4,48 4,22 -11,1% -1,7% -6,9% 3041 17,654,04 3,96 3,34 -15,7% -2,7% -8,3% 3042 138,71 4,79 4,28 -10,6% -0,3% -5,0% 3042 13	2841	31,943.92	3.94	3.83	-2.8%	11.0%	0.0%
2916 1.082.81 3.41 3.04 -10.9% -8.1% -7.9% 2923 11.988.58 1.77 1.52 -14.1% 4.2% -3.1% 2960 22.745.98 4.97 4.27 -14.1% 4.2% 6.33% 3004 9.144.44 1.71 1.39 -18.7% 3.4% -6.3% 3018 44.270.46 3.87 3.02 -22.0% -11.4% -14.0% 3018 44.270.40 3.87 3.02 -22.0% -11.4% -14.0% 3022 143.794.05 3.28 2.85 -11.1% -6.9% 3.9% 3027 14.16.67 2.28 2.03 -11.1% -6.9% 3.9% 3028 38.63.14.97 3.71 3.40 8.4% 4.5% 3.7% 1.6% 3029 3014 17.7854.04 3.96 3.34 -15.7% 1.6% 3.0% -1.1% -1.7% -8.8% 3.9% 5.1% 3.0% -1.5% 3.3% 4.2%	2881	207,615.71	2.78	2.60	-6.5%	-5.1%	-6.1%
2916 1,082.81 3.41 3.04 -10.9% -8.1% 7.9% 2923 11.986.56 1.77 1.52 -14.1% -4.2% -3.1% 2980 22.745.96 4.97 4.27 -14.1% -4.2% -6.3% 3004 9.144.41 1.71 1.39 -18.7% -3.4% -8.3% 3018 44.70.46 3.87 3.02 -2.20% -11.4% -4.40% 3022 14.116.67 2.28 2.03 -11.1% -9.8 -3.9% 3028 366.314.97 3.71 3.40 -8.4% 3.1% -5.0% 3030 1.001.748.33 4.48 4.28 -4.5% 3.7% 1.6% 3040 301,893.30 4.76 4.23 -11.1% -1.7% -6.6% 3041 17.654.04 3.96 3.34 -10.5% 0.9% 5.0% 3054 138.71 4.79 4.28 -10.6% 0.9% 5.0% 3062 4.813.108	2883	1,417,903.45	2.74	2.46	-10.2%	-3.2%	-4.4%
2923 11,986,56 1,77 1,52 1,41% 4,3% 3,1% 2990 22,745,96 4,97 4,27 1,41% 4,2% 6,3% 3004 9,144,41 1,71 1,39 -18,7% -3,4% -8,3% 3018 44,270,46 3,37 3,02 -22,0% -11,4% -14,0% 3027 14,116,67 2,28 2,03 -11,0% -6,9% -3,9% 3028 366,314,97 3,71 3,40 -8,4% 3,7% 1,6% 3030 1,01,744,83 4,48 4,28 -4,5% 3,7% 1,6% 3041 17,684,04 3,96 3,34 -15,7% -2,2% 8,3% 3041 17,684,04 3,96 3,34 -15,7% -2,2% 8,3% 3042 133,71 4,79 4,28 -10,6% -5,0% 3076 4,813,08,33 2,99 2,71 -9,4% -0,3% 4,9% 3081 94,100,52 4,27 <td>2915</td> <td>-</td> <td>3.32</td> <td>2.95</td> <td>-11.1%</td> <td>-0.9%</td> <td>6.0%</td>	2915	-	3.32	2.95	-11.1%	-0.9%	6.0%
2923 11,986,56 1,77 1,52 1,41% 4,3% 3,1% 2990 22,745,96 4,97 4,27 1,41% 4,2% 6,3% 3004 9,144,41 1,71 1,39 -18,7% -3,4% -8,3% 3018 44,270,46 3,37 3,02 -22,0% -11,4% -14,0% 3027 14,116,67 2,28 2,03 -11,0% -6,9% -3,9% 3028 366,314,97 3,71 3,40 -8,4% 3,7% 1,6% 3030 1,01,744,83 4,48 4,28 -4,5% 3,7% 1,6% 3041 17,684,04 3,96 3,34 -15,7% -2,2% 8,3% 3041 17,684,04 3,96 3,34 -15,7% -2,2% 8,3% 3042 133,71 4,79 4,28 -10,6% -5,0% 3076 4,813,08,33 2,99 2,71 -9,4% -0,3% 4,9% 3081 94,100,52 4,27 <td>2916</td> <td>1,082.81</td> <td>3.41</td> <td>3.04</td> <td></td> <td>-8.1%</td> <td>-7.9%</td>	2916	1,082.81	3.41	3.04		-8.1%	-7.9%
2990 22,745,96 4.97 4.27 1.41% 4.2% 6.33% 3018 44,270,46 3.87 3.02 -22,0% -11.4% -14.0% 3022 143,794,05 3.28 2.86 -13.1% 4.7% -2.8% 3027 14,116,67 2.28 2.03 -11.0% 4.9% 3.1% 5.0% 3028 366,314,97 3.71 3.40 -8.4% 3.1% 5.0% 3030 1.001,748,13 4.48 4.28 4.5% 3.7% 1.6% 3040 301,783,30 4.76 4.23 -11.1% -1.7% -6.6% 3041 17,654,04 3.98 3.34 -15.7% -2.7% 8.3% 3042 138,71 4.79 4.26 -10.6% 0.6% -5.0% 3064 136,188,12 3.45 3.35 -2.9% 3.9% 5.1% 3081 94,106,52 4.27 3.84 -10.1% 8.1% 2.6% 3082	2923			1.52		-4.3%	
3004 9,144.41 1.71 1.39 1-18.7% 3.4% 8.3% 3018 44,270.46 3.87 3.02 -22.0% -11.4% -14.0% 3022 143,794.05 3.28 2.85 -13.1% -4.7% -2.8% 3028 366,314.97 3.71 3.40 -8.4% 3.1% -5.0% 3030 1,001,744.83 4.48 4.28 -4.5% 3.7% 1.6% 3041 17,654.04 3.96 3.34 -15.7% -2.7% -8.3% 3042 133.71 4.79 4.28 -10.6% -6.6% -5.0% 3064 136,188.12 3.45 3.36 2.9% 3.9% 5.1% 3076 4,813,108.33 2.99 2.71 -9.4% -0.3% 4.9% 3081 94.106.52 4.27 3.84 10.1% 8.1% 0.3% 2.9% 3082 40.863.13 4.76 4.26 -10.5% 3.3% 0.2% 3085				4.27	-14.1%		
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3300 329,973.63 4.28 4.46 4.2% 8.9% 0.3% 3303 221,373.94 2.04 1.85 -9.3% 1.5% 1.5% 3307 77,692.43 2.92 2.48 -15.1% -10.7% -8.7% 3315 16,786.28 2.97 2.52 -15.2% -2.3% -5.6% 3334 111,012.52 1.79 1.64 -8.4% -0.6% -3.2% 3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.		354,737.84			-12.5%	0.4%	-1.2%
3303 221,373.94 2.04 1.85 -9.3% 1.5% 1.5% 3307 77,692.43 2.92 2.48 -15.1% -10.7% -8.7% 3315 16,786.28 2.97 2.52 -15.2% -2.3% -5.6% 3334 111,012.52 1.79 1.64 -8.4% -0.6% -3.2% 3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%		130,894.06		3.23	-10.8%	-0.8%	-0.5%
3307 77,692.43 2.92 2.48 -15.1% -10.7% -8.7% 3315 16,786.28 2.97 2.52 -15.2% -2.3% -5.6% 3334 111,012.52 1.79 1.64 -8.4% -0.6% -3.2% 3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3300	329,973.63	4.28	4.46	4.2%	8.9%	0.3%
3315 16,786.28 2.97 2.52 -15.2% -2.3% -5.6% 3334 111,012.52 1.79 1.64 -8.4% -0.6% -3.2% 3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3303	221,373.94	2.04	1.85	-9.3%	1.5%	1.5%
3334 111,012.52 1.79 1.64 -8.4% -0.6% -3.2% 3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3307	77,692.43	2.92	2.48	-15.1%	-10.7%	-8.7%
3336 88,819.18 2.72 2.34 -14.0% 3.4% -5.4% 3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3315	16,786.28	2.97	2.52	-15.2%	-2.3%	-5.6%
3365 227,039.08 3.28 3.19 -2.7% -0.9% -4.6% 3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3334	111,012.52	1.79	1.64	-8.4%	-0.6%	-3.2%
3372 230,447.52 2.99 2.66 -11.0% -4.5% -8.2% 3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3336	88,819.18	2.72	2.34	-14.0%	3.4%	-5.4%
3373 79,141.85 4.37 4.35 -0.5% -1.8% -3.7% 3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3365	227,039.08	3.28	3.19	-2.7%	-0.9%	-4.6%
3383 55,904.03 1.55 1.37 -11.6% 2.6% 2.0% 3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3372	230,447.52	2.99	2.66	-11.0%	-4.5%	-8.2%
3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3373	79,141.85	4.37	4.35	-0.5%	-1.8%	-3.7%
3385 4,104.61 0.88 0.86 -2.3% 7.3% 1.2% 3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%	3383	55,904.03	1.55	1.37	-11.6%	2.6%	2.0%
3400 1,011,957.75 4.31 3.98 -7.7% 2.6% 2.7%		4,104.61					
					-9.7%	0.8%	

3515	5,170.61	2.57	2.33	-9.3%	-0.8%	-2.3%
3548	113,525.96	1.48	1.40	-5.4%	3.5%	-0.7%
3559	60,561.66	2.35	2.12	-9.8%	-0.4%	1.7%
3574	612,652.71	2.08	2.18	4.8%	20.9%	-17.7%
3581	102,562.55	1.27	1.13	-11.0%	4.1%	5.2%
3612	795,332.58	1.96	1.84	-6.1%	-0.5%	-2.0%
3620	574,980.39	3.64	3.28	-9.9%	-1.4%	0.3%
3629	957,160.95	1.48	1.39	-6.1%	-2.0%	-6.8%
3632	4,045,673.33	2.81	2.57	-8.5%	0.4%	-2.1%
3634	457,778.83	1.50	1.40	-6.7%	-2.6%	-6.7%
3635	86,984.37	2.08	1.79	-13.9%	-1.0%	-1.4%
3638	139,419.05	2.18	2.15	-1.4%	16.0%	5.0%
3642	15.32	1.12	1.11	-0.9%	-7.4%	-5.5%
3643	1,849,506.52	2.68	2.75	2.6%	11.2%	10.6%
3647	1,521,268.62	2.76	2.62	- 5.1%	10.8%	0.0%
3648	87,308.18	1.55	1.39	-10.3%	6.2%	2.1%
3681	3,769,972.00	0.72	0.62	-13.9%	-1.4%	-5.2%
3685	1,443,652.84	1.09	0.96	-11.9%	-6.0%	-3.2% -4.9%
3719	34,556.89	0.95	0.76	-20.0%	-8.7%	-11.1%
3724	2,898,424.99	3.19	3.13	-1.9%	-0.3%	-2.1%
3726	214,052.81	3.25	3.17	-2.5%	2.2%	-4.2%
3803	197,045.19	2.28	2.18	-4.4%	14.0%	15.6%
3807	249,963.09	2.28	2.05	-10.1%	12.9%	1.0%
3808	236,322.90	3.59	3.39	-5.6%	2.6%	-1.4%
3821	261,544.62	4.57	4.16	-9.0%	2.5%	-4.5%
3822	19,001.09	3.45	3.24	-6.1%	-1.4%	-3.3%
3824	938,409.61	3.91	3.11	-20.5%	-3.2%	-12.0%
3826	117,817.66	1.07	0.91	-15.0%	7.0%	-2.0%
3827	408.64	2.39	2.10	-12.1%	1.7%	-2.5%
3830	10,225,548.80	0.70	0.67	-4.3%	0.0%	-1.4%
3851	38,151.14	2.38	2.04	-14.3%	-11.5%	-20.9%
3865	43,124.71	2.47	2.71	9.7%	20.5%	10.8%
3881	303,922.64	3.57	3.24	-9.2%	-3.3%	-2.1%
4000	141,983.16	3.99	3.50	-12.3%	-11.3%	-8.0%
4018	148,705.00	5.34	5.11	-4.3%	7.9%	1.6%
4021	3,531.16	5.40	4.62	-14.4%	-12.8%	-4.2%
4034	410,480.59	6.28	5.87	-6.5%	-0.8%	-6.5%
4036	43,949.34	2.25	2.22	-1.3%	-6.3%	-8.4%
4038	9,457.60	3.71	3.29	-11.3%	-3.1%	-10.1%
4062	21,940.31	2.67	2.39	-10.5%	1.5%	4.4%
4101	93,955.56	2.21	1.95	-11.8%	-0.5%	-5.5%
4109	103,950.51	0.57	0.52	-8.8%	3.6%	-1.8%
4110	40,502.34	1.16	1.02	-12.1%	-4.1%	-5.5%
4111	1,319.29	1.79	1.66	-7.3%	3.5%	-1.1%
4114	327,416.02	3.11	2.73	-12.2%	0.0%	-5.5%
4130	161,935.24	3.03	2.78	-8.3%	-1.9%	-2.5%
4131	-	4.58	4.13	-9.8%	0.7%	14.3%
4133	5,775.31	1.96	1.93	-1.5%	8.9%	-2.7%
4149	181,645.07	0.77	0.71	-7.8%	-6.1%	-4.7%
4206	19,607.70	2.49	2.49	0.0%	6.4%	-0.4%
4207	, -	1.92	1.97	2.6%	6.7%	-0.6%
4239	87,833.11	2.01	1.85	-8.0%	5.8%	6.1%
4240	71,582.01	3.37	2.90	-13.9%	-3.2%	-0.3%
4243	551,308.86	2.21	1.95	-11.8%	7.3%	0.0%
4244	1,146,573.36	2.48	2.39	-3.6%	6.9%	-1.7%
4250	81,285.11	1.72	1.69	-1.7%	2.4%	0.0%
4251	143,876.52	3.41	3.41	0.0%	4.0%	-2.4%
4263	33,593.64	3.36	3.26	-3.0%	1.2%	-2.4 <i>%</i>
4273	614,508.70	2.34	2.12	-9.4%	3.1%	-2.2%
7210	017,000.70	۷.07	۷.۱۲	-J. -7 /U	J. 1 /0	- ∠.∠ /0

4279	424,744.71	2.33	2.33	0.0%	4.0%	3.7%
4283	196,171.77	1.28	1.20	-6.3%	-7.2%	-2.8%
4299	2,390,245.06	1.96	1.90	-3.1%	-5.3%	-2.8%
4304	192,951.67	5.07	4.40	-13.2%	-11.5%	-11.2%
4307	82,962.40	1.79	1.74	-2.8%	6.5%	-1.2%
4351	26,140.69	0.89	0.92	3.4%	7.2%	6.4%
4352	35,653.60	1.66	1.49	-10.2%	0.6%	1.9%
4361	655,099.67	0.67	0.61	-9.0%	-5.6%	-6.6%
4410	1,286,782.96	3.06	2.85	-6.9%	6.3%	-2.4%
4420	4,970.77	3.89	3.50	-10.0%	-0.8%	-4.2%
4431	11,027.33	1.26	1.17	-7.1%	0.0%	-0.8%
4432	-	1.20	1.10	-8.3%	-0.8%	-5.5%
4452	644,346.68	2.47	2.27	-8.1%	-4.6%	-5.1%
4459	1,140,267.79	2.39	2.14	-10.5%	-0.4%	4.8%
4470	100,135.06	2.15	2.04	-5.1%	-0.9%	3.3%
4484	4,926,479.73	2.65	2.41	-9.1%	7.3%	5.1%
4493	9,907.90	3.66	2.87	-21.6%	-17.6%	-21.0%
4511	3,726,073.93	0.40	0.36	-10.0%	-2.4%	5.1%
4557	247,704.48	2.23	2.22	-0.4%	11.5%	-4.3%
4558	470,601.14	1.72	1.55	-9.9%	0.6%	-4.5%
4568	10,004.92	3.30	2.84	-13.9%	-11.1%	-15.9%
4581	20,473.73	1.91	1.56	-18.3%	20.9%	18.8%
4583	320,212.37	4.43	4.22	-4.7%	8.6%	3.3%
4611	3,488,815.15	1.07	1.02	-4.7%	9.2%	-1.0%
4635	282,451.83	2.77	2.39	-13.7%	-5.8%	-2.3%
4653	4,772.31	1.41	1.45	2.8%	9.3%	0.8%
4665	3,549.25	9.02	6.89	-23.6%	0.1%	3.2%
4683	62,892.74	3.60	3.31	-8.1%	0.6%	-4.0%
4686	139,567.96	2.16	1.89	-12.5%	-10.4%	-7.7%
4692	319,863.88	0.86	0.78	-9.3%	4.9%	1.2%
4693	196,966.30	0.92	0.92	0.0%	12.2%	9.3%
4703	211,337.66	1.87	1.76	-5.9%	-2.1%	-2.6%
4717	83,832.65	2.11	1.92	-9.0%	2.9%	3.0%
4720	1,000,273.41	2.05	1.99	-2.9%	6.2%	8.4%
4740	64,459.95	1.01	0.96	-5.0%	3.1%	10.1%
4741	85,021.67	2.31	2.17	-6.1%	4.1%	3.7%
4751	-	2.05	2.12	3.4%	17.1%	2.9%
4771	1,368,888.82	2.52	2.46	-2.4%	0.0%	0.4%
4777	65,144.37	3.86	3.26	-15.5%	-0.8%	-4.0%
4825	2,277,590.17	0.72	0.67	-6.9%	0.0%	0.0%
4828	1,799,815.09	1.94	1.79	-7.7%	6.6%	-7.1%
4829	1,958,318.75	1.11	0.97	-12.6%	3.7%	0.9%
4902	202,581.93	2.34	2.15	-8.1%	-2.1%	-8.1%
4923	31,787.38	0.99	0.93	-6.1%	2.1%	4.3%
5020	89,875.22	4.07	3.54	-13.0%	-3.8%	-6.2%
5022	1,305,556.46	5.66	5.65	-0.2%	3.7%	0.0%
5037	16,583.42	9.86	8.07	-18.2%	-5.7%	-6.6%
5040	131,422.51	9.71	8.20	-15.6%	-12.0%	-7.6%
5057	437,743.57	4.34	4.27	-1.6%	18.6%	-0.8%
5059 5102	86,942.73 463 515 21	23.46 4.96	18.39	-21.6% -5.6%	-3.5% -4.6%	-5.7% -5.3%
5102 5146	463,515.21 307,377,14		4.68	-5.6% 11.0%	-4.6% 1.8%	-5.3% 3.0%
5146 5160	397,377.14 465.012.74	4.46	3.97	-11.0% 16.3%	1.8%	-3.9% 6.5%
5160 5183	465,012.74	1.96	1.64	-16.3%	-3.0%	-6.5%
5183	4,768,112.04	2.59	2.46	-5.0%	-2.3%	-3.6%
5188	591,428.99	2.58	2.32	-10.1%	-2.3%	5.6%
5190	5,741,444.70	2.49	2.21	-11.2%	-0.4%	0.0%
5191	3,490,699.79	0.69	0.70	1.4%	4.5%	1.5%
5192	593,137.37	2.55	2.48	-2.7%	16.4%	2.8%
5213	1,481,553.19	4.86	4.65	-4.3%	-9.8%	-11.1%

5215	548,591.47	4.86	4.47	-8.0%	-0.2%	-0.4%
5221	2,861,068.25	4.15	3.79	-8.7%	5.3%	4.0%
5222	220,956.41	6.70	6.23	-7.0%	-0.6%	-1.6%
5223	150,264.05	4.97	4.08	-17.9%	-5.7%	-8.8%
5348	625,803.77	3.50	3.12	-10.9%	-6.2%	-3.9%
5402	6,511.54	4.26	4.45	4.5%	14.5%	12.4%
5403	3,140,322.25	4.92	4.49	-8.7%	-1.2%	-2.7%
5437	1,381,070.78	4.45	4.01	-9.9%	10.1%	3.3%
5443	3,019.60	2.82	2.52	-10.6%	0.7%	6.9%
5445	1,959,481.88	3.97	3.43	-13.6%	-9.4%	-0.9%
5462	372,880.78	4.67	3.88	-16.9%	-6.4%	-7.1%
5472	71,465.79	4.36	4.75	8.9%	-4.2%	-10.6%
5473	84,887.14	6.85	6.35	-7.3%	0.6%	-4.5%
5474	1,992,460.22	4.75	4.51	-5.1%	0.4%	-6.5%
5478	677,383.94	4.41	3.80	-13.8%	-12.7%	-9.3%
5479	174,078.84	6.14	5.81	-5.4%	0.0%	-4.7%
5480	45,509.89	4.91	4.58	-6.7%	-3.3%	-1.7%
5491	26,148.51	1.49	1.46	-2.0%	-3.2%	2.7%
5506	1,930,244.17	4.62	4.29	-7.1%	-1.3%	2.6%
5507	211,199.58	3.28	3.14	-4.3%	2.5%	-0.3%
5535	1,060,439.51	5.52	4.99	-9.6%	3.0%	-1.3%
5537	3,929,936.49	3.66	3.19	-12.8%	-4.4%	8.5%
5551	905,525.52	14.25	11.90	-16.5%	4.2%	-0.6%
5606	5,999,045.84	1.12	1.06	-5.4%	1.8%	-4.3%
5610	93,797.88	3.68	3.63	-1.4%	-13.4%	-10.1%
5645	2,270,483.06	8.95	8.40	-6.1%	- 2.6%	3.0%
5703	847.25	11.90	12.83	7.8%	18.8%	5.8%
5705 5054	665.98	19.95	17.45	-12.5%	-10.9%	-7.6%
5951 6003	147,965.96	0.39 4.58	0.40 4.55	2.6% -0.7%	11.4% 7.5%	2.9% 2.2%
6005	27,199.78 1,200.73	4.32	3.91	-0.7 % -9.5%	-5.1%	-6.4%
6045	19,854.46	3.52	3.44	-2.3%	-3.1% 12.8%	-0.4 <i>%</i> 5.4%
6204	146,914.78	7.30	6.07	-16.8%	-13.4%	-10.8%
6206	12.14	2.28	2.05	-10.1%	8.6%	0.5%
6213	10,200.30	1.11	1.23	10.8%	-3.5%	-10.2%
6214	-	1.52	1.36	-10.5%	-3.8%	-6.0%
6216	15,922.65	4.01	3.77	-6.0%	1.3%	-5.7%
6217	2,572,314.50	3.15	2.73	-13.3%	-7.4%	-11.5%
6229	108,061.69	4.14	4.13	-0.2%	5.9%	-3.0%
6233	268,206.18	2.07	2.03	-1.9%	9.5%	5.6%
6235	5,598.57	5.18	4.74	-8.5%	-2.8%	-2.9%
6236	-	5.14	4.57	-11.1%	-1.5%	-4.6%
6237	4,645.58	1.16	1.06	-8.6%	-2.5%	-5.6%
6251	130,151.89	2.90	2.73	-5.9%	-5.2%	-10.5%
6252	18,926.80	2.79	2.91	4.3%	-5.4%	-4.2%
6306	538,728.82	4.53	4.20	-7.3%	-7.9%	-9.2%
6319	668,382.41	3.30	3.10	-6.1%	-3.5%	-5.8%
6325	709,703.88	2.80	2.65	-5.4%	-1.1%	-7.5%
6400	217,867.27	4.94	4.65	-5.9%	-2.4%	12.7%
6503	44,542.92	2.00	1.92	-4.0%	2.0%	-1.0%
6504	4,443,473.89	2.25	2.04	-9.3%	-1.7%	-0.9%
6702	-	3.54	3.17	-10.5%	2.6%	0.3%
6703	-	6.48	5.77	-11.0%	15.7%	17.9%
6704	-	3.93	3.52	-10.4%	2.6%	0.3%
6824	-	6.64	5.33	-19.7%	-8.7%	-8.3%
6825	155,417.91	2.58	2.07	-19.8%	-5.8%	-7.1%
6826	0.02	3.93	3.15	-19.8%	-6.7%	-3.0%
6834	975,909.11	2.62	2.18	-16.8%	-15.2%	-9.1%
6835	-	2.62	2.41	-8.0%	1.2%	-2.3%

6836	163,191.16	3.09	2.80	-9.4%	2.3%	-5.3%
6872	844.61	9.12	7.30	-20.0%	-9.9%	-4.4%
6874	-	14.63	11.71	-20.0%	-3.6%	-1.2%
6882	1,475.14	3.16	2.81	-11.1%	-4.8%	-7.8%
6884	-	5.03	4.51	-10.3%	-2.5%	-4.6%
7016	-	2.64	2.45	-7.2%	12.8%	17.6%
7024	2,655.74	2.93	2.72	-7.2%	12.7%	17.6%
7038	-	4.80	4.34	-9.6%	-5.9%	-4.9%
7046	-	9.49	8.75	-7.8%	1.0%	-2.0%
7047	-	4.83	4.46	-7.7%	49.1%	17.8%
7050	-	8.79	7.90	-10.1%	0.7%	18.0%
7090	976.14	5.33	4.82	-9.6%	-6.0%	-4.7%
7098	10.00	10.54	9.72	-7.8%	1.0%	-2.1%
7099	-	17.38	15.92	-8.4%	11.2%	18.0%
7133	25,616.84	2.57	2.56	-0.4%	13.7%	1.8%
7151	-	3.12	3.11	-0.3%	13.5%	1.9%
7152	-	5.72	5.66	-1.0%	30.0%	18.0%
7153	-	3.47	3.46	-0.3%	13.8%	1.7%
7219	13,459,655.40	6.38	5.70	-10.7%	-0.8%	-1.7%
7222	1,309.96	5.80	5.68	-2.1%	3.0%	0.5%
7225	291,899.54	7.28	7.68	5.5%	20.9%	-2.1%
7230	623,474.28	6.30	6.00	-4.8%	4.8%	-3.1%
7231	635,884.22	6.99	6.50	-7.0%	1.2%	-7.4%
7232	271,097.65	7.53	6.87	-8.8%	9.8%	3.0%
7309	14,169.93	9.20	7.36	-20.0%	-10.3%	-6.3%
7313	36.81	3.25	2.60	-20.0%	-3.8%	3.0%
7317	10,199.73	7.99	6.40	-19.9%	-0.4%	-4.3%
7327	-	18.71	14.97	-20.0%	-1.7%	0.0%
7333	-	1.97	2.03	3.0%	6.5%	-4.6%
7335	36.10	2.19	2.26	3.2%	6.8%	-4.7%
7337	-	3.61	3.70	2.5%	14.6%	18.0%
7350	9,220.48	9.46	7.57	-20.0%	-9.7%	-8.3%
7360	251,108.00	3.73	3.34	-10.5%	1.9%	-1.9%
7370	167,130.55	4.02	3.62	-10.0%	-2.4%	-8.4%
7380	5,558,803.57	4.45	4.64	4.3%	4.5%	-0.2%
7382	1,232,614.19	4.14	4.08	-1.4%	1.7%	-5.8%
7390	357,100.55	4.54	4.21	-7.3%	-6.2%	-6.7%
7394	-	3.73	3.56	-4.6%	5.7%	5.1%
7395	1,406.70	4.14	3.95	-4.6%	5.6%	5.1%
7398	-	6.83	6.47	-5.3%	24.9%	17.9%
7402	9,076.49	0.10	0.09	-10.0%	0.0%	-9.1%
7403	2,215,593.34	4.26	3.56	-16.4%	9.8%	-1.3%
7405	574,861.21	1.22	1.08	-11.5%	2.5%	-5.6%
7420	10,184.07	6.50	5.41	-16.8%	-5.2%	-4.5%
7421	353,210.12	0.58	0.56	-3.4%	5.5%	7.8%
7422	101,430.60	1.52	1.23	-19.1%	-12.1%	-18.4%
7425	308,012.85	1.82	1.49	-18.1%	-9.9%	-19.5%
7431	252,253.85	1.04	0.89	-14.4%	5.1%	5.3%
7445	-	0.66	0.58	-12.1%	3.1%	-5.9%
7453	-	0.56	0.48	-14.3%	5.7%	3.9%
7502	146,945.06	2.07	1.50	-27.5%	-16.2%	-19.3%
7515	376,160.25	0.95	0.86	-9.5%	-4.0%	-3.9%
7520	1,002,872.40	2.55	2.42	-5.1%	-8.3%	-7.9%
7538	1,021,857.57	5.10	4.08	-20.0%	-0.6%	-6.9%
7539	797,507.79	1.62	1.53	-5.6%	-4.1%	-17.6%
7540	-	2.51	2.31	-8.0%	-1.6%	-6.3%
7580	345,478.65	2.50	2.17	-13.2%	12.1%	2.8%
7590	130,648.75	2.62	2.47	-5.7%	1.2%	-4.1%
7600	3,255,419.54	3.14	3.07	-2.2%	3.3%	-2.3%

7605	1,018,954.48	1.66	1.54	-7.2%	0.0%	-2.4%
7610	2,768,100.70	0.41	0.39	-4.9%	5.1%	5.4%
7705	1,291,604.31	3.79	3.29	-13.2%	0.8%	-1.8%
7710	1,319,834.76	4.12	4.03	-2.2%	1.0%	0.5%
7711	147,943.44	4.12	4.03	-2.2%	1.0%	0.5%
7720	3,541,570.73	2.71	2.50	-7.7%	7.1%	2.4%
7855	284,316.98	3.17	2.84	-10.4%	2.3%	0.3%
8001	402,683.69	1.95	1.74	-10.8%	3.7%	8.0%
8002	715,536.96	1.78	1.71	-3.9%	9.9%	2.5%
8006	2,861,573.28	1.60	1.53	-4.4%	1.3%	-1.9%
8008	3,566,572.68	0.91	0.85	-6.6%	3.4%	2.3%
8010	2,726,836.37	1.60	1.60	0.0%	4.6%	-1.9%
8013	1,318,783.36	0.34	0.32	-5.9%	6.3%	0.0%
8015	413,865.00	0.68	0.59	-13.2%	-6.8%	-6.4%
8017	9,162,879.58	1.28	1.15	-10.2%	-2.3%	-5.1%
8018	5,946,719.76	2.31	2.25	-2.6%	5.5%	3.3%
8021	394,848.11	2.69	2.28	-15.2%	0.7%	-5.7%
8031	183,634.39	2.01	1.89	-6.0%	1.5%	-2.5%
8032	321,701.28	1.75	1.66	-5.1%	2.9%	-2.3%
8033	5,377,405.78	1.55	1.41	-9.0%	2.6%	- 0.7%
8034	192,290.99	2.01	1.85	-8.0%	4.7%	-8.1%
8037	9,590,520.50	1.72	1.58	-8.1%	6.8%	-8.0%
8039	1,345,123.51	1.19	1.20	0.8%	7.2%	3.7%
8044	1,760,679.20	2.20	1.88	-14.5%	-2.7%	-1.7%
8045	4,386,759.14	0.52	0.47	-9.6%	-3.7%	8.0%
8046	2,481,464.58	2.09	2.04	-2.4%	1.5%	-3.3%
8047	404,982.80	0.77	0.68	-11.7%	-8.3%	-13.4%
8058	2,131,442.74	2.49	2.33	-6.4%	6.9%	4.5%
8061	1,931,101.96	1.55	1.45	-6.5%	-3.7%	-3.0%
8072	248,978.58	0.51	0.43	-15.7%	0.0%	-1.9%
8102	229,081.29	2.01	1.75	-12.9%	4.7%	-5.4%
8103	25,371.30	2.24	2.41	7.6%	16.7%	-0.5%
8106	529,639.61	4.56	4.32	-5.3%	9.4%	7.8%
8107	2,091,839.28	2.32	2.14	-7.8%	-1.3%	-3.7%
8111	656,942.29	1.52	1.50	-1.3%	-1.3%	-1.9%
8116	857,252.70	1.99	2.00	0.5%	1.0%	-0.5%
8203	80,394.04	5.86	5.57	-4.9%	-1.0%	0.5%
8203 8204			3.01			
	43,394.83 580.15	3.36		-10.4%	0.0%	5.0% -3.3%
8209		3.56	3.24	-9.0%	-0.3%	
8215	1,091,238.04	3.71	3.28	-11.6%	6.0%	-1.7%
8227	1,295,460.58	2.90	2.81	-3.1%	1.8%	-2.7%
8232	3,016,850.61	5.00	4.72	-5.6%	0.0%	2.0%
8233	27,991.78	1.96	1.76	-10.2%	-0.5%	-3.9%
8235	130,255.74	3.58	3.22	-10.1%	1.1%	0.0%
8263	62,580.70	4.58	4.53	-1.1%	5.8%	-5.5%
8264	226,395.00	4.43	3.99	-9.9%	-2.0%	-2.4%
8265	334,038.79	4.13	3.73	-9.7%	0.0%	-11.8%
8279	48,938.08	5.10	4.92	-3.5%	1.8%	-3.8%
8288	141,937.79	6.96	6.16	-11.5%	1.0%	-0.7%
8291	264,787.15	2.99	2.80	-6.4%	3.5%	-4.0%
8292	1,668,512.50	3.52	3.23	-8.2%	2.9%	3.0%
8293	844,988.02	7.09	6.01	-15.2%	-1.3%	-7.4%
8304	273,759.77	4.26	4.16	-2.3%	5.7%	12.9%
8350	833,278.26	5.23	4.65	-11.1%	-1.7%	-0.7%
8353	291,699.05	3.44	3.24	-5.8%	7.2%	-3.0%
8370	561,480.12	3.52	3.46	-1.7%	2.0%	0.6%
8381	78,682.55	2.06	1.88	-8.7%	-1.9%	-9.1%
8385	561,682.75	1.86	1.82	-2.2%	10.7%	-1.8%
8387	2,153,324.48	2.48	2.16	-12.9%	-2.7%	-8.6%
0001	2,100,024.40	2.70	2.10	- 12.0 /0	-2.1 /0	-0.070

8391	8,665,575.96	2.01	1.87	-7.0%	3.6%	-1.5%
8392	351,867.82	2.10	1.82	-13.3%	-0.9%	-2.3%
8393	2,050,468.32	1.30	1.30	0.0%	4.8%	1.6%
8500	85,899.28	4.61	4.30	-6.7%	0.2%	-4.8%
8601	11,462,918.69	0.22	0.22	0.0%	0.0%	-4.3%
8602	236,448.62	1.11	1.00	-9.9%	15.6%	17.1%
8603	5,108,244.94	0.07	0.06	-14.3%	16.7%	0.0%
8606	2,283.91	1.68	1.46	-13.1%	-0.6%	-5.1%
8709	735.71	4.12	3.30	-19.9%	-5.3%	-0.2%
8719	514.47	1.73	1.60	-7.5%	-1.7%	-7.9%
8720	1,180,545.53	1.02	0.97	-4.9%	-1.9%	-12.6%
8721	288,679.45	0.26	0.25	-3.8%	4.0%	0.0%
8723	21,964,731.56	0.14	0.11	-21.4%	0.0%	0.0%
8725	10,953.34	2.05	1.70	-17.1%	3.0%	6.4%
8726	3,814.15	1.82	1.46	-19.8%	2.2%	-5.3%
8728	359,941.28	0.41	0.42	2.4%	10.8%	8.8%
8734	-	0.34	0.32	-5.9%	6.3%	-5.9%
8737	- -	0.30	0.29	-3.3%	3.4%	-3.3%
8738	_	0.56	0.53	-5.4%	14.3%	16.7%
8742	66,743,873.47	0.25	0.24	-4.0%	4.2%	-4.0%
8745	18,402.12	3.19	2.90	-9.1%	-8.6%	-4.0 % -15.7%
8748	3,521,050.98	0.51	0.48	-5.1% -5.9%	4.1%	-13.7 % -5.8%
8755	622,807.92	0.30	0.28	-6.7%	-3.2%	-16.2%
8799	245,064.38	0.36	0.36	0.0%	2.9%	-14.6%
8800	362,815.25	1.21	1.08	-10.7%	-1.6%	-5.4%
8803	18,025,378.55	0.05	0.05	0.0%	-16.7%	0.0%
8805	-	0.15	0.15	0.0%	0.0%	-6.3%
8810	276,621,757.72	0.11	0.11	0.0%	0.0%	-8.3%
8814	-	0.13	0.13	0.0%	0.0%	-13.3%
8815	-	0.24	0.24	0.0%	4.3%	15.0%
8820	13,407,433.04	0.11	0.10	-9.1%	-15.4%	-7.1%
8824	1,735,386.52	1.91	1.67	-12.6%	1.6%	-19.0%
8826	1,490,127.88	1.87	1.76	-5.9%	7.5%	7.4%
8831	2,924,685.23	1.14	0.99	-13.2%	0.0%	-0.9%
8832	40,842,115.42	0.23	0.20	-13.0%	0.0%	-8.0%
8833	20,122,505.19	1.07	0.96	-10.3%	2.9%	4.0%
8835	6,557,119.85	1.74	1.67	-4.0%	-1.1%	-7.4%
8855	30,518,357.36	0.14	0.13	-7.1%	0.0%	-6.7%
8856	388,359.53	0.36	0.40	11.1%	20.0%	15.4%
8861	6,551,199.32	1.25	1.09	-12.8%	9.6%	-1.7%
8868	37,687,117.78	0.39	0.36	-7.7%	2.6%	2.7%
8869	3,677,992.24	0.89	0.83	-6.7%	0.0%	0.0%
8871	4,499,294.23	0.06	0.06	0.0%	0.0%	-14.3%
8901	10,847,952.49	0.16	0.15	-6.3%	-5.9%	-5.6%
9012	5,004,655.37	0.71	0.65	-8.5%	-7.8%	-9.4%
9014	5,017,901.46	2.27	2.11	-7.0%	-6.6%	7.0%
9015	4,074,551.46	2.73	2.62	-4.0%	2.6%	-0.7%
9016	470,534.65	2.83	2.53	-10.6%	-0.7%	4.0%
9019	2,686.15	1.94	1.83	-5.7%	7.8%	17.6%
9033	324,167.83	1.71	1.59	-7.0%	-1.2%	4.2%
9040	1,003,280.82	3.38	3.07	-9.2%	2.7%	1.2%
9044	1,670,288.42	0.90	0.83	-7.8%	2.3%	0.0%
9052	4,445,310.12	1.66	1.51	-9.0%	-2.9%	0.6%
9058	1,043,932.20	1.39	1.32	-5.0%	4.5%	-5.7%
9060	1,390,577.38	1.12	1.10	-1.8%	5.7%	-4.5%
9061	316,473.45	1.25	1.09	-12.8%	-3.8%	-10.3%
9062	576,198.35	1.20	1.08	-10.0%	3.4%	-9.4%
9063	2,349,933.84	0.76	0.68	-10.5%	10.1%	-4.2%
9077	-	2.43	2.91	19.8%	0.4%	-0.4%

9082 16,727,797.99 1.12 1.03 -8.0% 0.9% 9083 12,717,907.39 0.97 0.92 -5.2% 6.6% 9084 905,005.89 1.16 1.08 -6.9% 3.6% 9089 213.27 0.94 0.82 -12.8% -5.1% 9093 235,251.45 1.16 1.02 -12.1% -5.7% 9101 2,785,562.52 3.36 2.93 -12.8% 7.3% 9102 2,575,601.92 2.48 2.26 -8.9% -0.8% 9110 925,774.03 2.52 2.37 -6.0% -3.8% 9154 1,027,988.17 1.63 1.42 -12.9% 10.9% 9156 383,504.59 2.19 2.00 -8.7% 4.3% 9170 36,534.33 10.85 10.05 -7.4% 4.9% 9178 92,049.90 10.32 9.48 -8.1% 1.8% 9180 207,100.63 3.87 3.69 -4.7%	-3.5% -1.1% -6.7% -4.8% -2.4% -6.8% -7.7% -7.1%
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9102 2,575,601.92 2.48 2.26 -8.9% -0.8% 9110 925,774.03 2.52 2.37 -6.0% -3.8% 9154 1,027,988.17 1.63 1.42 -12.9% 10.9% 9156 383,504.59 2.19 2.00 -8.7% 4.3% 9170 36,534.33 10.85 10.05 -7.4% 4.9% 9178 92,049.90 10.32 9.48 -8.1% 1.8% 9179 103,791.68 17.95 16.04 -10.6% 3.3% 9180 207,100.63 3.87 3.69 -4.7% 0.5% 9182 559,243.84 1.75 1.72 -1.7% 4.8% 9186 17,161.77 13.02 10.84 -16.7% -12.1% 9220 177,762.00 3.53 3.33 -5.7% 2.3% 9402 559,802.76 4.17 3.98 -4.6% 7.8% 9403 1,568,870.94 6.87 6.13 -10.8%	-7.7%
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9180 207,100.63 3.87 3.69 -4.7% 0.5% 9182 559,243.84 1.75 1.72 -1.7% 4.8% 9186 17,161.77 13.02 10.84 -16.7% -12.1% 9220 177,762.00 3.53 3.33 -5.7% 2.3% 9402 559,802.76 4.17 3.98 -4.6% 7.8% 9403 1,568,870.94 6.87 6.13 -10.8% 1.2%	-5.9%
9182 559,243.84 1.75 1.72 -1.7% 4.8% 9186 17,161.77 13.02 10.84 -16.7% -12.1% 9220 177,762.00 3.53 3.33 -5.7% 2.3% 9402 559,802.76 4.17 3.98 -4.6% 7.8% 9403 1,568,870.94 6.87 6.13 -10.8% 1.2%	2.5%
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9402 559,802.76 4.17 3.98 -4.6% 7.8% 9403 1,568,870.94 6.87 6.13 -10.8% 1.2%	-12.1%
9403 1,568,870.94 6.87 6.13 -10.8% 1.2%	-4.7%
•	1.6%
	3.2%
9410 208,993.49 2.71 2.60 -4.1% 3.0%	-4.4%
9501 260,437.92 2.99 2.78 -7.0% 5.3%	0.4%
9505 101,180.44 3.87 3.24 -16.3% -2.8%	-0.3%
9516 452,879.31 2.35 2.07 -11.9% -10.6%	-14.3%
9519 533,075.37 3.34 2.99 -10.5% 6.0%	-4.5%
9521 190,220.62 3.45 3.12 -9.6% 4.9%	-6.8%
9522 573,141.03 4.35 4.74 9.0% 20.8%	16.9%
9534 174,374.11 3.99 3.74 -6.3% -0.7%	-3.6%
9554 171,232.55 7.40 6.64 -10.3% -1.3%	-6.7%
9586 1,669,014.77 0.48 0.43 -10.4% 0.0%	-4.0%
9600 5,792.26 3.17 2.87 -9.5% 7.1%	4.6%
9620 564,952.57 1.05 1.10 4.8% 4.0%	-1.0%

TOTAL -7.7% 0.8% -1.8%

NATIONAL COUNCIL ON COMPENSATION INSURANCE, INC.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

RESPONSES TO THE DEPARTMENT OF COMMERCE AND INSURANCE'S REQUESTS DATED SEPTEMBER 24, 2021

Regarding the response to objection 5 of the questions dated September 1, 2021,
please explain the process where the mix impact was estimated by comparing a
hypothetical AWW using CY 2019 AWW by sector with the 2020 employment mix by
sector to the actual CY 2019 AWW. How was the hypothetical AWW chosen and were
other hypothetical AWWs tested? Please provide a numeric example of this process.

The hypothetical 2020 AWW is derived by combining the 2020 employment by sector with the 2019 AWW by sector. The resulting 2020 AWW is what would have resulted had average weekly wages by sector remained unchanged; any change in this hypothetical 2020 AWW is driven solely by a shift in employment by sector. Because this hypothetical 2020 AWW grew by +1.3% (and +1.6% countrywide), 1.3% of the actual growth of +6.3% is due the shift in sector mix. Accordingly, this growth of 1.3% was removed from the restated 2020 AWW.

Please see Exhibit 1 for a numeric example.

- 2. Regarding the responses to objection 10 of the questions dated September 1, 2021:
 - a. Has this process changed from last year's filing?
 - b. Please provide the underlying data and calculations for the following columns in Exhibit 10a:
 - i. Adjustment to Reverse AOE Credits
 - ii. Adjustment for Losses Associated with TPA Agreements
 - iii. Adjustment to Convert Losses from Net to Gross of Deductible
 - iv. Pct. Of Reported COVID-19-Related Losses to Total Losses
 - c. Were the same factors mentioned in 2b used in last year's analysis?
 - a) The methodology is largely the same as last year. This year, in consideration of the COVID-19 pandemic, NCCI implemented an additional adjustment which removed the direct effects of reported COVID-19-related losses as a percent of total losses.
 - b) Please see Exhibit 2 for this information.
 - c) The Adjustment to Reverse AOE Credits and the Adjustment for Losses Associated with TPA Agreements are derived using the same methodology as last year's analysis, but with updated carrier data reported as of 12/31/2020. The Adjustment to Convert Losses from Net to Gross of Deductible was re-evaluated with updated data, and ultimately this year's adjustment value was equivalent to the adjustment value used in last year's analysis. An adjustment to remove the direct effect of COVID-19-related losses was incorporated in this analysis as such information did not exist in the previous year's analysis.

NATIONAL COUNCIL ON COMPENSATION INSURANCE, INC.

MISSOURI ADVISORY LOSS COSTS AND RATING VALUES FILING—JANUARY 1, 2022

RESPONSES TO THE DEPARTMENT OF COMMERCE AND INSURANCE'S REQUESTS DATED SEPTEMBER 24, 2021

3. Regarding Exhibit 22 that was submitted in response to objection 22 of the questions dated September 1, 2021, please provide the underlying data and calculations for the excess ratios derived in this exhibit.

The countrywide data provided in response to objection 22 of the questions dated September 1, 2021 is derived from each individual state's fitted average costs per case, fitted claim counts and total losses. Missouri's values contributing to the countrywide data can be seen on Exhibits 5A-5C of 'MO ELF 2022-1-1' attached. For more information on these values please see the attached file 'Excess Loss Factor Calculations.'

The countrywide data is then used to calculate each claim groups' excess ratio. An example of this calculation can be seen in Exhibit VI of 'CW20191001' attached. Finally, the claim group excess ratios are weighted together for each hazard group to calculate the weighted average excess ratio.



Missouri	(1)	(2)	(3)	(4)	(5)	(6)	(7)
MISSOUT	Wages (Millions)		Employment (000s)		Actual AWW		Hypoth. AWW
BLS Sector	2019	2020	2019	2020	2019	2020	2020
Mining; quarrying; and oil and gas extraction	\$304	\$310	4	4	\$1,393	\$1,443	
Utilities	\$1,227	\$1,249	12	12	\$2,006	\$2,054	
Construction	\$8,131	\$8,508	127	125	\$1,234	\$1,304	
Manufacturing	\$17,176	\$16,921	277	266	\$1,192	\$1,223	
Wholesale trade	\$9,055	\$9,240	123	120	\$1,414	\$1,484	
Retail trade	\$9,390	\$9,693	304	292	\$593	\$639	
Transportation and warehousing	\$5,472	\$5,551	105	105	\$1,006	\$1,021	
Information	\$4,133	\$3,879	48	45	\$1,649	\$1,663	
Finance and insurance	\$11,839	\$12,533	136	137	\$1,674	\$1,757	
Real estate and rental and leasing	\$1,937	\$1,982	39	37	\$945	\$1,025	
Professional; scientific; and technical services	\$13,546	\$13,861	163	161	\$1,602	\$1,661	
Management of companies and enterprises	\$7,318	\$6,955	65	62	\$2,169	\$2,153	
Admin. and support and waste mgmt. and remediation svcs.	\$6,302	\$6,379	155	143	\$781	\$861	
Educational services	\$2,668	\$2,658	63	61	\$819	\$841	
Health care and social assistance	\$20,751	\$21,297	431	419	\$927	\$978	
Arts; entertainment; and recreation	\$1,805	\$1,619	43	31	\$811	\$1,001	
Accommodation and food services	\$5,930	\$5,345	266	222	\$429	\$464	
Other Services	\$5,027	\$5,095	120	113	\$807	\$870	
Farms	\$305	\$323	96	90	\$61	\$69	
Fishing; hunting; etc.	<u>\$207</u>	<u>\$233</u>	<u>3</u>	<u>3</u>	<u>\$1,268</u>	<u>\$1,496</u>	
Total Private	\$132,523	\$133,632	2,579	2,446	\$988	\$1,051	\$1,001
$(5) = [(1) \times 1,000,000] / [(3) \times 1,000] / 52$ $(6) = [(2) \times 1,000,000] / [(4) \times 1,000] / 52$			Actual	AWW grow	th = \$1,051	/ \$988 – 1	6.3%
(6) = $[(2) \times 1,000,000] / [(4) \times 1,000] / 32$ (7 Total) = $[\sum (4) \times (5)] / (4 \text{ Total})$	Δ\	N/M growth d	lue to change	in sector m	niv – \$1 001	/ ¢088 _ 1	1.3%
(7 Total) = [Z (4) ^ (3)] / (4 Total)	AWW growth due to change in sector mix = \$1,001 / \$988 – 1					1.5/0	

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NCCI's Response to Objection 2

Objection #2b: Please provide the underlying data and calculations for the following columns in Exhibit 10a:

- i) Adjustment to Reverse AOE Credits
- ii) Adjustment for Losses Associated with TPA Agreements
- iii) Adjustment to Convert Losses from Net to Gross of Deductible
- iv) Pct. Of Reported COVID-19-Related Losses to Total Losses

Response #2b: The following sheets in this workbook contain the requested information.

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NATIONAL COUNCIL ON COMPENSATION INSURANCE 2021 COUNTRYWIDE ADJUSTING AND OTHER EXPENSE REVIEW EVALUATED AS OF 12/31/2020

Numerator Adjustment to Reverse AOE Credits

(1)	(2)	(3)=(2)/(1)
Incurred	Total	
Losses	AOE Credits	Adjustment
25,143,600,898	289,108,383	0.011
22,530,240,575	292,517,537	0.013
22,320,015,176	304,564,531	0.014
21,166,537,929	260,539,164	0.012
20,285,087,397	246,233,851	0.012
	Incurred Losses 25,143,600,898 22,530,240,575 22,320,015,176 21,166,537,929	Incurred Total Losses AOE Credits 25,143,600,898 289,108,383 22,530,240,575 292,517,537 22,320,015,176 304,564,531 21,166,537,929 260,539,164

Data Source: NCCI's Financial Data Collection Call 19

NATIONAL COUNCIL ON COMPENSATION INSURANCE 2021 COUNTRYWIDE ADJUSTING AND OTHER EXPENSE REVIEW EVALUATED AS OF 12/31/2020

Denominator Adjustment for Losses Associated with TPA Agreements

	(1)	(2)	(3)=(1)/[(1)-(2)]
		TPA Losses	
	Incurred	with No	
Calendar Year	Losses	Reported AOE	Adjustment
2016	25,143,600,898	1,175,675,864	1.049
2017	22,530,240,575	1,202,203,095	1.056
2018	22,320,015,176	1,228,874,876	1.058
2019	21,166,537,929	1,262,442,864	1.063
2020	20,285,087,397	1,244,308,538	1.065

Data Source: NCCI's Financial Data Collection Call 19

NATIONAL COUNCIL ON COMPENSATION INSURANCE 2021 COUNTRYWIDE ADJUSTING AND OTHER EXPENSE REVIEW

Factor Applied to Adjusting and Other Expense (AOE)

To Account for Effect of Large Deductibles—Calendar Year 2020

A. PY 2017-2019 Average STD Earned Premium Excluding Large Deductible Credits (000's) (1)	34,537,030
B. PY 2017-2019 Average STD Earned Premium Including Large Deductible Credits (000's) (1)	25,595,784
C. Factor to Adjust for Impact of Large Deductibles [B / A]	0.741
D. General Expenses as a % of Standard Premium (2)	5.5%
E. Production Expense as a % of Standard Premium (2)	18.3%
F. Taxes as a % of Standard Premium ⁽³⁾	2.9%
G. Profit and Contingency Provision as a % of Standard Premium (4)	0.9%
H. AOE as a % of Losses (5)	8.9%
I. DCCE as a % of Losses (5)	11.0%
J. Permissible Loss Ratio [(1-D-E-F-G) / (1+H+I)]	0.604
K. Permissible Loss Ratio Including DCCE and Loss Based Assessment $[J \times (1+I)]$	0.670
L. AOE as a % of STD Premium [H x J]	5.4%
M. Factor to Adjust AOE for Impact of Large Deductibles [(1-E-F-G) x C - (D+L)] / K	0.70

Notes

NCCI's Workers Compensation Statistical Plan (WCSP) data

⁽²⁾ From 2020 Countrywide Expense Review with data evaluated as of 12/31/2019.

⁽³⁾ Review of 2015 Countrywide Tax and Assessment Directory.

Average approved Profit and Contingency provision for all NCCI rate states (AZ, FL, ID, IA, IL, and IN) as of 5/19/2021.

⁽⁵⁾ From 2020 Countrywide LAE Review with data evaluated as of 12/31/2019.

NATIONAL COUNCIL ON COMPENSATION INSURANCE 2021 COUNTRYWIDE ADJUSTING AND OTHER EXPENSE REVIEW EVALUATED AS OF 12/31/2020

COVID-19 Adjustment

(1)	Total AY 2020 COVID-19 Indemnity and Medical Paid+Case Losses Excluding Large Deductible Losses	158,481,276
(2)	Total Call 5 AY 2020 Indemnity & Medical P+C Losses	7,908,538,586
(3)	Ratio of Paid+Case COVID to Total Losses (1) / (2)	2.0%

Data Source: NCCI's Financial Call Data



Excess Loss Factor Calculations

Missouri—Effective 1/1/2022

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Exhibit 1.A

Report: FIRST

Policy Period: 7/1/17-6/30/18

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Injury Type	Indemnity Losses	Onlevel Factor	Trend in Ind. Cost per Case	Indemnity Development to Ultimate	Medical Losses	Onlevel Factor	Trend in Med. Cost per Case	Medical Development to Ultimate	Claim Count	Claim Count Development to Ultimate
Fatal	24,198,515	1.000	1.167	1.102	2,759,003	1.000	1.223	1.966	56	1.171
PT*	4,502,878	1.000	1.167	5.364	23,975,012	1.000	1.223	2.058	10	3.744
Likely PP	39,983,155	1.000	1.167	2.277	58,789,218	1.000	1.223	1.330	1,329	1.362
Likely TT	26,308,466	1.000	1.167	0.897	42,620,471	1.000	1.223	0.522	1,140	0.683
Not Likely PP	107,449,577	1.000	1.167	1.598	172,656,828	1.000	1.223	1.300	6,381	1.251
Not Likely TT	58,227,786	1.000	1.167	0.829	110,346,587	1.000	1.223	0.685	6,631	0.878
Med-Only*	xx	xx	xx	XX	65,333,838	1.000	1.223	0.974	37,334	1.005

	(11) Adjusted	(12) Adjusted	(13)	(14)	(15)
	Ultimate	Ultimate	Total	Developed	Average Cost
Claim	Ind. Loss	Med. Loss	Losses	Claim Count	per Case
Group	(1) x (2) x (3) x (4)	(5) x (6) x (7) x (8)	(11) + (12)	(9) x (10)	(13) / (14)
Fatal	31,120,113	6,633,796	37,753,910	66	575,728
PT*	28,187,062	60,343,523	88,530,585	37	2,364,599
Likely PP/TT	133,785,274	122,835,119	256,620,393	2,589	99,130
Not Likely PP/TT	256,711,127	366,950,496	623,661,623	13,805	45,178
Med-Only*	XX	77,825,798	77,825,798	37,521	2,074

^{*}Permanent Total and Med-Only values are not used in the multilevel model.

The values in Columns (14) and (15) are summarized across hazard groups.

Actual model inputs by hazard group are shown in Exhibit 2.

Outputs from the multilevel model are shown in Exhibits 3.A–3.D, 4.A–4.H.



Exhibit 1.B

Report: SECOND

Policy Period: 7/1/16-6/30/17

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Trend in	Indemnity			Trend in	Medical		Claim Count
Injury	Indemnity	Onlevel	Ind. Cost	Development	Medical	Onlevel	Med. Cost	Development		Development
Type	Losses	Factor	per Case	to Ultimate	Losses	Factor	per Case	to Ultimate	Claim Count	to Ultimate
Fatal	19,078,105	1.000	1.207	1.053	1,892,732	1.000	1.279	1.582	57	1.093
PT*	6,203,169	1.000	1.207	3.976	26,329,122	1.000	1.279	1.740	11	2.790
Likely PP	48,052,297	1.000	1.207	1.522	74,071,025	1.000	1.279	1.049	1,541	1.076
Likely TT	31,059,955	1.000	1.207	1.006	38,533,254	1.000	1.279	0.688	1,038	0.866
Not Likely PP	121,587,401	1.000	1.207	1.257	181,204,359	1.000	1.279	1.115	7,076	1.058
Not Likely TT	53,786,750	1.000	1.207	0.946	86,619,958	1.000	1.279	0.859	6,301	0.962
Med-Only*	xx	xx	xx	xx	59,112,540	1.000	1.279	1.000	36,277	1.001

	(11) Adjusted	(12) Adjusted	(13)	(14)	(15)
	Ultimate	Ultimate	Total	Developed	Average Cost
Claim	Ind. Loss	Med. Loss	Losses	Claim Count	per Case
Group	(1) x (2) x (3) x (4)	(5) x (6) x (7) x (8)	(11) + (12)	(9) x (10)	(13) / (14)
Fatal	24,247,718	3,829,712	28,077,430	62	450,674
PT*	29,769,207	58,594,408	88,363,614	31	2,879,231
Likely PP/TT	125,988,966	133,286,360	259,275,326	2,557	101,397
Not Likely PP/TT	245,887,178	353,578,788	599,465,966	13,548	44,248
Med-Only*	XX	75,604,939	75,604,939	36,313	2,082

^{*}Permanent Total and Med-Only values are not used in the multilevel model.

The values in Columns (14) and (15) are summarized across hazard groups.

Actual model inputs by hazard group are shown in Exhibit 2.

Outputs from the multilevel model are shown in Exhibits 3.A-3.D, 4.A-4.H.



Exhibit 1.C

Report: THIRD

Policy Period: 7/1/15-6/30/16

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Trend in	Indemnity			Trend in	Medical		Claim Count
Injury	Indemnity	Onlevel	Ind. Cost	Development	Medical	Onlevel	Med. Cost	Development		Development
Type	Losses	Factor	per Case	to Ultimate	Losses	Factor	per Case	to Ultimate	Claim Count	to Ultimate
Fatal	15,468,178	1.000	1.250	1.073	10,201,506	1.000	1.338	1.537	55	1.065
PT*	6,320,063	1.000	1.250	2.976	41,450,986	1.000	1.338	1.554	15	2.135
Likely PP	69,555,579	1.000	1.250	1.299	83,691,776	1.000	1.338	1.008	1,898	1.030
Likely TT	21,390,201	1.000	1.250	0.980	22,695,346	1.000	1.338	0.742	898	0.913
Not Likely PP	133,547,842	1.000	1.250	1.139	189,035,481	1.000	1.338	1.068	7,627	1.022
Not Likely TT	51,331,560	1.000	1.250	0.957	78,112,012	1.000	1.338	0.917	6,144	0.978
Med-Only*	xx	xx	XX	xx	57,224,424	1.000	1.338	1.009	36,662	1.001

	(11) Adjusted	(12) Adjusted	(13)	(14)	(15)
	Ultimate	Ultimate	Total	Developed	Average Cost
Claim	Ind. Loss	Med. Loss	Losses	Claim Count	per Case
Group	(1) x (2) x (3) x (4)	(5) x (6) x (7) x (8)	(11) + (12)	(9) x (10)	(13) / (14)
Fatal	20,746,694	20,979,458	41,726,152	59	712,354
PT*	23,510,634	86,187,046	109,697,680	32	3,425,376
Likely PP/TT	139,143,868	135,407,282	274,551,149	2,775	98,944
Not Likely PP/TT	251,544,119	365,967,898	617,512,017	13,804	44,735
Med-Only*	XX	77,255,376	77,255,376	36,699	2,105

^{*}Permanent Total and Med-Only values are not used in the multilevel model.

The values in Columns (14) and (15) are summarized across hazard groups.

Actual model inputs by hazard group are shown in Exhibit 2.

Outputs from the multilevel model are shown in Exhibits 3.A–3.D, 4.A–4.H.



Exhibit 1.D

Report: FOURTH

Policy Period: 7/1/14-6/30/15

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Trend in	Indemnity			Trend in	Medical		Claim Count
Injury	Indemnity	Onlevel	Ind. Cost	Development	Medical	Onlevel	Med. Cost	Development		Development
Type	Losses	Factor	per Case	to Ultimate	Losses	Factor	per Case	to Ultimate	Claim Count	to Ultimate
Fatal	21,035,294	1.000	1.293	1.056	3,784,795	1.000	1.400	1.458	59	1.043
PT*	6,789,783	1.000	1.293	2.208	17,247,633	1.000	1.400	1.390	16	1.537
Likely PP	76,550,717	1.000	1.293	1.198	84,286,535	1.000	1.400	0.993	2,010	1.013
Likely TT	25,590,073	1.000	1.293	0.967	27,663,120	1.000	1.400	0.788	882	0.947
Not Likely PP	137,158,648	1.000	1.293	1.085	177,204,591	1.000	1.400	1.054	7,852	1.012
Not Likely TT	50,690,246	1.000	1.293	0.972	70,545,578	1.000	1.400	0.943	6,017	0.987
Med-Only*	xx	xx	XX	xx	53,716,259	1.000	1.400	1.007	36,005	1.000

	(11) Adjusted	(12) Adjusted	(13)	(14)	(15)
	Ultimate	Ultimate	Total	Developed	Average Cost
Claim	Ind. Loss	Med. Loss	Losses	Claim Count	per Case
Group	(1) x (2) x (3) x (4)	(5) x (6) x (7) x (8)	(11) + (12)	(9) x (10)	(13) / (14)
Fatal	28,721,759	7,725,524	36,447,282	62	592,282
PT*	19,384,450	33,563,894	52,948,344	25	2,153,072
Likely PP/TT	150,574,194	147,693,095	298,267,289	2,871	103,876
Not Likely PP/TT	256,127,851	354,617,367	610,745,218	13,885	43,986
Med-Only*	XX	75,729,182	75,729,182	36,005	2,103

^{*}Permanent Total and Med-Only values are not used in the multilevel model.

The values in Columns (14) and (15) are summarized across hazard groups.

Actual model inputs by hazard group are shown in Exhibit 2.

Outputs from the multilevel model are shown in Exhibits 3.A–3.D, 4.A–4.H.



Exhibit 1.E

Report: FIFTH

Policy Period: 7/1/13-6/30/14

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Trend in	Indemnity			Trend in	Medical		Claim Count
Injury	Indemnity	Onlevel	Ind. Cost	Development	Medical	Onlevel	Med. Cost	Development		Development
Type	Losses	Factor	per Case	to Ultimate	Losses	Factor	per Case	to Ultimate	Claim Count	to Ultimate
Fatal	16,689,422	1.001	1.339	1.066	6,662,491	1.000	1.464	1.765	67	1.028
PT*	9,306,778	1.001	1.339	1.807	21,018,529	1.000	1.464	1.346	27	1.325
Likely PP	73,347,111	1.001	1.339	1.104	76,116,222	1.000	1.464	0.994	1,968	1.007
Likely TT	24,370,737	1.001	1.339	0.996	24,011,697	1.000	1.464	0.827	806	0.965
Not Likely PP	134,547,061	1.001	1.339	1.056	174,869,273	1.000	1.464	1.043	7,884	1.007
Not Likely TT	48,335,617	1.001	1.339	0.978	67,101,605	1.000	1.464	0.960	5,861	0.992
Med-Only*	XX	XX	XX	XX	52,561,100	1.000	1.464	1.004	36,229	1.000

	(11) Adjusted	(12) Adjusted	(13)	(14)	(15)
	Ultimate	Ultimate	Total	Developed	Average Cost
Claim	Ind. Loss	Med. Loss	Losses	Claim Count	per Case
Group	(1) x (2) x (3) x (4)	(5) x (6) x (7) x (8)	(11) + (12)	(9) x (10)	(13) / (14)
Fatal	23,845,869	17,215,610	41,061,479	69	596,165
PT*	22,540,947	41,417,936	63,958,883	36	1,787,809
Likely PP/TT	141,068,622	139,837,178	280,905,800	2,760	101,793
Not Likely PP/TT	253,798,457	361,324,266	615,122,723	13,753	44,725
Med-Only*	XX	77,257,248	77,257,248	36,229	2,132

^{*}Permanent Total and Med-Only values are not used in the multilevel model.

Outputs from the multilevel model are shown in Exhibits 3.A-3.D, 4.A-4.H.

The values in Columns (14) and (15) are summarized across hazard groups.

Actual model inputs by hazard group are shown in Exhibit 2.



Exhibit 2.A

Report: FIRST

Policy Period: 7/1/17-6/30/18

Adjusted *				Hazard Group					
Ind Loss	Α	В	С	D	E	F	G	Total	
Fatal	6,430	767,937	3,487,894	2,353,353	11,679,236	10,555,817	2,269,445	31,120,113	•
PT**	0	1,102,173	4,822,929	6,380,977	3,586,502	3,857,300	8,437,180	28,187,062	
Likely PP/TT	5,626,123	11,301,913	28,268,952	17,747,340	24,334,513	31,371,910	15,134,524	133,785,274	
Not Likely PP/TT	13,068,644	23,287,493	64,401,991	37,099,299	40,583,302	53,546,267	24,724,131	256,711,127	
Med-Only**	0	0	0	0	0	0	0	0	
Total	18,701,197	36,459,516	100,981,766	63,580,971	80,183,552	99,331,294	50,565,280	449,803,576	
Adjusted *				Hazard Group					
Med Loss	Α	В	С	D	E	F	G	Total	
Fatal	0	336,405	2,454,565	799,253	1,862,823	309,177	871,575	6,633,796	•
PT**	0	2,452,390	4,214,359	18,350,316	7,165,837	17,614,423	10,546,198	60,343,523	
Likely PP/TT	6,207,168	11,522,764	22,014,973	18,958,956	25,031,960	22,790,103	16,309,195	122,835,119	
Not Likely PP/TT	21,508,280	39,693,141	91,955,721	52,817,776	58,249,441	67,335,039	35,391,097	366,950,496	
Med-Only**	10,829,107	12,646,272	25,420,076	10,904,613	9,072,074	6,624,504	2,329,153	77,825,798	
Total	38,544,555	66,650,971	146,059,693	101,830,914	101,382,135	114,673,246	65,447,217	634,588,732	
Developed				Hazard Group					
Claim Count	Α	В	С	Ď	E	F	G	Total	
Fatal	1.171	3.513	11.710	5.855	19.907	18.736	4.684	65.576	shown to three
PT**	0.000	3.744	3.744	7.488	11.232	7.488	3.744	37.440	decimal place
Likely PP/TT	172	332	750	393	396	391	155	2,589	
Not Likely PP/TT	1,159	1,779	3,969	2,092	1,941	2,037	827	13,805	
Med-Only**	5,435	6,920	12,295	5,175	4,028	2,729	939	37,521	
Total	6,768	9,039	17,030	7,673	6,397	5,182	1,929	54,017	
Observed				Hazard Group					
Average Cost				azara Group					
per Case	Α	В	С	D	E	F	G	Total	
Fatal	5,491	314,359	507,469	538,447	680,266	579,899	670,585	575,728	•
	*	949,403	2,413,806	3,302,790	957,295	2,867,484	5,070,347	2,364,599	
PT**	_	949,403	2.413.000						
						138.670	203.302	99,130	
Likely PP/TT	68,629	68,758	67,002	93,494	124,662	138,670 59.347	203,302 72.671	99,130 45.178	
						138,670 59,347 2,428	203,302 72,671 2,481	99,130 45,178 2,074	

^{*} Adjusted losses are computed by onlevelling, trending and developing losses to an ultimate basis.

^{**} Permanent Total and Med-Only values are not used in the multilevel model.



Exhibit 2.B

Report: SECOND

Policy Period: 7/1/16-6/30/17

Adjusted *			ı	Hazard Group					
Ind Loss	Α	В	С	D	E	F	G	Total	
atal	0	109,558	5,073,536	3,388,011	4,836,047	10,105,530	735,037	24,247,718	
PT**	787,276	0	0	0	229,072	20,176,901	8,575,957	29,769,207	
Likely PP/TT	4,762,532	10,588,445	31,206,064	16,794,075	24,427,674	25,798,459	12,411,717	125,988,966	
Not Likely PP/TT	11,682,874	21,949,141	61,892,948	38,409,533	36,757,899	51,340,398	23,854,386	245,887,178	
Med-Only**	0	0	0	0	0	0	0	0	
Total	17,232,682	32,647,144	98,172,548	58,591,619	66,250,692	107,421,288	45,577,096	425,893,069	
Adjusted *			1	Hazard Group					
Med Loss	Α	В	C	D D	E	F	G	Total	
Fatal	0	434,033	36,421	1,463,188	493,225	1,076,789	326,057	3,829,712	=
PT**	11,102,920	0	0	0	82,404	38,718,424	8,690,659	58,594,408	
Likely PP/TT	5,800,873	11,942,776	24,235,000	17,307,672	31,531,871	24,769,742	17,698,427	133,286,360	
Not Likely PP/TT	21,624,943	36,644,391	94,940,233	56,059,001	48,275,314	63,684,346	32,350,559	353,578,788	
Med-Only**	11,292,691	12,771,593	24,779,869	10,275,087	8,160,842	5,834,257	2,490,599	75,604,939	
Total	49,821,428	61,792,793	143,991,523	85,104,948	88,543,656	134,083,558	61,556,302	624,894,207	
Developed			ı	Hazard Group					
Claim Count	Α	В	C	D D	E	F	G	Total	
Fatal	0.000	2.186	9.837	12.023	12.023	24.046	2.186		shown to thre
PT**	2.790	0.000	0.000	0.000	2.790	16.740	8.370	30.690	decimal place
Likely PP/TT	173	340	750	382	398	355	159	2,557	
Not Likely PP/TT	1,145	1,702	3,914	2,087	1,929	1,950	820	13,548	
Med-Only**	5,535	6,811	11,700	4,986	3,759	2,598	926	36,313	
Total	6,855	8,856	16,374	7,468	6,100	4,943	1,916	52,511	
Observed			ı	Hazard Group					
Average Cost			•						
per Case	Α	В	С	D	E	F	G	Total	
Fatal		248,669	519,463	403,493	443,256	465,039	485,404	450,674	-
PT**	4,261,719		_	-	111,640	3,518,239	2,062,917	2,879,231	
Likely PP/TT	61,182	66,246	73,900	89,198	140,664	142,438	189,517	101,397	
Not Likely PP/TT	29,079	34,417	40,069	45,258	44,090	58,997	68,511	44,248	
Med-Only**	2,040	1,875	2,118	2,061	2,171	2,246	2,690	2,082	

^{*} Adjusted losses are computed by onlevelling, trending and developing losses to an ultimate basis.

^{**} Permanent Total and Med-Only values are not used in the multilevel model.



Exhibit 2.C

Report: THIRD

Policy Period: 7/1/15-6/30/16

Adjusted *				Hazard Group					
Ind Loss	Α	В	С	Ď	E	F	G	Total	_
Fatal	217,626	1,113,385	2,769,279	2,812,106	4,306,436	6,489,729	3,038,132	20,746,694	_
PT**	0	0	2,473,886	2,978,548	2,730,268	1,633,303	13,694,629	23,510,634	
Likely PP/TT	6,265,517	10,746,959	34,609,011	15,495,738	22,823,596	34,703,242	14,499,805	139,143,868	
Not Likely PP/TT	12,596,202	25,238,273	62,530,971	34,869,597	40,617,027	52,022,617	23,669,432	251,544,119	
Med-Only**	0	0	0	0	0	0	0	0	
Total	19,079,345	37,098,616	102,383,147	56,155,989	70,477,327	94,848,891	54,902,000	434,945,314	
Adjusted *				Hazard Group					
Med Loss	Α	В	С	D	E	F	G	Total	
Fatal	13,108	151,030	81,479	68,722	180,294	399,686	20,085,139	20,979,458	-
PT**	0	0	39,681,283	384,204	9,377,231	30,334	36,713,993	86,187,046	
Likely PP/TT	7,003,838	11,769,485	34,058,285	15,497,439	24,727,848	26,097,472	16,252,915	135,407,282	
Not Likely PP/TT	23,793,009	47,397,329	98,028,329	49,697,188	52,496,192	64,103,606	30,452,246	365,967,898	
Med-Only**	11,120,949	12,795,824	24,534,652	10,168,672	9,064,113	7,039,438	2,531,728	77,255,376	
Total	41,930,905	72,113,667	196,384,028	75,816,224	95,845,678	97,670,535	106,036,022	685,797,060	
Developed Claim Count	A	В	С	Hazard Group D	E	F	G	Total	
Fatal	1.065	3.195	9.585	6.390	6.390	22.365	9.585		shown to three
PT**	0.000	0.000	6.405	4.270	4.270	4.270	12.810	32.025	decimal places
Likely PP/TT	219	390	761	388	424	424	169	2,775	
Not Likely PP/TT	1,168	1,866	3,969	1,992	1,967	2,027	814	13,804	
Med-Only**	5,564	6,926	11,683	4,985	3,925	2,678	939	36,699	
Total	6,952	9,185	16,428	7,376	6,327	5,155	1,944	53,368	
Observed				Hazard Group					
Average Cost				·					
per Case	Α	В	С	D	E	F	G	Total	
Fatal	216,652	395,748	297,419	450,834	702,149	308,045	2,412,444	712,354	_
PT**	_	-	6,581,603	787,530	2,835,480	389,611	3,935,099	3,425,376	
Likely PP/TT	60,521	57,717	90,281	79,834	112,084	143,464	182,432	98,944	
Not Likely PP/TT	31,149	38,933	40,451	42,453	47,334	57,290	66,456	44,735	
Not Likely PP/TT Med-Only**	31,149 1,999	38,933 1,848	40,451 2,100	42,453 2,040	47,334 2,309	57,290 2,629	66,456 2,696	44,735 2,105	

^{*} Adjusted losses are computed by onlevelling, trending and developing losses to an ultimate basis.

^{**} Permanent Total and Med-Only values are not used in the multilevel model.

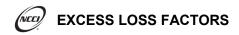


Exhibit 2.D

Report: FOURTH

Policy Period: 7/1/14-6/30/15

Adjusted *				Hazard Group					
Ind Loss	Α	В	С	D	E	F	G	Total	_
Fatal	0	722,073	2,310,629	6,944,619	2,672,658	7,807,311	8,264,468	28,721,759	
PT**	0	0	9,679,942	617,213	4,964,611	2,763,446	1,359,239	19,384,450	
Likely PP/TT	4,485,105	13,004,805	37,357,252	17,626,047	32,167,546	28,265,245	17,668,194	150,574,194	
Not Likely PP/TT	8,478,066	28,266,753	61,308,423	39,179,767	44,895,968	51,811,749	22,187,126	256,127,851	
Med-Only**	0	0	0	0	0	0	0	0	
Total	12,963,171	41,993,632	110,656,246	64,367,646	84,700,782	90,647,752	49,479,027	454,808,254	
Adjusted *				Hazard Group					
Med Loss	Α	В	С	D	E	F	G	Total	
Fatal	0	25,462	518,393	526,189	1,681,865	4,329,422	644,193	7,725,524	=
PT**	0	0	17,830,585	908,768	1,158,545	3,065,160	10,600,835	33,563,894	
Likely PP/TT	5,376,540	13,098,581	33,517,801	17,477,821	33,526,076	25,573,318	19,122,958	147,693,095	
Not Likely PP/TT	14,289,268	48,336,569	92,467,829	52,826,308	56,764,473	60,221,787	29,711,131	354,617,367	
Med-Only**	8,320,548	15,977,234	22,629,460	10,232,866	9,366,851	6,815,395	2,386,829	75,729,182	
Total	27,986,356	77,437,846	166,964,069	81,971,952	102,497,811	100,005,082	62,465,946	619,329,061	
Developed Claim Count	A	В	С	Hazard Group D	E	F	G	Total	
Fatal	0.000	4.172	6.258	11.473	10.430	17.731	11.473		shown to three
PT**	0.000	0.000	12.296	3.074	4.611	3.074	1.537		decimal place
Likely PP/TT	173	409	834	414	450	403	188	2,871	doominal place
Not Likely PP/TT	884	2,083	3,915	2,183	2,106	1,921	793	13,885	
Med-Only**	4,158	8,260	10,980	4,914	4,137	2,676	880	36,005	
Total	5,215	10,756	15,748	7,526	6,708	5,021	1,874	52,848	
Observed				Hazard Group					
Average Cost		_		_	_	_		_	
per Case	A	В	С	D	E	F	G	Total	_
Fatal	_	179,179	452,065	651,164	417,500	684,492	776,489	592,282	
PT**	_	_	2,237,356	496,416	1,327,945	1,896,098	7,781,440	2,153,072	
Likely PP/TT	57,024	63,792	84,984	84,698	146,043	133,563	195,809	103,876	
Not Likely PP/TT	25,746	36,780	39,276	42,153	48,278	58,311	65,446	43,986	
Med-Only**	2,001	1,934	2,061	2,082	2,264	2,547	2,712	2,103	
Total	7,852	11,104	17,629	19,445	27,908	37,970	59,739	20,325	

^{*} Adjusted losses are computed by onlevelling, trending and developing losses to an ultimate basis.

^{**} Permanent Total and Med-Only values are not used in the multilevel model.

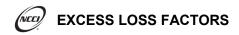


Exhibit 2.E

Report: FIFTH

Policy Period: 7/1/13-6/30/14

Adjusted *				Hazard Group					
Ind Loss	Α	В	С	D	E	F	G	Total	
Fatal	24,765	871,319	4,248,498	2,305,042	2,895,166	10,694,948	2,806,130	23,845,869	_
PT**	628,260	1,344,220	3,766,356	2,213,357	1,969,099	3,766,680	8,852,974	22,540,947	
Likely PP/TT	4,337,115	13,477,542	31,760,415	19,168,164	22,457,931	34,715,279	15,152,176	141,068,622	
Not Likely PP/TT	8,198,870	27,679,164	63,035,942	36,628,551	43,459,787	51,822,083	22,974,059	253,798,457	
Med-Only**	0	0	0	0	0	0	0	0	
Total	13,189,011	43,372,245	102,811,211	60,315,115	70,781,983	100,998,991	49,785,339	441,253,895	
Adjusted *				Hazard Group					
Med Loss	Α	В	С	D	E	F	G	Total	
Fatal	25,840	1,199,048	1,093,498	13,426,349	690,527	286,008	494,340	17,215,610	-
PT**	466,231	1,117,214	1,892,142	1,003,661	15,130,562	4,594,674	17,213,453	41,417,936	
Likely PP/TT	5,079,148	14,528,489	34,160,530	17,371,976	24,192,822	28,423,047	16,081,166	139,837,178	
Not Likely PP/TT	13,526,027	47,362,974	96,315,707	49,452,743	59,837,110	62,913,162	31,916,542	361,324,266	
Med-Only**	8,090,883	15,834,152	24,018,229	10,444,581	8,885,853	6,947,236	3,036,315	77,257,248	
Total	27,188,128	80,041,876	157,480,106	91,699,310	108,736,874	103,164,128	68,741,816	637,052,239	
Developed				Hazard Group					
Claim Count	Α	В	С	D	E	F	G	Total	_
Fatal	1.028	5.140	11.308	7.196	15.420	21.588	7.196		shown to three
PT**	1.325	2.650	6.625	3.975	2.650	5.300	13.250	35.775	decimal place
Likely PP/TT	160	386	805	415	396	428	169	2,760	
Not Likely PP/TT	903	2,130	3,896	2,083	1,923	2,013	805	13,753	
Med-Only**	4,045	8,280	11,164	4,847	4,123	2,802	968	36,229	
Total	5,110	10,805	15,883	7,356	6,460	5,271	1,963	52,847	
Observed				Hazard Group					
Average Cost									
per Case	Α	В	С	D	E	F	G	Total	
Fatal	49,227	402,795	472,409	2,186,130	232,535	508,660	458,653	596,165	-
		· ·			0.450.700	1,577,614	1,967,277	1,787,809	
PT**	826,031	928,843	854,113	809,313	6,452,702	1,577,614	1,901,211	1,707,000	
	826,031 58,950	928,843 72,466	854,113 81,936	809,313 88,083	6,452,702 117,706	1,577,614	184,394	101,793	
Likely PP/TT	•		,	,				, ,	
PT** Likely PP/TT Not Likely PP/TT Med-Only**	58,950	72,466	81,936	88,083	117,706	147,429	184,394	101,793	

^{*} Adjusted losses are computed by onlevelling, trending and developing losses to an ultimate basis.

^{**} Permanent Total and Med-Only values are not used in the multilevel model.



Model Output: Calculation of Fitted State Average Cost per Case

Exhibit 3.A

Fitted Base Average Costs per Case

Claim Group

 Fatal
 310,549

 Likely PP/TT
 75,342

 Not Likely PP/TT
 24,520

Exhibit 3.B

State Relativity 1.123

Exhibit 3.C

Claim Group-Hazard Group Relativities

				Hazard Group	p		
Claim Group	Α	В	С	D	E	F	G
Fatal	1.000	1.059	1.131	1.192	1.274	1.366	1.475
Likely PP/TT	1.000	1.160	1.370	1.569	1.860	2.222	2.701
Not Likely PP/TT	1.000	1.137	1.315	1.479	1.714	2.000	2.370

Exhibit 3.D

State-Claim Group Relativities

Claim Group

Fatal	1.283
Likely PP/TT	0.727
Not Likely PP/TT	1.072

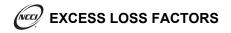
Exhibit 3.E

Fitted State Average Costs per Case

·	Hazard Group								
Claim Group	Α	В	С	D	E	F	G		
Fatal	447,562	474,140	506,043	533,567	570,309	611,536	660,372		
PT*	1,709,191	1,932,869	2,213,172	2,437,793	2,695,515	3,103,395	3,533,439		
Likely PP/TT	61,515	71,336	84,291	96,517	114,398	136,660	166,136		
Not Likely PP/TT	29,502	33,552	38,784	43,624	50,561	59,002	69,907		
Med-Only**	2,007	1,883	2,099	2,089	2,231	2,467	2,746		

^{*} Permanent Total values are calculated in Exhibits 8.A-8.E.

^{**} Medical Only average values are based on observed non-fitted data.



Model Output: Calculation of Fitted State Claim Counts

Exhibit 4.A

Payroll (\$ million)

			H	azard Group			
Policy Period	Α	В	С	D	E	F	G
7/1/17–6/30/18	4,365	9,215	45,557	8,835	16,127	6,719	2,649
7/1/16–6/30/17	4,198	8,948	43,239	8,647	15,378	6,417	2,549
7/1/15-6/30/16	4,125	9,057	41,515	8,368	14,808	6,057	2,509
7/1/14–6/30/15	2,901	9,423	39,020	8,174	14,439	5,705	2,258
7/1/13-6/30/14	2,720	9,235	38,162	7,705	13,655	5,357	2,124

Exhibit 4.B

Policy Period	Relativity
7/1/17-6/30/18	1.000
7/1/16-6/30/17	1.039
7/1/15-6/30/16	1.100
7/1/14-6/30/15	1.176
7/1/13-6/30/14	1.264

Exhibit 4.C

		Hazard Group								
	Α	В	С	D	E	F	G			
Adjusted Payroll (\$ million)	20.115	51.230	230.275	46.376	82.635	33.530	13.398	•		

Exhibit 4.D

State Relativity 1.274

Exhibit 4.E

State-Hazard Group Relativities

		Hazard Group									
	Α	В	С	D	E	F	G				
Relativity	0.929	0.945	1.051	0.919	0.993	1.083	1.098				

Exhibit 4.F

Claim Group Frequency	Claims per \$ million
Claim Group	Payroll
Fatal	0.00023
Likely PP/TT	0.04051
Not Likely PP/TT	0.23822

Exhibit 4.G

Claim Group-Hazard Group Relativities

				Hazard Group)		
Claim Group	Α	В	С	D	E	F	G
Fatal	1.000	0.877	0.603	2.788	2.614	8.741	11.668
Likely PP/TT	1.000	0.714	0.295	0.882	0.437	0.989	0.990
Not Likely PP/TT	1.000	0.712	0.293	0.881	0.435	0.989	0.990

Exhibit 4.H

State-Claim Group Relativities

Claim Group

Fatal	1.039
Likely PP/TT	1.051
Not Likely PP/TT	0.915

Exhibit 4.I

Fitted State Claim Counts

			На	zard Group				
Claim Group	Α	В	С	D	E	F	G	
Fatal	5.684	12.910	44.388	36.135	65.268	96.533	52.237	shown to three
PT*	4.643	12.025	38.055	20.748	36.005	40.908	18.157	decimal places
Likely PP/TT	1,013	1,874	3,877	2,038	1,947	1,947	790	
Not Likely PP/TT	5,192	9,576	19,666	10,431	9,910	9,975	4,047	
Med-Only**	24,736	37,197	57,822	24,907	19,972	13,482	4,652	

^{*} Permanent Total values are calculated in Exhibits 7.A-7.D.

^{**} Medical Only average values are based on observed non-fitted data.



Model Output: Fitted State Loss Weights

Exhibit 5.A

Fitted State Average Cost per Case

Hazard Group										
Claim Group	Α	В	С	D	E	F	G	Average		
Fatal	447,562	474,140	506,043	533,567	570,309	611,536	660,372	578,499		
PT*	1,709,191	1,932,869	2,213,172	2,437,793	2,695,515	3,103,395	3,533,439	2,662,948		
Likely PP/TT	61,515	71,336	84,291	96,517	114,398	136,660	166,136	99,329		
Not Likely PP/TT	29,502	33,552	38,784	43,624	50,561	59,002	69,907	44,548		
Med-Only**	2,007	1,883	2,099	2,089	2,231	2,467	2,746	2,099		

Hazard Group

Exhibit 5.B

Fitted State Claim Count

				nazaru Group					
Claim Group	Α	В	С	D	E	F	G	Total	
Fatal	5.684	12.910	44.388	36.135	65.268	96.533	52.237	313.155	shown to three
PT*	4.643	12.025	38.055	20.748	36.005	40.908	18.157	170.541	decimal places
Likely PP/TT	1,013	1,874	3,877	2,038	1,947	1,947	790	13,486	
Not Likely PP/TT	5,192	9,576	19,666	10,431	9,910	9,975	4,047	68,797	
Med-Only**	24,736	37,197	57,822	24,907	19,972	13,482	4,652	182,768	

^{*} Permanent Total values are calculated in Exhibit 7.A-7.D, 8.A-8.D.

Exhibit 5.C

State Total Losses

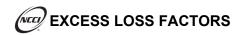
				Hazard Group				
Claim Group	Α	В	С	D	E	F	G	Total
Fatal	2,543,943	6,121,142	22,462,225	19,280,458	37,222,903	59,033,399	34,495,856	181,159,925
PT	7,936,519	23,243,220	84,221,420	50,580,246	97,050,698	126,952,652	64,156,661	454,141,416
Likely PP/TT	62,314,755	133,683,402	326,795,135	196,701,797	222,733,307	266,077,182	131,247,076	1,339,552,653
Not Likely PP/TT	153,175,989	321,292,855	762,717,274	455,040,386	501,058,078	588,540,171	282,913,251	3,064,738,005
Med-Only	49,653,923	70,024,786	121,383,274	52,026,432	44,550,367	33,261,212	12,775,907	383,675,901

Exhibit 5.D

State Loss Weights

ū				Hazard Group											
Claim Group	Α	В	С	D	E	F	G	Total							
Fatal	0.009	0.011	0.017	0.025	0.041	0.055	0.066	0.033							
PT	0.029	0.042	0.064	0.065	0.108	0.118	0.122	0.084							
Likely PP/TT	0.226	0.241	0.248	0.254	0.247	0.248	0.250	0.247							
Not Likely PP/TT	0.556	0.580	0.579	0.588	0.555	0.548	0.538	0.565							
Med-Only	0.180	0.126	0.092	0.067	0.049	0.031	0.024	0.071							

^{**} Medical Only average values are based on observed non-fitted data.



State Average Cost per Case and Loss Weights Including ALAE

Exhibit 6.A

State ALAE Adjustment by Claim Group

	(1) Statewide	(2)	(3)	(4)	(5)	(6) Claim Count	(7) Countrywide	(8) Off-Balance	(9) State ALAE
Claim Group	ALAE Factor	Average Cost per Case	Claim Count	Total Loss (2) x (3)	Loss Weight (4) / Total(4)	Weight (3) / Total(3)	ALAE Adjustment	Factor (1) / Total(7)	Adjustment (7) x (8)
Fatal		578,499	313	181,159,925	0.033	0.001	0.0590		0.0564
PT		2,662,948	171	454,141,416	0.084	0.001	0.0782		0.0748
Likely PP/TT		99,329	13,486	1,339,552,653	0.247	0.051	0.1188		0.1136
Not Likely PP/TT		44,548	68,797	3,064,738,005	0.565	0.259	0.1132		0.1082
Med-Only		2,099	182,768	383,675,901	0.071	0.688	0.1320		0.1262
Total	0.102	20,424	265,535	5,423,267,901	1.000	1.000	0.1067	0.956	0.1020

Exhibit 6.B

State Total Losses Including ALAE

	•			Hazard Group			
Claim Group	Α	В	С	D	E	F	G
Fatal	2,687,424	6,466,381	23,729,120	20,367,897	39,322,317	62,362,949	36,441,461
PT	8,529,817	24,980,776	90,517,425	54,361,391	104,305,761	136,443,047	68,952,717
Likely PP/TT	69,391,655	148,865,426	363,908,281	219,040,632	248,028,463	296,294,772	146,152,414
Not Likely PP/TT	169,751,727	356,061,139	845,253,720	504,281,982	555,279,418	652,228,271	313,528,336
Med-Only	55,919,531	78,860,903	136,700,092	58,591,417	50,171,980	37,458,297	14,388,043

Exhibit 6.C

State Average Cost per Case Including ALAE

				Hazard Group			
Claim Group	Α	В	С	D	E	F	G
Fatal	472,805	500,882	534,584	563,661	602,475	646,027	697,618
PT	1,836,962	2,077,361	2,378,618	2,620,031	2,897,019	3,335,390	3,797,583
Likely PP/TT	68,501	79,437	93,863	107,478	127,390	152,180	185,003
Not Likely PP/TT	32,695	37,183	42,980	48,345	56,032	65,386	77,472
Med-Only	2,261	2,120	2,364	2,352	2,512	2,778	3,093

Exhibit 6.D

State Loss Weight Including ALAE

_				Hazard Group			
Claim Group	Α	В	С	D	E	F	G
Fatal	0.009	0.011	0.016	0.024	0.039	0.053	0.063
PT	0.028	0.041	0.062	0.063	0.105	0.115	0.119
Likely PP/TT	0.227	0.242	0.249	0.256	0.249	0.250	0.252
Not Likely PP/TT	0.554	0.579	0.579	0.589	0.557	0.551	0.541
Med-Only	0.183	0.128	0.094	0.068	0.050	0.032	0.025



Indicated Permanent Total Claim Count

Exhibit 7.A State Claim Count – Base Time Period – 7/1/2005 to 6/30/2010

			Haz	ard Group				
Claim Group	Α	В	С	D	E	F	G	
Fatal	5.859	18.292	45.788	38.600	65.227	81.517	50.160	shown to three
PT	4.762	14.910	42.490	24.061	44.571	42.728	24.392	decimal places
Likely PP/TT	1,181	2,665	5,079	2,674	2,800	2,315	1,203	
Not Likely PP/TT	5,183	11,530	21,212	11,789	11,894	10,156	5,315	
Non-PT Total Lost-Time	6,369	14,212	26,337	14,502	14,759	12,553	6,568	
Exhibit 7.B								
Initial Proportion of PT Claim (Count to Non-PT T	otal						
			Haz	ard Group				
	Α	В	С	D	E	F	G	
Lost-Time claim count	0.00075	0.00105	0.00161	0.00166	0.00302	0.00340	0.00371	_
Exhibit 7.C								
Fitted State Claim Counts*								
			Haz	ard Group				
Claim Group	Α	В	С	D	E	F	G	
Fatal	5.684	12.910	44.388	36.135	65.268	96.533	52.237	shown to three
Likely PP/TT	1,013	1,874	3,877	2,038	1,947	1,947	790	decimal places
Not Likely PP/TT	5,192	9,576	19,666	10,431	9,910	9,975	4,047	
Non-PT Total Lost-Time	6,211	11,463	23,587	12,505	11,922	12,019	4,889	
Exhibit 7.D								
			Haz	ard Group				
	Α	В	С	D	E	F	G	_

38.055

20.748

36.005

40.908

18.157

Indicated PT Claim Count

4.643

12.025

^{*} From Exhibit 5.B



Indicated Permanent Total Average Cost per Case

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State Average Cost per Case – Base Time Period – 7/1/2005 to 6/30/2010

				Hazard Group			
Claim Group	Α	В	С	D	E	F	G
PT	1,054,142	1,192,095	1,364,972	1,503,507	1,662,457	1,914,016	2,179,246
Exhibit 8.B							
	Annual	Annual				Indemnity	Medical
	Indemnity	Medical	Trend Period	Trend Period	Number	Trend	Trend
	Trend	Trend	Start Date	End Date	of Years	Factor	Factor
First Stage Trend	1.020	1.03	06/16/2008	06/13/2016	7.997	1.172	1.267
Second Stage Trend	1.035	1.046	06/13/2016	12/05/2022	6.482	1.250	1.338
Exhibit 8.C							
	Indemnity	Medical					
Combined Trend Factor	1.464	1.695					
Onlevel Factor	1.007	1.000					
PT Loss Weight	0.335	0.665					
Exhibit 8.D							
	Indemnity	Medical	Total				
Combined Trend and Onlevel Factors	1.475	1.695	1.621	-			
Exhibit 8.E							
Indicated Average Cost per Case							
3				Hazard Group			
Claim Group	Α	В	С	D	E	F	G
PT	1,709,191	1,932,869	2,213,172	2,437,793	2,695,515	3,103,395	3,533,439



Exhibit 9.A - Hazard Group A

Excess Ratios

			LXCGS	3 Italios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELF	ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.979	0.994	0.857	0.749	0.144	0.674	0.675	n/a	0.566
\$15,000	0.969	0.991	0.799	0.667	0.103	0.607	0.610	n/a	0.511
\$20,000	0.959	0.988	0.749	0.601	0.083	0.555	0.558	n/a	0.468
\$25,000	0.949	0.985	0.704	0.545	0.070	0.512	0.515	n/a	0.432
\$30,000	0.939	0.982	0.664	0.498	0.062	0.475	0.479	n/a	0.401
\$35,000	0.930	0.980	0.628	0.458	0.057	0.444	0.448	n/a	0.375
\$40,000	0.921	0.977	0.595	0.424	0.052	0.416	0.421	n/a	0.352
\$50,000	0.903	0.971	0.539	0.367	0.046	0.371	0.376	n/a	0.315
\$75,000	0.860	0.956	0.432	0.275	0.037	0.292	0.298	n/a	0.250
\$100,000	0.819	0.942	0.357	0.218	0.032	0.242	0.249	n/a	0.208
\$125,000	0.782	0.928	0.302	0.179	0.028	0.207	0.213	n/a	0.179
\$150,000	0.746	0.914	0.259	0.150	0.026	0.180	0.187	n/a	0.157
\$175,000	0.713	0.900	0.226	0.129	0.024	0.159	0.166	n/a	0.139
\$200,000	0.683	0.886	0.199	0.112	0.022	0.143	0.150	n/a	0.126
\$225,000	0.654	0.873	0.177	0.098	0.020	0.129	0.136	n/a	0.114
\$250,000	0.627	0.860	0.159	0.087	0.019	0.118	0.125	n/a	0.105
\$275,000	0.602	0.847	0.143	0.078	0.018	0.109	0.115	n/a	0.097
\$300,000	0.578	0.835	0.130	0.070	0.017	0.101	0.107	n/a	0.090
\$325,000	0.556	0.823	0.119	0.063	0.016	0.094	0.100	n/a	0.084
\$350,000	0.535	0.811	0.109	0.058	0.015	0.088	0.094	n/a	0.079
\$375,000	0.515	0.799	0.100	0.053	0.015	0.082	0.089	n/a	0.074
\$400,000	0.497	0.788	0.092	0.048	0.014	0.078	0.084	n/a	0.070
\$425,000	0.479	0.777	0.086	0.045	0.013	0.073	0.079	n/a	0.067
\$450,000	0.463	0.766	0.080	0.041	0.013	0.070	0.076	n/a	0.063
\$475,000	0.447	0.756	0.074	0.038	0.012	0.066	0.072	n/a	0.060
\$500,000	0.432	0.745	0.069	0.035	0.012	0.063	0.069	n/a	0.058
\$600,000	0.380	0.706	0.054	0.027	0.010	0.053	0.059	n/a	0.049
\$700,000	0.338	0.671	0.044	0.021	0.009	0.046	0.051	n/a	0.043
\$800,000	0.303	0.639	0.036	0.017	0.008	0.040	0.046	n/a	0.038
\$900,000	0.273	0.609	0.030	0.014	0.008	0.036	0.041	n/a	0.034
\$1,000,000	0.248	0.582	0.026	0.012	0.007	0.033	0.038	n/a	0.031
\$2,000,000	0.122	0.395	0.008	0.003	0.004	0.017	0.020	n/a	0.017
\$3,000,000	0.078	0.288	0.004	0.001	0.002	0.011	0.014	n/a	0.012
\$4,000,000	0.056	0.219	0.002	0.001	0.002	0.008	0.011	n/a	0.009
\$5,000,000	0.042	0.170	0.001	0.000	0.001	0.006	0.008	n/a	0.007
\$6,000,000	0.033	0.134	0.001	0.000	0.001	0.005	0.007	n/a	0.006
\$7,000,000	0.027	0.107	0.001	0.000	0.001	0.004	0.005	n/a	0.005
\$8,000,000	0.022	0.087	0.001	0.000	0.001	0.003	0.005	n/a	0.004
\$9,000,000	0.019	0.071	0.000	0.000	0.001	0.002	0.004	n/a	0.003
\$10,000,000	0.016	0.058	0.000	0.000	0.001	0.002	0.003	n/a	0.003

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$447,562	0.009	0.0002	\$448,369	(A) Target Cost Ratio	n/a	1.0000
PT	\$1,709,191	0.029	0.0002	\$1,716,560	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$61,515	0.226	0.0327	\$61,517	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$29,502	0.556	0.1677	\$29,502	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,007	0.180	0.7992	\$2,008	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).



Exhibit 9.B - Hazard Group B

Excess Ratios

			Exces	5 Kalius				e	
Loss Limit	Fatal	PT	Likely PP/TT	Not Likely PP/TT	Med Only	Per Claim Average	Per Occurrence	Final* ELF (Vol. Rate)	Final* ELPPF (Adv. L/C)
\$10,000	0.980	0.995	0.874	0.772	0.137	0.728	0.729	n/a	0.611
\$15,000	0.970	0.992	0.822	0.695	0.098	0.666	0.667	n/a	0.559
\$20,000	0.961	0.990	0.776	0.631	0.079	0.615	0.617	n/a	0.517
\$25,000	0.952	0.987	0.734	0.577	0.067	0.572	0.575	n/a	0.482
\$30,000	0.943	0.984	0.697	0.531	0.060	0.535	0.538	n/a	0.451
\$35,000	0.934	0.982	0.663	0.492	0.054	0.503	0.506	n/a	0.424
\$40,000	0.925	0.979	0.631	0.457	0.050	0.475	0.478	n/a	0.401
\$50,000	0.908	0.974	0.577	0.399	0.045	0.427	0.431	n/a	0.362
\$75,000	0.867	0.961	0.471	0.302	0.036	0.343	0.349	n/a	0.292
\$100,000	0.828	0.948	0.395	0.242	0.031	0.288	0.294	n/a	0.247
\$125,000	0.792	0.936	0.338	0.201	0.027	0.249	0.256	n/a	0.214
\$150,000	0.758	0.923	0.293	0.170	0.025	0.220	0.226	n/a	0.190
\$175,000	0.726	0.911	0.258	0.147	0.023	0.196	0.203	n/a	0.170
\$200,000	0.696	0.899	0.229	0.128	0.021	0.178	0.184	n/a	0.155
\$225,000	0.668	0.887	0.205	0.113	0.020	0.162	0.169	n/a	0.142
\$250,000	0.642	0.875	0.185	0.101	0.018	0.149	0.156	n/a	0.131
\$275,000	0.617	0.863	0.168	0.091	0.017	0.138	0.145	n/a	0.122
\$300,000	0.594	0.852	0.153	0.082	0.016	0.129	0.135	n/a	0.114
\$325,000	0.572	0.841	0.140	0.074	0.015	0.120	0.127	n/a	0.107
\$350,000	0.551	0.830	0.129	0.068	0.015	0.113	0.120	n/a	0.100
\$375,000	0.532	0.819	0.119	0.062	0.014	0.107	0.113	n/a	0.095
\$400,000	0.513	0.809	0.111	0.057	0.013	0.101	0.108	n/a	0.090
\$425,000	0.496	0.799	0.103	0.053	0.013	0.096	0.103	n/a	0.086
\$450,000	0.479	0.789	0.096	0.049	0.012	0.091	0.098	n/a	0.082
\$475,000	0.464	0.779	0.090	0.046	0.012	0.087	0.094	n/a	0.079
\$500,000	0.449	0.769	0.084	0.043	0.011	0.084	0.090	n/a	0.075
\$600,000	0.396	0.733	0.066	0.033	0.010	0.071	0.077	n/a	0.065
\$700,000	0.353	0.699	0.054	0.026	0.009	0.062	0.068	n/a	0.057
\$800,000	0.318	0.669	0.045	0.021	0.008	0.056	0.061	n/a	0.051
\$900,000	0.287	0.640	0.038	0.018	0.007	0.050	0.056	n/a	0.047
\$1,000,000	0.262	0.614	0.032	0.015	0.007	0.046	0.051	n/a	0.043
\$2,000,000	0.130	0.428	0.010	0.004	0.003	0.025	0.029	n/a	0.024
\$3,000,000	0.083	0.319	0.005	0.002	0.002	0.017	0.021	n/a	0.017
\$4,000,000	0.060	0.247	0.003	0.001	0.002	0.012	0.016	n/a	0.013
\$5,000,000	0.045	0.196	0.002	0.001	0.001	0.010	0.013	n/a	0.011
\$6,000,000	0.036	0.157	0.001	0.000	0.001	0.008	0.010	n/a	0.009
\$7,000,000	0.029	0.128	0.001	0.000	0.001	0.006	0.008	n/a	0.007
\$8,000,000	0.024	0.105	0.001	0.000	0.001	0.005	0.007	n/a	0.006
** ***	0.020	0.087	0.001	0.000	0.001	0.004	0.006	n/a	0.005
\$9,000,000	0.020								

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$474,140	0.011	0.0003	\$475,070	(A) Target Cost Ratio	n/a	1.0000
PT	\$1,932,869	0.042	0.0002	\$1,942,901	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$71,336	0.241	0.0385	\$71,338	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$33,552	0.580	0.1967	\$33,552	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$1,883	0.126	0.7642	\$1,883	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).

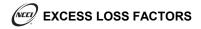


Exhibit 9.C - Hazard Group C

						_	_	Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELF	ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.981	0.995	0.891	0.796	0.150	0.776	0.777	n/a	0.651
\$15,000	0.972	0.993	0.845	0.724	0.107	0.719	0.720	n/a	0.603
\$20,000	0.963	0.991	0.804	0.664	0.085	0.671	0.673	n/a	0.564
\$25,000	0.955	0.989	0.766	0.613	0.073	0.631	0.633	n/a	0.530
\$30,000	0.946	0.986	0.731	0.568	0.064	0.595	0.598	n/a	0.501
\$35,000	0.938	0.984	0.699	0.529	0.058	0.564	0.567	n/a	0.475
\$40,000	0.929	0.982	0.670	0.494	0.054	0.536	0.539	n/a	0.452
\$50,000	0.913	0.977	0.618	0.437	0.047	0.488	0.492	n/a	0.412
\$75,000	0.874	0.966	0.515	0.336	0.038	0.402	0.407	n/a	0.341
\$100,000	0.838	0.955	0.439	0.272	0.033	0.344	0.350	n/a	0.293
\$125,000	0.803	0.944	0.380	0.227	0.029	0.302	0.308	n/a	0.258
\$150,000	0.771	0.933	0.334	0.194	0.026	0.270	0.277	n/a	0.232
\$175,000	0.740	0.922	0.296	0.169	0.024	0.245	0.251	n/a	0.211
\$200,000	0.711	0.911	0.265	0.148	0.022	0.224	0.231	n/a	0.193
\$225,000	0.684	0.900	0.239	0.132	0.021	0.207	0.214	n/a	0.179
\$250,000	0.658	0.890	0.217	0.118	0.020	0.192	0.199	n/a	0.167
\$275,000	0.634	0.880	0.198	0.107	0.018	0.180	0.187	n/a	0.156
\$300,000	0.611	0.869	0.182	0.097	0.017	0.169	0.176	n/a	0.147
\$325,000	0.590	0.859	0.168	0.088	0.017	0.159	0.166	n/a	0.139
\$350,000	0.569	0.850	0.155	0.081	0.016	0.151	0.158	n/a	0.132
\$375,000	0.550	0.840	0.144	0.075	0.015	0.143	0.150	n/a	0.126
\$400,000	0.532	0.830	0.134	0.069	0.014	0.137	0.143	n/a	0.120
\$425,000	0.514	0.821	0.125	0.064	0.014	0.131	0.137	n/a	0.115
\$450,000	0.498	0.812	0.117	0.059	0.013	0.125	0.132	n/a	0.110
\$475,000	0.482	0.803	0.110	0.055	0.013	0.120	0.127	n/a	0.106
\$500,000	0.468	0.794	0.103	0.052	0.012	0.115	0.122	n/a	0.102
\$600,000	0.415	0.760	0.082	0.040	0.011	0.100	0.107	n/a	0.090
\$700,000	0.371	0.729	0.068	0.032	0.010	0.089	0.096	n/a	0.080
\$800,000	0.335	0.700	0.056	0.027	0.009	0.081	0.087	n/a	0.073
\$900,000	0.304	0.673	0.048	0.022	0.008	0.074	0.080	n/a	0.067
\$1,000,000	0.277	0.647	0.041	0.019	0.007	0.068	0.074	n/a	0.062
\$2,000,000	0.139	0.464	0.014	0.006	0.004	0.039	0.044	n/a	0.037
\$3,000,000	0.089	0.354	0.007	0.002	0.003	0.028	0.032	n/a	0.027
\$4,000,000	0.064	0.280	0.004	0.001	0.002	0.021	0.025	n/a	0.021
\$5,000,000	0.049	0.226	0.002	0.001	0.001	0.016	0.020	n/a	0.017
\$6,000,000	0.039	0.185	0.002	0.001	0.001	0.013	0.017	n/a	0.014
\$7,000,000	0.031	0.153	0.001	0.000	0.001	0.011	0.014	n/a	0.012
\$8,000,000	0.026	0.127	0.001	0.000	0.001	0.009	0.012	n/a	0.010
\$9,000,000	0.022	0.107	0.001	0.000	0.001	0.008	0.010	n/a	0.008
\$10,000,000	0.019	0.090	0.001	0.000	0.001	0.006	0.009	n/a	0.007

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$506,043	0.017	0.0005	\$507,136	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,213,172	0.064	0.0005	\$2,227,299	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$84,291	0.248	0.0476	\$84,294	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$38,784	0.579	0.2415	\$38,784	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,099	0.092	0.7099	\$2,100	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).

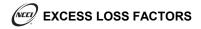


Exhibit 9.D - Hazard Group D

Excess Ratios

			LACES	5 Ratios				Fi 1*	F11+
Loss			Likely	Not Likely		Per	Per	Final* ELF	Final* ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.982	0.996	0.904	0.814	0.149	0.808	0.809	n/a	0.678
\$15,000	0.973	0.994	0.862	0.746	0.107	0.755	0.756	n/a	0.633
\$20,000	0.965	0.992	0.824	0.689	0.085	0.710	0.711	n/a	0.596
\$25,000	0.957	0.990	0.789	0.640	0.072	0.671	0.672	n/a	0.564
\$30,000	0.949	0.988	0.757	0.597	0.064	0.636	0.638	n/a	0.535
\$35,000	0.941	0.986	0.727	0.559	0.058	0.605	0.608	n/a	0.509
\$40,000	0.933	0.984	0.700	0.525	0.054	0.578	0.581	n/a	0.486
\$50,000	0.917	0.979	0.650	0.467	0.047	0.530	0.533	n/a	0.447
\$75,000	0.880	0.969	0.550	0.364	0.038	0.442	0.446	n/a	0.374
\$100,000	0.845	0.959	0.475	0.297	0.033	0.381	0.386	n/a	0.324
\$125,000	0.812	0.949	0.416	0.250	0.029	0.337	0.342	n/a	0.287
\$150,000	0.780	0.939	0.368	0.215	0.026	0.303	0.309	n/a	0.259
\$175,000	0.751	0.929	0.329	0.188	0.024	0.275	0.281	n/a	0.236
\$200,000	0.723	0.919	0.297	0.166	0.022	0.253	0.259	n/a	0.217
\$225,000	0.696	0.909	0.269	0.148	0.021	0.234	0.241	n/a	0.202
\$250,000	0.671	0.900	0.246	0.133	0.019	0.218	0.225	n/a	0.188
\$275,000	0.648	0.890	0.226	0.121	0.018	0.204	0.211	n/a	0.177
\$300,000	0.625	0.881	0.208	0.110	0.017	0.192	0.199	n/a	0.167
\$325,000	0.604	0.871	0.192	0.101	0.016	0.181	0.188	n/a	0.158
\$350,000	0.584	0.862	0.179	0.093	0.016	0.172	0.179	n/a	0.150
\$375,000	0.565	0.853	0.166	0.086	0.015	0.164	0.171	n/a	0.143
\$400,000	0.547	0.844	0.155	0.079	0.014	0.156	0.163	n/a	0.137
\$425,000	0.530	0.836	0.146	0.074	0.014	0.149	0.156	n/a	0.131
\$450,000	0.513	0.827	0.137	0.069	0.013	0.143	0.150	n/a	0.126
\$475,000	0.498	0.819	0.129	0.064	0.013	0.137	0.144	n/a	0.121
\$500,000	0.483	0.810	0.121	0.060	0.012	0.132	0.139	n/a	0.116
\$600,000	0.430	0.779	0.098	0.047	0.011	0.115	0.122	n/a	0.102
\$700,000	0.386	0.749	0.081	0.038	0.010	0.102	0.109	n/a	0.091
\$800,000	0.349	0.721	0.068	0.032	0.009	0.092	0.099	n/a	0.083
\$900,000	0.317	0.695	0.058	0.027	0.008	0.084	0.090	n/a	0.076
\$1,000,000	0.290	0.671	0.050	0.023	0.007	0.078	0.084	n/a	0.070
\$2,000,000	0.147	0.491	0.017	0.007	0.004	0.044	0.050	n/a	0.042
\$3,000,000	0.095	0.380	0.009	0.003	0.003	0.031	0.036	n/a	0.030
\$4,000,000	0.068	0.304	0.005	0.002	0.002	0.024	0.028	n/a	0.024
\$5,000,000	0.052	0.248	0.003	0.001	0.001	0.019	0.023	n/a	0.019
\$6,000,000	0.041	0.205	0.002	0.001	0.001	0.016	0.019	n/a	0.016
\$7,000,000	0.034	0.172	0.002	0.000	0.001	0.013	0.016	n/a	0.014
\$8,000,000	0.028	0.145	0.001	0.000	0.001	0.011	0.014	n/a	0.012
\$9,000,000	0.024	0.123	0.001	0.000	0.001	0.009	0.012	n/a	0.010
10,000,000	0.020	0.105	0.001	0.000	0.001	0.008	0.010	n/a	0.009

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$533,567	0.025	0.0010	\$534,813	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,437,793	0.065	0.0006	\$2,455,866	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$96,517	0.254	0.0544	\$96,522	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$43,624	0.588	0.2787	\$43,624	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,089	0.067	0.6654	\$2,089	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).



Exhibit 9.E - Hazard Group E

Excess Ratios

			_xooo	5 Ratios				e	
Loss			Likely	Not Likely		Per	Per	Final* ELF	Final* ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.983	0.996	0.918	0.834	0.158	0.845	0.846	n/a	0.709
\$15,000	0.975	0.994	0.881	0.773	0.112	0.799	0.800	n/a	0.670
\$20,000	0.967	0.993	0.848	0.719	0.089	0.760	0.761	n/a	0.637
\$25,000	0.959	0.991	0.816	0.673	0.076	0.725	0.726	n/a	0.609
\$30,000	0.952	0.989	0.787	0.632	0.067	0.694	0.696	n/a	0.583
\$35,000	0.944	0.987	0.760	0.595	0.060	0.666	0.668	n/a	0.560
\$40,000	0.937	0.985	0.735	0.562	0.056	0.641	0.643	n/a	0.539
\$50,000	0.922	0.981	0.688	0.505	0.049	0.596	0.599	n/a	0.502
\$75,000	0.887	0.972	0.593	0.401	0.039	0.512	0.515	n/a	0.432
\$100,000	0.854	0.963	0.520	0.330	0.034	0.452	0.456	n/a	0.382
\$125,000	0.822	0.954	0.461	0.280	0.030	0.407	0.412	n/a	0.345
\$150,000	0.792	0.945	0.413	0.243	0.027	0.372	0.377	n/a	0.316
\$175,000	0.764	0.936	0.372	0.214	0.025	0.344	0.349	n/a	0.293
\$200,000	0.737	0.927	0.339	0.190	0.023	0.320	0.326	n/a	0.273
\$225,000	0.711	0.918	0.309	0.171	0.022	0.300	0.306	n/a	0.257
\$250,000	0.687	0.909	0.284	0.155	0.020	0.283	0.289	n/a	0.242
\$275,000	0.664	0.900	0.262	0.141	0.019	0.268	0.274	n/a	0.230
\$300,000	0.642	0.891	0.243	0.129	0.018	0.255	0.261	n/a	0.219
\$325,000	0.622	0.883	0.226	0.118	0.017	0.243	0.250	n/a	0.209
\$350,000	0.602	0.874	0.211	0.109	0.016	0.232	0.239	n/a	0.200
\$375,000	0.583	0.866	0.197	0.101	0.016	0.223	0.230	n/a	0.192
\$400,000	0.565	0.858	0.185	0.094	0.015	0.214	0.221	n/a	0.185
\$425,000	0.548	0.850	0.174	0.088	0.014	0.207	0.213	n/a	0.179
\$450,000	0.532	0.842	0.164	0.082	0.014	0.199	0.206	n/a	0.173
\$475,000	0.517	0.834	0.155	0.077	0.013	0.193	0.200	n/a	0.167
\$500,000	0.502	0.826	0.147	0.073	0.013	0.187	0.194	n/a	0.162
\$600,000	0.449	0.797	0.120	0.058	0.011	0.166	0.173	n/a	0.145
\$700,000	0.405	0.768	0.100	0.047	0.010	0.150	0.157	n/a	0.132
\$800,000	0.367	0.742	0.084	0.039	0.009	0.138	0.145	n/a	0.121
\$900,000	0.335	0.717	0.072	0.033	0.008	0.128	0.134	n/a	0.113
\$1,000,000	0.307	0.694	0.063	0.028	0.008	0.119	0.126	n/a	0.105
\$2,000,000	0.158	0.518	0.023	0.009	0.004	0.073	0.079	n/a	0.066
\$3,000,000	0.102	0.407	0.012	0.004	0.003	0.053	0.059	n/a	0.049
\$4,000,000	0.074	0.329	0.007	0.002	0.002	0.042	0.047	n/a	0.039
\$5,000,000	0.056	0.272	0.005	0.001	0.002	0.034	0.038	n/a	0.032
\$6,000,000	0.045	0.228	0.003	0.001	0.001	0.028	0.032	n/a	0.027
\$7,000,000	0.036	0.193	0.002	0.001	0.001	0.023	0.027	n/a	0.023
\$8,000,000	0.030	0.164	0.002	0.000	0.001	0.020	0.024	n/a	0.020
\$9,000,000	0.026	0.141	0.001	0.000	0.001	0.017	0.020	n/a	0.017
310,000,000	0.022	0.121	0.001	0.000	0.001	0.014	0.018	n/a	0.015

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$570,309	0.041	0.0020	\$571,776	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,695,515	0.108	0.0011	\$2,718,911	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$114,398	0.247	0.0610	\$114,406	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$50,561	0.555	0.3104	\$50,561	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,231	0.049	0.6255	\$2,231	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).

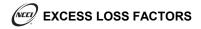


Exhibit 9.F - Hazard Group F

Excess Ratios

			EXCES						
Loss			Likely	Not Likely		Per	Per	Final* ELF	Final* ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.984	0.997	0.930	0.854	0.171	0.876	0.876	n/a	0.734
\$15,000	0.977	0.995	0.899	0.798	0.122	0.835	0.836	n/a	0.700
\$20,000	0.969	0.994	0.869	0.749	0.097	0.800	0.800	n/a	0.671
\$25,000	0.962	0.992	0.842	0.706	0.082	0.768	0.769	n/a	0.644
\$30,000	0.955	0.990	0.816	0.667	0.072	0.739	0.741	n/a	0.621
\$35,000	0.948	0.989	0.791	0.632	0.064	0.713	0.715	n/a	0.599
\$40,000	0.941	0.987	0.768	0.601	0.059	0.690	0.691	n/a	0.579
\$50,000	0.927	0.984	0.726	0.545	0.052	0.647	0.649	n/a	0.544
\$75,000	0.894	0.976	0.637	0.440	0.041	0.565	0.568	n/a	0.476
\$100,000	0.863	0.968	0.566	0.367	0.036	0.504	0.508	n/a	0.426
\$125,000	0.833	0.960	0.508	0.315	0.032	0.458	0.462	n/a	0.388
\$150,000	0.804	0.952	0.460	0.274	0.029	0.422	0.426	n/a	0.357
\$175,000	0.777	0.944	0.419	0.243	0.026	0.392	0.397	n/a	0.333
\$200,000	0.751	0.936	0.384	0.218	0.025	0.367	0.372	n/a	0.312
\$225,000	0.727	0.928	0.354	0.196	0.023	0.346	0.351	n/a	0.294
\$250,000	0.703	0.920	0.327	0.179	0.022	0.327	0.333	n/a	0.279
\$275,000	0.681	0.913	0.304	0.163	0.020	0.311	0.317	n/a	0.265
\$300,000	0.660	0.905	0.283	0.150	0.019	0.296	0.302	n/a	0.253
\$325,000	0.640	0.898	0.265	0.139	0.018	0.284	0.290	n/a	0.243
\$350,000	0.620	0.890	0.248	0.129	0.017	0.272	0.278	n/a	0.233
\$375,000	0.602	0.883	0.233	0.120	0.017	0.262	0.268	n/a	0.224
\$400,000	0.585	0.875	0.220	0.112	0.016	0.252	0.258	n/a	0.217
\$425,000	0.568	0.868	0.208	0.105	0.015	0.243	0.250	n/a	0.209
\$450,000	0.552	0.861	0.197	0.098	0.015	0.235	0.242	n/a	0.203
\$475,000	0.537	0.854	0.186	0.092	0.014	0.228	0.234	n/a	0.196
\$500,000	0.522	0.847	0.177	0.087	0.014	0.221	0.228	n/a	0.191
\$600,000	0.469	0.820	0.146	0.070	0.012	0.198	0.205	n/a	0.171
\$700,000	0.425	0.794	0.123	0.058	0.011	0.180	0.187	n/a	0.156
\$800,000	0.387	0.770	0.105	0.048	0.010	0.165	0.172	n/a	0.144
\$900,000	0.354	0.747	0.091	0.041	0.009	0.153	0.160	n/a	0.134
\$1,000,000	0.325	0.725	0.080	0.035	0.008	0.143	0.150	n/a	0.126
\$2,000,000	0.170	0.555	0.030	0.012	0.004	0.089	0.095	n/a	0.080
\$3,000,000	0.110	0.445	0.016	0.006	0.003	0.066	0.072	n/a	0.060
\$4,000,000	0.080	0.366	0.010	0.003	0.002	0.052	0.057	n/a	0.048
\$5,000,000	0.061	0.307	0.006	0.002	0.002	0.042	0.048	n/a	0.040
\$6,000,000	0.049	0.261	0.004	0.001	0.001	0.035	0.040	n/a	0.034
\$7,000,000	0.040	0.224	0.003	0.001	0.001	0.030	0.035	n/a	0.029
\$8,000,000	0.033	0.193	0.003	0.001	0.001	0.026	0.030	n/a	0.025
\$9,000,000	0.028	0.168	0.002	0.001	0.001	0.022	0.026	n/a	0.022
\$10,000,000	0.024	0.146	0.002	0.000	0.001	0.019	0.023	n/a	0.019

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$611,536	0.055	0.0038	\$613,279	(A) Target Cost Ratio	n/a	1.0000
PT	\$3,103,395	0.118	0.0016	\$3,137,132	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$136,660	0.248	0.0762	\$136,673	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$59,002	0.548	0.3905	\$59,002	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,467	0.031	0.5278	\$2.468	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).

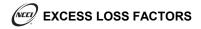


Exhibit 9.G - Hazard Group G

Excess Ratios

			LACES	3 Ratios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELF	ELPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.985	0.997	0.942	0.874	0.187	0.897	0.897	n/a	0.752
\$15,000	0.978	0.996	0.915	0.823	0.133	0.861	0.861	n/a	0.722
\$20,000	0.971	0.994	0.890	0.779	0.105	0.829	0.830	n/a	0.695
\$25,000	0.965	0.993	0.866	0.739	0.088	0.801	0.802	n/a	0.672
\$30,000	0.958	0.992	0.843	0.703	0.077	0.775	0.776	n/a	0.650
\$35,000	0.951	0.990	0.822	0.670	0.069	0.751	0.752	n/a	0.630
\$40,000	0.945	0.989	0.801	0.641	0.063	0.729	0.730	n/a	0.612
\$50,000	0.932	0.986	0.763	0.587	0.055	0.690	0.691	n/a	0.579
\$75,000	0.901	0.979	0.681	0.484	0.044	0.610	0.613	n/a	0.514
\$100,000	0.872	0.972	0.614	0.410	0.038	0.551	0.554	n/a	0.464
\$125,000	0.844	0.965	0.559	0.354	0.033	0.504	0.508	n/a	0.425
\$150,000	0.817	0.958	0.511	0.312	0.030	0.467	0.471	n/a	0.394
\$175,000	0.791	0.951	0.470	0.278	0.028	0.436	0.440	n/a	0.369
\$200,000	0.766	0.944	0.435	0.250	0.026	0.409	0.414	n/a	0.347
\$225,000	0.743	0.937	0.404	0.227	0.024	0.387	0.392	n/a	0.328
\$250,000	0.721	0.930	0.377	0.208	0.023	0.367	0.372	n/a	0.312
\$275,000	0.699	0.923	0.352	0.191	0.022	0.350	0.355	n/a	0.298
\$300,000	0.679	0.916	0.330	0.177	0.021	0.334	0.340	n/a	0.285
\$325,000	0.659	0.909	0.311	0.164	0.020	0.321	0.326	n/a	0.273
\$350,000	0.640	0.903	0.293	0.153	0.019	0.308	0.314	n/a	0.263
\$375,000	0.622	0.896	0.277	0.143	0.018	0.297	0.303	n/a	0.254
\$400,000	0.605	0.890	0.262	0.134	0.017	0.286	0.292	n/a	0.245
\$425,000	0.589	0.883	0.249	0.126	0.017	0.277	0.283	n/a	0.237
\$450,000	0.573	0.877	0.236	0.118	0.016	0.268	0.274	n/a	0.230
\$475,000	0.558	0.870	0.225	0.112	0.015	0.259	0.266	n/a	0.223
\$500,000	0.544	0.864	0.214	0.106	0.015	0.252	0.258	n/a	0.216
\$600,000	0.492	0.839	0.179	0.086	0.013	0.226	0.233	n/a	0.195
\$700,000	0.447	0.816	0.153	0.071	0.012	0.206	0.213	n/a	0.178
\$800,000	0.408	0.793	0.132	0.060	0.011	0.189	0.196	n/a	0.164
\$900,000	0.375	0.772	0.115	0.052	0.010	0.176	0.183	n/a	0.153
\$1,000,000	0.346	0.751	0.102	0.045	0.009	0.164	0.171	n/a	0.143
\$2,000,000	0.184	0.589	0.040	0.016	0.005	0.103	0.109	n/a	0.092
\$3,000,000	0.119	0.480	0.022	0.008	0.003	0.076	0.082	n/a	0.069
\$4,000,000	0.087	0.401	0.013	0.005	0.002	0.060	0.066	n/a	0.056
\$5,000,000	0.067	0.340	0.009	0.003	0.002	0.050	0.055	n/a	0.046
\$6,000,000	0.053	0.292	0.006	0.002	0.002	0.042	0.047	n/a	0.040
\$7,000,000	0.044	0.253	0.005	0.001	0.001	0.036	0.041	n/a	0.034
\$8,000,000	0.037	0.221	0.004	0.001	0.001	0.031	0.036	n/a	0.030
\$9,000,000	0.031	0.194	0.003	0.001	0.001	0.027	0.031	n/a	0.026
\$10,000,000	0.027	0.171	0.002	0.001	0.001	0.024	0.028	n/a	0.023

Claim	Average	Loss	Claim Count	Unlimited			Loss
Group	Cost/Case	Weight	Weight	Parameter		Voluntary	Cost
Fatal	\$660,372	0.066	0.0055	\$662,478	(A) Target Cost Ratio	n/a	1.0000
PT	\$3,533,439	0.122	0.0019	\$3,580,949	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$166,136	0.250	0.0826	\$166,157	(C) Assessment Factor	n/a	1.0000
Not Likely PP/TT	\$69,907	0.538	0.4234	\$69,908	(D) Expected Loss Ratio (ELR)	n/a	0.8380
Med Only	\$2,746	0.024	0.4866	\$2,747	= (A)/[(B)+(C)-1.000]		

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio (D).



Calculation of Excess Loss and Allocated Loss Adjustment Expense Factors (non-catastrophe)

Exhibit 10.A - Hazard Group A

			LACES	3 Ratios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELAEF	ELAEPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.980	0.995	0.866	0.766	0.175	0.689	0.691	n/a	0.638
\$15,000	0.970	0.992	0.810	0.686	0.129	0.623	0.626	n/a	0.578
\$20,000	0.960	0.989	0.760	0.620	0.105	0.571	0.574	n/a	0.530
\$25,000	0.951	0.986	0.716	0.565	0.091	0.528	0.531	n/a	0.491
\$30,000	0.941	0.984	0.676	0.518	0.081	0.491	0.494	n/a	0.457
\$35,000	0.932	0.981	0.640	0.478	0.074	0.459	0.463	n/a	0.427
\$40,000	0.923	0.978	0.607	0.443	0.069	0.431	0.435	n/a	0.402
\$50,000	0.906	0.973	0.549	0.385	0.061	0.384	0.389	n/a	0.360
\$75,000	0.864	0.959	0.440	0.290	0.051	0.304	0.310	n/a	0.286
\$100,000	0.824	0.946	0.363	0.231	0.044	0.252	0.258	n/a	0.239
\$125,000	0.787	0.933	0.307	0.191	0.040	0.216	0.222	n/a	0.205
\$150,000	0.753	0.919	0.264	0.162	0.036	0.188	0.195	n/a	0.180
\$175,000	0.720	0.906	0.230	0.139	0.034	0.167	0.174	n/a	0.161
\$200,000	0.690	0.894	0.203	0.122	0.031	0.150	0.157	n/a	0.145
\$225,000	0.662	0.881	0.180	0.108	0.030	0.136	0.143	n/a	0.132
\$250,000	0.635	0.869	0.162	0.096	0.028	0.125	0.131	n/a	0.121
\$275,000	0.610	0.857	0.146	0.086	0.027	0.115	0.122	n/a	0.112
\$300,000	0.586	0.845	0.132	0.078	0.025	0.106	0.113	n/a	0.104
\$325,000	0.564	0.834	0.121	0.071	0.024	0.099	0.106	n/a	0.098
\$350,000	0.543	0.822	0.110	0.065	0.023	0.093	0.099	n/a	0.092
\$375,000	0.523	0.811	0.102	0.059	0.022	0.087	0.093	n/a	0.086
\$400,000	0.505	0.801	0.094	0.055	0.021	0.082	0.088	n/a	0.082
\$425,000	0.487	0.790	0.087	0.050	0.020	0.078	0.084	n/a	0.078
\$450,000	0.471	0.780	0.081	0.047	0.020	0.074	0.080	n/a	0.074
\$475,000	0.455	0.770	0.075	0.044	0.019	0.070	0.076	n/a	0.070
\$500,000	0.440	0.760	0.070	0.041	0.018	0.067	0.073	n/a	0.067
\$600,000	0.387	0.722	0.054	0.031	0.016	0.056	0.062	n/a	0.057
\$700,000	0.344	0.688	0.043	0.025	0.015	0.049	0.054	n/a	0.050
\$800,000	0.308	0.657	0.035	0.020	0.013	0.043	0.048	n/a	0.044
\$900,000	0.278	0.628	0.029	0.017	0.012	0.038	0.043	n/a	0.040
\$1,000,000	0.253	0.601	0.025	0.014	0.011	0.034	0.039	n/a	0.036
\$2,000,000	0.123	0.414	0.007	0.004	0.006	0.018	0.021	n/a	0.020
\$3,000,000	0.077	0.306	0.003	0.002	0.004	0.012	0.015	n/a	0.014
\$4,000,000	0.055	0.235	0.002	0.001	0.003	0.009	0.011	n/a	0.010
\$5,000,000	0.041	0.185	0.001	0.001	0.003	0.007	0.009	n/a	0.008
\$6,000,000	0.032	0.148	0.001	0.000	0.002	0.005	0.007	n/a	0.007
\$7,000,000	0.026	0.120	0.001	0.000	0.002	0.004	0.006	n/a	0.006
\$8,000,000	0.021	0.098	0.000	0.000	0.002	0.003	0.005	n/a	0.005
\$9,000,000	0.018	0.080	0.000	0.000	0.001	0.003	0.004	n/a	0.004
\$10,000,000	0.015	0.066	0.000	0.000	0.001	0.002	0.004	n/a	0.003

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal .	\$472,805	0.009	0.0002	\$448,369	\$473,615	(A) Target Cost Ratio	n/a	1.0000
PT	\$1,836,962	0.028	0.0002	\$1,716,560	\$1,845,975	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$68,501	0.227	0.0327	\$61,517	\$68,503	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$32,695	0.554	0.1677	\$29,502	\$32,695	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,261	0.183	0.7992	\$2,008	\$2,261	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

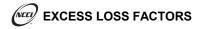


Exhibit 10.B - Hazard Group B

			LXCGS	3 Ratios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELAEF	ELAEPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.981	0.995	0.883	0.788	0.167	0.742	0.743	n/a	0.686
\$15,000	0.971	0.993	0.832	0.713	0.123	0.680	0.682	n/a	0.630
\$20,000	0.962	0.990	0.787	0.651	0.101	0.630	0.632	n/a	0.584
\$25,000	0.953	0.988	0.746	0.597	0.087	0.587	0.590	n/a	0.545
\$30,000	0.945	0.986	0.709	0.551	0.078	0.550	0.553	n/a	0.511
\$35,000	0.936	0.983	0.674	0.511	0.072	0.518	0.521	n/a	0.482
\$40,000	0.927	0.981	0.643	0.476	0.067	0.489	0.493	n/a	0.456
\$50,000	0.911	0.976	0.588	0.418	0.060	0.441	0.445	n/a	0.411
\$75,000	0.871	0.964	0.480	0.319	0.049	0.355	0.360	n/a	0.333
\$100,000	0.833	0.952	0.402	0.256	0.043	0.299	0.305	n/a	0.281
\$125,000	0.798	0.940	0.344	0.213	0.039	0.258	0.265	n/a	0.245
\$150,000	0.764	0.928	0.299	0.182	0.035	0.228	0.235	n/a	0.217
\$175,000	0.733	0.917	0.263	0.158	0.033	0.204	0.211	n/a	0.195
\$200,000	0.703	0.905	0.233	0.139	0.030	0.185	0.192	n/a	0.177
\$225,000	0.676	0.894	0.209	0.123	0.029	0.169	0.176	n/a	0.162
\$250,000	0.650	0.883	0.188	0.110	0.027	0.156	0.162	n/a	0.150
\$275,000	0.625	0.872	0.171	0.099	0.026	0.144	0.151	n/a	0.140
\$300,000	0.602	0.862	0.156	0.090	0.024	0.134	0.141	n/a	0.130
\$325,000	0.580	0.851	0.143	0.082	0.023	0.126	0.133	n/a	0.123
\$350,000	0.559	0.841	0.131	0.076	0.022	0.118	0.125	n/a	0.116
\$375,000	0.540	0.831	0.121	0.070	0.021	0.112	0.118	n/a	0.109
\$400,000	0.521	0.821	0.112	0.064	0.020	0.106	0.112	n/a	0.104
\$425,000	0.504	0.811	0.104	0.060	0.020	0.100	0.107	n/a	0.099
\$450,000	0.487	0.801	0.097	0.055	0.019	0.096	0.102	n/a	0.094
\$475,000	0.472	0.792	0.091	0.052	0.018	0.091	0.098	n/a	0.090
\$500,000	0.457	0.783	0.085	0.048	0.018	0.087	0.094	n/a	0.087
\$600,000	0.404	0.748	0.067	0.038	0.016	0.075	0.081	n/a	0.075
\$700,000	0.360	0.716	0.054	0.030	0.014	0.065	0.071	n/a	0.066
\$800,000	0.324	0.686	0.044	0.025	0.013	0.058	0.064	n/a	0.059
\$900,000	0.293	0.658	0.037	0.021	0.012	0.052	0.058	n/a	0.053
\$1,000,000	0.267	0.632	0.031	0.018	0.011	0.048	0.053	n/a	0.049
\$2,000,000	0.131	0.448	0.009	0.005	0.006	0.026	0.030	n/a	0.028
\$3,000,000	0.083	0.338	0.004	0.002	0.004	0.018	0.021	n/a	0.020
\$4,000,000	0.059	0.265	0.003	0.001	0.003	0.013	0.016	n/a	0.015
\$5,000,000	0.044	0.212	0.002	0.001	0.002	0.010	0.013	n/a	0.012
\$6,000,000	0.035	0.172	0.001	0.001	0.002	0.008	0.011	n/a	0.010
\$7,000,000	0.028	0.141	0.001	0.000	0.002	0.007	0.009	n/a	0.008
\$8,000,000	0.023	0.117	0.001	0.000	0.001	0.005	0.008	n/a	0.007
\$9,000,000	0.019	0.098	0.001	0.000	0.001	0.005	0.007	n/a	0.006
\$10,000,000	0.017	0.082	0.000	0.000	0.001	0.004	0.006	n/a	0.005

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal .	\$500,882	0.011	0.0003	\$475,070	\$501,816	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,077,361	0.041	0.0002	\$1,942,901	\$2,089,643	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$79,437	0.242	0.0385	\$71,338	\$79,439	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$37,183	0.579	0.1967	\$33,552	\$37,183	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,120	0.128	0.7642	\$1,883	\$2,121	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

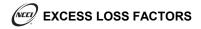


Exhibit 10.C - Hazard Group C

Fyress	Datine

			LACES	5 Ralius				e	F: 14
Loss Limit	Fatal	PT	Likely PP/TT	Not Likely PP/TT	Med Only	Per Claim Average	Per Occurrence	Final* ELAEF (Vol. Rate)	Final* ELAEPPF (Adv. L/C)
\$10,000	0.982	0.996	0.899	0.811	0.181	0.788	0.789	n/a	0.729
\$15,000	0.973	0.994	0.855	0.742	0.133	0.732	0.734	n/a	0.678
\$20.000	0.965	0.992	0.814	0.683	0.108	0.686	0.687	n/a	0.635
\$25,000	0.956	0.989	0.777	0.632	0.093	0.645	0.647	n/a	0.598
\$30,000	0.948	0.987	0.743	0.588	0.083	0.610	0.612	n/a	0.566
\$35,000	0.940	0.985	0.711	0.549	0.076	0.579	0.581	n/a	0.537
\$40,000	0.932	0.983	0.682	0.514	0.071	0.550	0.553	n/a	0.511
\$50,000	0.916	0.979	0.629	0.456	0.063	0.502	0.506	n/a	0.467
\$75,000	0.878	0.968	0.525	0.353	0.052	0.414	0.419	n/a	0.387
\$100,000	0.842	0.958	0.447	0.287	0.045	0.355	0.360	n/a	0.333
\$125,000	0.808	0.948	0.388	0.241	0.041	0.312	0.317	n/a	0.293
\$150,000	0.777	0.937	0.340	0.207	0.037	0.279	0.285	n/a	0.263
\$175,000	0.747	0.927	0.302	0.180	0.034	0.253	0.259	n/a	0.239
\$200,000	0.718	0.917	0.270	0.160	0.032	0.231	0.238	n/a	0.220
\$225,000	0.691	0.907	0.244	0.142	0.030	0.214	0.220	n/a	0.204
\$250,000	0.666	0.897	0.221	0.128	0.029	0.199	0.205	n/a	0.190
\$275,000	0.642	0.887	0.202	0.116	0.027	0.186	0.193	n/a	0.178
\$300,000	0.619	0.878	0.185	0.106	0.026	0.174	0.181	n/a	0.168
\$325,000	0.598	0.868	0.171	0.097	0.025	0.165	0.172	n/a	0.159
\$350,000	0.578	0.859	0.158	0.089	0.024	0.156	0.163	n/a	0.150
\$375,000	0.558	0.850	0.147	0.083	0.023	0.148	0.155	n/a	0.143
\$400,000	0.540	0.841	0.136	0.077	0.022	0.141	0.148	n/a	0.137
\$425,000	0.523	0.832	0.127	0.071	0.021	0.135	0.142	n/a	0.131
\$450,000	0.506	0.823	0.119	0.066	0.020	0.129	0.136	n/a	0.126
\$475,000	0.490	0.815	0.112	0.062	0.020	0.124	0.131	n/a	0.121
\$500,000	0.476	0.806	0.105	0.058	0.019	0.119	0.126	n/a	0.117
\$600,000	0.423	0.774	0.083	0.046	0.017	0.104	0.110	n/a	0.102
\$700,000	0.378	0.744	0.068	0.037	0.015	0.092	0.099	n/a	0.091
\$800,000	0.341	0.716	0.056	0.031	0.014	0.083	0.089	n/a	0.083
\$900,000	0.310	0.690	0.048	0.026	0.013	0.076	0.082	n/a	0.076
\$1,000,000	0.283	0.665	0.041	0.022	0.012	0.070	0.076	n/a	0.070
\$2,000,000	0.141	0.484	0.013	0.007	0.007	0.040	0.045	n/a	0.042
\$3,000,000	0.089	0.374	0.006	0.003	0.005	0.028	0.033	n/a	0.030
\$4,000,000	0.063	0.298	0.003	0.002	0.003	0.022	0.026	n/a	0.024
\$5,000,000	0.048	0.243	0.002	0.001	0.003	0.017	0.021	n/a	0.019
\$6,000,000	0.038	0.200	0.002	0.001	0.002	0.014	0.017	n/a	0.016
\$7,000,000	0.030	0.167	0.001	0.000	0.002	0.012	0.015	n/a	0.014
\$8,000,000	0.025	0.141	0.001	0.000	0.002	0.010	0.013	n/a	0.012
\$9,000,000	0.021	0.119	0.001	0.000	0.001	0.008	0.011	n/a	0.010
\$10,000,000	0.018	0.101	0.001	0.000	0.001	0.007	0.009	n/a	0.009

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal	\$534,584	0.016	0.0005	\$507,136	\$535,681	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,378,618	0.062	0.0005	\$2,227,299	\$2,395,935	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$93,863	0.249	0.0476	\$84,294	\$93,867	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$42,980	0.579	0.2415	\$38,784	\$42,981	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,364	0.094	0.7099	\$2,100	\$2,365	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).



Exhibit 10.D - Hazard Group D

Excess	Datia	_
Excess	Ratios	5

			LACES	5 Kalius				F:!+	F: 1+
Loss Limit	Fatal	PT	Likely PP/TT	Not Likely PP/TT	Med Only	Per Claim Average	Per Occurrence	Final* ELAEF (Vol. Rate)	Final* ELAEPPF (Adv. L/C)
\$10,000	0.983	0.996	0.911	0.828	0.180	0.819	0.820	n/a	0.758
\$15,000	0.974	0.994	0.871	0.763	0.133	0.768	0.769	n/a	0.710
\$20,000	0.966	0.992	0.834	0.708	0.108	0.723	0.725	n/a	0.670
\$25,000	0.958	0.990	0.800	0.660	0.093	0.685	0.687	n/a	0.634
\$30,000	0.950	0.989	0.769	0.617	0.083	0.651	0.653	n/a	0.603
\$35,000	0.943	0.987	0.739	0.579	0.076	0.620	0.622	n/a	0.575
\$40,000	0.935	0.985	0.712	0.545	0.070	0.592	0.595	n/a	0.550
\$50,000	0.920	0.981	0.662	0.487	0.063	0.544	0.547	n/a	0.506
\$75,000	0.884	0.971	0.561	0.382	0.051	0.454	0.458	n/a	0.424
\$100,000	0.849	0.962	0.484	0.313	0.045	0.392	0.397	n/a	0.367
\$125,000	0.817	0.952	0.424	0.264	0.041	0.347	0.352	n/a	0.325
\$150,000	0.786	0.943	0.375	0.228	0.037	0.311	0.317	n/a	0.293
\$175,000	0.757	0.934	0.335	0.200	0.034	0.283	0.289	n/a	0.267
\$200,000	0.730	0.924	0.302	0.178	0.032	0.260	0.267	n/a	0.246
\$225,000	0.704	0.915	0.274	0.159	0.030	0.241	0.247	n/a	0.229
\$250,000	0.679	0.906	0.250	0.144	0.029	0.224	0.231	n/a	0.214
\$275,000	0.655	0.897	0.230	0.131	0.027	0.210	0.217	n/a	0.201
\$300,000	0.633	0.888	0.212	0.120	0.026	0.198	0.205	n/a	0.189
\$325,000	0.612	0.880	0.196	0.110	0.025	0.187	0.194	n/a	0.179
\$350,000	0.592	0.871	0.182	0.102	0.024	0.177	0.184	n/a	0.170
\$375,000	0.573	0.863	0.169	0.094	0.023	0.169	0.176	n/a	0.162
\$400,000	0.555	0.854	0.158	0.088	0.022	0.161	0.168	n/a	0.155
\$425,000	0.538	0.846	0.148	0.082	0.021	0.154	0.161	n/a	0.149
\$450,000	0.521	0.838	0.139	0.077	0.020	0.148	0.154	n/a	0.143
\$475,000	0.506	0.830	0.131	0.072	0.020	0.142	0.149	n/a	0.137
\$500,000	0.491	0.822	0.123	0.067	0.019	0.136	0.143	n/a	0.132
\$600,000	0.438	0.792	0.099	0.054	0.017	0.119	0.125	n/a	0.116
\$700,000	0.393	0.763	0.081	0.044	0.015	0.105	0.112	n/a	0.104
\$800,000	0.356	0.736	0.068	0.036	0.014	0.095	0.101	n/a	0.094
\$900,000	0.324	0.711	0.058	0.031	0.013	0.087	0.093	n/a	0.086
\$1,000,000	0.296	0.688	0.050	0.026	0.012	0.080	0.086	n/a	0.079
\$2,000,000	0.149	0.511	0.016	0.008	0.007	0.046	0.051	n/a	0.047
\$3,000,000	0.094	0.399	0.008	0.004	0.005	0.032	0.037	n/a	0.034
\$4,000,000	0.067	0.322	0.005	0.002	0.003	0.025	0.029	n/a	0.027
\$5,000,000	0.051	0.266	0.003	0.001	0.003	0.020	0.024	n/a	0.022
\$6,000,000	0.040	0.222	0.002	0.001	0.002	0.016	0.020	n/a	0.018
\$7,000,000	0.033	0.187	0.001	0.001	0.002	0.014	0.017	n/a	0.016
\$8,000,000	0.027	0.159	0.001	0.000	0.002	0.011	0.015	n/a	0.013
\$9,000,000	0.023	0.136	0.001	0.000	0.001	0.010	0.013	n/a	0.012
310,000,000	0.019	0.117	0.001	0.000	0.001	0.008	0.011	n/a	0.010

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal	\$563,661	0.024	0.0010	\$534,813	\$564,911	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,620,031	0.063	0.0006	\$2,455,866	\$2,642,207	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$107,478	0.256	0.0544	\$96,522	\$107,483	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$48,345	0.589	0.2787	\$43,624	\$48,345	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,352	0.068	0.6654	\$2,089	\$2,353	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

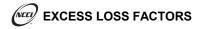


Exhibit 10.E - Hazard Group E

			LACES	s Ralius					
Loss Limit	Fatal	PT	Likely PP/TT	Not Likely PP/TT	Med Only	Per Claim Average	Per Occurrence	Final* ELAEF (Vol. Rate)	Final* ELAEPPF (Adv. L/C)
\$10,000	0.984	0.997	0.924	0.848	0.190	0.855	0.855	n/a	0.790
\$15,000	0.976	0.995	0.890	0.789	0.139	0.810	0.811	n/a	0.749
\$20.000	0.968	0.993	0.857	0.737	0.113	0.772	0.773	n/a	0.714
\$25,000	0.961	0.991	0.827	0.692	0.097	0.738	0.739	n/a	0.683
\$30,000	0.953	0.990	0.798	0.652	0.086	0.707	0.709	n/a	0.655
\$35,000	0.946	0.988	0.772	0.615	0.079	0.679	0.681	n/a	0.629
\$40,000	0.939	0.986	0.746	0.582	0.073	0.654	0.656	n/a	0.606
\$50,000	0.925	0.983	0.700	0.525	0.065	0.609	0.612	n/a	0.565
\$75,000	0.891	0.974	0.605	0.419	0.053	0.524	0.527	n/a	0.487
\$100,000	0.858	0.966	0.530	0.348	0.046	0.462	0.466	n/a	0.431
\$125,000	0.827	0.957	0.470	0.296	0.042	0.416	0.421	n/a	0.389
\$150,000	0.798	0.948	0.420	0.257	0.038	0.380	0.385	n/a	0.356
\$175,000	0.770	0.940	0.379	0.227	0.036	0.351	0.357	n/a	0.329
\$200,000	0.744	0.932	0.345	0.203	0.033	0.327	0.333	n/a	0.307
\$225,000	0.718	0.923	0.315	0.183	0.031	0.307	0.312	n/a	0.289
\$250,000	0.695	0.915	0.290	0.166	0.030	0.289	0.295	n/a	0.273
\$275,000	0.672	0.907	0.267	0.152	0.028	0.274	0.280	n/a	0.259
\$300,000	0.650	0.899	0.248	0.139	0.027	0.260	0.267	n/a	0.246
\$325,000	0.630	0.891	0.230	0.129	0.026	0.248	0.255	n/a	0.235
\$350,000	0.610	0.883	0.215	0.119	0.025	0.237	0.244	n/a	0.225
\$375,000	0.591	0.875	0.201	0.111	0.024	0.228	0.234	n/a	0.217
\$400,000	0.574	0.867	0.189	0.103	0.023	0.219	0.226	n/a	0.209
\$425,000	0.557	0.860	0.177	0.097	0.022	0.211	0.218	n/a	0.201
\$450,000	0.540	0.852	0.167	0.091	0.021	0.204	0.210	n/a	0.194
\$475,000	0.525	0.845	0.158	0.085	0.020	0.197	0.204	n/a	0.188
\$500,000	0.510	0.837	0.149	0.080	0.020	0.191	0.198	n/a	0.183
\$600,000	0.457	0.809	0.122	0.065	0.018	0.170	0.177	n/a	0.163
\$700,000	0.412	0.782	0.101	0.053	0.016	0.154	0.161	n/a	0.148
\$800,000	0.374	0.757	0.085	0.045	0.014	0.141	0.148	n/a	0.136
\$900,000	0.342	0.733	0.073	0.038	0.013	0.130	0.137	n/a	0.127
\$1,000,000	0.313	0.710	0.063	0.033	0.012	0.121	0.128	n/a	0.118
\$2,000,000	0.160	0.538	0.022	0.011	0.007	0.074	0.081	n/a	0.074
\$3,000,000	0.102	0.427	0.010	0.005	0.005	0.054	0.060	n/a	0.056
\$4,000,000	0.073	0.348	0.006	0.003	0.004	0.043	0.048	n/a	0.044
\$5,000,000	0.055	0.290	0.004	0.002	0.003	0.035	0.040	n/a	0.037
\$6,000,000	0.044	0.245	0.003	0.001	0.002	0.029	0.034	n/a	0.031
\$7,000,000	0.035	0.209	0.002	0.001	0.002	0.024	0.029	n/a	0.027
\$8,000,000	0.029	0.179	0.002	0.001	0.002	0.021	0.025	n/a	0.023
\$9,000,000	0.025	0.154	0.001	0.001	0.002	0.018	0.022	n/a	0.020
\$10,000,000	0.021	0.134	0.001	0.000	0.001	0.015	0.019	n/a	0.018

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal	\$602,475	0.039	0.0020	\$571,776	\$603,948	(A) Target Cost Ratio	n/a	1.0000
PT	\$2,897,019	0.105	0.0011	\$2,718,911	\$2,925,764	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$127,390	0.249	0.0610	\$114,406	\$127,398	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$56,032	0.557	0.3104	\$50,561	\$56,033	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,512	0.050	0.6255	\$2,231	\$2,513	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

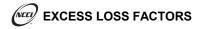


Exhibit 10.F - Hazard Group F

			LACES	3 Ratios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELAEF	ELAEPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.985	0.997	0.936	0.866	0.205	0.884	0.884	n/a	0.817
\$15,000	0.978	0.996	0.906	0.813	0.150	0.845	0.846	n/a	0.781
\$20,000	0.970	0.994	0.878	0.766	0.121	0.811	0.811	n/a	0.750
\$25,000	0.963	0.993	0.851	0.724	0.104	0.780	0.781	n/a	0.721
\$30,000	0.956	0.991	0.826	0.686	0.092	0.752	0.753	n/a	0.696
\$35,000	0.950	0.990	0.802	0.652	0.084	0.726	0.727	n/a	0.672
\$40,000	0.943	0.988	0.780	0.620	0.077	0.702	0.704	n/a	0.650
\$50,000	0.929	0.985	0.738	0.565	0.068	0.660	0.662	n/a	0.612
\$75,000	0.897	0.978	0.648	0.459	0.056	0.577	0.579	n/a	0.535
\$100,000	0.867	0.970	0.577	0.385	0.049	0.515	0.519	n/a	0.479
\$125,000	0.837	0.963	0.518	0.331	0.044	0.468	0.472	n/a	0.436
\$150,000	0.810	0.955	0.468	0.290	0.040	0.431	0.435	n/a	0.402
\$175,000	0.783	0.948	0.427	0.257	0.037	0.400	0.405	n/a	0.374
\$200,000	0.758	0.940	0.391	0.231	0.035	0.374	0.379	n/a	0.350
\$225,000	0.734	0.933	0.360	0.209	0.033	0.352	0.358	n/a	0.330
\$250,000	0.711	0.926	0.333	0.191	0.031	0.333	0.339	n/a	0.313
\$275,000	0.689	0.919	0.309	0.175	0.030	0.317	0.323	n/a	0.298
\$300,000	0.668	0.911	0.288	0.162	0.028	0.302	0.308	n/a	0.285
\$325,000	0.648	0.904	0.270	0.150	0.027	0.289	0.295	n/a	0.273
\$350,000	0.628	0.897	0.253	0.139	0.026	0.277	0.283	n/a	0.262
\$375,000	0.610	0.890	0.238	0.130	0.025	0.267	0.273	n/a	0.252
\$400,000	0.593	0.883	0.224	0.122	0.024	0.257	0.263	n/a	0.243
\$425,000	0.576	0.877	0.212	0.114	0.023	0.248	0.254	n/a	0.235
\$450,000	0.560	0.870	0.200	0.108	0.022	0.240	0.246	n/a	0.228
\$475,000	0.545	0.863	0.190	0.101	0.022	0.232	0.239	n/a	0.221
\$500,000	0.530	0.857	0.180	0.096	0.021	0.225	0.232	n/a	0.214
\$600,000	0.477	0.831	0.149	0.078	0.019	0.201	0.208	n/a	0.192
\$700,000	0.433	0.807	0.125	0.065	0.017	0.183	0.190	n/a	0.175
\$800,000	0.394	0.783	0.107	0.055	0.015	0.168	0.175	n/a	0.162
\$900,000	0.361	0.761	0.092	0.047	0.014	0.156	0.163	n/a	0.150
\$1,000,000	0.332	0.740	0.080	0.041	0.013	0.146	0.152	n/a	0.141
\$2,000,000	0.172	0.575	0.029	0.014	0.008	0.091	0.097	n/a	0.090
\$3,000,000	0.110	0.465	0.014	0.007	0.005	0.067	0.073	n/a	0.067
\$4,000,000	0.079	0.386	0.009	0.004	0.004	0.053	0.059	n/a	0.054
\$5,000,000	0.060	0.326	0.006	0.003	0.003	0.044	0.049	n/a	0.045
\$6,000,000	0.048	0.278	0.004	0.002	0.003	0.037	0.042	n/a	0.039
\$7,000,000	0.039	0.240	0.003	0.001	0.002	0.031	0.036	n/a	0.033
\$8,000,000	0.032	0.209	0.002	0.001	0.002	0.027	0.031	n/a	0.029
\$9,000,000	0.027	0.182	0.002	0.001	0.002	0.023	0.028	n/a	0.026
\$10,000,000	0.023	0.160	0.001	0.001	0.001	0.020	0.024	n/a	0.023

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal .	\$646,027	0.053	0.0038	\$613,279	\$647,778	(A) Target Cost Ratio	n/a	1.0000
PT	\$3,335,390	0.115	0.0016	\$3,137,132	\$3,376,931	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$152,180	0.250	0.0762	\$136,673	\$152,193	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$65,386	0.551	0.3905	\$59,002	\$65,387	(D) Assessment Factor	n/a	1.0000
Med Only	\$2,778	0.032	0.5278	\$2,468	\$2,779	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

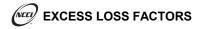


Exhibit 10.G - Hazard Group G

229	Dati	ine

			LACES	3 Italios				Final*	Final*
Loss			Likely	Not Likely		Per	Per	ELAEF	ELAEPPF
Limit	Fatal	PT	PP/TT	PP/TT	Med Only	Claim Average	Occurrence	(Vol. Rate)	(Adv. L/C)
\$10,000	0.986	0.997	0.947	0.884	0.222	0.904	0.904	n/a	0.835
\$15,000	0.979	0.996	0.922	0.837	0.163	0.870	0.870	n/a	0.804
\$20,000	0.973	0.995	0.898	0.795	0.131	0.839	0.840	n/a	0.776
\$25,000	0.966	0.993	0.875	0.756	0.112	0.812	0.812	n/a	0.751
\$30,000	0.959	0.992	0.853	0.721	0.099	0.786	0.787	n/a	0.727
\$35,000	0.953	0.991	0.832	0.689	0.089	0.763	0.764	n/a	0.706
\$40,000	0.947	0.989	0.812	0.660	0.082	0.741	0.743	n/a	0.686
\$50,000	0.934	0.987	0.775	0.607	0.072	0.702	0.704	n/a	0.650
\$75,000	0.904	0.980	0.693	0.504	0.059	0.622	0.625	n/a	0.577
\$100,000	0.876	0.974	0.626	0.429	0.051	0.562	0.565	n/a	0.522
\$125,000	0.848	0.967	0.569	0.372	0.046	0.514	0.518	n/a	0.478
\$150,000	0.822	0.961	0.521	0.328	0.042	0.476	0.480	n/a	0.443
\$175,000	0.797	0.954	0.479	0.293	0.039	0.444	0.448	n/a	0.414
\$200,000	0.773	0.948	0.443	0.265	0.037	0.417	0.422	n/a	0.390
\$225,000	0.749	0.941	0.412	0.241	0.035	0.394	0.399	n/a	0.369
\$250,000	0.727	0.935	0.384	0.221	0.033	0.374	0.379	n/a	0.350
\$275,000	0.706	0.928	0.359	0.204	0.031	0.356	0.362	n/a	0.334
\$300,000	0.686	0.922	0.336	0.189	0.030	0.341	0.346	n/a	0.320
\$325,000	0.667	0.916	0.316	0.176	0.029	0.326	0.332	n/a	0.307
\$350,000	0.648	0.909	0.298	0.164	0.027	0.314	0.319	n/a	0.295
\$375,000	0.630	0.903	0.282	0.154	0.026	0.302	0.308	n/a	0.285
\$400,000	0.613	0.897	0.267	0.144	0.025	0.291	0.297	n/a	0.275
\$425,000	0.597	0.891	0.253	0.136	0.025	0.282	0.288	n/a	0.266
\$450,000	0.581	0.885	0.241	0.128	0.024	0.273	0.279	n/a	0.258
\$475,000	0.566	0.879	0.229	0.121	0.023	0.264	0.271	n/a	0.250
\$500,000	0.552	0.873	0.218	0.115	0.022	0.256	0.263	n/a	0.243
\$600,000	0.500	0.850	0.183	0.095	0.020	0.230	0.237	n/a	0.219
\$700,000	0.455	0.827	0.155	0.079	0.018	0.210	0.216	n/a	0.200
\$800,000	0.416	0.806	0.134	0.068	0.017	0.193	0.200	n/a	0.185
\$900,000	0.382	0.785	0.117	0.058	0.015	0.179	0.186	n/a	0.172
\$1,000,000	0.353	0.766	0.103	0.051	0.014	0.167	0.174	n/a	0.161
\$2,000,000	0.186	0.608	0.040	0.019	0.008	0.104	0.111	n/a	0.103
\$3,000,000	0.120	0.500	0.020	0.010	0.006	0.077	0.084	n/a	0.077
\$4,000,000	0.086	0.420	0.012	0.006	0.004	0.062	0.068	n/a	0.062
\$5,000,000	0.066	0.359	0.008	0.004	0.004	0.051	0.057	n/a	0.052
\$6,000,000	0.052	0.311	0.006	0.003	0.003	0.043	0.048	n/a	0.045
\$7,000,000	0.043	0.271	0.004	0.002	0.002	0.037	0.042	n/a	0.039
\$8,000,000	0.036	0.238	0.003	0.001	0.002	0.032	0.037	n/a	0.034
\$9,000,000	0.030	0.210	0.003	0.001	0.002	0.028	0.033	n/a	0.030
\$10,000,000	0.026	0.186	0.002	0.001	0.002	0.025	0.029	n/a	0.027

Claim Group	Average Cost/Case	Loss Weight	Claim Count Weight	Unlimited Parameter	Unlimited Parameter incl. ALAE		Voluntary	Loss Cost
Fatal	\$697,618	0.063	0.0055	\$662,478	\$699,733	(A) Target Cost Ratio	n/a	1.0000
PT	\$3,797,583	0.119	0.0019	\$3,580,949	\$3,856,229	(B) Loss Adjustment Expense	n/a	1.1930
Likely PP/TT	\$185,003	0.252	0.0826	\$166,157	\$185,025	(C) Allocated LAE	n/a	1.1020
Not Likely PP/TT	\$77,472	0.541	0.4234	\$69,908	\$77,474	(D) Assessment Factor	n/a	1.0000
Med Only	\$3,093	0.025	0.4866	\$2,747	\$3,094	(E) Expected Loss Ratio x ALAE = $(A)x(C)/[(B)+(D)-1.000]$	n/a	0.9240

^{*} The final excess factors are equal to the per occurrence excess ratios multiplied by the appropriate Expected Loss Ratio x ALAE (E).

ATTACHMENT B PROPOSED AND CURRENT LOSS COSTS BY CLASS CODE

									Swing				
			Cost		Pe	rcent Chan		Loss Cost	Absolute	Max - Min	Payroll (1		
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>	
8810	0.12	0.11	0.11	0.11	-8.3%	0.0%	0.0%	0.04	8.33%	8.3%	266,583,997	276,621,758	
8742	0.25	0.24	0.25	0.24	-4.0%	4.2%	-4.0%	0.02	12.67%	8.2%	62,480,616	66,743,873	
8832	0.25	0.23	0.23	0.20	-8.0%	0.0%	-13.0%	0.09	22.09%	13.0%	39,494,429	40,842,115	
8868	0.37	0.38	0.39	0.36	2.7%	2.6%	-7.7%	0.03	13.51%	10.4%	36,697,133	37,687,118	
8855	0.15	0.14	0.14	0.13	-6.7%	0.0%	-7.1%	0.06	14.29%	7.1%	28,781,844	30,518,357	
8723	0.14	0.14	0.14	0.11	0.0%	0.0%	-21.4%	0.11	21.43%	21.4%	20,034,704	21,964,732	
8833	1.00	1.04	1.07	0.96	4.0%	2.9%	-10.3%	0.05	18.00%	14.3%	19,708,990	20,122,505	
8803	0.06	0.06	0.05	0.05	0.0%	-16.7%	0.0%	0.10	16.67%	16.7%	20,776,388	18,025,379	
9082	1.15	1.11	1.12	1.03	-3.5%	0.9%	-8.0%	0.05	12.80%	8.9%	16,479,495	16,727,798	
7219	6.54	6.43	6.38	5.70	-1.7%	-0.8%	-10.7%	0.06	13.39%	9.9%	12,624,490	13,459,655	
8820	0.14	0.13	0.11	0.10	-7.1%	-15.4%	-9.1%	0.15	34.87%	8.2%	12,553,533	13,407,433	
9083	0.92	0.91	0.97	0.92	-1.1%	6.6%	-5.2%	0.03	13.31%	11.7%	11,831,285	12,717,907	
8601	0.23	0.22	0.22	0.22	-4.3%	0.0%	0.0%	0.02	4.35%	4.3%	11,011,091	11,462,919	
8901	0.18	0.17	0.16	0.15	-5.6%	-5.9%	-6.3%	0.08	18.75%	0.7%	10,920,541	10,847,952	
3830	0.71	0.70	0.70	0.67	-1.4%	0.0%	-4.3%	0.02	5.75%	4.3%	9,338,774	10,225,549	
8037	1.75	1.61	1.72	1.58	-8.0%	6.8%	-8.1%	0.05	24.77%	15.0%	9,949,723	9,590,521	
8017	1.38	1.31	1.28	1.15	-5.1%	-2.3%	-10.2%	0.08	18.39%	7.9%	9,161,584	9,162,880	
8391	1.97	1.94	2.01	1.87	-1.5%	3.6%	-7.0%	0.03	12.51%	10.6%	8,388,318	8,665,576	
8835	1.90	1.76	1.74	1.67	-7.4%	-1.1%	-4.0%	0.05	12.96%	6.2%	5,932,084	6,557,120	
8861	1.16	1.14	1.25	1.09	-1.7%	9.6%	-12.8%	0.06	25.82%	22.4%	5,866,339	6,551,199	
5606	1.15	1.10	1.12	1.06	-4.3%	1.8%	-5.4%	0.03	11.94%	7.2%	5,466,731	5,999,046	
8018	2.12	2.19	2.31	2.25	3.3%	5.5%	-2.6%	0.04	11.79%	8.1%	5,668,336	5,946,720	
5190	2.50	2.50	2.49	2.21	0.0%	-0.4%	-11.2%	0.06	11.69%	11.2%	5,343,238	5,741,445	
7380	4.27	4.26	4.45	4.64	-0.2%	4.5%	4.3%	0.04	9.18%	4.7%	5,031,599	5,558,804	
8033	1.52	1.51	1.55	1.41	-0.7%	2.6%	-9.0%	0.04	12.66%	11.7%	5,452,137	5,377,406	
8603	0.06	0.06	0.07	0.06	0.0%	16.7%	-14.3%	0.08	33.33%	31.0%	5,072,703	5,108,245	
9014	2.27	2.43	2.27	2.11	7.0%	-6.6%	-7.0%	0.06	22.14%	14.1%	4,999,682	5,017,901	
9012	0.85	0.77	0.71	0.65	-9.4%	-7.8%	-8.5%	0.11	27.90%	1.6%	4,699,112	5,004,655	
4484	2.35	2.47	2.65	2.41	5.1%	7.3%	-9.1%	0.05	22.98%	16.3%	4,585,157	4,926,480	
3076	2.86	3.00	2.99	2.71	4.9%	-0.3%	-9.4%	0.05	15.10%	14.3%	5,007,821	4,813,108	
5183	2.75	2.65	2.59	2.46	-3.6%	-2.3%	-5.0%	0.05	11.30%	2.8%	4,403,481	4,768,112	
8871 9052	0.07 1.70	0.06 1.71	0.06	0.06	-14.3% 0.6%	0.0%	0.0%	0.08 0.06	14.29% 12.88%	14.3% 9.6%	3,116,084	4,499,294	
6504		2.29	1.66	1.51		-2.9% 1.7%	-9.0% 0.3%	0.06		9.6% 8.5%	4,595,055	4,445,310	
8045	2.31 0.50	0.54	2.25 0.52	2.04 0.47	-0.9% 8.0%	-1.7% -3.7%	-9.3% -9.6%	0.06	12.21% 22.77%	17.6%	4,309,722 4,434,065	4,443,474 4,386,759	
9015	2.68	2.66	2.73	2.62	-0.7%	-3.7% 2.6%	-9.6% -4.0%	0.06	7.56%	6.7%	3,923,390	4,386,739	
3632	2.86	2.80	2.73	2.57	-0.7%	0.4%	-4.0 <i>%</i> -8.5%	0.02	11.21%	8.9%	4,028,332	4,074,531	
5537	3.53	3.83	3.66	3.19	8.5%	-4.4%	-12.8%	0.03	27.87%	21.3%	3,906,367	3,929,936	
3681	0.77	0.73	0.72	0.62	-5.2%	-1.4%	-13.9%	0.08	21.45%	12.5%	3,200,660	3,769,972	
4511	0.39	0.73	0.40	0.36	5.1%	-2.4%	-10.0%	0.06	18.46%	15.1%	3,168,542	3,726,074	
8869	0.89	0.41	0.40	0.83	0.0%	0.0%	-6.7%	0.03	6.74%	6.7%	3,463,127	3,677,992	
8008	0.86	0.88	0.83	0.85	2.3%	3.4%	-6.6%	0.03	12.79%	10.0%	3,637,119	3,566,573	
7720	2.47	2.53	2.71	2.50	2.4%	7.1%	-7.7%	0.03	18.22%	14.9%	3,694,716	3,541,571	
8748	0.52	0.49	0.51	0.48	-5.8%	4.1%	-5.9%	0.04	16.56%	10.0%	3,342,328	3,521,051	
5191	0.65	0.66	0.69	0.70	1.5%	4.5%	1.4%	0.04	7.69%	3.1%	3,400,487	3,490,700	
4611	0.99	0.98	1.07	1.02	-1.0%	9.2%	-4.7%	0.04	15.44%	13.9%	3,066,941	3,488,815	
7600	3.11	3.04	3.14	3.07	-2.3%	3.3%	-2.2%	0.01	7.97%	5.5%	3,320,363	3,255,420	
5403	5.12	4.98	4.92	4.49	-2.7%	-1.2%	-8.7%	0.06	13.06%	7.5%	2,937,941	3,140,322	
8232	4.90	5.00	5.00	4.72	2.0%	0.0%	-5.6%	0.03	7.76%	7.6%	2,975,514	3,016,851	
8831	1.15	1.14	1.14	0.99	-0.9%	0.0%	-13.2%	0.07	14.14%	13.2%	2,668,226	2,924,685	
3724	3.27	3.20	3.19	3.13	-2.1%	-0.3%	-1.9%	0.02	4.39%	1.8%	2,542,469	2,898,425	
8006	1.61	1.58	1.60	1.53	-1.9%	1.3%	-4.4%	0.02	7.67%	5.6%	2,778,162	2,861,573	
5221	3.79	3.94	4.15	3.79	4.0%	5.3%	-8.7%	0.04	19.00%	14.0%	2,795,021	2,861,068	
9101	3.36	3.13	3.36	2.93	-6.8%	7.3%	-12.8%	0.06	29.37%	20.1%	2,697,997	2,785,563	
7610	0.37	0.39	0.41	0.39	5.4%	5.1%	-4.9%	0.04	16.22%	10.3%	2,845,344	2,768,101	
8010	1.56	1.53	1.60	1.60	-1.9%	4.6%	0.0%	0.02	6.59%	6.5%	2,742,818	2,726,836	
9102	2.71	2.50	2.48	2.26	-7.7%	-0.8%	-8.9%	0.07	18.25%	8.1%	2,435,098	2,575,602	
6217	3.84	3.40	3.15	2.73	-11.5%	-7.4%	-13.3%	0.14	35.61%	6.0%	2,377,460	2,572,315	
8046	2.13	2.06	2.09	2.04	-3.3%	1.5%	-2.4%	0.02	7.30%	4.7%	2,192,045	2,481,465	
					2.270	,.					_,,	.,,	

								Swing				
		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Max - Min	Payroll (10	00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	2019
4299	2.13	2.07	1.96	1.90	-2.8%	-5.3%	-3.1%	0.05	11.60%	2.5%	2,263,942	2,390,245
9063	0.72	0.69	0.76	0.68	-4.2%	10.1%	-10.5%	0.05	26.81%	20.7%	2,262,010	2,349,934
4825	0.72	0.72	0.72	0.67	0.0%	0.0%	-6.9%	0.04	6.94%	6.9%	2,183,200	2,277,590
5645	8.92	9.19	8.95	8.40	3.0%	-2.6%	-6.1%	0.04	12.21%	9.2%	2,302,360	2,270,483
7403	3.93	3.88	4.26	3.56	-1.3%	9.8%	-16.4%	0.07	29.46%	26.2%	2,146,330	2,215,593
8387	2.79	2.55	2.48	2.16	-8.6%	-2.7%	-12.9%	0.10	25.98%	10.2%	2,070,582	2,153,324
8058	2.23	2.33	2.49	2.33	4.5%	6.9%	-6.4%	0.05	18.83%	13.3%	1,974,099	2,131,443
2089	3.33	3.17	3.13	2.77	-4.8%	-1.3%	-11.5%	0.08	18.33%	10.2%	2,186,544	2,115,020
8107	2.44	2.35	2.32	2.14	-3.7%	-1.3%	-7.8%	0.05	13.16%	6.5%	1,999,771	2,091,839
8393	1.22	1.24	1.30	1.30	1.6%	4.8%	0.0%	0.03	6.56%	4.8%	1,983,339	2,050,468
5474	5.06	4.73	4.75	4.51	-6.5%	0.4%	-5.1%	0.05	12.38%	6.9%	1,918,313	1,992,460
2095	2.87	3.23	3.42	3.18	12.5%	5.9%	-7.0%	0.07	27.53%	19.6%	1,714,751	1,985,603
5445	4.42	4.38	3.97	3.43	-0.9%	-9.4%	-13.6%	0.11	25.36%	12.7%	1,792,945	1,959,482
4829	1.06	1.07	1.11	0.97	0.9%	3.7%	-12.6%	0.06	17.92%	16.4%	1,668,028	1,958,319
8061	1.66	1.61	1.55	1.45	-3.0%	-3.7%	-6.5%	0.06	13.74%	3.4%	1,819,651	1,931,102
5506	4.56	4.68	4.62	4.29	2.6%	-1.3%	-7.1%	0.04	11.37%	9.8%	1,910,702	1,930,244
3179	2.04	2.01	2.08	1.84	-1.5%	3.5%	-11.5%	0.05	17.12%	15.0%	1,922,409	1,880,886
3643	2.18	2.41	2.68	2.75	10.6%	11.2%	2.6%	0.10	26.15%	8.6%	1,935,098	1,849,507
4828	1.96	1.82	1.94	1.79	-7.1%	6.6%	-7.7%	0.05	23.04%	14.3%	1,365,040	1,799,815
8044	2.30	2.26	2.20	1.88	-1.7%	-2.7%	-14.5%	0.09	19.63%	12.8%	1,655,183	1,760,679
8824	2.32	1.88	1.91	1.67	-19.0%	1.6%	-12.6%	0.14	36.05%	20.6%	1,462,373	1,735,387
9044	0.88	0.88	0.90	0.83	0.0%	2.3%	-7.8%	0.03	10.23%	10.1%	1,641,392	1,670,288
9586	0.50	0.48	0.48	0.43	-4.0%	0.0%	-10.4%	0.06	14.83%	10.4%	1,620,778	1,669,015
8292	3.32	3.42	3.52	3.23	3.0%	2.9%	-8.2%	0.04	14.76%	11.3%	1,596,860	1,668,513
9403	6.58	6.79	6.87	6.13	3.2%	1.2%	-10.8%	0.05	15.65%	14.0%	1,385,486	1,568,871
3647	2.49	2.49	2.76	2.62	0.0%	10.8%	-5.1%	0.05	16.47%	15.9%	1,135,140	1,521,269
8826	1.62	1.74	1.87	1.76	7.4%	7.5%	-5.9%	0.06	22.22%	13.4%	1,370,394	1,490,128
5213	6.06	5.39	4.86	4.65	-11.1%	-9.8%	-4.3%	0.12	27.25%	6.7%	1,493,212	1,481,553
3685	1.22	1.16	1.09	0.96	-4.9%	-6.0%	-11.9%	0.10	24.52%	7.0%	1,357,602	1,443,653
2883	2.96	2.83	2.74	2.46	-4.4%	-3.2%	-10.2%	0.08	18.72%	7.0%	1,362,081	1,417,903
9060	1.11	1.06	1.12	1.10	-4.5%	5.7%	-1.8%	0.02	12.39%	10.2%	1,420,876	1,390,577
5437	3.91	4.04	4.45	4.01	3.3%	10.1%	-9.9%	0.06	25.06%	20.0%	1,329,660	1,381,071
3113	1.85	1.76	1.64	1.59	-4.9%	-6.8%	-3.0%	0.07	15.43%	3.8%	1,438,343	1,380,209
4771	2.51	2.52	2.52	2.46	0.4%	0.0%	-2.4%	0.01	2.79%	2.8%	334,143	1,368,889
8039	1.07	1.11	1.19	1.20	3.7%	7.2%	0.8%	0.06	12.15%	6.4%	1,056,295	1,345,124
7710	4.06	4.08	4.12	4.03	0.5%	1.0%	-2.2%	0.01	3.69%	3.2%	1,245,520	1,319,835
8013	0.32	0.32	0.34	0.32	0.0%	6.3%	-5.9%	0.03	12.50%	12.1%	1,338,764	1,318,783
5022	5.46	5.46	5.66	5.65	0.0%	3.7%	-0.2%	0.02	3.85%	3.8%	1,286,616	1,305,556
8227	2.93	2.85	2.90	2.81	-2.7%	1.8%	-3.1%	0.02	7.78%	4.9%	1,170,064	1,295,461
7705	3.83	3.76	3.79	3.29	-1.8%	0.8%	-13.2%	0.07	16.18%	14.0%	1,214,707	1,291,604
4410	2.95	2.88	3.06	2.85	-2.4%	6.3%	-6.9%	0.03	16.24%	13.1%	1,404,240	1,286,783
7382	4.32	4.07	4.14	4.08	-5.8%	1.7%	-1.4%	0.03	9.17%	7.5%	1,371,359	1,232,614
8720	1.19	1.04	1.02	0.97	-12.6%	-1.9%	-4.9%	0.09	20.40%	10.7%	1,063,427	1,180,546
4244	2.36	2.32	2.48	2.39	-1.7%	6.9%	-3.6%	0.03	12.65%	10.5%	1,065,506	1,146,573
4459	2.29	2.40	2.39	2.14	4.8%	-0.4%	-10.5%	0.05	16.25%	15.3%	1,103,493	1,140,268
8215	3.56	3.50	3.71	3.28	-1.7%	6.0%	-11.6%	0.05	20.28%	17.6%	1,113,854	1,091,238
5535	5.43	5.36	5.52	4.99	-1.3%	3.0%	-9.6%	0.04	14.33%	12.6%	964,396	1,060,440
2501	2.35	2.45	2.53	2.21	4.3%	3.3%	-12.6%	0.06	21.28%	16.9%	1,113,976	1,046,516
9058	1.41	1.33	1.39	1.32	-5.7%	4.5%	-5.0%	0.03	16.00%	10.2%	1,040,888	1,043,932
2585	3.14	3.08	2.94	2.77	-1.9%	-4.5%	-5.8%	0.06	12.70%	3.9%	1,070,479	1,032,088
9154	1.40	1.47	1.63	1.42	5.0%	10.9%	-12.9%	0.07	31.43%	23.8%	1,030,761	1,027,988
2121	1.28	1.18	1.26	1.15	-7.8%	6.8%	-8.7%	0.05	25.17%	15.5%	816,218	1,024,064
7538	5.51	5.13	5.10	4.08	-6.9%	-0.6%	-20.0%	0.12	29.03%	19.4%	781,649	1,021,858
7605	1.70	1.66	1.66	1.54	-2.4%	0.0%	-7.2%	0.04	9.75%	7.2%	953,794	1,018,954
3400	4.09	4.20	4.31	3.98	2.7%	2.6%	-7.7%	0.03	13.45%	10.3%	1,078,320	1,011,958
9040	3.25	3.29	3.38	3.07	1.2%	2.7%	-9.2%	0.04	13.54%	11.9%	873,196	1,003,281
7520	3.02	2.78	2.55	2.42	-7.9%	-8.3%	-5.1%	0.10	22.84%	3.2%	1,023,762	1,002,872
3030	4.25	4.32	4.48	4.28	1.6%	3.7%	-4.5%	0.02	10.12%	8.2%	839,145	1,001,745
4720	1.78	1.93	2.05	1.99	8.4%	6.2%	-2.9%	0.06	18.54%	11.4%	862,040	1,000,273

	Loss Cost		Pe	rcent Chan	ige	Loss Cost	Absolute	Swing Max - Min	=			
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	<u>Change</u>	2018	2019
3507	2.41	2.57	2.59	2.34	6.6%	0.8%	-9.7%	0.05	17.84%	16.3%	890,324	990,733
1164	4.59	4.39	4.25	3.71	-4.4%	-3.2%	-12.7%	0.09	21.37%	9.5%	880,843	979,574
6834	3.40	3.09	2.62	2.18	-9.1%	-15.2%	-16.8%	0.19	46.83%	7.7%	913,322	975,909
1624	3.33	2.90	2.46	2.45	-12.9%	-15.2%	-0.4%	0.15	30.57%	14.8%	866,759	972,033
2070	4.03	3.91	3.86	3.53	-3.0%	-1.3%	-8.5%	0.06	13.21%	7.3%	996,794	958,478
3629	1.62	1.51	1.48	1.39	-6.8%	-2.0%	-6.1%	0.06	15.53%	4.8%	933,329	957,161
3824	4.59	4.04	3.91	3.11	-12.0%	-3.2%	-20.5%	0.16	39.24%	17.2%	921,884	938,410
9110	2.82	2.62	2.52	2.37	-7.1%	-3.8%	-6.0%	0.07	17.80%	3.3%	904,155	925,774
0083	4.55	4.34	4.25	3.86	-4.6%	-2.1%	-9.2%	0.07	16.58%	7.1%	856,882	909,983
5551	13.75	13.67	14.25	11.90	-0.6%	4.2%	-16.5%	0.08	22.14%	20.7%	813,620	905,526
9084	1.20	1.12	1.16	1.08	-6.7%	3.6%	-6.9%	0.05	18.10%	10.5%	848,646	905,006
1701	3.10	3.08	2.94	2.72	-0.6%	-4.5%	-7.5%	0.06	13.09%	6.8%	856,510	897,825
0106	6.78	7.12	6.74	5.92	5.0%	-5.3%	-12.2%	0.08	24.08%	17.2%	721,994	893,090
8116	1.98	1.97	1.99	2.00	-0.5%	1.0%	0.5%	0.01	2.04%	1.5%	877,510	857,253
8293	7.75	7.18	7.09	6.01	-7.4%	-1.3%	-15.2%	0.10	25.26%	14.0%	826,655	844,988
8350	5.36	5.32	5.23	4.65	-0.7%	-1.7%	-11.1%	0.06	13.81%	10.3%	768,075	833,278
7539	2.05	1.69	1.62	1.53	-17.6%	-4.1%	-5.6%	0.13	29.23%	13.4%	536,725	797,508
3612	2.01	1.97	1.96	1.84	-2.0%	-0.5%	-6.1%	0.04	8.78%	5.6%	725,583	795,333
2003	3.63	3.52	3.65	3.28	-3.0%	3.7%	-10.1%	0.05	17.67%	13.8%	738,283	767,071
0042	5.34	5.32	5.69	5.33	-0.4%	7.0%	-6.3%	0.03	14.15%	13.3%	677,173	744,630
2014	4.50	4.52	4.62	4.28	0.4%	2.2%	-7.4%	0.03	10.22%	9.6%	740,966	720,216
2157	6.25	5.97	5.32	4.31	-4.5%	-10.9%	-19.0%	0.16	37.85%	14.5%	709,316	716,482
8002	1.58	1.62	1.78	1.71	2.5%	9.9%	-3.9%	0.05	17.09%	13.8%	614,729	715,537
6325	3.06	2.83	2.80	2.65	-7.5%	-1.1%	-5.4%	0.06	14.48%	6.5%	601,593	709,704
5478	5.57	5.05	4.41	3.80	-9.3%	-12.7%	-13.8%	0.16	40.23%	4.5%	619,735	677,384
6319	3.63	3.42	3.30	3.10	-5.8%	-3.5%	-6.1%	0.07	16.13%	2.6%	555,867	668,382
8111	1.57	1.54	1.52	1.50	-1.9%	-1.3%	-1.3%	0.02	4.59%	0.6%	670,382	656,942
4361	0.76	0.71	0.67	0.61	-6.6%	-5.6%	-9.0%	0.09	22.67%	3.3%	746,309	655,100
4452	2.73	2.59	2.47	2.27	-5.1%	-4.6%	-8.1%	0.08	18.91%	3.5%	631,243	644,347
3146	2.19	2.22	2.25	1.95	1.4%	1.4%	-13.3%	0.06	16.44%	14.7%	444,986	637,225
7231	7.46	6.91	6.99	6.50	-7.4%	1.2%	-7.0%	0.06	16.23%	8.5%	518,188	635,884
5348	3.88	3.73	3.50	3.12	-3.9%	-6.2%	-10.9%	0.09	22.24%	7.0%	676,263	625,804
7230	6.20	6.01	6.30	6.00	-3.1%	4.8%	-4.8%	0.02	13.18%	9.6%	366,248	623,474
8755	0.37	0.31	0.30	0.28	-16.2%	-3.2%	-6.7%	0.12	27.96%	13.0%	604,627	622,808
4273	2.32	2.27	2.34	2.12	-2.2%	3.1%	-9.4%	0.04	15.21%	12.5%	644,740	614,509
3574	2.09	1.72	2.08	2.18	-17.7%	20.9%	4.8%	0.10	49.18%	38.6%	1,467,737	612,653
5192	2.13	2.19	2.55	2.48	2.8%	16.4%	-2.7%	0.09	23.00%	19.2%	545,002	593,137
5188	2.50	2.64	2.58	2.32	5.6%	-2.3%	-10.1%	0.06	18.88%	15.7%	548,196	591,429
3085	4.37	4.41	4.61	4.34	0.9%	4.5%	-5.9%	0.03	11.67%	10.4%	624,796	583,336
9062	1.28	1.16	1.20	1.08	-9.4%	3.4%	-10.0%	0.07	24.46%	13.4%	92,644	576,198
3620	3.68	3.69	3.64	3.28	0.3%	-1.4%	-9.9%	0.05	11.68%	10.2%	546,839	574,980
7405	1.26	1.19	1.22	1.08	-5.6%	2.5%	-11.5%	0.07	20.63%	14.0%	891,314	574,861
9522	3.08	3.60	4.35	4.74	16.9%	20.8%	9.0%	0.19	53.90%	11.9%	354,200	573,141
0037	3.25	3.02	2.99	2.85	-7.1%	-1.0%	-4.7%	0.05	13.20%	6.1%	516,031	571,499
9620	1.02	1.01	1.05	1.10	-1.0%	4.0%	4.8%	0.04	9.98%	5.7%	527,209	564,953
8385	1.71	1.68	1.86	1.82	-1.8%	10.7%	-2.2%	0.05	15.08%	12.9%	566,506	561,683
8370	3.43	3.45	3.52	3.46	0.6%	2.0%	-1.7%	0.01	4.37%	3.7%	503,368	561,480
9402	3.81	3.87	4.17	3.98	1.6%	7.8%	-4.6%	0.04	14.44%	12.3%	525,603	559,803
9182	1.63	1.67	1.75	1.72	2.5%	4.8%	-1.7%	0.03	9.20%	6.5%	526,654	559,244
4243	2.06	2.06	2.21	1.95	0.0%	7.3%	-11.8%	0.05	19.90%	19.0%	528,667	551,309
5215	4.89	4.87	4.86	4.47	-0.4%	-0.2%	-8.0%	0.04	8.69%	7.8%	536,178	548,591
6306	5.42	4.92	4.53	4.20	-9.2%	-7.9%	-7.3%	0.11	26.47%	1.9%	496,709	538,729
9519	3.30	3.15	3.34	2.99	-4.5%	6.0%	-10.5%	0.05	22.47%	16.5%	474,050	533,075
8106	3.87	4.17	4.56	4.32	7.8%	9.4%	-5.3%	0.07	24.03%	14.6%	506,224	529,640
0034	2.25	2.41	2.62	2.49	7.1%	8.7%	-5.0%	0.06	22.22%	13.7%	480,850	492,747
4558	1.79	1.71	1.72	1.55	-4.5%	0.6%	-9.9%	0.06	15.47%	10.5%	460,416	470,601
9016	2.74	2.85	2.83	2.53	4.0%	-0.7%	-10.6%	0.05	15.85%	14.6%	431,316	470,535
5160	2.16	2.02	1.96	1.64	-6.5%	-3.0%	-16.3%	0.11	27.55%	13.4%	425,156	465,013
5102	5.49	5.20	4.96	4.68	-5.3%	-4.6%	-5.6%	0.07	16.36%	1.0%	416,529	463,515

									Swing			
		Loss	Cost		Pe	rcent Chan	nge	Loss Cost	Absolute	Max - Min	Payroll (1	
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
3634	1.65	1.54	1.50	1.40	-6.7%	-2.6%	-6.7%	0.07	16.73%	4.1%	487,492	457,779
2111	2.15	2.06	1.98	1.81	-4.2%	-3.9%	-8.6%	0.07	17.52%	4.7%	363,152	457,455
2039	2.49	2.50	2.68	2.48	0.4%	7.2%	-7.5%	0.04	15.66%	14.7%	427,493	454,806
9516	3.07	2.63	2.35	2.07	-14.3%	-10.6%	-11.9%	0.17	41.58%	3.7%	465,572	452,879
5057	3.69	3.66	4.34	4.27	-0.8%	18.6%	-1.6%	0.09	21.47%	20.2%	367,382	437,744
4279	2.16	2.24	2.33	2.33	3.7%	4.0%	0.0%	0.04	7.87%	4.0%	341,103	424,745
2731	3.49	3.68	3.47	3.01	5.4%	-5.7%	-13.3%	0.08	26.24%	18.7%	409,352	416,030
8015	0.78	0.73	0.68	0.59	-6.4%	-6.8%	-13.2%	0.12	28.75%	6.8%	375,450	413,865
4034	6.77	6.33	6.28	5.87	-6.5%	-0.8%	-6.5%	0.06	14.35%	5.7%	398,026	410,481
8047	0.97	0.84	0.77	0.68	-13.4%	-8.3%	-11.7%	0.15	37.21%	5.1%	446,868	404,983
8001	1.74	1.88	1.95	1.74	8.0%	3.7%	-10.8%	0.06	24.14%	18.8%	398,020	402,684
5146	4.56	4.38	4.46	3.97	-3.9%	1.8%	-11.0%	0.06	17.47%	12.8%	386,755	397,377
8021	2.83	2.67	2.69	2.28	-5.7%	0.7%	-15.2%	0.09	22.67%	16.0%	403,684	394,848
1438	11.66	12.64	12.78	11.16	8.4%	1.1%	-12.7%	0.06	23.50%	21.1%	295,545	390,265
8856	0.26	0.30	0.36	0.40	15.4%	20.0%	11.1%	0.19	53.85%	8.9%	396,928	388,360
9156	2.04	2.10	2.19	2.00	2.9%	4.3%	-8.7%	0.04	16.67%	13.0%	420,251	383,505
7515	1.03	0.99	0.95	0.86	-3.9%	-4.0%	-9.5%	0.08	18.32%	5.6%	357,489	376,160
5462	5.37	4.99	4.67	3.88	-7.1%	-6.4%	-16.9%	0.13	33.22%	10.5%	338,706	372,881
3227	3.00	2.89	2.83	2.75	-3.7%	-2.1%	-2.8%	0.04	8.81%	1.6%	300,731	371,275
3028	3.79	3.60	3.71	3.40	-5.0%	3.1%	-8.4%	0.05	17.26%	11.4%	192,548	366,315
8800	1.30	1.23	1.21	1.08	-5.4%	-1.6%	-10.7%	0.08	18.60%	9.1%	414,247	362,815
8728	0.34	0.37	0.41	0.42	8.8%	10.8%	2.4%	0.10	23.53%	8.4%	483,232	359,941
7390	5.19	4.84	4.54	4.21	-6.7%	-6.2%	-7.3%	0.09	21.60%	1.1%	357,291	357,101
3257	2.50	2.47	2.48	2.17	-1.2%	0.4%	-12.5%	0.07	14.31%	12.9%	413,677	354,738
7421	0.51	0.55	0.58	0.56	7.8%	5.5%	-3.4%	0.05	17.65%	11.3%	345,832	353,210
8392	2.17	2.12	2.10	1.82	-2.3%	-0.9%	-13.3%	0.08	17.04%	12.4%	346,897	351,868
7580	2.17	2.23	2.50	2.17	2.8%	12.1%	-13.2%	0.07	30.41%	25.3%	310,382	345,479
1642	2.47	2.43	2.60	2.61	-1.6%	7.0%	0.4%	0.04	9.15%	8.6%	221,769	337,376
8265	4.68	4.13	4.13	3.73	-11.8%	0.0%	-9.7%	0.09	22.58%	11.8%	308,365	334,039
2802	4.92	4.92	4.88	4.57	0.0%	-0.8%	-6.4%	0.04	7.22%	6.4%	322,298	330,124
3300	3.92	3.93	4.28	4.46	0.3%	8.9%	4.2%	0.06	13.78%	8.7%	346,189	329,974
3220 4114	2.22 3.29	2.15 3.11	2.19 3.11	2.00 2.73	-3.2% -5.5%	1.9% 0.0%	-8.7% -12.2%	0.05 0.08	14.19% 18.36%	10.5% 12.2%	283,325	328,718
2660	2.70	2.70	2.83	2.73	0.0%	4.8%	-12.2%	0.08	15.93%		313,206	327,416
9033	1.66	1.73	2.83 1.71	2.55 1.59	4.2%	4.8% -1.2%	-10.6% -7.0%	0.03	12.82%	15.4%	265,003	326,626
8032	1.74	1.73	1.71	1.66	-2.3%	2.9%	-7.0% -5.1%	0.04	10.72%	11.2% 8.1%	316,271 344,297	324,168 321,701
4583	3.95	4.08	4.43	4.22	3.3%	8.6%	-3.1% -4.7%	0.02	17.47%	13.3%	304,754	321,701
4692	0.81	0.82	0.86	0.78	1.2%	4.9%	-4.7 <i>%</i> -9.3%	0.03	16.05%	14.2%	296,451	319,864
9061	1.45	1.30	1.25	1.09	-10.3%	-3.8%	-12.8%	0.12	29.26%	9.0%	322,767	316,473
7425	2.51	2.02	1.82	1.49	-10.5%	-9.9%	-12.6%	0.12	55.17%	9.6%	263,934	308,013
3881	3.77	3.69	3.57	3.24	-2.1%	-3.3%	-9.2%	0.07	15.19%	7.1%	197,796	303,923
1925	3.23	3.25	3.35	3.06	0.6%	3.1%	-8.7%	0.04	12.69%	11.7%	285,772	302,474
3040	5.18	4.84	4.76	4.23	-6.6%	-1.7%	-11.1%	0.04	20.39%	9.5%	290,156	301,783
2759	6.19	6.08	5.91	5.23	-1.8%	-2.8%	-11.5%	0.07	16.66%	9.7%	315,694	299,454
7225	6.15	6.02	7.28	7.68	-2.1%	20.9%	5.5%	0.12	30.27%	23.0%	176,366	291,900
8353	3.31	3.21	3.44	3.24	-3.0%	7.2%	-5.8%	0.03	16.82%	13.0%	262,169	291,699
8721	0.25	0.25	0.26	0.25	0.0%	4.0%	-3.8%	0.02	8.00%	7.8%	254,205	288,679
7855	3.09	3.10	3.17	2.84	0.3%	2.3%	-10.4%	0.05	13.27%	12.7%	270,051	284,317
2016	2.93	2.88	2.84	2.55	-1.7%	-1.4%	-10.2%	0.06	13.65%	8.8%	246,791	283,276
4635	3.01	2.94	2.77	2.39	-2.3%	-5.8%	-13.7%	0.10	23.09%	11.4%	348,178	282,452
8304	3.57	4.03	4.26	4.16	12.9%	5.7%	-2.3%	0.08	22.13%	15.2%	267,651	273,760
7232	6.66	6.86	7.53	6.87	3.0%	9.8%	-8.8%	0.05	22.97%	18.5%	308,032	271,098
6233	1.79	1.89	2.07	2.03	5.6%	9.5%	-1.9%	0.07	17.88%	11.5%	172,497	268,206
3241	3.24	2.74	2.60	2.32	-15.4%	-5.1%	-10.8%	0.14	34.40%	10.3%	300,108	267,055
3188	2.31	2.16	2.19	2.00	-6.5%	1.4%	-8.7%	0.06	17.34%	10.1%	270,958	267,033
8291	3.01	2.89	2.99	2.80	-4.0%	3.5%	-6.4%	0.03	14.42%	9.8%	291,865	264,787
3821	4.67	4.46	4.57	4.16	-4.5%	2.5%	-9.0%	0.05	16.68%	11.4%	258,621	261,545
9501	2.83	2.84	2.99	2.78	0.4%	5.3%	-7.0%	0.03	13.07%	12.3%	238,259	260,438
7431	0.94	0.99	1.04	0.89	5.3%	5.1%	-14.4%	0.07	26.60%	19.7%	236,558	252,254
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								Swing				
		Loss	Cost		Pe	rcent Char	ige	Loss Cost	Absolute	Max - Min	Payroll (10	00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	2019
7360	3.73	3.66	3.73	3.34	-1.9%	1.9%	-10.5%	0.05	14.68%	12.4%	336,705	251,108
3807	2.00	2.02	2.28	2.05	1.0%	12.9%	-10.1%	0.06	25.50%	23.0%	222,545	249,963
8072	0.52	0.51	0.51	0.43	-1.9%	0.0%	-15.7%	0.09	17.91%	15.7%	254,751	248,979
1472	2.55	2.68	2.74	2.80	5.1%	2.2%	2.2%	0.04	9.80%	2.9%	226,639	248,694
4557	2.09	2.00	2.23	2.22	-4.3%	11.5%	-0.4%	0.05	16.82%	15.8%	230,195	247,704
8799	0.41	0.35	0.36	0.36	-14.6%	2.9%	0.0%	0.07	17.91%	17.5%	247,646	245,064
3180	2.78	2.64	2.65	2.58	-5.0%	0.4%	-2.6%	0.03	8.22%	5.4%	222,390	237,797
8602	0.82	0.96	1.11	1.00	17.1%	15.6%	-9.9%	0.12	48.78%	27.0%	195,785	236,449
3808	3.55	3.50	3.59	3.39	-1.4%	2.6%	-5.6%	0.02	9.81%	8.1%	326,249	236,323
9093	1.26	1.23	1.16	1.02	-2.4%	-5.7%	-12.1%	0.09	21.27%	9.7%	232,463	235,251
3372	3.41	3.13	2.99	2.66	-8.2%	-4.5%	-11.0%	0.10	25.53%	6.6%	158,036	230,448
8102	2.03	1.92	2.01	1.75	-5.4%	4.7%	-12.9%	0.07	24.64%	17.6%	197,122	229,081
3365	3.47	3.31	3.28	3.19	-4.6%	-0.9%	-2.7%	0.04	8.46%	3.7%	296,511	227,039
8264	4.63	4.52	4.43	3.99	-2.4%	-2.0%	-9.9%	0.06	14.78%	7.9%	235,491	226,395
3303	1.98	2.01	2.04	1.85	1.5%	1.5%	-9.3%	0.04	12.63%	10.8%	255,363	221,374
5222	6.85	6.74	6.70	6.23	-1.6%	-0.6%	-7.0%	0.04	9.38%	6.4%	261,292	220,956
0917	3.67	3.39	3.31	3.24	-7.6%	-2.4%	-2.1%	0.06	12.50%	5.5%	175,754	220,769
6400	4.49	5.06	4.94	4.65	12.7%	-2.4%	-5.9%	0.05	22.14%	18.6%	203,337	217,867
3726	3.32	3.18	3.25	3.17	-4.2%	2.2%	-2.5%	0.02	9.13%	6.4%	226,003	214,053
2002 1699	2.80 2.80	2.91 2.56	3.08 2.50	3.02 2.21	3.9% -8.6%	5.8% -2.3%	-1.9% -11.6%	0.04 0.10	12.14% 24.01%	7.8% 9.3%	224,260 192,836	211,928 211,533
4703	1.96	1.91	1.87	1.76	-2.6%	-2.3% -2.1%	-5.9%	0.10	10.86%	3.8%	189,722	211,333
5507	3.21	3.20	3.28	3.14	-0.3%	2.5%	-4.3%	0.03	7.21%	6.8%	170,856	211,338
9410	2.75	2.63	2.71	2.60	-4.4%	3.0%	-4.1%	0.02	11.90%	7.4%	210,689	208,993
2881	3.12	2.93	2.78	2.60	-6.1%	-5.1%	-6.5%	0.03	18.74%	1.4%	218,987	207,616
9180	3.95	3.85	3.87	3.69	-2.5%	0.5%	-4.7%	0.03	7.86%	5.2%	211,831	207,101
4902	2.60	2.39	2.34	2.15	-8.1%	-2.1%	-8.1%	0.08	19.30%	6.0%	125,907	202,582
3803	1.73	2.00	2.28	2.18	15.6%	14.0%	-4.4%	0.12	37.57%	20.0%	182,178	197,045
4693	0.75	0.82	0.92	0.92	9.3%	12.2%	0.0%	0.10	22.67%	12.2%	146,235	196,966
4283	1.42	1.38	1.28	1.20	-2.8%	-7.2%	-6.3%	0.08	17.16%	4.4%	221,402	196,172
4304	6.45	5.73	5.07	4.40	-11.2%	-11.5%	-13.2%	0.16	40.35%	2.1%	236,165	192,952
8034	2.09	1.92	2.01	1.85	-8.1%	4.7%	-8.0%	0.05	22.21%	12.8%	207,880	192,291
2589	1.91	1.88	1.96	1.89	-1.6%	4.3%	-3.6%	0.02	9.67%	7.8%	197,809	191,798
2130	1.72	1.68	1.72	1.60	-2.3%	2.4%	-7.0%	0.03	12.07%	9.4%	205,956	190,793
0005	2.98	2.84	2.90	2.54	-4.7%	2.1%	-12.4%	0.07	20.18%	14.5%	175,222	190,470
9521	3.53	3.29	3.45	3.12	-6.8%	4.9%	-9.6%	0.05	22.71%	14.4%	183,284	190,221
8031	2.03	1.98	2.01	1.89	-2.5%	1.5%	-6.0%	0.03	10.23%	7.5%	188,559	183,634
4149	0.86	0.82	0.77	0.71	-4.7%	-6.1%	-7.8%	0.08	19.68%	3.1%	173,629	181,645
1803	7.08	7.16	7.24	6.98	1.1%	1.1%	-3.6%	0.02	5.93%	4.7%	175,706	178,866
9220	3.62	3.45	3.53	3.33	-4.7%	2.3%	-5.7%	0.04	13.19%	8.0%	179,998	177,762
9534	4.17	4.02	3.99	3.74	-3.6%	-0.7%	-6.3%	0.04	10.91%	5.5%	169,394	174,374
5479	6.44	6.14	6.14	5.81	-4.7%	0.0%	-5.4%	0.04	10.28%	5.4%	168,359	174,079
0035	1.88	2.07	2.03	1.79	10.1%	-1.9%	-11.8%	0.07	25.50%	21.9%	181,933	173,701
0050	4.46	4.48	4.55	4.33	0.4%	1.6%	-4.8%	0.02	6.95%	6.4%	157,934	173,355
1430	5.15	5.40	5.22	4.95	4.9%	-3.3%	-5.2%	0.04	13.95%	10.0%	186,536	172,793
9554	8.04	7.50	7.40	6.64	-6.7%	-1.3%	-10.3%	0.08	19.25%	8.9%	186,348	171,233
7370	4.50	4.12	4.02	3.62	-8.4%	-2.4%	-10.0%	0.09	22.13%	7.5%	150,342	167,131
6836	3.19	3.02	3.09	2.80	-5.3%	2.3%	-9.4%	0.05	17.88%	11.7%	162,068	163,191
4130	3.17	3.09	3.03	2.78	-2.5%	-1.9%	-8.3%	0.06	13.14%	6.3%	156,853 133,566	161,935
1463	9.29	9.01	8.77	7.81	-3.0%	-2.7%	-10.9%	0.07	17.33%	8.3%	•	160,651
6825 5223	2.95 5.78	2.74 5.27	2.58	2.07	-7.1% -8.8%	-5.8% -5.7%	-19.8% -17.9%	0.15	35.78%	13.9%	155,418	155,418
5223 4018	5.78 4.87	5.27 4.95	4.97 5.34	4.08 5.11	-8.8% 1.6%	-5.7% 7.0%	-17.9% -4.3%	0.14 0.04	35.62%	12.2%	141,231 156,589	150,264 148,705
5951	0.34	0.35	0.39	5.11 0.40	1.6% 2.9%	7.9% 11.4%	-4.3% 2.6%	0.04	14.37% 17.65%	12.2% 8.9%	38,201	148,705
7711	4.06	4.08	0.39 4.12	4.03	2.9% 0.5%	1.0%	-2.2%	0.08	3.69%	8.9% 3.2%	38,201 155,177	147,966
7502	3.06	2.47	2.07	1.50	-19.3%	-16.2%	-2.2 <i>%</i> -27.5%	0.01	76.76%	11.3%	84,731	146,945
6204	9.45	8.43	7.30	6.07	-10.8%	-13.4%	-16.8%	0.19	46.82%	6.1%	137,008	146,915
4251	3.36	3.28	3.41	3.41	-2.4%	4.0%	0.0%	0.02	6.44%	6.3%	148,058	143,877
3022	3.54	3.44	3.28	2.85	-2.8%	-4.7%	-13.1%	0.09	21.71%	10.3%	136,717	143,794
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	Loss Cost		Percent Change			Loss Cost	Absolute	Swing Max - Min Payroll (100's)				
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
4000	4.89	4.50	3.99	3.50	-8.0%	-11.3%	-12.3%	0.14	34.98%	4.3%	173,835	141,983
8288	6.94	6.89	6.96	6.16	-0.7%	1.0%	-11.5%	0.06	13.44%	12.5%	145,159	141,938
2388	1.50	1.52	1.55	1.37	1.3%	2.0%	-11.6%	0.05	15.33%	13.6%	95,244	140,447
4686	2.61	2.41	2.16	1.89	-7.7%	-10.4%	-12.5%	0.14	33.69%	4.8%	134,366	139,568
3638	1.79	1.88	2.18	2.15	5.0%	16.0%	-1.4%	0.10	23.46%	17.3%	149,464	139,419
3064	3.16	3.32	3.45	3.35	5.1%	3.9%	-2.9%	0.04	12.34%	8.0%	147,299	136,188
2143	2.05	2.17	2.31	2.17	5.9%	6.5%	-6.1%	0.05	19.51%	12.5%	126,190	136,066
5040	11.95	11.04	9.71	8.20	-7.6%	-12.0%	-15.6%	0.16	39.33%	7.9%	130,019	131,423
3270	3.67	3.65	3.62	3.23	-0.5%	-0.8%	-10.8%	0.06	12.29%	10.2%	154,153	130,894
7590	2.70	2.59	2.62	2.47	-4.1%	1.2%	-5.7%	0.04	11.31%	6.9%	126,450	130,649
8235	3.54	3.54	3.58	3.22	0.0%	1.1%	-10.1%	0.05	11.30%	11.2%	127,599	130,256
6251	3.42	3.06	2.90	2.73	-10.5%	-5.2%	-5.9%	0.10	23.12%	5.3%	81,624	130,152
1924	3.84	3.58	3.32	2.72	-6.8%	-7.3%	-18.1%	0.14	35.22%	11.3%	96,273	123,910
3826	1.02	1.00	1.07	0.91	-2.0%	7.0%	-15.0%	0.07	25.41%	22.0%	123,855	117,818
2021	1.86	2.06	2.49	2.57	10.8%	20.9%	3.2%	0.15	38.17%	17.7%	102,411	114,120
3548	1.44	1.43	1.48	1.40	-0.7%	3.5%	-5.4%	0.02	9.85%	8.9%	29,206	113,526
3334	1.86	1.80	1.79	1.64	-3.2%	-0.6%	-8.4%	0.05	12.50%	7.8%	105,217	111,013
3145	2.31	2.26	2.33	1.99	-2.2%	3.1%	-14.6%	0.07	20.70%	17.7%	120,429	108,471
6229	4.03	3.91	4.14	4.13	-3.0%	5.9%	-0.2%	0.03	9.30%	8.9%	96,852	108,062
2305	2.44	2.26	2.18	2.04	-7.4%	-3.5%	-6.4%	0.07	18.32%	3.8%	99,437	107,515
4109	0.56	0.55	0.57	0.52	-1.8%	3.6%	-8.8%	0.04	14.74%	12.4%	88,907	103,951
9179	16.95	17.37	17.95	16.04	2.5%	3.3%	-10.6%	0.05	17.17%	14.0%	89,250	103,792
3581	1.16	1.22	1.27	1.13	5.2%	4.1%	-11.0%	0.05	21.55%	16.2%	67,303	102,563
7422	2.12	1.73	1.52	1.23	-18.4%	-12.1%	-19.1%	0.23	58.10%	6.9%	98,765	101,431
9505	3.99	3.98	3.87	3.24	-0.3%	-2.8%	-16.3%	0.09	19.79%	16.0%	95,533	101,180
4470	2.10	2.17	2.15	2.04	3.3%	-0.9%	-5.1%	0.03	9.62%	8.4%	89,371	100,135
3081	3.85	3.95	4.27	3.84	2.6%	8.1%	-10.1%	0.05	22.08%	18.2%	102,361	94,109
4101	2.35	2.22	2.21	1.95	-5.5%	-0.5%	-11.8%	0.08	18.48%	11.3%	98,258	93,956
5610	4.73	4.25	3.68	3.63	-10.1%	-13.4%	-1.4%	0.13	26.62%	12.1%	127,606	93,798
2710	13.52	12.46	12.62	11.52	-7.8%	1.3%	-8.7%	0.07	18.75%	10.0%	129,721	92,704
9178	10.78	10.14	10.32	9.48	-5.9%	1.8%	-8.1%	0.05	16.59%	9.9%	111,418	92,050
5020	4.51	4.23	4.07	3.54	-6.2%	-3.8%	-13.0%	0.10	24.58%	9.2%	86,170	89,875
3336	2.78	2.63	2.72	2.34	-5.4%	3.4%	-14.0%	0.07	24.23%	17.4%	87,932	88,819
2288	3.68	3.55	3.84	3.65	-3.5%	8.2%	-4.9%	0.03	17.53%	13.1%	102,587	88,279
4239	1.79	1.90	2.01	1.85	6.1%	5.8%	-8.0%	0.05	21.23%	14.1%	90,397	87,833
3648	1.43	1.46	1.55	1.39	2.1%	6.2%	-10.3%	0.05	19.58%	16.5%	94,392	87,308
3635	2.13	2.10	2.08	1.79	-1.4%	-1.0%	-13.9%	0.08	16.65%	13.0%	52,178	86,984
5059	25.77	24.30	23.46	18.39	-5.7%	-3.5%	-21.6%	0.14	32.99%	18.2%	58,420	86,943
8500	4.83	4.60	4.61	4.30	-4.8%	0.2%	-6.7%	0.05	12.05%	6.9%	88,584	85,899
2131	2.21	2.22	2.34	2.15	0.5%	5.4%	-8.1%	0.04	14.48%	13.5%	86,494	85,703
4741	2.14	2.22	2.31	2.17	3.7%	4.1%	-6.1%	0.03	14.49%	10.1%	80,853	85,022
5473	7.13	6.81	6.85	6.35	-4.5%	0.6%	-7.3%	0.05	12.77%	7.9%	101,666	84,887
4717	1.99	2.05	2.11	1.92	3.0%	2.9%	-9.0%	0.04	15.58%	12.0%	79,869	83,833
4307	1.70	1.68	1.79	1.74	-1.2%	6.5%	-2.8%	0.03	10.81%	9.3%	83,489	82,962
3169	2.08	2.22	2.48	2.17	6.7%	11.7%	-12.5%	0.08	34.13%	24.2%	74,896	81,327
4250	1.68	1.68	1.72	1.69	0.0%	2.4%	-1.7%	0.01	4.17%	4.1%	88,457	81,285
8203	5.89	5.92	5.86	5.57	0.5%	-1.0%	-4.9%	0.03	6.55%	5.5%	78,032	80,394
3373	4.62	4.45	4.37	4.35	-3.7%	-1.8%	-0.5%	0.03	6.03%	3.2%	75,282	79,142
8381	2.31	2.10	2.06	1.88	-9.1%	-1.9%	-8.7%	0.08	20.88%	7.2%	78,251	78,683
3307	3.58	3.27	2.92	2.48	-8.7%	-10.7%	-15.1%	0.15	38.42%	6.4%	74,091	77,692
0401	10.31	10.47	10.77	8.89	1.6%	2.9%	-17.5%	0.08	22.70%	20.3%	66,858	76,644
2688	2.71	2.42	2.30	2.15	-10.7%	-5.0%	-6.5%	0.10	23.77%	5.7%	62,642	75,385
0036	7.39	6.61	5.93	4.73	-10.6%	-10.3%	-20.2%	0.18	46.60%	9.9%	83,665	73,199
4240	3.49	3.48	3.37	2.90	-0.3%	-3.2%	-13.9%	0.08	17.89%	13.7%	76,927	71,582
5472	5.09	4.55	4.36	4.75	-10.6%	-4.2%	8.9%	0.07	25.53%	19.6%	84,931	71,466
8000	2.60	2.53	2.39	2.13	-2.7%	-5.5%	-10.9%	0.09	20.16%	8.2%	72,044	69,822
4777	4.05	3.89	3.86	3.26	-4.0%	-0.8%	-15.5%	0.09	21.04%	14.8%	55,415	65,144
4740	0.89	0.98	1.01	0.96	10.1%	3.1%	-5.0%	0.05	19.10%	15.1%	84,049	64,460
4683	3.73	3.58	3.60	3.31	-4.0%	0.6%	-8.1%	0.05	13.03%	8.6%	54,677	62,893

										Swing		
		Loss	Cost		Pe	rcent Chan	nge	Loss Cost	Absolute	Max - Min	Payroll (1	00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	2018	2019
8263	4.58	4.33	4.58	4.53	-5.5%	5.8%	-1.1%	0.03	12.77%	11.2%	31,958	62,581
2586	2.22	2.50	2.78	2.68	12.6%	11.2%	-3.6%	0.10	29.73%	16.2%	60,762	61,529
3559	2.32	2.36	2.35	2.12	1.7%	-0.4%	-9.8%	0.05	12.15%	11.5%	56,885	60,562
2651	2.13	2.21	2.23	1.86	3.8%	0.9%	-16.6%	0.08	22.07%	20.3%	75,814	56,805
3383	1.48	1.51	1.55	1.37	2.0%	2.6%	-11.6%	0.05	16.89%	14.3%	32,741	55,904
3110	4.71	4.21	4.19	3.69	-10.6%	-0.5%	-11.9%	0.10	24.40%	11.5%	46,634	52,882
1747	1.69	1.95	1.99	2.05	15.4%	2.1%	3.0%	0.08	21.30%	13.3%	46,192	49,295
8279	5.21	5.01	5.10	4.92	-3.8%	1.8%	-3.5%	0.02	9.43%	5.6%	45,079	48,938
2790	1.62	1.63	1.80	1.85	0.6%	10.4%	2.8%	0.07	14.20%	9.8%	34,714	47,222
5480	5.17	5.08	4.91	4.58	-1.7%	-3.3%	-6.7%	0.05	12.21%	5.0%	53,295	45,510
6503	1.98	1.96	2.00	1.92	-1.0%	2.0%	-4.0%	0.02	7.19%	6.0%	34,731	44,543
3018	5.08	4.37	3.87	3.02	-14.0%	-11.4%	-22.0%	0.21	54.91%	10.5%	45,812	44,270
4036	2.62	2.40	2.25	2.22	-8.4%	-6.3%	-1.3%	0.08	16.71%	7.1%	47,994	43,949
8204	3.20	3.36	3.36	3.01	5.0%	0.0%	-10.4%	0.05	15.94%	15.4%	40,664	43,395
2041	2.46	2.47	2.54	2.36	0.4%	2.8%	-7.1%	0.03	10.57%	9.9%	64,450	43,278
3865	1.85	2.05	2.47	2.71	10.8%	20.5%	9.7%	0.17	46.49%	10.8%	49,865	43,125
3082	4.60	4.61	4.76	4.26	0.2%	3.3%	-10.5%	0.05	14.35%	13.8%	48,570	40,863
4110	1.28	1.21	1.16	1.02	-5.5%	-4.1%	-12.1%	0.09	23.08%	7.9%	47,566	40,502
3851	3.40	2.69	2.38	2.04	-20.9%	-11.5%	-14.3%	0.22	54.07%	9.4%	248,517	38,151
9170	9.68	10.34	10.85	10.05	6.8%	4.9%	-7.4%	0.05	20.35%	14.2%	40,968	36,534
4352	1.62	1.65	1.66	1.49	1.9%	0.6%	-10.2%	0.05	12.96%	12.1%	25,588	35,654
3114	3.06	3.25	3.35	3.09	6.2%	3.1%	-7.8%	0.04	17.97%	14.0%	55,022	34,801
3719	1.17	1.04	0.95	0.76	-11.1%	-8.7%	-20.0%	0.18	44.87%	11.3%	12,536	34,557
2570	3.87	3.77	3.86	3.64	-2.6%	2.4%	-5.7%	0.03	11.02%	8.1%	29,367	34,289
3126	1.27	1.31	1.36	1.30	3.1%	3.8%	-4.4%	0.03	11.81%	8.2%	35,706	33,853
4263	3.59	3.32	3.36	3.26	-7.5%	1.2%	-3.0%	0.04	12.05%	8.7%	25,976	33,594
2799	5.05	5.03	4.69	4.37	-0.4%	-6.8%	-6.8%	0.07	14.50%	6.4%	36,736	33,216
2735	3.72	3.48	3.69	3.54	-6.5%	6.0%	-4.1%	0.03	17.46%	12.5%	46,555	33,214
2841	3.55	3.55	3.94	3.83	0.0%	11.0%	-2.8%	0.05	14.08%	13.8%	51,211	31,944
4923	0.93	0.97	0.99	0.93	4.3%	2.1%	-6.1%	0.03	12.90%	10.4%	29,481	31,787
2623	6.61	6.02	5.79	5.05	-8.9%	-3.8%	-12.8%	0.11	27.54%	9.0%	28,347	29,999
8233	2.05	1.97	1.96	1.76	-3.9%	-0.5%	-10.2%	0.06	15.09%	9.7%	30,102	27,992
1710	3.06	3.03	3.28	3.28	-1.0%	8.3%	0.0%	0.04	9.31%	9.2%	29,825	27,964
2797	4.35	4.75	5.07	4.50	9.2%	6.7%	-11.2%	0.07	29.66%	20.4%	26,107	27,293
6003	4.17	4.26	4.58	4.55	2.2%	7.5%	-0.7%	0.05	10.55%	8.2%	15,109	27,200
5491	1.50	1.54	1.49	1.46	2.7%	-3.2%	-2.0%	0.02	8.13%	5.9%	23,957	26,149
4351	0.78	0.83	0.89	0.92	6.4%	7.2%	3.4%	0.07	17.95%	3.9%	22,750	26,141
7133	2.22	2.26	2.57	2.56	1.8%	13.7%	-0.4%	0.08	16.22%	14.1%	17,617	25,617
8103	1.93	1.92	2.24	2.41	-0.5%	16.7%	7.6%	0.11	26.17%	17.2%	23,048	25,371
1654	3.77	3.47	3.45	3.10	-8.0%	-0.6%	-10.1%	0.08	19.60%	9.6%	29,811	25,207
2503	1.43	1.31	1.21	1.12	-8.4%	-7.6%	-7.4%	0.11	25.34%	1.0%	18,445	23,977
2960	5.54	5.19	4.97	4.27	-6.3%	-4.2%	-14.1%	0.11	26.43%	9.8%	25,698	22,746
4062	2.52	2.63	2.67	2.39	4.4%	1.5%	-10.5%	0.05	17.06%	14.9%	19,358	21,940
0079	4.24	3.57	3.42	2.97	-15.8%	-4.2%	-13.2%	0.15	36.54%	11.6%	18,494	21,864
0016	5.75	5.19	4.80	4.03	-9.7%	-7.5%	-16.0%	0.15	36.91%	8.5%	19,768	20,905
4581	1.33	1.58	1.91	1.56	18.8%	20.9%	-18.3%	0.15	69.92%	39.2%	13,428	20,474
6045	2.96	3.12	3.52	3.44	5.4%	12.8%	-2.3%	0.08	21.62%	15.1%	9,266	19,854
4206	2.35	2.34	2.49	2.49	-0.4%	6.4%	0.0%	0.03	6.86%	6.8%	11,299	19,608
2417	1.29	1.34	1.40	1.40	3.9%	4.5%	0.0%	0.04	8.53%	4.5%	21,915	19,509
2081	4.87	4.79	4.79	4.50	-1.6%	0.0%	-6.1%	0.03	7.80%	6.1%	24,879	19,496
3822	3.62	3.50	3.45	3.24	-3.3%	-1.4%	-6.1%	0.05	11.17%	4.7%	21,264	19,001
6252	3.08	2.95	2.79	2.91	-4.2%	-5.4%	4.3%	0.04	14.60%	9.7%	51,057	18,927
8745	4.14	3.49	3.19	2.90	-15.7%	-8.6%	-9.1%	0.15	37.07%	7.1%	14,177	18,402
3041	4.44	4.07	3.96	3.34	-8.3%	-2.7%	-15.7%	0.12	28.68%	13.0%	17,115	17,654
9186	16.85	14.81	13.02	10.84	-12.1%	-12.1%	-16.7%	0.18	46.70%	4.7%	25,617	17,162
3315	3.22	3.04	2.97	2.52	-5.6%	-2.3%	-15.2%	0.10	24.39%	12.8%	40,313	16,786
1452	2.95	2.81	2.96	2.72	-4.7%	5.3%	-8.1%	0.04	19.28%	13.4%	15,332	16,743
5037	11.20	10.46	9.86	8.07	-6.6%	-5.7%	-18.2%	0.13	33.19%	12.4%	7,933	16,583
6216	4.20	3.96	4.01	3.77	-5.7%	1.3%	-6.0%	0.04	13.46%	7.2%	10,248	15,923

	Loss Cost					rcent Chan	190	Loss Cost	Absolute	Swing Max - Min	Payroll (1	00'c)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
2702	17.87	15.86	15.80	14.82	-11.2%	-0.4%	-6.2%	0.08	18.60%	10.9%	<u>2010</u> 15,179	14,413
7309	10.95	10.26	9.20	7.36	-6.3%	-10.3%	-20.0%	0.08	40.74%	13.7%	14,170	14,413
3027	2.55	2.45	2.28	2.03	-3.9%	-6.9%	-11.0%	0.10	23.32%	7.0%	12,462	14,117
3118	2.14	2.05	1.99	1.78	-4.2%	-2.9%	-10.6%	0.08	18.57%	7.6%	15,272	12,623
2835	2.14	2.22	2.26	2.15	-10.1%	1.8%	-4.9%	0.06	17.56%	11.9%	18,458	12,429
2923	1.91	1.85	1.77	1.52	-3.1%	-4.3%	-14.1%	0.10	22.80%	11.0%	8,646	11,969
1320	1.46	1.40	1.42	1.32	-4.1%	1.4%	-7.0%	0.10	13.03%	8.5%	8,790	11,948
1005	4.68	5.21	5.70	5.29	11.3%	9.4%	-7.0% -7.2%	0.04	30.56%	18.5%	11,957	11,948
0113	5.04	4.54	4.39	3.89	-9.9%	-3.3%	-11.4%	0.08	26.49%	8.1%	10,830	11,673
4431	1.27	1.26	1.26	1.17	-0.8%	0.0%	-7.1%	0.04	7.99%	7.1%	14,577	11,073
8725	1.87	1.99	2.05	1.70	6.4%	3.0%	-17.1%	0.04	28.34%	23.5%	13,373	10,953
6213	1.28	1.15	1.11	1.23	-10.2%	-3.5%	10.8%	0.06	26.31%	21.0%	2,937	10,200
7317	8.38	8.02	7.99	6.40	-4.3%	-0.4%	-19.9%	0.11	25.52%	19.5%	10,200	10,200
7420	7.18	6.86	6.50	5.41	-4.5%	-5.2%	-16.8%	0.11	28.37%	12.3%	9,353	10,200
4568	4.41	3.71	3.30	2.84	-15.9%	-11.1%	-13.9%	0.19	46.62%	4.8%	9,502	10,005
2220	1.90	1.92	2.03	2.03	1.1%	5.7%	0.0%	0.04	6.84%	5.7%	13,311	9,987
4493	5.62	4.44	3.66	2.87	-21.0%	-17.6%	-21.6%	0.28	72.96%	4.0%	8,910	9,908
4038	4.26	3.83	3.71	3.29	-10.1%	-3.1%	-11.3%	0.11	26.40%	8.2%	12,410	9,458
7350	11.43	10.48	9.46	7.57	-8.3%	-9.7%	-20.0%	0.17	42.60%	11.7%	9,220	9,220
3004	1.93	1.77	1.71	1.39	-8.3%	-3.4%	-20.0%	0.17	32.91%	15.3%	25	9,220
7402	0.11	0.10	0.10	0.09	-9.1%	0.0%	-10.0%	0.13	20.00%	10.0%	8,723	9,076
0251	3.52	3.35	3.38	3.11	-4.8%	0.9%	-8.0%	0.05	14.22%	8.9%	8,788	9,014
3131	1.84	1.81	1.79	1.61	-1.6%	-1.1%	-10.1%	0.06	13.09%	9.0%	141	8,989
3132	3.68	3.68	4.45	4.33	0.0%	20.9%	-10.1%	0.10	24.18%	23.6%	8,404	8,317
2105	3.23	3.42	4.00	3.88	5.9%	17.0%	-3.0%	0.10	27.55%	20.0%	6,033	8,061
1165	3.40	3.12	3.00	2.47	-8.2%	-3.8%	-17.7%	0.13	32.26%	13.8%	5,885	7,821
2413	2.45	2.52	2.65	2.32	2.9%	5.2%	-12.5%	0.06	21.63%	17.6%	7,832	7,553
5402	3.31	3.72	4.26	4.45	12.4%	14.5%	4.5%	0.13	34.44%	10.1%	6,600	6,512
9600	2.83	2.96	3.17	2.87	4.6%	7.1%	-9.5%	0.05	22.61%	16.6%	7,855	5,792
4133	1.85	1.80	1.96	1.93	-2.7%	8.9%	-1.5%	0.04	13.54%	11.6%	5,500	5,775
6235	5.49	5.33	5.18	4.74	-2.9%	-2.8%	-8.5%	0.06	14.80%	5.7%	8,411	5,599
2836	2.08	2.16	2.48	2.42	3.8%	14.8%	-2.4%	0.09	22.12%	17.2%	6,959	5,585
3111	2.32	2.15	2.08	1.75	-7.3%	-3.3%	-15.9%	0.12	28.40%	12.6%	4,112	5,256
3515	2.65	2.59	2.57	2.33	-2.3%	-0.8%	-9.3%	0.06	12.68%	8.6%	4,588	5,171
4420	4.09	3.92	3.89	3.50	-4.2%	-0.8%	-10.0%	0.06	15.48%	9.3%	1,423	4,971
4653	1.28	1.29	1.41	1.45	0.8%	9.3%	2.8%	0.06	13.28%	8.5%	7,004	4,772
0170	2.05	1.99	1.99	1.95	-2.9%	0.0%	-2.0%	0.02	5.00%	2.9%	31	4,728
6237	1.26	1.19	1.16	1.06	-5.6%	-2.5%	-8.6%	0.07	17.55%	6.1%	3,484	4,646
3385	0.81	0.82	0.88	0.86	1.2%	7.3%	-2.3%	0.04	11.11%	9.6%	4,802	4,105
8726	1.88	1.78	1.82	1.46	-5.3%	2.2%	-19.8%	0.11	28.99%	22.0%	3,814	3,814
4665	8.73	9.01	9.02	6.89	3.2%	0.1%	-23.6%	0.12	27.72%	26.8%	11,430	3,549
4021	6.46	6.19	5.40	4.62	-4.2%	-12.8%	-14.4%	0.15	34.44%	10.3%	4,296	3,531
5443	2.62	2.80	2.82	2.52	6.9%	0.7%	-10.6%	0.05	19.08%	17.5%	3,459	3,020
9019	1.53	1.80	1.94	1.83	17.6%	7.8%	-5.7%	0.10	33.99%	23.3%	2,998	2,686
7024	2.21	2.60	2.93	2.72	17.6%	12.7%	-7.2%	0.12	42.08%	24.8%	3,805	2,656
2701	10.12	10.48	10.42	9.34	3.6%	-0.6%	-10.4%	0.05	14.95%	13.9%	5,992	2,541
2112	3.64	3.57	3.57	3.35	-1.9%	0.0%	-6.2%	0.04	8.20%	6.2%	3,015	2,293
8606	1.78	1.69	1.68	1.46	-5.1%	-0.6%	-13.1%	0.08	19.52%	12.5%	2,039	2,284
2709	16.64	16.56	19.92	14.35	-0.5%	20.3%	-28.0%	0.14	54.67%	48.3%	2,521	2,211
2361	1.84	1.80	1.74	1.60	-2.2%	-3.3%	-8.0%	0.06	14.07%	5.9%	3,180	2,171
2587	1.74	1.73	1.95	1.96	-0.6%	12.7%	0.5%	0.07	13.95%	13.3%	1,653	1,535
6882	3.60	3.32	3.16	2.81	-7.8%	-4.8%	-11.1%	0.10	25.48%	6.3%	3,785	1,475
2402	2.36	2.46	2.54	2.34	4.2%	3.3%	-7.9%	0.04	16.10%	12.1%	1,532	1,453
7395	3.73	3.92	4.14	3.95	5.1%	5.6%	-4.6%	0.04	16.09%	10.2%	1,502	1,407
4111	1.75	1.73	1.79	1.66	-1.1%	3.5%	-7.3%	0.03	12.25%	10.7%	7,466	1,319
7222	5.60	5.63	5.80	5.68	0.5%	3.0%	-2.1%	0.02	5.71%	5.1%	7,350	1,310
2362	1.65	1.73	1.94	1.98	4.8%	12.1%	2.1%	0.09	20.00%	10.1%	1,724	1,299
6005	4.86	4.55	4.32	3.91	-6.4%	-5.1%	-9.5%	0.09	22.36%	4.4%	1,412	1,201
2916	4.03	3.71	3.41	3.04	-7.9%	-8.1%	-10.9%	0.12	29.33%	2.9%	1,782	1,083
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NCCI Missouri Loss Cost Filing Effective January 1, 2022
Analysis of the Absolute Loss Cost Change from Loss Costs that are Effective from January 1, 2019 to January 1, 2022 Sorted by 2019 Payroll

										Swing		
		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Max - Min	Payroll (100's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
2065	1.89	1.75	1.70	1.60	-7.4%	-2.9%	-5.9%	0.07	16.97%	4.6%	15,712	1,033
3122	1.96	2.03	2.08	1.89	3.6%	2.5%	-9.1%	0.04	15.82%	12.7%	740	985
7090	5.95	5.67	5.33	4.82	-4.7%	-6.0%	-9.6%	0.09	21.60%	4.9%	1,035	976
5703	9.47	10.02	11.90	12.83	5.8%	18.8%	7.8%	0.14	35.48%	13.0%	1,815	847
6872	10.59	10.12	9.12	7.30	-4.4%	-9.9%	-20.0%	0.16	37.66%	15.5%	845	845
8709	4.36	4.35	4.12	3.30	-0.2%	-5.3%	-19.9%	0.12	26.53%	19.7%	736	736
5705	24.22	22.38	19.95	17.45	-7.6%	-10.9%	-12.5%	0.14	34.23%	4.9%	505	666
8209	3.69	3.57	3.56	3.24	-3.3%	-0.3%	-9.0%	0.05	12.85%	8.7%	414	580
1016	11.22	12.52	14.64	15.75	11.6%	16.9%	7.6%	0.15	40.37%	9.4%	31	555
8719	1.91	1.76	1.73	1.60	-7.9%	-1.7%	-7.5%	0.07	17.93%	6.1%	1,353	514
0913	381.00	394.00	423.00	417.00	3.4%	7.4%	-1.4%	0.05	12.60%	8.8%	494	416
3827	2.41	2.35	2.39	2.10	-2.5%	1.7%	-12.1%	0.06	16.88%	13.8%	1,055	409
0908	121.00	116.00	117.00	111.00	-4.1%	0.9%	-5.1%	0.04	10.42%	6.0%	376	351
2110	1.89	1.80	1.76	1.70	-4.8%	-2.2%	-3.4%	0.04	10.74%	2.5%	45,327	299
2714	4.74	4.62	4.50	4.11	-2.5%	-2.6%	-8.7%	0.06	14.31%	6.1%	608	258
2380	2.10	1.98	2.00	1.86	-5.7%	1.0%	-7.0%	0.05	14.26%	8.0%	648	250
9089	1.04	0.99	0.94	0.82	-4.8%	-5.1%	-12.8%	0.10	24.16%	8.0%	3,011	213
2211	10.16	9.36	8.97	7.79	-7.9%	-4.2%	-13.2%	0.11	27.15%	9.0%	122	204
2172	1.53	1.47	1.48	1.37	-3.9%	0.7%	-7.4%	0.05	12.40%	8.1%	379	200
3042	5.01	4.76	4.79	4.28	-5.0%	0.6%	-10.6%	0.07	16.90%	11.3%	442	139
1322	6.25	6.10	6.44	6.30	-2.4%	5.6%	-2.2%	0.02	10.46%	8.0%	25	58
7313	3.28	3.38	3.25	2.60	3.0%	-3.8%	-20.0%	0.11	28.41%	23.0%	37	37
7335	2.15	2.05	2.19	2.26	-4.7%	6.8%	3.2%	0.04	15.37%	11.5%	14	36
2174	2.75	2.76	2.93	2.70	0.4%	6.2%	-7.8%	0.04	14.91%	14.0%	158	28
3119	1.48	1.37	1.41	1.30	-7.4%	2.9%	-7.8%	0.05	19.20%	10.7%	735	15
3642	1.28	1.21	1.12	1.11	-5.5%	-7.4%	-0.9%	0.07	14.33%	6.5%	2,059	15
6206	2.09	2.10	2.28	2.05	0.5%	8.6%	-10.1%	0.05	20.10%	18.7%	89	12
7098	10.66	10.44	10.54	9.72	-2.1%	1.0%	-7.8%	0.04	11.06%	8.7%	10	10
6826	4.34	4.21	3.93	3.15	-3.0%	-6.7%	-19.8%	0.14	31.65%	16.9%	0	0
4131	3.98	4.55	4.58	4.13	14.3%	0.7%	-9.8%	0.07	26.38%	24.1%	799	0
7540	2.72	2.55	2.51	2.31	-6.3%	-1.6%	-8.0%	0.07	16.52%	6.4%	150	0
2302	1.72	1.62	1.71	1.69	-5.8%	5.6%	-1.2%	0.03	13.00%	11.4%	45	0
6214	1.68	1.58	1.52	1.36	-6.0%	-3.8%	-10.5%	0.09	21.55%	6.7%	25	0
4751	1.70	1.75	2.05	2.12	2.9%	17.1%	3.4%	0.11	24.71%	14.2%	0	0
6835	2.65	2.59	2.62	2.41	-2.3%	1.2%	-8.0%	0.04	11.74%	9.2%	0	0
6884	5.41	5.16	5.03	4.51	-4.6%	-2.5%	-10.3%	0.08	18.35%	7.8%	0	0
2683	1.81	2.10	2.53		16.0%	20.5%		0.17		4.5%	6,413	
3240	2.32	2.71	2.48		16.8%	-8.5%		0.08		25.3%	3,708	

		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (100's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
7502	3.06	2.47	2.07	1.50	-19.3%	-16.2%	-27.5%	0.29	76.76%	11.3%	84,731	146,945
4493	5.62	4.44	3.66	2.87	-21.0%	-17.6%	-21.6%	0.28	72.96%	4.0%	8,910	9,908
4581	1.33	1.58	1.91	1.56	18.8%	20.9%	-18.3%	0.15	69.92%	39.2%	13,428	20,474
7422	2.12	1.73	1.52	1.23	-18.4%	-12.1%	-19.1%	0.23	58.10%	6.9%	98,765	101,431
7425	2.51	2.02	1.82	1.49	-19.5%	-9.9%	-18.1%	0.22	55.17%	9.6%	263,934	308,013
3018	5.08	4.37	3.87	3.02	-14.0%	-11.4%	-22.0%	0.21	54.91%	10.5%	45,812	44,270
2709	16.64	16.56	19.92	14.35	-0.5%	20.3%	-28.0%	0.14	54.67%	48.3%	2,521	2,211
3851	3.40	2.69	2.38	2.04	-20.9%	-11.5%	-14.3%	0.22	54.07%	9.4%	248,517	38,151
9522	3.08	3.60	4.35	4.74	16.9%	20.8%	9.0%	0.19	53.90%	11.9%	354,200	573,141
8856	0.26	0.30	0.36	0.40	15.4%	20.0%	11.1%	0.19	53.85%	8.9%	396,928	388,360
3574	2.09	1.72	2.08	2.18	-17.7%	20.9%	4.8%	0.10	49.18%	38.6%	1,467,737	612,653
8602	0.82	0.96	1.11	1.00	17.1%	15.6%	-9.9%	0.12	48.78%	27.0%	195,785	236,449
6834	3.40	3.09	2.62	2.18	-9.1%	-15.2%	-16.8%	0.19	46.83%	7.7%	913,322	975,909
6204	9.45	8.43	7.30	6.07	-10.8%	-13.4%	-16.8%	0.19	46.82%	6.1%	137,008	146,915
9186	16.85	14.81	13.02	10.84	-12.1%	-12.1%	-16.7%	0.18	46.70%	4.7%	25,617	17,162
4568	4.41	3.71	3.30	2.84	-15.9%	-11.1%	-13.9%	0.19	46.62%	4.8%	9,502	10,005
0036	7.39	6.61	5.93	4.73	-10.6%	-10.3%	-20.2%	0.18	46.60%	9.9%	83,665	73,199
3865	1.85	2.05	2.47	2.71	10.8%	20.5%	9.7%	0.17	46.49%	10.8%	49,865	43,125
3719	1.17	1.04	0.95	0.76	-11.1%	-8.7%	-20.0%	0.18	44.87%	11.3%	12,536	34,557
7350	11.43	10.48	9.46	7.57	-8.3%	-9.7%	-20.0%	0.17	42.60%	11.7%	9,220	9,220
7024	2.21	2.60	2.93	2.72	17.6%	12.7%	-7.2%	0.12	42.08%	24.8%	3,805	2,656
9516	3.07	2.63	2.35	2.07	-14.3%	-10.6%	-11.9%	0.17	41.58%	3.7%	465,572	452,879
7309	10.95	10.26	9.20	7.36	-6.3%	-10.3%	-20.0%	0.17	40.74%	13.7%	14,170	14,170
1016	11.22	12.52	14.64	15.75	11.6%	16.9%	7.6%	0.15	40.37%	9.4%	31	555
4304	6.45	5.73	5.07	4.40	-11.2%	-11.5%	-13.2%	0.16	40.35%	2.1%	236,165	192,952
5478	5.57	5.05	4.41	3.80	-9.3%	-12.7%	-13.8%	0.16	40.23%	4.5%	619,735	677,384
5040	11.95	11.04	9.71	8.20	-7.6%	-12.0%	-15.6%	0.16	39.33%	7.9%	130,019	131,423
3824	4.59	4.04	3.91	3.11	-12.0%	-3.2%	-20.5%	0.16	39.24%	17.2%	921,884	938,410
3307	3.58	3.27	2.92	2.48	-8.7%	-10.7%	-15.1%	0.15	38.42%	6.4%	74,091	77,692
2021	1.86	2.06	2.49	2.57	10.8%	20.9%	3.2%	0.15	38.17%	17.7%	102,411	114,120
2157	6.25	5.97	5.32	4.31	-4.5%	-10.9%	-19.0%	0.16	37.85%	14.5%	709,316	716,482
6872	10.59	10.12	9.12	7.30	-4.4%	-9.9%	-20.0%	0.16	37.66%	15.5%	845	845
3803	1.73	2.00	2.28	2.18	15.6%	14.0%	-4.4%	0.12	37.57%	20.0%	182,178	197,045
8047	0.97	0.84	0.77	0.68	-13.4%	-8.3%	-11.7%	0.15	37.21%	5.1%	446,868	404,983
8745	4.14	3.49	3.19	2.90	-15.7%	-8.6%	-9.1%	0.15	37.07%	7.1%	14,177	18,402
0016	5.75	5.19	4.80	4.03	-9.7%	-7.5%	-16.0%	0.15	36.91%	8.5%	19,768	20,905
0079	4.24	3.57	3.42	2.97	-15.8%	-4.2%	-13.2%	0.15	36.54%	11.6%	18,494	21,864
8824	2.32	1.88	1.91	1.67	-19.0%	1.6%	-12.6%	0.14	36.05%	20.6%	1,462,373	1,735,387
6825	2.95	2.74	2.58	2.07	-7.1%	-5.8%	-19.8%	0.15	35.78%	13.9%	155,418	155,418
5223	5.78	5.27	4.97	4.08	-8.8%	-5.7%	-17.9%	0.14	35.62%	12.2%	141,231	150,264
6217	3.84	3.40	3.15	2.73	-11.5%	-7.4%	-13.3%	0.14	35.61%	6.0%	2,377,460	2,572,315
5703	9.47	10.02	11.90	12.83	5.8%	18.8%	7.8%	0.14	35.48%	13.0%	1,815	847
1924	3.84	3.58	3.32	2.72	-6.8%	-7.3%	-18.1%	0.14	35.22%	11.3%	96,273	123,910
4000	4.89	4.50	3.99	3.50	-8.0%	-11.3%	-12.3%	0.14	34.98%	4.3%	173,835	141,983
8820	0.14	0.13	0.11	0.10	-7.1%	-15.4%	-9.1%	0.15	34.87%	8.2%	12,553,533	13,407,433
4021	6.46	6.19	5.40	4.62	-4.2%	-12.8%	-14.4%	0.15	34.44%	10.3%	4,296	3,531
5402	3.31	3.72	4.26	4.45	12.4%	14.5%	4.5%	0.13	34.44%	10.1%	6,600	6,512
3241	3.24	2.74	2.60	2.32	-15.4%	-5.1%	-10.8%	0.14	34.40%	10.3%	300,108	267,055
5705	24.22	22.38	19.95	17.45	-7.6%	-10.9%	-12.5%	0.14	34.23%	4.9%	505	666
3169	2.08	2.22	2.48	2.17	6.7%	11.7%	-12.5%	0.08	34.13%	24.2%	74,896	81,327
9019 4686	1.53	1.80 2.41	1.94 2.16	1.83	17.6% -7.7%	7.8% -10.4%	-5.7% -12.5%	0.10	33.99%	23.3%	2,998	2,686 139,568
4686 8603	2.61	0.06		1.89		-10.4% 16.7%	-12.5% -14.3%	0.14 0.08	33.69%	4.8%	134,366 5,072,703	5,108,245
8603 5462	0.06 5.37	0.06 4.99	0.07 4.67	0.06	0.0% -7.1%	16.7% -6.4%	-14.3% -16.9%		33.33%	31.0% 10.5%		
5462	5.37		4.67 9.86	3.88 8.07	-7.1% -6.6%		-16.9% -18.2%	0.13	33.22%	10.5%	338,706	372,881 16,583
5057	11.20 25.77	10.46 24.30	23.46	8.07 19.30	-6.6% -5.7%	-5.7% -3.5%	-18.2% -21.6%	0.13	33.19%	12.4%	7,933 58,420	16,583 86,943
3004	1.93	24.30 1.77	1.71	18.39 1.39	-5.7% -8.3%	-3.5% -3.4%	-21.6% -18.7%	0.14 0.13	32.99% 32.91%	18.2% 15.3%	58,420 25	9,144
1165	3.40	3.12	3.00	2.47	-8.2%	-3.4% -3.8%	-18.7% -17.7%	0.13	32.91%	13.8%	5,885	7,821
6826	4.34	4.21	3.93	3.15	-3.0%	-5.8% -6.7%	-17.7%	0.13	31.65%	16.9%	0	7,821
0020	7.54	7.21	3.33	5.15	3.070	0.770	15.070	0.14	31.03/0	10.370	J	U

		Loss	Cost		Pe	rcent Chan	ige	Loss Cost	Absolute	Swing Max - Min	Payroll (1	00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
9154	1.40	1.47	1.63	1.42	5.0%	10.9%	-12.9%	0.07	31.43%	23.8%	1,030,761	1,027,988
1624	3.33	2.90	2.46	2.45	-12.9%	-15.2%	-0.4%	0.15	30.57%	14.8%	866,759	972,033
1005	4.68	5.21	5.70	5.29	11.3%	9.4%	-7.2%	0.08	30.56%	18.5%	11,957	11,810
7580	2.17	2.23	2.50	2.17	2.8%	12.1%	-13.2%	0.07	30.41%	25.3%	310,382	345,479
7225	6.15	6.02	7.28	7.68	-2.1%	20.9%	5.5%	0.12	30.27%	23.0%	176,366	291,900
2586	2.22	2.50	2.78	2.68	12.6%	11.2%	-3.6%	0.10	29.73%	16.2%	60,762	61,529
2797	4.35	4.75	5.07	4.50	9.2%	6.7%	-11.2%	0.07	29.66%	20.4%	26,107	27,293
7403	3.93	3.88	4.26	3.56	-1.3%	9.8%	-16.4%	0.07	29.46%	26.2%	2,146,330	2,215,593
9101	3.36	3.13	3.36	2.93	-6.8%	7.3%	-12.8%	0.06	29.37%	20.1%	2,697,997	2,785,563
2916	4.03	3.71	3.41	3.04	-7.9%	-8.1%	-10.9%	0.12	29.33%	2.9%	1,782	1,083
9061	1.45	1.30	1.25	1.09	-10.3%	-3.8%	-12.8%	0.12	29.26%	9.0%	322,767	316,473
7539	2.05	1.69	1.62	1.53	-17.6%	-4.1%	-5.6%	0.13	29.23%	13.4%	536,725	797,508
7538	5.51	5.13	5.10	4.08	-6.9%	-0.6%	-20.0%	0.12	29.03%	19.4%	781,649	1,021,858
8726	1.88	1.78	1.82	1.46	-5.3%	2.2%	-19.8%	0.11	28.99%	22.0%	3,814	3,814
8015	0.78	0.73	0.68	0.59	-6.4%	-6.8%	-13.2%	0.12	28.75%	6.8%	375,450	413,865
3041	4.44	4.07	3.96	3.34	-8.3%	-2.7%	-15.7%	0.12	28.68%	13.0%	17,115	17,654
7313	3.28	3.38	3.25	2.60	3.0%	-3.8%	-20.0%	0.11	28.41%	23.0%	37	37
3111	2.32	2.15	2.08	1.75	-7.3%	-3.3%	-15.9%	0.12	28.40%	12.6%	4,112	5,256
7420	7.18	6.86	6.50	5.41	-4.5%	-5.2%	-16.8%	0.12	28.37%	12.3%	9,353	10,184
8725	1.87	1.99	2.05	1.70	6.4%	3.0%	-10.8%	0.12	28.34%	23.5%	13,373	10,184
8755	0.37	0.31	0.30	0.28	-16.2%	-3.2%	-6.7%	0.08	27.96%	13.0%	604,627	622,808
9012	0.85	0.31	0.30	0.65	-10.2%	-3.2 <i>%</i> -7.8%	-8.5%	0.12	27.90%	1.6%	4,699,112	5,004,655
5537	3.53	3.83	3.66	3.19	-9.4% 8.5%	-7.8% -4.4%	-8.5% -12.8%	0.11	27.90%	21.3%		3,929,936
4665		9.01	9.02	6.89				0.08	27.87%	26.8%	3,906,367	
	8.73	3.42			3.2%	0.1%	-23.6%				11,430	3,549
2105	3.23	2.02	4.00	3.88	5.9%	17.0%	-3.0%	0.10	27.55%	20.0%	6,033	8,061
5160	2.16		1.96	1.64	-6.5%	-3.0%	-16.3%	0.11	27.55%	13.4%	425,156	465,013
2623	6.61	6.02	5.79	5.05	-8.9%	-3.8%	-12.8%	0.11	27.54%	9.0%	28,347	29,999
2095	2.87	3.23	3.42	3.18	12.5%	5.9%	-7.0%	0.07	27.53%	19.6%	1,714,751	1,985,603
5213	6.06	5.39	4.86	4.65	-11.1%	-9.8%	-4.3%	0.12	27.25%	6.7%	1,493,212	1,481,553
2211	10.16	9.36	8.97	7.79	-7.9%	-4.2%	-13.2%	0.11	27.15%	9.0%	122	204
9063	0.72	0.69	0.76	0.68	-4.2%	10.1%	-10.5%	0.05	26.81%	20.7%	2,262,010	2,349,934
5610	4.73	4.25	3.68	3.63	-10.1%	-13.4%	-1.4%	0.13	26.62%	12.1%	127,606	93,798
7431	0.94	0.99	1.04	0.89	5.3%	5.1%	-14.4%	0.07	26.60%	19.7%	236,558	252,254
8709	4.36	4.35	4.12	3.30	-0.2%	-5.3%	-19.9%	0.12	26.53%	19.7%	736	736
0113	5.04	4.54	4.39	3.89	-9.9%	-3.3%	-11.4%	0.11	26.49%	8.1%	10,830	11,673
6306	5.42	4.92	4.53	4.20	-9.2%	-7.9%	-7.3%	0.11	26.47%	1.9%	496,709	538,729
2960	5.54	5.19	4.97	4.27	-6.3%	-4.2%	-14.1%	0.11	26.43%	9.8%	25,698	22,746
4038	4.26	3.83	3.71	3.29	-10.1%	-3.1%	-11.3%	0.11	26.40%	8.2%	12,410	9,458
4131	3.98	4.55	4.58	4.13	14.3%	0.7%	-9.8%	0.07	26.38%	24.1%	799	0
6213	1.28	1.15	1.11	1.23	-10.2%	-3.5%	10.8%	0.06	26.31%	21.0%	2,937	10,200
2731	3.49	3.68	3.47	3.01	5.4%	-5.7%	-13.3%	0.08	26.24%	18.7%	409,352	416,030
8103	1.93	1.92	2.24	2.41	-0.5%	16.7%	7.6%	0.11	26.17%	17.2%	23,048	25,371
3643	2.18	2.41	2.68	2.75	10.6%	11.2%	2.6%	0.10	26.15%	8.6%	1,935,098	1,849,507
8387	2.79	2.55	2.48	2.16	-8.6%	-2.7%	-12.9%	0.10	25.98%	10.2%	2,070,582	2,153,324
8861	1.16	1.14	1.25	1.09	-1.7%	9.6%	-12.8%	0.06	25.82%	22.4%	5,866,339	6,551,199
5472	5.09	4.55	4.36	4.75	-10.6%	-4.2%	8.9%	0.07	25.53%	19.6%	84,931	71,466
3372	3.41	3.13	2.99	2.66	-8.2%	-4.5%	-11.0%	0.10	25.53%	6.6%	158,036	230,448
7317	8.38	8.02	7.99	6.40	-4.3%	-0.4%	-19.9%	0.11	25.52%	19.5%	10,200	10,200
0035	1.88	2.07	2.03	1.79	10.1%	-1.9%	-11.8%	0.07	25.50%	21.9%	181,933	173,701
3807	2.00	2.02	2.28	2.05	1.0%	12.9%	-10.1%	0.06	25.50%	23.0%	222,545	249,963
6882	3.60	3.32	3.16	2.81	-7.8%	-4.8%	-11.1%	0.10	25.48%	6.3%	3,785	1,475
3826	1.02	1.00	1.07	0.91	-2.0%	7.0%	-15.0%	0.07	25.41%	22.0%	123,855	117,818
5445	4.42	4.38	3.97	3.43	-0.9%	-9.4%	-13.6%	0.11	25.36%	12.7%	1,792,945	1,959,482
2503	1.43	1.31	1.21	1.12	-8.4%	-7.6%	-7.4%	0.11	25.34%	1.0%	18,445	23,977
8293	7.75	7.18	7.09	6.01	-7.4%	-1.3%	-15.2%	0.10	25.26%	14.0%	826,655	844,988
2121	1.28	1.18	1.26	1.15	-7.8%	6.8%	-8.7%	0.05	25.17%	15.5%	816,218	1,024,064
5437	3.91	4.04	4.45	4.01	3.3%	10.1%	-9.9%	0.06	25.06%	20.0%	1,329,660	1,381,071
8037	1.75	1.61	1.72	1.58	-8.0%	6.8%	-8.1%	0.05	24.77%	15.0%	9,949,723	9,590,521
4751	1.70	1.75	2.05	2.12	2.9%	17.1%	3.4%	0.11	24.71%	14.2%	0	0
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		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (1	L00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
8102	2.03	1.92	2.01	1.75	-5.4%	4.7%	-12.9%	0.07	24.64%	17.6%	197,122	229,081
5020	4.51	4.23	4.07	3.54	-6.2%	-3.8%	-13.0%	0.10	24.58%	9.2%	86,170	89,875
3685	1.22	1.16	1.09	0.96	-4.9%	-6.0%	-11.9%	0.10	24.52%	7.0%	1,357,602	1,443,653
9062	1.28	1.16	1.20	1.08	-9.4%	3.4%	-10.0%	0.07	24.46%	13.4%	92,644	576,198
3110	4.71	4.21	4.19	3.69	-10.6%	-0.5%	-11.9%	0.10	24.40%	11.5%	46,634	52,882
3315	3.22	3.04	2.97	2.52	-5.6%	-2.3%	-15.2%	0.10	24.39%	12.8%	40,313	16,786
3336	2.78	2.63	2.72	2.34	-5.4%	3.4%	-14.0%	0.07	24.23%	17.4%	87,932	88,819
3132	3.68	3.68	4.45	4.33	0.0%	20.9%	-2.7%	0.10	24.18%	23.6%	8,404	8,317
9089	1.04	0.99	0.94	0.82	-4.8%	-5.1%	-12.8%	0.10	24.16%	8.0%	3,011	213
8001	1.74	1.88	1.95	1.74	8.0%	3.7%	-10.8%	0.06	24.14%	18.8%	398,020	402,684
0106	6.78	7.12	6.74	5.92	5.0%	-5.3%	-12.2%	0.08	24.08%	17.2%	721,994	893,090
8106	3.87	4.17	4.56	4.32	7.8%	9.4%	-5.3%	0.07	24.03%	14.6%	506,224	529,640
1699	2.80	2.56	2.50	2.21	-8.6%	-2.3%	-11.6%	0.10	24.01%	9.3%	192,836	211,533
2688	2.71	2.42	2.30	2.15	-10.7%	-5.0%	-6.5%	0.10	23.77%	5.7%	62,642	75,385
8728	0.34	0.37	0.41	0.42	8.8%	10.8%	2.4%	0.10	23.53%	8.4%	483,232	359,941
1438	11.66	12.64	12.78	11.16	8.4%	1.1%	-12.7%	0.06	23.50%	21.1%	295,545	390,265
3638	1.79	1.88	2.18	2.15	5.0%	16.0%	-1.4%	0.10	23.46%	17.3%	149,464	139,419
3027	2.55	2.45	2.28	2.03	-3.9%	-6.9%	-11.0%	0.10	23.32%	7.0%	12,462	14,117
6251	3.42	3.06	2.90	2.73	-10.5%	-5.2%	-5.9%	0.10	23.12%	5.3%	81,624	130,152
4635	3.01	2.94	2.77	2.39	-2.3%	-5.8%	-13.7%	0.10	23.09%	11.4%	348,178	282,452
4110	1.28	1.21	1.16	1.02	-5.5%	-4.1%	-12.1%	0.09	23.08%	7.9%	47,566	40,502
4828	1.96	1.82	1.94	1.79	-7.1%	6.6%	-7.7%	0.05	23.04%	14.3%	1,365,040	1,799,815
5192	2.13	2.19	2.55	2.48	2.8%	16.4%	-2.7%	0.09	23.00%	19.2%	545,002	593,137
4484	2.35	2.47	2.65	2.41	5.1%	7.3%	-9.1%	0.05	22.98%	16.3%	4,585,157	4,926,480
7232	6.66	6.86	7.53	6.87	3.0%	9.8%	-8.8%	0.05	22.97%	18.5%	308,032	271,098
7520	3.02	2.78	2.55	2.42	-7.9%	-8.3%	-5.1%	0.10	22.84%	3.2%	1,023,762	1,002,872
2923	1.91	1.85	1.77	1.52	-3.1%	-4.3%	-14.1%	0.10	22.80%	11.0%	8,646	11,969
8045	0.50	0.54	0.52	0.47	8.0%	-3.7%	-9.6%	0.06	22.77%	17.6%	4,434,065	4,386,759
9521	3.53	3.29	3.45	3.12	-6.8%	4.9%	-9.6%	0.05	22.71%	14.4%	183,284	190,221
0401	10.31	10.47	10.77	8.89	1.6%	2.9%	-17.5%	0.08	22.70%	20.3%	66,858	76,644
8021	2.83	2.67	2.69	2.28	-5.7%	0.7%	-15.2%	0.09	22.67%	16.0%	403,684	394,848
4693	0.75	0.82	0.92 0.67	0.92	9.3%	12.2%	0.0%	0.10 0.09	22.67%	12.2% 3.3%	146,235 746,309	196,966 655,100
4361 9600	0.76 2.83	0.71 2.96	3.17	0.61 2.87	-6.6% 4.6%	-5.6% 7.1%	-9.0% -9.5%	0.05	22.67% 22.61%	16.6%		5,792
8265	4.68	4.13	4.13	3.73	-11.8%	0.0%	-9.5% -9.7%	0.05	22.51%	11.8%	7,855 308,365	334,039
9519	3.30	3.15	3.34	2.99	-4.5%	6.0%	-10.5%	0.05	22.47%	16.5%	474,050	533,075
6005	4.86	4.55	4.32	3.91	-6.4%	-5.1%	-9.5%	0.09	22.36%	4.4%	1,412	1,201
5348	3.88	3.73	3.50	3.12	-3.9%	-6.2%	-10.9%	0.09	22.24%	7.0%	676,263	625,804
0034	2.25	2.41	2.62	2.49	7.1%	8.7%	-5.0%	0.06	22.22%	13.7%	480,850	492,747
8826	1.62	1.74	1.87	1.76	7.4%	7.5%	-5.9%	0.06	22.22%	13.4%	1,370,394	1,490,128
8034	2.09	1.92	2.01	1.85	-8.1%	4.7%	-8.0%	0.05	22.21%	12.8%	207,880	192,291
5551	13.75	13.67	14.25	11.90	-0.6%	4.2%	-16.5%	0.08	22.14%	20.7%	813,620	905,526
6400	4.49	5.06	4.94	4.65	12.7%	-2.4%	-5.9%	0.05	22.14%	18.6%	203,337	217,867
9014	2.27	2.43	2.27	2.11	7.0%	-6.6%	-7.0%	0.06	22.14%	14.1%	4,999,682	5,017,901
7370	4.50	4.12	4.02	3.62	-8.4%	-2.4%	-10.0%	0.09	22.13%	7.5%	150,342	167,131
8304	3.57	4.03	4.26	4.16	12.9%	5.7%	-2.3%	0.08	22.13%	15.2%	267,651	273,760
2836	2.08	2.16	2.48	2.42	3.8%	14.8%	-2.4%	0.09	22.12%	17.2%	6,959	5,585
8832	0.25	0.23	0.23	0.20	-8.0%	0.0%	-13.0%	0.09	22.09%	13.0%	39,494,429	40,842,115
3081	3.85	3.95	4.27	3.84	2.6%	8.1%	-10.1%	0.05	22.08%	18.2%	102,361	94,109
2651	2.13	2.21	2.23	1.86	3.8%	0.9%	-16.6%	0.08	22.07%	20.3%	75,814	56,805
3022	3.54	3.44	3.28	2.85	-2.8%	-4.7%	-13.1%	0.09	21.71%	10.3%	136,717	143,794
2413	2.45	2.52	2.65	2.32	2.9%	5.2%	-12.5%	0.06	21.63%	17.6%	7,832	7,553
6045	2.96	3.12	3.52	3.44	5.4%	12.8%	-2.3%	0.08	21.62%	15.1%	9,266	19,854
7090	5.95	5.67	5.33	4.82	-4.7%	-6.0%	-9.6%	0.09	21.60%	4.9%	1,035	976
7390	5.19	4.84	4.54	4.21	-6.7%	-6.2%	-7.3%	0.09	21.60%	1.1%	357,291	357,101
6214	1.68	1.58	1.52	1.36	-6.0%	-3.8%	-10.5%	0.09	21.55%	6.7%	25	0
3581	1.16	1.22	1.27	1.13	5.2%	4.1%	-11.0%	0.05	21.55%	16.2%	67,303	102,563
5057	3.69	3.66	4.34	4.27	-0.8%	18.6%	-1.6%	0.09	21.47%	20.2%	367,382	437,744
3681	0.77	0.73	0.72	0.62	-5.2%	-1.4%	-13.9%	0.09	21.45%	12.5%	3,200,660	3,769,972

										Swing		
		Loss	Cost		Pe	rcent Chai	nge	Loss Cost	Absolute	Max - Min	Payroll (2	100's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	Change	2018	2019
8723	0.14	0.14	0.14	0.11	0.0%	0.0%	-21.4%	0.11	21.43%	21.4%	20,034,704	21,964,732
1164	4.59	4.39	4.25	3.71	-4.4%	-3.2%	-12.7%	0.09	21.37%	9.5%	880,843	979,574
1747	1.69	1.95	1.99	2.05	15.4%	2.1%	3.0%	0.08	21.30%	13.3%	46,192	49,295
2501	2.35	2.45	2.53	2.21	4.3%	3.3%	-12.6%	0.06	21.28%	16.9%	1,113,976	1,046,516
9093	1.26	1.23	1.16	1.02	-2.4%	-5.7%	-12.1%	0.09	21.27%	9.7%	232,463	235,251
4239	1.79	1.90	2.01	1.85	6.1%	5.8%	-8.0%	0.05	21.23%	14.1%	90,397	87,833
4777	4.05	3.89	3.86	3.26	-4.0%	-0.8%	-15.5%	0.09	21.04%	14.8%	55,415	65,144
8381	2.31	2.10	2.06	1.88	-9.1%	-1.9%	-8.7%	0.08	20.88%	7.2%	78,251	78,683
3145	2.31	2.26	2.33	1.99	-2.2%	3.1%	-14.6%	0.07	20.70%	17.7%	120,429	108,471
7405	1.26	1.19	1.22	1.08	-5.6%	2.5%	-11.5%	0.07	20.63%	14.0%	891,314	574,861
8720	1.19	1.04	1.02	0.97	-12.6%	-1.9%	-4.9%	0.09	20.40%	10.7%	1,063,427	1,180,546
3040	5.18	4.84	4.76	4.23	-6.6%	-1.7%	-11.1%	0.08	20.39%	9.5%	290,156	301,783
9170	9.68	10.34	10.85	10.05	6.8%	4.9%	-7.4%	0.05	20.35%	14.2%	40,968	36,534
8215	3.56	3.50	3.71	3.28	-1.7%	6.0%	-11.6%	0.05	20.28%	17.6%	1,113,854	1,091,238
0005	2.98	2.84	2.90	2.54	-4.7%	2.1%	-12.4%	0.07	20.18%	14.5%	175,222	190,470
8000	2.60	2.53	2.39	2.13	-2.7%	-5.5%	-10.9%	0.09	20.16%	8.2%	72,044	69,822
6206	2.09	2.10	2.28	2.05	0.5%	8.6%	-10.1%	0.05	20.10%	18.7%	89	12
2362	1.65	1.73	1.94	1.98	4.8%	12.1%	2.1%	0.09	20.00%	10.1%	1,724	1,299
7402	0.11	0.10	0.10	0.09	-9.1%	0.0%	-10.0%	0.08	20.00%	10.0%	8,723	9,076
4243	2.06	2.06	2.21	1.95	0.0%	7.3%	-11.8%	0.05	19.90%	19.0%	528,667	551,309
9505	3.99	3.98	3.87	3.24	-0.3%	-2.8%	-16.3%	0.09	19.79%	16.0%	95,533	101,180
4149	0.86	0.82	0.77	0.71	-4.7%	-6.1%	-7.8%	0.08	19.68%	3.1%	173,629	181,645
8044	2.30	2.26	2.20	1.88	-1.7%	-2.7%	-14.5%	0.09	19.63%	12.8%	1,655,183	1,760,679
1654	3.77	3.47	3.45	3.10	-8.0%	-0.6%	-10.1%	0.08	19.60%	9.6%	29,811	25,207
3648	1.43	1.46	1.55	1.39	2.1%	6.2%	-10.3%	0.05	19.58%	16.5%	94,392	87,308
8606	1.78	1.69	1.68	1.46	-5.1%	-0.6%	-13.1%	0.08	19.52%	12.5%	2,039	2,284
2143	2.05	2.17	2.31	2.17	5.9%	6.5%	-6.1%	0.05	19.51%	12.5%	126,190	136,066
4902	2.60	2.39	2.34	2.15	-8.1%	-2.1%	-8.1%	0.08	19.30%	6.0%	125,907	202,582
1452	2.95	2.81	2.96	2.72	-4.7%	5.3%	-8.1%	0.04	19.28%	13.4%	15,332	16,743
9554	8.04	7.50	7.40	6.64	-6.7%	-1.3%	-10.3%	0.08	19.25%	8.9%	186,348	171,233
3119	1.48	1.37	1.41	1.30	-7.4%	2.9%	-7.8%	0.05	19.20%	10.7%	735	15
4740	0.89	0.98	1.01	0.96	10.1%	3.1%	-5.0%	0.05	19.10%	15.1%	84,049	64,460
5443	2.62	2.80	2.82	2.52	6.9%	0.7%	-10.6%	0.05	19.08%	17.5%	3,459	3,020
5221	3.79	3.94	4.15	3.79	4.0%	5.3%	-8.7%	0.04	19.00%	14.0%	2,795,021	2,861,068
4452	2.73	2.59	2.47	2.27	-5.1%	-4.6%	-8.1%	0.08	18.91%	3.5%	631,243	644,347
5188	2.50	2.64	2.58	2.32	5.6%	-2.3%	-10.1%	0.06	18.88%	15.7%	548,196	591,429
8058	2.23	2.33	2.49	2.33	4.5%	6.9%	-6.4%	0.05	18.83%	13.3%	1,974,099	2,131,443
8901	0.18	0.17	0.16	0.15	-5.6%	-5.9%	-6.3%	0.08	18.75%	0.7%	10,920,541	10,847,952
2710	13.52	12.46	12.62	11.52	-7.8%	1.3%	-8.7%	0.07	18.75%	10.0%	129,721	92,704
2881	3.12	2.93	2.78	2.60	-6.1%	-5.1%	-6.5%	0.08	18.74%	1.4%	218,987	207,616
2883	2.96	2.83	2.74	2.46	-4.4%	-3.2%	-10.2%	0.08	18.72%	7.0%	1,362,081	1,417,903
8800	1.30	1.23	1.21	1.08	-5.4%	-1.6%	-10.7%	0.08	18.60%	9.1%	414,247	362,815
2702	17.87	15.86	15.80	14.82	-11.2%	-0.4%	-6.2%	0.08	18.60%	10.9%	15,179	14,413
3118	2.14	2.05	1.99	1.78	-4.2%	-2.9%	-10.6%	0.08	18.57%	7.6%	15,272	12,623
4720	1.78	1.93	2.05	1.99	8.4%	6.2%	-2.9%	0.06	18.54%	11.4%	862,040	1,000,273
4101	2.35	2.22	2.21	1.95	-5.5%	-0.5%	-11.8%	0.08	18.48%	11.3%	98,258	93,956
4511	0.39	0.41	0.40	0.36	5.1%	-2.4%	-10.0%	0.06	18.46%	15.1%	3,168,542	3,726,074
8017	1.38	1.31	1.28	1.15	-5.1%	-2.3%	-10.2%	0.08	18.39%	7.9%	9,161,584	9,162,880
4114	3.29	3.11	3.11	2.73	-5.5%	0.0%	-12.2%	0.08	18.36%	12.2%	313,206	327,416
6884	5.41	5.16	5.03	4.51	-4.6%	-2.5%	-10.3%	0.08	18.35%	7.8%	0	0
2089	3.33	3.17	3.13	2.77	-4.8%	-1.3%	-11.5%	0.08	18.33%	10.2%	2,186,544	2,115,020
7515	1.03	0.99	0.95	0.86	-3.9%	-4.0%	-9.5%	0.08	18.32%	5.6%	357,489	376,160
2305	2.44	2.26	2.18	2.04	-7.4%	-3.5%	-6.4%	0.07	18.32%	3.8%	99,437	107,515
9102	2.71	2.50	2.48	2.26	-7.7%	-0.8%	-8.9%	0.07	18.25%	8.1%	2,435,098	2,575,602
7720	2.47	2.53	2.71	2.50	2.4%	7.1%	-7.7%	0.04	18.22%	14.9%	3,694,716	3,541,571
9084	1.20	1.12	1.16	1.08	-6.7%	3.6%	-6.9%	0.05	18.10%	10.5%	848,646	905,006
8833	1.00	1.04	1.07	0.96	4.0%	2.9%	-10.3%	0.05	18.00%	14.3%	19,708,990	20,122,505
3114	3.06	3.25	3.35	3.09	6.2%	3.1%	-7.8%	0.04	17.97%	14.0%	55,022	34,801
4351	0.78	0.83	0.89	0.92	6.4%	7.2%	3.4%	0.07	17.95%	3.9%	22,750	26,141
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		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (1	100's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
8719	1.91	1.76	1.73	1.60	-7.9%	-1.7%	-7.5%	0.07	17.93%	6.1%	1,353	514
4829	1.06	1.07	1.11	0.97	0.9%	3.7%	-12.6%	0.06	17.92%	16.4%	1,668,028	1,958,319
8072	0.52	0.51	0.51	0.43	-1.9%	0.0%	-15.7%	0.09	17.91%	15.7%	254,751	248,979
8799	0.41	0.35	0.36	0.36	-14.6%	2.9%	0.0%	0.07	17.91%	17.5%	247,646	245,064
4240	3.49	3.48	3.37	2.90	-0.3%	-3.2%	-13.9%	0.08	17.89%	13.7%	76,927	71,582
6836	3.19	3.02	3.09	2.80	-5.3%	2.3%	-9.4%	0.05	17.88%	11.7%	162,068	163,191
6233	1.79	1.89	2.07	2.03	5.6%	9.5%	-1.9%	0.07	17.88%	11.5%	172,497	268,206
3507	2.41	2.57	2.59	2.34	6.6%	0.8%	-9.7%	0.05	17.84%	16.3%	890,324	990,733
9110	2.82	2.62	2.52	2.37	-7.1%	-3.8%	-6.0%	0.07	17.80%	3.3%	904,155	925,774
2003	3.63	3.52	3.65	3.28	-3.0%	3.7%	-10.1%	0.05	17.67%	13.8%	738,283	767,071
7421	0.51	0.55	0.58	0.56	7.8%	5.5%	-3.4%	0.05	17.65%	11.3%	345,832	353,210
5951	0.34	0.35	0.39	0.40	2.9%	11.4%	2.6%	0.08	17.65%	8.9%	38,201	147,966
2835	2.47	2.22	2.26	2.15	-10.1%	1.8%	-4.9%	0.06	17.56%	11.9%	18,458	12,429
6237	1.26	1.19	1.16	1.06	-5.6%	-2.5%	-8.6%	0.07	17.55%	6.1%	3,484	4,646
2288	3.68	3.55	3.84	3.65	-3.5%	8.2%	-4.9%	0.03	17.53%	13.1%	102,587	88,279
2111	2.15	2.06	1.98	1.81	-4.2%	-3.9%	-8.6%	0.07	17.52%	4.7%	363,152	457,455
5146	4.56	4.38	4.46	3.97	-3.9%	1.8%	-11.0%	0.06	17.47%	12.8%	386,755	397,377
4583	3.95	4.08	4.43	4.22	3.3%	8.6%	-4.7%	0.05	17.47%	13.3%	304,754	320,212
2735	3.72	3.48	3.69	3.54	-6.5%	6.0%	-4.1%	0.03	17.46%	12.5%	46,555	33,214
3188	2.31	2.16	2.19	2.00	-6.5%	1.4%	-8.7%	0.06	17.34%	10.1%	270,958	267,017
1463	9.29	9.01	8.77	7.81	-3.0%	-2.7%	-10.9%	0.07	17.33%	8.3%	133,566	160,651
3028	3.79	3.60	3.71	3.40	-5.0%	3.1%	-8.4%	0.05	17.26%	11.4%	192,548	366,315
9179	16.95	17.37	17.95	16.04	2.5%	3.3%	-10.6%	0.05	17.17%	14.0%	89,250	103,792
4283	1.42	1.38	1.28	1.20	-2.8%	-7.2%	-6.3%	0.08	17.16%	4.4%	221,402	196,172
3179	2.04	2.01	2.08	1.84	-1.5%	3.5%	-11.5%	0.05	17.12%	15.0%	1,922,409	1,880,886
8002	1.58	1.62	1.78	1.71	2.5%	9.9%	-3.9%	0.05	17.12%	13.8%	614,729	715,537
4062	2.52	2.63	2.67	2.39	4.4%	1.5%	-10.5%	0.05	17.06%	14.9%	19,358	21,940
8392	2.17	2.12	2.10	1.82	-2.3%	-0.9%	-13.3%	0.03	17.00%	12.4%	346,897	351,868
2065	1.89	1.75	1.70	1.60	-2.3 <i>%</i> -7.4%	-0.9%	-13.3% -5.9%	0.08	16.97%	4.6%	15,712	1,033
3042	5.01	4.76	4.79	4.28	-7.4% -5.0%	0.6%	-10.6%	0.07	16.90%	11.3%	442	1,033
3383	1.48	1.51	1.55	1.37	2.0%	2.6%	-10.6%	0.07	16.89%	14.3%	32,741	55,904
3827	2.41	2.35	2.39	2.10	-2.5%	1.7%	-11.6%	0.05	16.89%	13.8%	1,055	409
4557	2.41	2.00	2.23	2.22	-2.3% -4.3%	11.5%	-0.4%	0.05	16.82%	15.8%	230,195	247,704
8353	3.31	3.21	3.44	3.24	-3.0%	7.2%	-5.8%	0.03	16.82%	13.0%	262,169	291,699
3634	1.65	1.54	1.50	1.40	-6.7%	-2.6%	-5.8% -6.7%	0.03	16.73%	4.1%	487,492	457,779
4036	2.62	2.40	2.25	2.22	-8.4%	-6.3%	-1.3%	0.07	16.73%	7.1%	47,994	437,779
3821	4.67	4.46	4.57	4.16	-8.4% -4.5%	2.5%	-1.5% -9.0%	0.05	16.68%	11.4%	258,621	261,545
9156	2.04		2.19		-4.5% 2.9%	4.3%		0.03		13.0%	420,251	383,505
8803	0.06	2.10 0.06	0.05	2.00 0.05	0.0%	-16.7%	-8.7% 0.0%	0.04	16.67% 16.67%	16.7%	20,776,388	18,025,379
2759	6.19	6.08	5.91	5.23	-1.8%	-16.7%	-11.5%	0.10	16.66%	9.7%		299,454
3635		2.10	2.08				-11.5%	0.07		13.0%	315,694	299,434 86,984
9178	2.13		10.32	1.79 9.48	-1.4%	-1.0%		0.08	16.65%		52,178 111,418	92,050
	10.78	10.14			-5.9%	1.8%	-8.1%		16.59%	9.9%		
0083	4.55	4.34	4.25	3.86	-4.6%	-2.1%	-9.2%	0.07	16.58%	7.1%	856,882	909,983
8748	0.52	0.49	0.51	0.48	-5.8%	4.1%	-5.9%	0.04	16.56%	10.0%	3,342,328	3,521,051
7540	2.72	2.55	2.51	2.31	-6.3%	-1.6%	-8.0%	0.07	16.52%	6.4%	150	0
3647	2.49	2.49	2.76	2.62	0.0%	10.8%	-5.1%	0.05	16.47%	15.9%	1,135,140	1,521,269
3146	2.19	2.22	2.25	1.95	1.4%	1.4%	-13.3%	0.06	16.44%	14.7%	444,986	637,225
5102	5.49	5.20	4.96	4.68	-5.3%	-4.6%	-5.6%	0.07	16.36%	1.0%	416,529	463,515
4459	2.29	2.40	2.39	2.14	4.8%	-0.4%	-10.5%	0.05	16.25%	15.3%	1,103,493	1,140,268
4410	2.95	2.88	3.06	2.85	-2.4%	6.3%	-6.9%	0.03	16.24%	13.1%	1,404,240	1,286,783
7231	7.46	6.91	6.99	6.50	-7.4%	1.2%	-7.0%	0.06	16.23%	8.5%	518,188	635,884
7610	0.37	0.39	0.41	0.39	5.4%	5.1%	-4.9%	0.04	16.22%	10.3%	2,845,344	2,768,101
7133	2.22	2.26	2.57	2.56	1.8%	13.7%	-0.4%	0.08	16.22%	14.1%	17,617	25,617
7705	3.83	3.76	3.79	3.29	-1.8%	0.8%	-13.2%	0.07	16.18%	14.0%	1,214,707	1,291,604
6319	3.63	3.42	3.30	3.10	-5.8%	-3.5%	-6.1%	0.07	16.13%	2.6%	555,867	668,382
2402	2.36	2.46	2.54	2.34	4.2%	3.3%	-7.9%	0.04	16.10%	12.1%	1,532	1,453
7395	3.73	3.92	4.14	3.95	5.1%	5.6%	-4.6%	0.04	16.09%	10.2%	1,502	1,407
4692	0.81	0.82	0.86	0.78	1.2%	4.9%	-9.3%	0.04	16.05%	14.2%	296,451	319,864
9058	1.41	1.33	1.39	1.32	-5.7%	4.5%	-5.0%	0.03	16.00%	10.2%	1,040,888	1,043,932

		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (1	.00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
8204	3.20	3.36	3.36	3.01	5.0%	0.0%	-10.4%	0.05	15.94%	15.4%	40,664	43,395
2660	2.70	2.70	2.83	2.53	0.0%	4.8%	-10.6%	0.05	15.93%	15.4%	265,003	326,626
9016	2.74	2.85	2.83	2.53	4.0%	-0.7%	-10.6%	0.05	15.85%	14.6%	431,316	470,535
3122	1.96	2.03	2.08	1.89	3.6%	2.5%	-9.1%	0.04	15.82%	12.7%	740	985
2039	2.49	2.50	2.68	2.48	0.4%	7.2%	-7.5%	0.04	15.66%	14.7%	427,493	454,806
9403	6.58	6.79	6.87	6.13	3.2%	1.2%	-10.8%	0.05	15.65%	14.0%	1,385,486	1,568,871
4717	1.99	2.05	2.11	1.92	3.0%	2.9%	-9.0%	0.04	15.58%	12.0%	79,869	83,833
3629	1.62	1.51	1.48	1.39	-6.8%	-2.0%	-6.1%	0.06	15.53%	4.8%	933,329	957,161
4420	4.09	3.92	3.89	3.50	-4.2%	-0.8%	-10.0%	0.06	15.48%	9.3%	1,423	4,971
4558	1.79	1.71	1.72	1.55	-4.5%	0.6%	-9.9%	0.06	15.47%	10.5%	460,416	470,601
4611	0.99	0.98	1.07	1.02	-1.0%	9.2%	-4.7%	0.04	15.44%	13.9%	3,066,941	3,488,815
3113	1.85	1.76	1.64	1.59	-4.9%	-6.8%	-3.0%	0.07	15.43%	3.8%	1,438,343	1,380,209
7335	2.15	2.05	2.19	2.26	-4.7%	6.8%	3.2%	0.04	15.37%	11.5%	14	36
2388	1.50	1.52	1.55	1.37	1.3%	2.0%	-11.6%	0.05	15.33%	13.6%	95,244	140,447
4273	2.32	2.27	2.34	2.12	-2.2%	3.1%	-9.4%	0.04	15.21%	12.5%	644,740	614,509
3881	3.77	3.69	3.57	3.24	-2.1%	-3.3%	-9.2%	0.07	15.19%	7.1%	197,796	303,923
3076	2.86	3.00	2.99	2.71	4.9%	-0.3%	-9.4%	0.05	15.10%	14.3%	5,007,821	4,813,108
8233	2.05	1.97	1.96	1.76	-3.9%	-0.5%	-10.2%	0.06	15.09%	9.7%	30,102	27,992
8385	1.71	1.68	1.86	1.82	-1.8%	10.7%	-2.2%	0.05	15.08%	12.9%	566,506	561,683
2701	10.12	10.48	10.42	9.34	3.6%	-0.6%	-10.4%	0.05	14.95%	13.9%	5,992	2,541
2174	2.75	2.76	2.93	2.70	0.4%	6.2%	-7.8%	0.04	14.91%	14.0%	158	28
9586	0.50	0.48	0.48	0.43	-4.0%	0.0%	-10.4%	0.06	14.83%	10.4%	1,620,778	1,669,015
6235	5.49	5.33	5.18	4.74	-2.9%	-2.8%	-8.5%	0.06	14.80%	5.7%	8,411	5,599
8264	4.63	4.52	4.43	3.99	-2.4%	-2.0%	-9.9%	0.06	14.78%	7.9%	235,491	226,395
8292	3.32	3.42	3.52	3.23	3.0%	2.9%	-8.2%	0.04	14.76%	11.3%	1,596,860	1,668,513
4109	0.56	0.55	0.57	0.52	-1.8%	3.6%	-8.8%	0.04	14.74%	12.4%	88,907	103,951
7360	3.73	3.66	3.73	3.34	-1.9%	1.9%	-10.5%	0.05	14.68%	12.4%	336,705	251,108
6252	3.08	2.95	2.79	2.91	-4.2%	-5.4%	4.3%	0.04	14.60%	9.7%	51,057	18,927
2799	5.05	5.03	4.69	4.37	-0.4%	-6.8%	-6.8%	0.07	14.50%	6.4%	36,736	33,216
4741	2.14	2.22	2.31	2.17	3.7%	4.1%	-6.1%	0.03	14.49%	10.1%	80,853	85,022
2131	2.21	2.22	2.34	2.15	0.5%	5.4%	-8.1%	0.04	14.48%	13.5%	86,494	85,703
6325	3.06	2.83	2.80	2.65	-7.5%	-1.1%	-5.4%	0.06	14.48%	6.5%	601,593	709,704
9402	3.81	3.87	4.17	3.98	1.6%	7.8%	-4.6%	0.04	14.44%	12.3%	525,603	559,803
8291 4018	3.01	2.89 4.95	2.99	2.80	-4.0% 1.6%	3.5% 7.9%	-6.4%	0.03 0.04	14.42% 14.37%	9.8% 12.2%	291,865	264,787 148,705
4018	4.87	6.33	5.34	5.11 5.87	1.6% -6.5%	-0.8%	-4.3% -6.5%	0.04		5.7%	156,589 398,026	410,481
3082	6.77	4.61	6.28 4.76		0.2%			0.05	14.35% 14.35%	13.8%	48,570	410,461
5535	4.60 5.43	5.36	5.52	4.26 4.99	-1.3%	3.3% 3.0%	-10.5% -9.6%	0.03	14.33%	12.6%	964,396	1,060,440
3642	1.28	1.21	1.12	1.11	-1.5% -5.5%	-7.4%	-0.9%	0.04	14.33%	6.5%	2,059	1,000,440
2714	4.74	4.62	4.50	4.11	-2.5%	-2.6%	-8.7%	0.06	14.33%	6.1%	608	258
3257	2.50	2.47	2.48	2.17	-1.2%	0.4%	-12.5%	0.00	14.31%	12.9%	413,677	354,738
8871	0.07	0.06	0.06	0.06	-14.3%	0.0%	0.0%	0.08	14.29%	14.3%	3,116,084	4,499,294
8855	0.15	0.14	0.14	0.13	-6.7%	0.0%	-7.1%	0.06	14.29%	7.1%	28,781,844	30,518,357
2380	2.10	1.98	2.00	1.86	-5.7%	1.0%	-7.0%	0.05	14.26%	8.0%	648	250
0251	3.52	3.35	3.38	3.11	-4.8%	0.9%	-8.0%	0.05	14.22%	8.9%	8,788	9,014
2790	1.62	1.63	1.80	1.85	0.6%	10.4%	2.8%	0.07	14.20%	9.8%	34,714	47,222
3220	2.22	2.15	2.19	2.00	-3.2%	1.9%	-8.7%	0.05	14.19%	10.5%	283,325	328,718
0042	5.34	5.32	5.69	5.33	-0.4%	7.0%	-6.3%	0.03	14.15%	13.3%	677,173	744,630
8831	1.15	1.14	1.14	0.99	-0.9%	0.0%	-13.2%	0.07	14.14%	13.2%	2,668,226	2,924,685
2841	3.55	3.55	3.94	3.83	0.0%	11.0%	-2.8%	0.05	14.08%	13.8%	51,211	31,944
2361	1.84	1.80	1.74	1.60	-2.2%	-3.3%	-8.0%	0.06	14.07%	5.9%	3,180	2,171
1430	5.15	5.40	5.22	4.95	4.9%	-3.3%	-5.2%	0.04	13.95%	10.0%	186,536	172,793
2587	1.74	1.73	1.95	1.96	-0.6%	12.7%	0.5%	0.07	13.95%	13.3%	1,653	1,535
8350	5.36	5.32	5.23	4.65	-0.7%	-1.7%	-11.1%	0.06	13.81%	10.3%	768,075	833,278
3300	3.92	3.93	4.28	4.46	0.3%	8.9%	4.2%	0.06	13.78%	8.7%	346,189	329,974
8061	1.66	1.61	1.55	1.45	-3.0%	-3.7%	-6.5%	0.06	13.74%	3.4%	1,819,651	1,931,102
2016	2.93	2.88	2.84	2.55	-1.7%	-1.4%	-10.2%	0.06	13.65%	8.8%	246,791	283,276
4133	1.85	1.80	1.96	1.93	-2.7%	8.9%	-1.5%	0.04	13.54%	11.6%	5,500	5,775
9040	3.25	3.29	3.38	3.07	1.2%	2.7%	-9.2%	0.04	13.54%	11.9%	873,196	1,003,281

	Loss Cost									Swing		
						rcent Chai		Loss Cost	Absolute	Max - Min	Payroll (1	
Class Code	<u>2019</u>	2020	<u>2021</u>	2022	2020	<u>2021</u>	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
8868	0.37	0.38	0.39	0.36	2.7%	2.6%	-7.7%	0.03	13.51%	10.4%	36,697,133	37,687,118
6216	4.20	3.96	4.01	3.77	-5.7%	1.3%	-6.0%	0.04	13.46%	7.2%	10,248	15,923
3400	4.09	4.20	4.31	3.98	2.7%	2.6%	-7.7%	0.03	13.45%	10.3%	1,078,320	1,011,958
8288	6.94	6.89	6.96	6.16	-0.7%	1.0%	-11.5%	0.06	13.44%	12.5%	145,159	141,938
7219	6.54	6.43	6.38	5.70	-1.7%	-0.8%	-10.7%	0.06	13.39%	9.9%	12,624,490	13,459,655
9083	0.92	0.91	0.97	0.92	-1.1%	6.6%	-5.2%	0.03	13.31%	11.7%	11,831,285	12,717,907
4653	1.28	1.29	1.41	1.45	0.8%	9.3%	2.8%	0.06	13.28%	8.5%	7,004	4,772
7855	3.09	3.10	3.17	2.84	0.3%	2.3%	-10.4%	0.05	13.27%	12.7%	270,051	284,317
2070	4.03	3.91	3.86	3.53	-3.0%	-1.3%	-8.5%	0.06	13.21%	7.3%	996,794	958,478
0037	3.25	3.02	2.99	2.85	-7.1%	-1.0%	-4.7%	0.05	13.20%	6.1%	516,031	571,499
9220	3.62	3.45	3.53	3.33	-4.7%	2.3%	-5.7%	0.04	13.19%	8.0%	179,998	177,762
7230	6.20	6.01	6.30	6.00	-3.1%	4.8%	-4.8%	0.02	13.18%	9.6%	366,248	623,474
8107	2.44	2.35	2.32	2.14	-3.7%	-1.3%	-7.8%	0.05	13.16%	6.5%	1,999,771	2,091,839
4130	3.17	3.09	3.03	2.78	-2.5%	-1.9%	-8.3%	0.06	13.14%	6.3%	156,853	161,935
1701	3.10	3.08	2.94	2.72	-0.6%	-4.5%	-7.5%	0.06	13.09%	6.8%	856,510	897,825
3131	1.84	1.81	1.79	1.61	-1.6%	-1.1%	-10.1%	0.06	13.09%	9.0%	141	8,989
9501	2.83	2.84	2.99	2.78	0.4%	5.3%	-7.0%	0.03	13.07%	12.3%	238,259	260,438
5403	5.12	4.98	4.92	4.49	-2.7%	-1.2%	-8.7%	0.06	13.06%	7.5%	2,937,941	3,140,322
1320	1.46	1.40	1.42	1.32	-4.1%	1.4%	-7.0%	0.04	13.03%	8.5%	8,790	11,948
4683	3.73	3.58	3.60	3.31	-4.0%	0.6%	-8.1%	0.05	13.03%	8.6%	54,677	62,893
2302	1.72	1.62	1.71	1.69	-5.8%	5.6%	-1.2%	0.03	13.00%	11.4%	45	0
4352	1.62	1.65	1.66	1.49	1.9%	0.6%	-10.2%	0.05	12.96%	12.1%	25,588	35,654
8835	1.90	1.76	1.74	1.67	-7.4%	-1.1%	-4.0%	0.05	12.96%	6.2%	5,932,084	6,557,120
4923	0.93	0.97	0.99	0.93	4.3%	2.1%	-6.1%	0.03	12.90%	10.4%	29,481	31,787
9052	1.70	1.71	1.66	1.51	0.6%	-2.9%	-9.0%	0.06	12.88%	9.6%	4,595,055	4,445,310
8209	3.69	3.57	3.56	3.24	-3.3%	-0.3%	-9.0%	0.05	12.85%	8.7%	414	580
9033	1.66	1.73	1.71	1.59	4.2%	-1.2%	-7.0%	0.04	12.82%	11.2%	316,271	324,168
9082	1.15	1.11	1.12	1.03	-3.5%	0.9%	-8.0%	0.05	12.80%	8.9%	16,479,495	16,727,798
8008	0.86	0.88	0.91	0.85	2.3%	3.4%	-6.6%	0.03	12.79%	10.0%	3,637,119	3,566,573
5473	7.13	6.81	6.85	6.35	-4.5%	0.6%	-7.3%	0.05	12.77%	7.9%	101,666	84,887
8263	4.58	4.33	4.58	4.53	-5.5%	5.8%	-1.1%	0.03	12.77%	11.2%	31,958	62,581
2585	3.14	3.08	2.94	2.77	-1.9%	-4.5%	-5.8%	0.06	12.70%	3.9%	1,070,479	1,032,088
1925	3.23	3.25	3.35	3.06	0.6%	3.1%	-8.7%	0.04	12.69%	11.7%	285,772	302,474
3515	2.65	2.59	2.57	2.33	-2.3%	-0.8%	-9.3%	0.06	12.68%	8.6%	4,588	5,171
8742	0.25	0.24	0.25	0.24	-4.0%	4.2%	-4.0%	0.02	12.67%	8.2%	62,480,616 5,452,137	66,743,873
8033	1.52	1.51	1.55	1.41	-0.7%	2.6%	-9.0%	0.04	12.66%	11.7%		5,377,406
4244	2.36	2.32	2.48	2.39	-1.7%	6.9%	-3.6%	0.03	12.65%	10.5%	1,065,506	1,146,573
3303 0913	1.98 381.00	2.01 394.00	2.04	1.85	1.5%	1.5%	-9.3%	0.04 0.05	12.63%	10.8% 8.8%	255,363 494	221,374 416
8391	1.97	1.94	423.00 2.01	417.00	3.4%	7.4%	-1.4% -7.0%	0.03	12.60% 12.51%			
				1.87	-1.5%	3.6%				10.6%	8,388,318	8,665,576
8013 0917	0.32 3.67	0.32 3.39	0.34 3.31	0.32 3.24	0.0% -7.6%	6.3% -2.4%	-5.9% -2.1%	0.03 0.06	12.50% 12.50%	12.1% 5.5%	1,338,764 175,754	1,318,783 220,769
3334			1.79					0.05			105,217	111,013
2172	1.86	1.80 1.47	1.79	1.64	-3.2% -3.9%	-0.6% 0.7%	-8.4% -7.4%	0.05	12.50% 12.40%	7.8%	379	200
9060	1.53 1.11	1.47	1.48	1.37 1.10	-3.9% -4.5%	5.7%	-7.4%	0.03	12.40%	8.1% 10.2%	1,420,876	1,390,577
5474	5.06	4.73	4.75	4.51	-6.5%	0.4%	-5.1%	0.02	12.39%	6.9%	1,918,313	1,992,460
3064	3.16	3.32	3.45	3.35	5.1%	3.9%	-2.9%	0.03	12.34%	8.0%	147,299	1,992,400
3270	3.67	3.65	3.62	3.23	-0.5%	-0.8%	-10.8%	0.04	12.34%	10.2%	154,153	130,188
4111	1.75	1.73	1.79	1.66	-0.5%	3.5%	-7.3%	0.00	12.25%	10.2%	7,466	1,319
5645	8.92	9.19	8.95	8.40	3.0%	-2.6%		0.03	12.23%	9.2%	2,302,360	2,270,483
5480	5.17	5.08	8.95 4.91	4.58	-1.7%	-3.3%	-6.1% -6.7%	0.04	12.21%	5.0%	53,295	45,510
6504	2.31	2.29	2.25	2.04	-0.9%	-3.3% -1.7%	-9.3%	0.05	12.21%	8.5%	4,309,722	43,310
3559	2.31	2.29	2.25	2.04	-0.9% 1.7%	-1.7% -0.4%	-9.3% -9.8%	0.05	12.21%	11.5%	56,885	60,562
8039	1.07	2.36 1.11	2.35 1.19	1.20	3.7%	-0.4% 7.2%	-9.8% 0.8%	0.05	12.15%	6.4%	1,056,295	1,345,124
2002	2.80	2.91	3.08	3.02	3.7%	5.8%	-1.9%	0.06	12.15%	7.8%	224,260	211,928
2130	1.72	1.68	1.72	1.60	-2.3%	2.4%	-1.9% -7.0%	0.04	12.14%	9.4%	205,956	190,793
4263	3.59	3.32	3.36	3.26	-2.5% -7.5%	1.2%	-7.0%	0.03	12.07%	9.4% 8.7%	205,956 25,976	33,594
8500	4.83	4.60	4.61	4.30	-7.5% -4.8%	0.2%	-5.0% -6.7%	0.04	12.05%	6.9%	88,584	85,899
5606	1.15	1.10	1.12	1.06	-4.3%	1.8%	-5.4%	0.03	11.94%	7.2%	5,466,731	5,999,046
3000	1.13	1.10	1.12	1.00	- 4 .3/0	1.0/0	-3.4/0	0.03	11.74/0	1.2/0	3,400,731	3,333,040

		Loss	Cost		Pe	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (2	100's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	<u>Change</u>	2018	2019
9410	2.75	2.63	2.71	2.60	-4.4%	3.0%	-4.1%	0.03	11.90%	7.4%	210,689	208,993
3126	1.27	1.31	1.36	1.30	3.1%	3.8%	-4.4%	0.03	11.81%	8.2%	35,706	33,853
8018	2.12	2.19	2.31	2.25	3.3%	5.5%	-2.6%	0.04	11.79%	8.1%	5,668,336	5,946,720
6835	2.65	2.59	2.62	2.41	-2.3%	1.2%	-8.0%	0.04	11.74%	9.2%	0	0
5190	2.50	2.50	2.49	2.21	0.0%	-0.4%	-11.2%	0.06	11.69%	11.2%	5,343,238	5,741,445
3620	3.68	3.69	3.64	3.28	0.3%	-1.4%	-9.9%	0.05	11.68%	10.2%	546,839	574,980
3085	4.37	4.41	4.61	4.34	0.9%	4.5%	-5.9%	0.03	11.67%	10.4%	624,796	583,336
4299	2.13	2.07	1.96	1.90	-2.8%	-5.3%	-3.1%	0.05	11.60%	2.5%	2,263,942	2,390,245
5506	4.56	4.68	4.62	4.29	2.6%	-1.3%	-7.1%	0.04	11.37%	9.8%	1,910,702	1,930,244
7590	2.70	2.59	2.62	2.47	-4.1%	1.2%	-5.7%	0.04	11.31%	6.9%	126,450	130,649
5183	2.75	2.65	2.59	2.46	-3.6%	-2.3%	-5.0%	0.05	11.30%	2.8%	4,403,481	4,768,112
8235	3.54	3.54	3.58	3.22	0.0%	1.1%	-10.1%	0.05	11.30%	11.2%	127,599	130,256
3632	2.86	2.80	2.81	2.57	-2.1%	0.4%	-8.5%	0.05	11.21%	8.9%	4,028,332	4,045,673
3822	3.62	3.50	3.45	3.24	-3.3%	-1.4%	-6.1%	0.05	11.17%	4.7%	21,264	19,001
3385	0.81	0.82	0.88	0.86	1.2%	7.3%	-2.3%	0.04	11.11%	9.6%	4,802	4,105
7098	10.66	10.44	10.54	9.72	-2.1%	1.0%	-7.8%	0.04	11.06%	8.7%	10	10
2570	3.87	3.77	3.86	3.64	-2.6%	2.4%	-5.7%	0.03	11.02%	8.1%	29,367	34,289
9534	4.17	4.02	3.99	3.74	-3.6%	-0.7%	-6.3%	0.04	10.91%	5.5%	169,394	174,374
4703	1.96	1.91	1.87	1.76	-2.6%	-2.1%	-5.9%	0.05	10.86%	3.8%	189,722	211,338
4307	1.70	1.68	1.79	1.74	-1.2%	6.5%	-2.8%	0.03	10.81%	9.3%	83,489	82,962
2110	1.89	1.80	1.76	1.70	-4.8%	-2.2%	-3.4%	0.04	10.74%	2.5%	45,327	299
8032	1.74	1.70	1.75	1.66	-2.3%	2.9%	-5.1%	0.02	10.72%	8.1%	344,297	321,701
2041	2.46	2.47	2.54	2.36	0.4%	2.8%	-7.1%	0.03	10.57%	9.9%	64,450	43,278
6003	4.17	4.26	4.58	4.55	2.2%	7.5%	-0.7%	0.05	10.55%	8.2%	15,109	27,200
1322	6.25	6.10	6.44	6.30	-2.4%	5.6%	-2.2%	0.02	10.46%	8.0%	25	58
0908	121.00	116.00	117.00	111.00	-4.1%	0.9%	-5.1%	0.04	10.42%	6.0%	376	351
5479	6.44	6.14	6.14	5.81	-4.7%	0.0%	-5.4%	0.04	10.28%	5.4%	168,359	174,079
9044	0.88	0.88	0.90	0.83	0.0%	2.3%	-7.8%	0.03	10.23%	10.1%	1,641,392	1,670,288
8031	2.03	1.98	2.01	1.89	-2.5%	1.5%	-6.0%	0.03	10.23%	7.5%	188,559	183,634
2014	4.50	4.52	4.62	4.28	0.4%	2.2%	-7.4%	0.03	10.22%	9.6%	740,966	720,216
3030	4.25	4.32	4.48	4.28	1.6%	3.7%	-4.5%	0.02	10.12%	8.2%	839,145	1,001,745
9620	1.02	1.01	1.05	1.10	-1.0%	4.0%	4.8%	0.04	9.98%	5.7%	527,209	564,953
3548	1.44	1.43	1.48	1.40	-0.7%	3.5%	-5.4%	0.02	9.85%	8.9%	29,206	113,526
3808	3.55	3.50	3.59	3.39	-1.4%	2.6%	-5.6%	0.02	9.81%	8.1%	326,249	236,323
1472	2.55	2.68	2.74	2.80	5.1%	2.2%	2.2%	0.04	9.80%	2.9%	226,639	248,694
7605	1.70	1.66	1.66	1.54	-2.4%	0.0%	-7.2%	0.04	9.75%	7.2%	953,794	1,018,954
2589	1.91	1.88	1.96	1.89	-1.6%	4.3%	-3.6%	0.02	9.67%	7.8%	197,809	191,798
4470	2.10	2.17	2.15	2.04	3.3%	-0.9%	-5.1%	0.03	9.62%	8.4%	89,371	100,135
8279	5.21	5.01	5.10	4.92	-3.8%	1.8%	-3.5%	0.02	9.43%	5.6%	45,079	48,938
5222	6.85	6.74	6.70	6.23	-1.6%	-0.6%	-7.0%	0.04	9.38%	6.4%	261,292	220,956
1710	3.06	3.03	3.28	3.28	-1.0%	8.3%	0.0%	0.04	9.31%	9.2%	29,825	27,964
6229	4.03	3.91	4.14	4.13	-3.0%	5.9%	-0.2%	0.03	9.30%	8.9%	96,852	108,062
9182	1.63	1.67	1.75	1.72	2.5%	4.8%	-1.7%	0.03	9.20%	6.5%	526,654	559,244
7380 7382	4.27	4.26	4.45 4.14	4.64	-0.2% -5.8%	4.5%	4.3%	0.04 0.03	9.18%	4.7%	5,031,599	5,558,804 1,232,614
1642	4.32	4.07		4.08		1.7%	-1.4%	0.03	9.17% 9.15%	7.5%	1,371,359	337,376
3726	2.47	2.43 3.18	2.60 3.25	2.61	-1.6% -4.2%	7.0% 2.2%	0.4%	0.04	9.13%	8.6% 6.4%	221,769 226,003	214,053
3227	3.32 3.00	2.89	2.83	3.17 2.75	-4.2% -3.7%	-2.1%	-2.5% -2.8%	0.02	9.15% 8.81%	1.6%	300,731	371,275
3612	2.01	1.97	1.96	1.84	-2.0%	-0.5%	-2.8% -6.1%	0.04	8.78%	5.6%	725,583	795,333
5215	4.89	4.87	4.86	4.47	-0.4%	-0.2%	-8.0%	0.04	8.69%	7.8%	536,178	548,591
2417	1.29	1.34	1.40	1.40	3.9%	4.5%	0.0%	0.04	8.53%	4.5%	21,915	19,509
3365	3.47	3.31	3.28	3.19	-4.6%	-0.9%	-2.7%	0.04	8.46%	3.7%	296,511	227,039
8810	0.12	0.11	0.11	0.11	-8.3%	0.0%	0.0%	0.04	8.33%	8.3%	266,583,997	276,621,758
3180	2.78	2.64	2.65	2.58	-5.0%	0.0%	-2.6%	0.04	8.22%	5.4%	222,390	270,021,738
2112	3.64	3.57	3.57	3.35	-1.9%	0.4%	-6.2%	0.03	8.20%	6.2%	3,015	2,293
5491	1.50	1.54	1.49	1.46	2.7%	-3.2%	-2.0%	0.04	8.13%	5.9%	23,957	26,149
8721	0.25	0.25	0.26	0.25	0.0%	4.0%	-3.8%	0.02	8.00%	7.8%	254,205	288,679
4431	1.27	1.26	1.26	1.17	-0.8%	0.0%	-7.1%	0.04	7.99%	7.1%	14,577	11,027
7600	3.11	3.04	3.14	3.07	-2.3%	3.3%	-2.2%	0.01	7.97%	5.5%	3,320,363	3,255,420
50						5,0	/			2.3/0	-,520,555	-,-55, .20

NCCI Missouri Loss Cost Filing Effective January 1, 2022
Analysis of the Loss Costs that are Effective from January 1, 2019 to January 1, 2022 Sorted by 2019 Absolute Cumulative Change Percent

			Cook		Da	t Cham		Lana Cant	Abaaluka	Swing	Daywell (1	00/-)
Class Code	2019	2020	Cost 2021	2022	2020	rcent Chan	2022	Loss Cost <u>Coef. Var</u>	Absolute	Max - Min Change	Payroll (1 2018	2019
4279	2.16	2.24	2.33	2.33	3.7%	<u>2021</u> 4.0%	0.0%	0.04	Change 7.87%	4.0%	<u>2018</u> 341,103	<u>2019</u> 424,745
9180	3.95	3.85	3.87	3.69	-2.5%	0.5%	-4.7%	0.04	7.86%	5.2%	211,831	207,101
2081	3.93 4.87	3.85 4.79	3.87 4.79	4.50	-2.5% -1.6%	0.5%	-4.7% -6.1%	0.03	7.80%	6.1%	211,831	19,496
8227	2.93	2.85	2.90	2.81	-1.0% -2.7%	1.8%	-3.1%	0.03	7.80%	4.9%	1,170,064	1,295,461
8232	4.90	5.00	5.00	4.72	2.0%	0.0%	-5.1% -5.6%	0.02	7.76%	4.9% 7.6%	2,975,514	3,016,851
5191		0.66		0.70			1.4%	0.03	7.76%	3.1%		3,490,700
8006	0.65 1.61	1.58	0.69 1.60	1.53	1.5% -1.9%	4.5% 1.3%	1.4% -4.4%	0.04	7.69%	5.6%	3,400,487	
9015		2.66		2.62				0.02		6.7%	2,778,162	2,861,573
	2.68		2.73		-0.7%	2.6%	-4.0%		7.56%		3,923,390	4,074,551
8046	2.13	2.06	2.09	2.04	-3.3%	1.5%	-2.4%	0.02	7.30%	4.7%	2,192,045	2,481,465
2802	4.92	4.92	4.88	4.57	0.0%	-0.8%	-6.4%	0.04	7.22%	6.4%	322,298	330,124
5507	3.21	3.20	3.28	3.14	-0.3%	2.5%	-4.3%	0.02	7.21%	6.8%	170,856	211,200
6503	1.98	1.96	2.00	1.92	-1.0%	2.0%	-4.0%	0.02	7.19%	6.0%	34,731	44,543
0050	4.46	4.48	4.55	4.33	0.4%	1.6%	-4.8%	0.02	6.95%	6.4%	157,934	173,355
4825	0.72	0.72	0.72	0.67	0.0%	0.0%	-6.9%	0.04	6.94%	6.9%	2,183,200	2,277,590
4206	2.35	2.34	2.49	2.49	-0.4%	6.4%	0.0%	0.03	6.86%	6.8%	11,299	19,608
2220	1.90	1.92	2.03	2.03	1.1%	5.7%	0.0%	0.04	6.84%	5.7%	13,311	9,987
8869	0.89	0.89	0.89	0.83	0.0%	0.0%	-6.7%	0.03	6.74%	6.7%	3,463,127	3,677,992
8010	1.56	1.53	1.60	1.60	-1.9%	4.6%	0.0%	0.02	6.59%	6.5%	2,742,818	2,726,836
8393	1.22	1.24	1.30	1.30	1.6%	4.8%	0.0%	0.03	6.56%	4.8%	1,983,339	2,050,468
8203	5.89	5.92	5.86	5.57	0.5%	-1.0%	-4.9%	0.03	6.55%	5.5%	78,032	80,394
4251	3.36	3.28	3.41	3.41	-2.4%	4.0%	0.0%	0.02	6.44%	6.3%	148,058	143,877
3373	4.62	4.45	4.37	4.35	-3.7%	-1.8%	-0.5%	0.03	6.03%	3.2%	75,282	79,142
1803	7.08	7.16	7.24	6.98	1.1%	1.1%	-3.6%	0.02	5.93%	4.7%	175,706	178,866
3830	0.71	0.70	0.70	0.67	-1.4%	0.0%	-4.3%	0.02	5.75%	4.3%	9,338,774	10,225,549
7222	5.60	5.63	5.80	5.68	0.5%	3.0%	-2.1%	0.02	5.71%	5.1%	7,350	1,310
0170	2.05	1.99	1.99	1.95	-2.9%	0.0%	-2.0%	0.02	5.00%	2.9%	31	4,728
8111	1.57	1.54	1.52	1.50	-1.9%	-1.3%	-1.3%	0.02	4.59%	0.6%	670,382	656,942
3724	3.27	3.20	3.19	3.13	-2.1%	-0.3%	-1.9%	0.02	4.39%	1.8%	2,542,469	2,898,425
8370	3.43	3.45	3.52	3.46	0.6%	2.0%	-1.7%	0.01	4.37%	3.7%	503,368	561,480
8601	0.23	0.22	0.22	0.22	-4.3%	0.0%	0.0%	0.02	4.35%	4.3%	11,011,091	11,462,919
4250	1.68	1.68	1.72	1.69	0.0%	2.4%	-1.7%	0.01	4.17%	4.1%	88,457	81,285
5022	5.46	5.46	5.66	5.65	0.0%	3.7%	-0.2%	0.02	3.85%	3.8%	1,286,616	1,305,556
7710	4.06	4.08	4.12	4.03	0.5%	1.0%	-2.2%	0.01	3.69%	3.2%	1,245,520	1,319,835
7711	4.06	4.08	4.12	4.03	0.5%	1.0%	-2.2%	0.01	3.69%	3.2%	155,177	147,943
4771	2.51	2.52	2.52	2.46	0.4%	0.0%	-2.4%	0.01	2.79%	2.8%	334,143	1,368,889
8116	1.98	1.97	1.99	2.00	-0.5%	1.0%	0.5%	0.01	2.04%	1.5%	877,510	857,253
2683	1.81	2.10	2.53		16.0%	20.5%		0.17		4.5%	6,413	
3240	2.32	2.71	2.48		16.8%	-8.5%		0.08		25.3%	3,708	

								Swing				
			Cost			rcent Char		Loss Cost	Absolute	Max - Min	Payroll (1	
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
2709	16.64	16.56	19.92	14.35	-0.5%	20.3%	-28.0%	0.14	54.67%	48.3%	2,521	2,211
4581	1.33	1.58	1.91	1.56	18.8%	20.9%	-18.3%	0.15	69.92%	39.2%	13,428	20,474
3574	2.09	1.72	2.08	2.18	-17.7%	20.9%	4.8%	0.10	49.18%	38.6%	1,467,737	612,653
8603	0.06	0.06	0.07	0.06	0.0%	16.7%	-14.3%	0.08	33.33%	31.0%	5,072,703	5,108,245
8602	0.82	0.96	1.11	1.00	17.1%	15.6%	-9.9%	0.12	48.78%	27.0%	195,785	236,449
4665	8.73	9.01	9.02	6.89	3.2%	0.1%	-23.6%	0.12	27.72%	26.8%	11,430	3,549
7403	3.93	3.88	4.26	3.56	-1.3%	9.8%	-16.4%	0.07	29.46%	26.2%	2,146,330	2,215,593
7580	2.17	2.23	2.50	2.17	2.8%	12.1%	-13.2%	0.07	30.41%	25.3%	310,382	345,479
3240	2.32	2.71	2.48		16.8%	-8.5%		0.08		25.3%	3,708	
7024	2.21	2.60	2.93	2.72	17.6%	12.7%	-7.2%	0.12	42.08%	24.8%	3,805	2,656
3169	2.08	2.22	2.48	2.17	6.7%	11.7%	-12.5%	0.08	34.13%	24.2%	74,896	81,327
4131	3.98	4.55	4.58	4.13	14.3%	0.7%	-9.8%	0.07	26.38%	24.1%	799	0
9154	1.40	1.47	1.63	1.42	5.0%	10.9%	-12.9%	0.07	31.43%	23.8%	1,030,761	1,027,988
3132	3.68	3.68	4.45	4.33	0.0%	20.9%	-2.7%	0.10	24.18%	23.6%	8,404	8,317
8725	1.87	1.99	2.05	1.70	6.4%	3.0%	-17.1%	0.08	28.34%	23.5%	13,373	10,953
9019	1.53	1.80	1.94	1.83	17.6%	7.8%	-5.7%	0.10	33.99%	23.3%	2,998	2,686
7313	3.28	3.38	3.25	2.60	3.0%	-3.8%	-20.0%	0.11	28.41%	23.0%	37	37
7225	6.15	6.02	7.28	7.68	-2.1%	20.9%	5.5%	0.12	30.27%	23.0%	176,366	291,900
3807	2.00	2.02	2.28	2.05	1.0%	12.9%	-10.1%	0.06	25.50%	23.0%	222,545	249,963
8861	1.16	1.14	1.25	1.09	-1.7%	9.6%	-12.8%	0.06	25.82%	22.4%	5,866,339	6,551,199
8726	1.88	1.78	1.82	1.46	-5.3%	2.2%	-19.8%	0.11	28.99%	22.0%	3,814	3,814
3826	1.02	1.00	1.07	0.91	-2.0%	7.0%	-15.0%	0.07	25.41%	22.0%	123,855	117,818
0035	1.88	2.07	2.03	1.79	10.1%	-1.9%	-11.8%	0.07	25.50%	21.9%	181,933	173,701
8723	0.14	0.14	0.14	0.11	0.0%	0.0%	-21.4%	0.11	21.43%	21.4%	20,034,704	21,964,732
5537	3.53	3.83	3.66	3.19	8.5%	-4.4%	-12.8%	0.08	27.87%	21.3%	3,906,367	3,929,936
1438	11.66	12.64	12.78	11.16	8.4%	1.1%	-12.7%	0.06	23.50%	21.1%	295,545	390,265
6213	1.28	1.15	1.11	1.23	-10.2%	-3.5%	10.8%	0.06	26.31%	21.0%	2,937	10,200
5551	13.75	13.67	14.25	11.90	-0.6%	4.2%	-16.5%	0.08	22.14%	20.7%	813,620	905,526
9063	0.72	0.69	0.76	0.68	-4.2%	10.1%	-10.5%	0.05	26.81%	20.7%	2,262,010	2,349,934
8824	2.32	1.88	1.91	1.67	-19.0%	1.6%	-12.6%	0.14	36.05%	20.6%	1,462,373	1,735,387
2797	4.35	4.75	5.07	4.50	9.2%	6.7%	-11.2%	0.07	29.66%	20.4%	26,107	27,293
2651	2.13	2.21	2.23	1.86	3.8%	0.9%	-16.6%	0.08	22.07%	20.3%	75,814	56,805
0401	10.31	10.47	10.77	8.89	1.6%	2.9%	-17.5%	0.08	22.70%	20.3%	66,858	76,644
5057	3.69	3.66	4.34	4.27	-0.8%	18.6%	-1.6%	0.09	21.47%	20.2%	367,382	437,744
9101	3.36	3.13	3.36	2.93	-6.8%	7.3%	-12.8%	0.06	29.37%	20.1%	2,697,997	2,785,563
5437	3.91	4.04	4.45	4.01	3.3%	10.1%	-9.9%	0.06	25.06%	20.0%	1,329,660	1,381,071
3803	1.73	2.00	2.28	2.18	15.6%	14.0%	-4.4%	0.12	37.57%	20.0%	182,178	197,045
2105	3.23	3.42	4.00	3.88	5.9%	17.0%	-3.0%	0.10	27.55%	20.0%	6,033	8,061
7431	0.94	0.99	1.04	0.89	5.3%	5.1%	-14.4%	0.07	26.60%	19.7%	236,558	252,254
8709	4.36	4.35	4.12	3.30	-0.2%	-5.3%	-19.9%	0.12	26.53%	19.7%	736	736
2095	2.87	3.23	3.42	3.18	12.5%	5.9%	-7.0%	0.07	27.53%	19.6%	1,714,751	1,985,603
5472	5.09	4.55	4.36	4.75	-10.6%	-4.2%	8.9%	0.07	25.53%	19.6%	84,931	71,466
7317	8.38	8.02	7.99	6.40	-4.3%	-0.4%	-19.9%	0.11	25.52%	19.5%	10,200	10,200
7538	5.51	5.13	5.10	4.08	-6.9%	-0.6%	-20.0%	0.11	29.03%	19.4%	781,649	1,021,858
5192	2.13	2.19	2.55	2.48	2.8%	16.4%	-20.0%	0.09	23.00%	19.2%	545,002	593,137
4243	2.06	2.06	2.21	1.95	0.0%	7.3%	-11.8%	0.05	19.90%	19.0%	528,667	551,309
8001	1.74	1.88	1.95	1.74	8.0%	3.7%	-10.8%	0.05	24.14%	18.8%	398,020	402,684
2731	3.49	3.68	3.47	3.01	5.4%	-5.7%	-13.3%	0.08	26.24%	18.7%	409,352	416,030
6206	2.09	2.10	2.28	2.05	0.5%	8.6%	-10.1%	0.05	20.10%	18.7%	403,332	410,030
6400	4.49	5.06					-5.9%	0.05			203,337	217,867
			4.94	4.65	12.7%	-2.4%			22.14%	18.6%		
7232	6.66	6.86 E 21	7.53 5.70	6.87	3.0%	9.8%	-8.8% 7.2%	0.05	22.97%	18.5%	308,032	271,098
1005	4.68	5.21	5.70	5.29	11.3%	9.4%	-7.2%	0.08	30.56%	18.5%	11,957	11,810
3081	3.85	3.95	4.27	3.84	2.6%	8.1%	-10.1%	0.05	22.08%	18.2%	102,361	94,109
5059	25.77	24.30	23.46	18.39	-5.7%	-3.5%	-21.6%	0.14	32.99%	18.2%	58,420	86,943
3145	2.31	2.26	2.33	1.99	-2.2%	3.1%	-14.6%	0.07	20.70%	17.7%	120,429	108,471
2021	1.86	2.06	2.49	2.57	10.8%	20.9%	3.2%	0.15	38.17%	17.7%	102,411	114,120
8102	2.03	1.92	2.01	1.75	-5.4%	4.7%	-12.9%	0.07	24.64%	17.6%	197,122	229,081
8045	0.50	0.54	0.52	0.47	8.0%	-3.7%	-9.6%	0.06	22.77%	17.6%	4,434,065	4,386,759
2413	2.45	2.52	2.65	2.32	2.9%	5.2%	-12.5%	0.06	21.63%	17.6%	7,832	7,553

						Swing								
			Cost			rcent Chan		Loss Cost	Absolute	Max - Min	Payroll (
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>		
8215	3.56	3.50	3.71	3.28	-1.7%	6.0%	-11.6%	0.05	20.28%	17.6%	1,113,854	1,091,238		
5443	2.62	2.80	2.82	2.52	6.9%	0.7%	-10.6%	0.05	19.08%	17.5%	3,459	3,020		
8799	0.41	0.35	0.36	0.36	-14.6%	2.9%	0.0%	0.07	17.91%	17.5%	247,646	245,064		
3336	2.78	2.63	2.72	2.34	-5.4%	3.4%	-14.0%	0.07	24.23%	17.4%	87,932	88,819		
3638	1.79	1.88	2.18	2.15	5.0%	16.0%	-1.4%	0.10	23.46%	17.3%	149,464	139,419		
3824	4.59	4.04	3.91	3.11	-12.0%	-3.2%	-20.5%	0.16	39.24%	17.2%	921,884	938,410		
2836	2.08	2.16	2.48	2.42	3.8%	14.8%	-2.4%	0.09	22.12%	17.2%	6,959	5,585		
8103	1.93	1.92	2.24	2.41	-0.5%	16.7%	7.6%	0.11	26.17%	17.2%	23,048	25,371		
0106	6.78	7.12	6.74	5.92	5.0%	-5.3%	-12.2%	0.08	24.08%	17.2%	721,994	893,090		
2501	2.35	2.45	2.53	2.21	4.3%	3.3%	-12.6%	0.06	21.28%	16.9%	1,113,976	1,046,516		
6826	4.34	4.21	3.93	3.15	-3.0%	-6.7%	-19.8%	0.14	31.65%	16.9%	0	0		
8803	0.06	0.06	0.05	0.05	0.0%	-16.7%	0.0%	0.10	16.67%	16.7%	20,776,388	18,025,379		
9600	2.83	2.96	3.17	2.87	4.6%	7.1%	-9.5%	0.05	22.61%	16.6%	7,855	5,792		
9519	3.30	3.15	3.34	2.99	-4.5%	6.0%	-10.5%	0.05	22.47%	16.5%	474,050	533,075		
3648	1.43	1.46	1.55	1.39	2.1%	6.2%	-10.3%	0.05	19.58%	16.5%	94,392	87,308		
4829	1.06	1.07	1.11	0.97	0.9%	3.7%	-12.6%	0.06	17.92%	16.4%	1,668,028	1,958,319		
4484	2.35	2.47	2.65	2.41	5.1%	7.3%	-9.1%	0.05	22.98%	16.3%	4,585,157	4,926,480		
3507	2.41	2.57	2.59	2.34	6.6%	0.8%	-9.7%	0.05	17.84%	16.3%	890,324	990,733		
2586	2.22	2.50	2.78	2.68	12.6%	11.2%	-3.6%	0.10	29.73%	16.2%	60,762	61,529		
3581	1.16	1.22	1.27	1.13	5.2%	4.1%	-11.0%	0.05	21.55%	16.2%	67,303	102,563		
9505	3.99	3.98	3.87	3.24	-0.3%	-2.8%	-16.3%	0.09	19.79%	16.0%	95,533	101,180		
8021	2.83	2.67	2.69	2.28	-5.7%	0.7%	-15.2%	0.09	22.67%	16.0%	403,684	394,848		
3647	2.49	2.49	2.76	2.62	0.0%	10.8%	-5.1%	0.05	16.47%	15.9%	1,135,140	1,521,269		
4557	2.09	2.00	2.23	2.22	-4.3%	11.5%	-0.4%	0.05	16.82%	15.8%	230,195	247,704		
8072	0.52	0.51	0.51	0.43	-1.9%	0.0%	-15.7%	0.09	17.91%	15.7%	254,751	248,979		
5188	2.50	2.64	2.58	2.32	5.6%	-2.3%	-10.1%	0.06	18.88%	15.7%	548,196	591,429		
6872	10.59	10.12	9.12	7.30	-4.4%	-9.9%	-20.0%	0.16	37.66%	15.5%	845	845		
2121	1.28	1.18	1.26	1.15	-7.8%	6.8%	-8.7%	0.05	25.17%	15.5%	816,218	1,024,064		
8204	3.20	3.36	3.36	3.01	5.0%	0.0%	-10.4%	0.05	15.94%	15.4%	40,664	43,395		
2660	2.70	2.70	2.83	2.53	0.0%	4.8%	-10.6%	0.05	15.93%	15.4%	265,003	326,626		
3004	1.93	1.77	1.71	1.39	-8.3%	-3.4%	-18.7%	0.13	32.91%	15.3%	25	9,144		
4459	2.29	2.40	2.39	2.14	4.8%	-0.4%	-10.5%	0.05	16.25%	15.3%	1,103,493	1,140,268		
8304	3.57	4.03	4.26	4.16	12.9%	5.7%	-2.3%	0.08	22.13%	15.2%	267,651	273,760		
4511	0.39	0.41	0.40	0.36	5.1%	-2.4%	-10.0%	0.06	18.46%	15.1%	3,168,542	3,726,074		
6045	2.96	3.12	3.52	3.44	5.4%	12.8%	-2.3%	0.08	21.62%	15.1%	9,266	19,854		
4740	0.89	0.98	1.01	0.96	10.1%	3.1%	-5.0%	0.05	19.10%	15.1%	84,049	64,460		
3179	2.04	2.01	2.08	1.84	-1.5%	3.5%	-11.5%	0.05	17.12%	15.0%	1,922,409	1,880,886		
8037	1.75	1.61	1.72	1.58	-8.0%	6.8%	-8.1%	0.05	24.77%	15.0%	9,949,723	9,590,521		
7720	2.47	2.53	2.71	2.50	2.4%	7.1%	-7.7%	0.04	18.22%	14.9%	3,694,716	3,541,571		
4062	2.52	2.63	2.67	2.39	4.4%	1.5%	-10.5%	0.05	17.06%	14.9%	19,358	21,940		
4777	4.05	3.89	3.86	3.26	-4.0%	-0.8%	-15.5%	0.09	21.04%	14.8%	55,415	65,144		
1624	3.33	2.90	2.46	2.45	-12.9%	-15.2%	-0.4%	0.15	30.57%	14.8%	866,759	972,033		
3146	2.19	2.22	2.25	1.95	1.4%	1.4%	-13.3%	0.06	16.44%	14.7%	444,986	637,225		
2039	2.49	2.50	2.68	2.48	0.4%	7.2%	-7.5%	0.04	15.66%	14.7%	427,493	454,806		
8106	3.87	4.17	4.56	4.32	7.8%	9.4%	-5.3%	0.07	24.03%	14.6%	506,224	529,640		
9016	2.74	2.85	2.83	2.53	4.0%	-0.7%	-10.6%	0.05	15.85%	14.6%	431,316	470,535		
0005	2.98	2.84	2.90	2.54	-4.7%	2.1%	-12.4%	0.07	20.18%	14.5%	175,222	190,470		
2157	6.25	5.97	5.32	4.31	-4.5%	-10.9%	-19.0%	0.16	37.85%	14.5%	709,316	716,482		
9521	3.53	3.29	3.45	3.12	-6.8%	4.9%	-9.6%	0.05	22.71%	14.4%	183,284	190,221		
4828	1.96	1.82	1.94	1.79	-7.1%	6.6%	-7.7%	0.05	23.04%	14.3%	1,365,040	1,799,815		
8871	0.07	0.06	0.06	0.06	-14.3%	0.0%	0.0%	0.03	14.29%	14.3%	3,116,084	4,499,294		
8833	1.00	1.04	1.07	0.96	4.0%	2.9%	-10.3%	0.05	18.00%	14.3%	19,708,990	20,122,505		
3383	1.48	1.51	1.55	1.37	2.0%	2.6%	-10.5% -11.6%	0.05	16.89%	14.3%	32,741	55,904		
3383								0.05			5,007,821			
	2.86	3.00	2.99	2.71	4.9%	-0.3%	-9.4% 2.4%		15.10%	14.3%		4,813,108		
4751	1.70	1.75	2.05	2.12	2.9%	17.1%	3.4%	0.11	24.71%	14.2%	0	26 524		
9170	9.68	10.34	10.85	10.05	6.8%	4.9%	-7.4%	0.05	20.35%	14.2%	40,968	36,534		
4692	0.81	0.82	0.86	0.78	1.2%	4.9%	-9.3%	0.04	16.05%	14.2%	296,451	319,864		
7133	2.22	2.26	2.57	2.56	1.8%	13.7%	-0.4%	0.08	16.22%	14.1%	17,617	25,617		
4239	1.79	1.90	2.01	1.85	6.1%	5.8%	-8.0%	0.05	21.23%	14.1%	90,397	87,833		

		Loss	Cost		Pe	rcent Chan	ige	Swin Loss Cost Absolute Max - I			Payroll (1	L00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	Change	2018	2019
9014	2.27	2.43	2.27	2.11	7.0%	-6.6%	-7.0%	0.06	22.14%	14.1%	4,999,682	5,017,901
2174	2.75	2.76	2.93	2.70	0.4%	6.2%	-7.8%	0.04	14.91%	14.0%	158	28
5221	3.79	3.94	4.15	3.79	4.0%	5.3%	-8.7%	0.04	19.00%	14.0%	2,795,021	2,861,068
7405	1.26	1.19	1.22	1.08	-5.6%	2.5%	-11.5%	0.07	20.63%	14.0%	891,314	574,861
7705	3.83	3.76	3.79	3.29	-1.8%	0.8%	-13.2%	0.07	16.18%	14.0%	1,214,707	1,291,604
9179	16.95	17.37	17.95	16.04	2.5%	3.3%	-10.6%	0.05	17.17%	14.0%	89,250	103,792
8293	7.75	7.18	7.09	6.01	-7.4%	-1.3%	-15.2%	0.10	25.26%	14.0%	826,655	844,988
3114	3.06	3.25	3.35	3.09	6.2%	3.1%	-7.8%	0.04	17.97%	14.0%	55,022	34,801
9403	6.58	6.79	6.87	6.13	3.2%	1.2%	-10.8%	0.05	15.65%	14.0%	1,385,486	1,568,871
6825	2.95	2.74	2.58	2.07	-7.1%	-5.8%	-19.8%	0.15	35.78%	13.9%	155,418	155,418
2701	10.12	10.48	10.42	9.34	3.6%	-0.6%	-10.4%	0.05	14.95%	13.9%	5,992	2,541
4611	0.99	0.98	1.07	1.02	-1.0%	9.2%	-4.7%	0.04	15.44%	13.9%	3,066,941	3,488,815
3827	2.41	2.35	2.39	2.10	-2.5%	1.7%	-12.1%	0.06	16.88%	13.8%	1,055	409
2003	3.63	3.52	3.65	3.28	-3.0%	3.7%	-10.1%	0.05	17.67%	13.8%	738,283	767,071
1165	3.40	3.12	3.00	2.47	-8.2%	-3.8%	-17.7%	0.13	32.26%	13.8%	5,885	7,821
8002	1.58	1.62	1.78	1.71	2.5%	9.9%	-3.9%	0.05	17.09%	13.8%	614,729	715,537
2841	3.55	3.55	3.94	3.83	0.0%	11.0%	-2.8%	0.05	14.08%	13.8%	51,211	31,944
3082	4.60	4.61	4.76	4.26	0.2%	3.3%	-10.5%	0.05	14.35%	13.8%	48,570	40,863
7309	10.95	10.26	9.20	7.36	-6.3%	-10.3%	-20.0%	0.17	40.74%	13.7%	14,170	14,170
0034	2.25	2.41	2.62	2.49	7.1%	8.7%	-5.0%	0.06	22.22%	13.7%	480,850	492,747
4240	3.49	3.48	3.37	2.90	-0.3%	-3.2%	-13.9%	0.08	17.89%	13.7%	76,927	71,582
2388	1.50	1.52	1.55	1.37	1.3%	2.0%	-11.6%	0.05	15.33%	13.6%	95,244	140,447
2131	2.21	2.22	2.34	2.15	0.5%	5.4%	-8.1%	0.04	14.48%	13.5%	86,494	85,703
9062	1.28	1.16	1.20	1.08	-9.4%	3.4%	-10.0%	0.07	24.46%	13.4%	92,644	576,198
1452	2.95	2.81	2.96	2.72	-4.7%	5.3%	-8.1%	0.04	19.28%	13.4%	15,332	16,743
7539	2.05	1.69	1.62	1.53	-17.6%	-4.1%	-5.6%	0.13	29.23%	13.4%	536,725	797,508
5160	2.16	2.02	1.96	1.64	-6.5%	-3.0%	-16.3%	0.11	27.55%	13.4%	425,156	465,013
8826	1.62	1.74	1.87	1.76	7.4%	7.5%	-5.9%	0.06	22.22%	13.4%	1,370,394	1,490,128
1747	1.69	1.95	1.99	2.05	15.4%	2.1%	3.0%	0.08	21.30%	13.3%	46,192	49,295
4583	3.95	4.08	4.43	4.22	3.3%	8.6%	-4.7%	0.05	17.47%	13.3%	304,754	320,212
8058	2.23	2.33	2.49	2.33	4.5%	6.9%	-6.4%	0.05	18.83%	13.3%	1,974,099	2,131,443
2587	1.74	1.73	1.95	1.96	-0.6%	12.7%	0.5%	0.03	13.95%	13.3%	1,653	1,535
0042	5.34	5.32	5.69	5.33	-0.4%	7.0%	-6.3%	0.03	14.15%	13.3%	677,173	744,630
8831	1.15	1.14	1.14	0.99	-0.9%	0.0%	-13.2%	0.07	14.14%	13.2%	2,668,226	2,924,685
2288	3.68	3.55	3.84	3.65	-3.5%	8.2%	-4.9%	0.03	17.53%	13.1%	102,587	88,279
4410	2.95	2.88	3.06	2.85	-2.4%	6.3%	-6.9%	0.03	16.24%	13.1%	1,404,240	1,286,783
8832	0.25	0.23	0.23	0.20	-8.0%	0.0%	-13.0%	0.09	22.09%	13.0%	39,494,429	40,842,115
8755	0.37	0.31	0.30	0.28	-16.2%	-3.2%	-6.7%	0.12	27.96%	13.0%	604,627	622,808
3635	2.13	2.10	2.08	1.79	-1.4%	-1.0%	-13.9%	0.08	16.65%	13.0%	52,178	86,984
8353	3.31	3.21	3.44	3.24	-3.0%	7.2%	-5.8%	0.03	16.82%	13.0%	262,169	291,699
9156	2.04	2.10	2.19	2.00	2.9%	4.3%	-8.7%	0.04	16.67%	13.0%	420,251	383,505
5703	9.47	10.02	11.90	12.83	5.8%	18.8%	7.8%	0.14	35.48%	13.0%	1,815	847
3041	4.44	4.07	3.96	3.34	-8.3%	-2.7%	-15.7%	0.12	28.68%	13.0%	17,115	17,654
3257	2.50	2.47	2.48	2.17	-1.2%	0.4%	-12.5%	0.07	14.31%	12.9%	413,677	354,738
8385	1.71	1.68	1.86	1.82	-1.8%	10.7%	-2.2%	0.05	15.08%	12.9%	566,506	561,683
3315	3.22	3.04	2.97	2.52	-5.6%	-2.3%	-15.2%	0.10	24.39%	12.8%	40,313	16,786
8034	2.09	1.92	2.01	1.85	-8.1%	4.7%	-8.0%	0.05	22.21%	12.8%	207,880	192,291
5146	4.56	4.38	4.46	3.97	-3.9%	1.8%	-11.0%	0.06	17.47%	12.8%	386,755	397,377
8044	2.30	2.26	2.20	1.88	-1.7%	-2.7%	-14.5%	0.09	19.63%	12.8%	1,655,183	1,760,679
3122	1.96	2.03	2.08	1.89	3.6%	2.5%	-9.1%	0.04	15.82%	12.7%	740	985
5445	4.42	4.38	3.97	3.43	-0.9%	-9.4%	-13.6%	0.11	25.36%	12.7%	1,792,945	1,959,482
7855	3.09	3.10	3.17	2.84	0.3%	2.3%	-13.6%	0.11	13.27%	12.7%	270,051	284,317
3111	2.32	2.15	2.08	1.75	-7.3%	-3.3%	-10.4%	0.03	28.40%	12.7%	4,112	5,256
5535	5.43	5.36	5.52	4.99	-7.3% -1.3%	-3.3% 3.0%	-13.9% -9.6%	0.12	14.33%	12.6%	964,396	1,060,440
3681	0.77	0.73	0.72	0.62	-1.5% -5.2%	-1.4%	-9.6% -13.9%	0.04	21.45%	12.5%	3,200,660	3,769,972
2143					-5.2% 5.9%			0.09	19.51%		126,190	136,066
2143 8288	2.05	2.17	2.31	2.17 6.16		6.5% 1.0%	-6.1% -11.5%			12.5% 12.5%		
8288 8606	6.94	6.89	6.96	6.16	-0.7% E 1%	1.0%	-11.5%	0.06	13.44%	12.5%	145,159	141,938
	1.78	1.69 3.48	1.68 3.69	1.46	-5.1% 6.5%	-0.6% 6.0%	-13.1%	0.08 0.03	19.52%	12.5%	2,039	2,284 33,214
2735	3.72	3.40	3.03	3.54	-6.5%	0.0%	-4.1%	0.05	17.46%	12.5%	46,555	33,214

Control Cont				Law Cook					Swing						
1.00	01 0 1				2022				Loss Cost	Absolute	Max - Min				
15.05 11.00 10.46 9.66 8.07 -6.68 -5.7% -18.7% -0.31 33.9% 12.4% 88.907 10.95 10.9				·		· · · · · · · · · · · · · · · · · · ·									
4199												·			
\$3,888 \$3,7 \$4,7 \$2,12 \$2,10 \$1,22 \$2,35 \$4,994 \$1,33,94 \$0,08 \$1,0594 \$2,484 \$36,897 \$23,1089 \$7,800 \$7,300 \$7,300 \$7,300 \$7,300 \$7,300 \$7,300 \$1,4894 \$1,294 \$1,294 \$1,930 \$10,184 \$1,940 \$1															
7560 373 366 373 344 -1.99 1.99 1.05 0.05 34.89 12.98 338,705 521.108 9402 3.81 3.87 4.47 3.88 1.68 7.09 0.04 14.445 12.39 9.393 10.184 9402 3.81 3.87 4.47 3.88 1.68 7.09 0.03 13.078 12.39 3.933 10.184 14.44 3.29 3.11 3.11 2.73 -5.59 0.08 13.606 12.28 31.206 32.7416 3															
9901 283 284 287 299 278 0.0% 53,8% 7.0% 0.03 13,07% 12,3% 528,599 260,488 4114 3.29 3.11 3.11 2.73 5.5% 0.0% 1-12,2% 0.08 183,8% 12,2% 313,206 327,416 4144 3.29 3.11 3.11 2.73 5.5% 0.0% 1-12,2% 0.08 183,8% 12,2% 313,206 327,416 4184 3.29 3.11 3.11 1.73 5.5% 0.0% 1-12,2% 0.0% 1.22.67% 12,2% 146,235 196,966 4184 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20				3.73	3.34	-1.9%	1.9%	-10.5%		14.68%					
9901 283 284 299 278 0.4% 5.3% 7.0% 0.03 13.07% 12.3% 283.299 260,488 4114 31.9 311 1.73 5.5% 0.0% 0.10 21.25% 0.08 18.36% 12.2% 13.30.06 27.36% 15.25% 0.0% 0.10 21.25% 13.30.06 27.36% 15.25% 0.0% 0.10 21.25% 13.30.06 27.36% 15.25% 0.0% 0.10 21.25% 12.2% 146.23% 19.96% 148.70% 0.0% 0.00 12.25% 12.2% 146.23% 19.96% 148.70% 0.00 1.00 21.57% 12.2% 146.23% 19.96% 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 14.37% 12.2% 156.589 148.70% 0.00 15.25% 12.1% 1.382.64 1.318.783 145.20 16.2 1.6 5 1.6 6 1.4 9 1.5 9% 0.0% 10.28 0.00 15.25% 12.1% 1.552 1.433 145.34 145.20 16.2 1.6 5 1.6 6 1.4 9 1.5 9% 0.0% 10.28 0.00 15.25% 12.1% 12.50% 12.1% 15.20 14.318.783 1477 1.9 9 2.05 2.11 1.92 3.0% 2.9% 1.0.0% 10.00 17.55% 12.1% 12.5% 156.6 1.4 9 1.0 9% 10.00 17.55% 12.1% 12.5% 15.6 9.7 98 18.383 1.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2				6.50	5.41	-4.5%	-5.2%	-16.8%							
1414 3.29 3.11 3.11 2.73 5.5% 0.0% -12.2% 0.08 18.36% 12.2% 333,206 327,416 5223 5.78 5.77 4.97 4.08 8.8% 5.7% 1.79% 0.14 35,62% 12.2% 141,231 15,06,66 4693 0.75 0.82 0.92 0.92 9.3% 12.2% 0.0% 0.10 0.12.67% 12.2% 146,235 196,966 4018 4.87 4.95 5.34 5.11 1.0% 7.9% 0.0% 0.10 0.12.50% 12.2% 146,235 196,966 8013 0.32 0.32 0.34 0.32 0.0% 6.3% -9.9% 0.03 12.50% 12.1% 1.388,764 1.318,743 4852 1.62 1.65 1.66 1.49 1.9% 0.6% 10.2% 0.05 12.96% 12.1% 25.588 35.654 5510 4.73 4.25 3.68 3.63 10.1% 1.348 1.4% 0.13 3.66.67 473 4.25 3.68 3.63 10.1% 1.348 1.4% 0.13 3.66.67 12.1% 1.27.066 93.79% 4717 1.99 2.05 2.11 1.92 3.0% 2.9% -9.0% 0.04 15.58% 12.0% 79.869 38.833 7835 2.47 2.72 2.76 2.15 -10.1% 1.8% 4.9% 0.06 13.56% 11.9% 13.868 17.479 9040 3.25 3.28 3.38 3.07 1.1% 2.7% 4.2% 0.06 13.56% 11.9% 38.408 17.479 9222 3.08 3.60 4.35 4.74 1.69% 20.8% 9.0% 0.19 33.90% 11.9% 38.406 573,461 9223 3.03 3.60 4.35 4.74 1.69% 20.8% 9.0% 0.19 33.90% 11.9% 38.406 573,461 9833 0.97 0.91 0.97 0.92 -1.11% 6.6% 5.2% 0.03 33.31% 11.7% 11.811.285 1.777.907 7350 1.143 1.048 9.0% 7.57 -8.3% 9.7% 0.00 22.85% 11.8% 30.80.55 33.40.39 9833 0.92 0.91 0.99 0.90 2.28 0.95 0.	9402	3.81	3.87	4.17	3.98	1.6%	7.8%	-4.6%	0.04	14.44%	12.3%	525,603	559,803		
5222 578 527 4.97 4.08 8.88 5.7% 1.79% 0.14 35.62% 12.2% 146.235 195.02 0.92 0.92 9.93 12.2% 1.00 12.2% 146.235 195.06 4.01 2.03 0.32 1.61 1.62 1.61 1.63 1.64 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62 <td>9501</td> <td>2.83</td> <td>2.84</td> <td>2.99</td> <td>2.78</td> <td>0.4%</td> <td>5.3%</td> <td>-7.0%</td> <td>0.03</td> <td>13.07%</td> <td>12.3%</td> <td>238,259</td> <td>260,438</td>	9501	2.83	2.84	2.99	2.78	0.4%	5.3%	-7.0%	0.03	13.07%	12.3%	238,259	260,438		
4998 0.75 0.82 0.92 0.92 9.3% 12.2% 0.0% 0.10 0.10 12.67% 12.2% 146.235 196.966 4018 4.87 4.95 5.34 5.11 1.0% 7.9% 4.3% 4.3% 4.3% 1.2% 1.18 1.56.389 148.705 8013 0.32 0.32 0.34 0.32 0.0% 6.3% -5.9% 0.03 12.59% 12.1% 1.38.764 1.318.783 4352 1.62 1.65 1.66 1.69 1.9% 0.0% 10.2% 0.05 12.90% 12.1% 1.55.389 35.654 4352 1.62 1.65 1.66 1.49 1.9% 0.0% 10.2% 0.05 12.90% 12.1% 12.55.388 35.654 4717 1.99 2.05 2.11 1.92 3.0% 2.9% -9.0% 0.00 15.56% 12.1% 127.006 9.7888 2333 2.47 2.22 2.26 2.15 -10.11% 1.8% -4.9% 0.06 17.56% 11.9% 18.488 12.429 99040 3.25 3.29 3.38 3.07 1.2% 2.7% -9.2% 0.00 1.56% 11.9% 18.488 12.429 9922 3.08 3.60 4.35 4.74 16.9% 0.08% 9.0% 0.19 33.90% 11.9% 354.200 573.148 9033 0.92 0.91 0.97 0.92 -1.1% 6.6% -2.7% 0.09 22.58% 11.8% 30.8,355 33.603 33.60 3.23 3.25 3.35 3.06 0.0% 31.8 8.7% 0.09 22.58% 11.8% 30.8,355 33.603 30.80 3.09 2.80 -5.3% 2.3% 9.4% 0.05 17.88% 11.7% 11.83.1285 12.777.907 9033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.0% 0.01 13.31% 11.7% 11.83.1285 12.777.307 9034 3.25 3.25 3.35 3.06 0.0% 31.8 8.7% 0.00 17.88% 11.7% 12.83.1285 12.777.307 9035 1.24 1.35 1.35 1.35 1.35 1.35 1.35 0.0% 1.33.3% 11.7% 1.28.25772 0.00	4114	3.29	3.11	3.11	2.73	-5.5%	0.0%	-12.2%	0.08	18.36%	12.2%	313,206	327,416		
4018 4,87 4,95 5,34 5,11 1,06 7,9% -4,3% 0,04 12,2% 155,689 12,1% 1338,764 1318,783 2002 2,36 2,46 2,54 2,34 4,2% 3,3% -7,9% 0,04 15,10% 12,1% 1,532,88 3,65 1,453 4352 1,62 1,65 1,66 1,49 1,9% 0,08 -1,01% 0.05 12,9% 1,1% 1,25,28 3,56,54 4717 1,99 2,05 2,11 1,92 3,0% 2,9% -9,0% 0,06 1,55% 1,19% 1,848 1,2429 9040 3,25 3,29 3,38 3,07 1,2% 2,7% -9,2% 0,04 13,54% 11,9% 874,206 75,7141 8265 4,68 4,13 4,13 3,37 +11,8% 0,0% -9,7% 0,09 12,58% 11,1% 8,24,20 75,71,416 8363 3,19 3,02 2,09 <td< td=""><td>5223</td><td>5.78</td><td>5.27</td><td>4.97</td><td>4.08</td><td>-8.8%</td><td>-5.7%</td><td>-17.9%</td><td>0.14</td><td>35.62%</td><td>12.2%</td><td>141,231</td><td>150,264</td></td<>	5223	5.78	5.27	4.97	4.08	-8.8%	-5.7%	-17.9%	0.14	35.62%	12.2%	141,231	150,264		
8013 0.32 0.32 0.34 0.32 0.05 6.3% -5.9% 0.03 12.50% 12.1% 1.338.764 1.318.783 1.3402 2.36 2.46 2.34 2.34 4.2% 3.3% -7.9% 0.06 10.07% 1.00 12.19% 1.21% 2.55.88 35.654 3.55.74 3.25 3.68 3.63 3.07 2.2% -3.0% 2.2% -3.0% 0.06 12.96% 12.1% 12.1% 2.55.88 35.654 3.27 3.25 3.29 3.38 3.07 2.2% -3.0% 2.2% -3.0% 0.04 13.58% 12.0% 79.809 83.833 3.24 2.22 2.26 2.15 -10.1% 1.38% -4.9% 0.06 17.56% 11.9% 15.488 12.429 9.040 3.25 3.29 3.38 3.07 1.2% 2.7% -9.2% 0.06 17.56% 11.9% 15.488 12.429 9.022 3.08 3.60 4.35 4.74 16.5% 20.8% 9.0% 0.19 53.90% 11.9% 354.200 573.141 9.25 3.29 3.35 3.	4693	0.75	0.82	0.92	0.92	9.3%	12.2%	0.0%	0.10	22.67%	12.2%	146,235	196,966		
2402 2.36 2.46 2.54 2.34 4.2% 3.3% -7.9% 0.04 15.206% 12.1% 1.532 1.433 4352 1.62 1.65 1.66 1.49 1.9% 0.0% 1.02% 0.05 1.266% 12.1% 12.7606 93.798 4717 1.99 2.05 2.11 1.92 3.0% 2.9% -0.0% 0.04 1.558% 12.0% 7.9869 93.838 3.838 12.479 9040 3.25 3.29 3.38 3.07 1.2% 2.7% -2.2% 0.04 1.35.4% 11.9% 873,196 100.281 384,039 380,03 3.0 3.0 2.9% 0.04 13.54% 11.9% 387,196 100.02,21 3.33 3.33 3.73 3.33 3.18 8.0% 0.0% 0.9 2.25.58% 11.881,235 12.717,907 2.25.58% 11.8% 3.0% 3.9% 2.0% 0.04 12.59% 11.7% 18.25,712 2.25.22 12.1 1.0%	4018	4.87	4.95	5.34	5.11	1.6%	7.9%	-4.3%	0.04	14.37%	12.2%	156,589	148,705		
4352 1.62 1.65 1.66 1.49 1.99 0.6% 1.02% 0.05 12.96% 12.1% 25.588 33.669 33.63 1.03% -1.34% -1.4% 0.13 26.62% 12.1% 12.568 33.83 33.83 23.37 2.22 2.56 2.11 1.92 3.0% 2.9% -9.0% 0.04 15.58% 12.0% 79.869 38.833 2835 2.24 2.22 2.56 2.15 -10.1% 1.8% -4.9% 0.06 15.58% 11.9% 874,966 10.03,281 9522 3.08 3.00 4.35 4.74 16.9% 20.8% 9.0% 0.19 53.90% 11.9% 874,00 573,411 18.48 11.9% 354,00 573,411 18.34 11.9% 354,00 573,411 18.34 2.7% 0.03 13.31% 11.7% 11.83 30.86 33.0,33 3.02 3.93 3.06 6.6% -5.2% 0.03 13.31% 11.7% 11.34	8013	0.32	0.32	0.34	0.32	0.0%	6.3%	-5.9%	0.03	12.50%	12.1%	1,338,764	1,318,783		
5610	2402	2.36	2.46	2.54	2.34	4.2%	3.3%	-7.9%	0.04	16.10%	12.1%	1,532	1,453		
4717 1.99 2.05 2.11 1.92 3.0% 2.9% -9.0% 0.04 15.58% 12.0% 79.869 83.833 23.85 23.27 22.22 2.66 2.15 -10.1% 1.8% -4.9% 0.06 17.56% 11.9% 873.196 1.003.281 9522 3.08 3.60 4.35 4.74 16.9% 20.8% 9.0% 0.19 53.90% 11.9% 834,200 573.411 82.65% 1.68 4.13 4.13 3.73 11.8% 0.0% -9.7% 0.09 2.58% 11.8% 308,365 334,039 90.83 0.92 0.91 0.97 0.92 -1.1% 6.6% -5.2% 0.03 13.31% 11.7% 11.831.285 12.717.907 1.925 3.23 3.25 3.35 3.06 0.6% 3.1% -8.7% 0.04 12.69% 11.7% 12.813.285 12.717.907 302,474 6836 3.19 3.02 3.09 2.80 -5.3% 2.3% -9.4% 0.05 17.88% 11.7% 15.20.68 16.3191 1.00.88 1.	4352	1.62	1.65	1.66	1.49	1.9%	0.6%	-10.2%	0.05	12.96%	12.1%	25,588	35,654		
9845 2.47 2.22 2.26 2.15 -1.01.% 1.8% -4.9% 0.06 17.56% 11.9% 18,458 12,429 9040 3.25 3.29 3.38 3.07 1.2% 2.7% 9.2% 0.04 13.54% 11.9% 873.196 1.003,281 9522 3.08 3.60 4.35 4.74 16.9% 20.8% 9.0% 0.19 33.90% 11.9% 334,020 573,141 8265 4.88 4.13 4.13 3.73 -11.8% 0.0% 9.7% 0.09 22.58% 11.8% 308,365 334,039 9083 0.92 0.91 0.97 0.92 -1.1% 6.6% 5.2% 0.03 13.31% 11.7% 11.831,255 12,717.09 1295 3.23 3.25 3.35 3.06 0.6% 3.1% -8.7% 0.04 12.69% 11.7% 16.058 16.319 8033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.0% 0.04 12.66% 11.7% 162,068 16.319 8033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.0% 0.04 12.66% 11.7% 5.452,137 5.377,406 0.079 4.24 3.57 3.42 2.97 1.15.8% 4.2% 1.5% 0.15 3.654% 11.6% 18,494 21.864 4133 1.85 1.80 1.96 1.93 2.27% 8.9% 1.5% 0.04 13.54% 11.6% 18,494 21.864 4133 1.85 1.80 1.96 1.93 2.27% 8.9% 1.5% 0.04 13.54% 11.6% 5.500 5.755 3355 2.22 2.36 2.35 2.12 1.7% 0.04% 9.8% 0.05 12.15% 11.5% 5.688 5.6056 7.335 2.15 2.05 2.19 2.26 4.47% 6.8% 3.2% 0.04 15.37% 11.5% 46.634 52.882 6.233 1.79 1.89 2.07 2.03 5.6% 9.5% 1.9% 0.05 16.66% 11.1% 4.6654 52.882 6.233 1.79 1.89 2.07 2.03 5.6% 9.5% 1.19% 0.05 16.66% 11.1% 4.6654 52.882 6.233 1.79 1.89 2.07 2.03 5.6% 9.5% 1.19% 0.05 16.66% 11.4% 4.56 3.24 2.77 1.28 4.56 4.57 4.16 4.55% 2.5% 9.0% 0.05 16.66% 11.4% 4.56 3.24 2.77 2.39 2.23 5.6% 9.5% 1.37% 0.05 16.66% 11.4% 4.56 3.24 2.77 2.39 2.23 5.6% 9.5% 1.37% 0.05 16.66% 11.4% 4.56 3.24 2.77 2.39 2.23 5.6% 9.5% 1.37% 0.05 16.66% 11.4% 4.56 3.28 2.20 2.20 2.21 1.7% 0.05 1.34 4.00 5.00 5.77 5.20 3.20 5.6% 9.5% 1.37% 0.05 16.66% 11.4% 4.56 3.28 2.20 2.21 1.71 1.50 5.55 5.8% 1.37% 0.05 11.6% 11.4% 4.56 3.28 2.20 2.21 1.71 1.50 5.55 5.8% 11.37% 0.10 23.09% 11.4% 4.21 1.49 3.69 1.25 5.5% 5.8% 11.37% 0.10 23.09% 11.4% 4.56 34.25 2.20 2.21 1.71 1.50 5.55 5.8% 1.37% 0.05 11.66% 11.4% 4.50 5.34 3.28 3.20 0.05 16.66% 11.4% 4.50 5.34 3.28 3.20 0.05 16.66% 11.4% 4.50 5.34 3.28 3.20 0.05 1.25 0.29 2.21 0.00 5.55 5.8% 11.37% 0.10 23.09% 11.4% 4.50 5.34 3.28 3.20 0.05 1.25 0.29 2.21 0.00 5.55 5.8% 11.37% 0.10 1.20 2.20% 11.4% 4.50 5.34 3.23 3.30 0.29 4.28 5.	5610	4.73	4.25	3.68	3.63	-10.1%	-13.4%	-1.4%	0.13	26.62%	12.1%	127,606	93,798		
9940 3.25 3.29 3.28 3.07 1.28 2.7% 9.2% 0.04 13.54% 11.9% 873,196 1.003.281 9522 3.08 3.00 4.35 4.74 16.9% 20.8% 9.0% 0.19 53.90% 11.9% 354,200 573,141 8265 4.68 4.13 4.13 4.13 3.73 1.11.8% 0.0% 9.7% 0.09 22.8% 11.8% 308,365 334,039 9083 0.92 0.91 0.97 0.92 1.11% 6.6% 5.2% 0.03 13.31% 11.7% 11.81.285 12.717,907 11.95 4.00 4.00 12.69% 11.7% 285,772 302,474 683 6.31,39 3.02 3.09 2.80 0.53.3 2.3% 9.4% 0.04 12.69% 11.7% 285,772 302,474 683 6.31,39 3.02 3.09 2.80 0.53.3 2.3% 9.4% 0.05 17.88% 11.7% 162,068 163,191 8033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.0% 0.04 12.66% 11.7% 9.220 9.220 0.079 4.24 3.57 3.42 2.97 1.58% 4.2% 13.2% 0.15 36.54% 11.6% 5.500 5.757 3.559 2.22 2.36 2.35 2.12 1.7% 0.4% 9.8% 0.05 12.15% 11.6% 5.500 5.757 3.559 2.22 2.36 2.35 2.12 1.7% 0.48% 9.8% 0.05 12.15% 11.6% 5.500 5.575 3.331 0.10 4.71 4.21 4.19 3.69 1.06.6% 0.58% 1.9% 0.01 12.55% 11.5% 46,634 22.882 6.333 1.79 1.89 2.07 2.03 5.6% 9.5% 1.19% 0.10 24.40% 11.5% 46,634 22.882 6.333 1.79 1.89 2.07 2.03 5.6% 9.5% 1.9% 0.07 17.88% 11.5% 12.497 268,266 3321 4.67 4.46 4.57 4.16 4.57 2.5% 9.5% 1.9% 0.05 17.26% 11.4% 384,172 268,266 3321 4.67 4.46 4.57 4.16 4.55 2.5% 9.0% 0.05 17.26% 11.4% 384,173 222,49 2.684 4.57 4.16 4.57 2.5% 9.5% 0.00 17.76% 11.4% 384,173 222,49 2.27 2.39 2.23 2.38 2.39 3.60 3.71 3.40 2.77 2.39 2.23 2.38 3.01 2.94 2.77 2.39 2.23 2.38 3.19 3.60 3.71 1.69 5.88% 5.6% 1.2% 0.03 13.00% 11.4% 384,173 222,482 2.302 1.72 1.62 1.71 1.69 5.88% 5.6% 1.2% 0.00 17.76% 11.4% 384,731 14.6% 4.59 3.00 2.27 3.28 3.28 3.29 3.00 2.27 3.29 2.28 3.28 3.29 3.29 3.29 3.20 3.29 3.30 3.40 3.99 3.40 3.50 3.31 3.40 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.5	4717	1.99	2.05	2.11	1.92	3.0%	2.9%	-9.0%	0.04	15.58%	12.0%	79,869	83,833		
9522 3.08 3.60 4.35 4.74 16.9% 20.8% 9.0% 0.19 53.90% 11.9% 334,200 573,141 8265 4.68 4.13 4.13 3.73 -11.8% 0.0% -9.7% 0.09 12.258% 11.8% 308,365 334,039 9083 0.92 0.91 0.97 0.92 -1.1% 6.6% 5.52% 0.03 13.31% 11.7% 11.831,285 12.717.907 1925 3.23 3.25 3.35 3.06 0.6% 31.% -8.7% 0.04 12.69% 11.7% 126,068 163,191 8033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.9% 0.04 12.66% 11.7% 5.452,137 5.377.406 7.350 11.43 10.48 9.46 7.57 -8.3% -9.7% -2.00% 0.17 42.66% 11.7% 5.452,137 5.377.406 7.350 11.43 10.48 9.46 7.57 -8.3% -9.7% -2.00% 0.17 42.66% 11.7% 9.220 9.220 0.079 4.24 3.57 3.42 2.97 -15.8% -4.2% -13.2% 0.15 36.54% 11.6% 18.494 21.864 4133 1.85 1.80 1.96 1.93 -2.7% 8.9% -1.5% 0.04 13.54% 11.6% 5.500 5.775 3.559 2.22 2.36 2.35 2.12 1.7% 0.4% 9.98% 0.05 12.15% 11.5% 56.885 60.562 7.335 2.15 2.05 2.19 2.26 4.7% 6.8% 3.2% 0.04 15.54% 11.5% 5.685 60.562 6.310 4.71 4.21 4.19 3.69 -10.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 1.9% 0.07 12.88% 11.5% 12.549 12.54 12.	2835	2.47	2.22	2.26	2.15	-10.1%	1.8%	-4.9%	0.06	17.56%	11.9%	18,458	12,429		
9522 3.08 3.60 4.35 4.74 16.9% 20.8% 9.0% 0.19 53.90% 11.9% 334,200 573,141 8265 4.68 4.13 4.13 3.73 -11.8% 0.0% -9.7% 0.09 12.258% 11.8% 308,365 334,039 9083 0.92 0.91 0.97 0.92 -1.1% 6.6% 5.52% 0.03 13.31% 11.7% 11.831,285 12.717.907 1925 3.23 3.25 3.35 3.06 0.6% 31.% -8.7% 0.04 12.69% 11.7% 126,068 163,191 8033 1.52 1.51 1.55 1.41 0.7% 2.6% 9.9% 0.04 12.66% 11.7% 5.452,137 5.377.406 7.350 11.43 10.48 9.46 7.57 -8.3% -9.7% -2.00% 0.17 42.66% 11.7% 5.452,137 5.377.406 7.350 11.43 10.48 9.46 7.57 -8.3% -9.7% -2.00% 0.17 42.66% 11.7% 9.220 9.220 0.079 4.24 3.57 3.42 2.97 -15.8% -4.2% -13.2% 0.15 36.54% 11.6% 18.494 21.864 4133 1.85 1.80 1.96 1.93 -2.7% 8.9% -1.5% 0.04 13.54% 11.6% 5.500 5.775 3.559 2.22 2.36 2.35 2.12 1.7% 0.4% 9.98% 0.05 12.15% 11.5% 56.885 60.562 7.335 2.15 2.05 2.19 2.26 4.7% 6.8% 3.2% 0.04 15.54% 11.5% 5.685 60.562 6.310 4.71 4.21 4.19 3.69 -10.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 0.07 12.88% 11.5% 11.5% 46.634 52.882 6.233 1.79 18.9 2.07 2.03 5.6% 9.9% 1.9% 0.07 12.88% 11.5% 12.549 12.54 12.	9040	3.25	3.29	3.38	3.07	1.2%	2.7%	-9.2%	0.04	13.54%	11.9%	873,196	1,003,281		
9825 4 68 413 413 3.73 -11.8% 0.0% -9.7% 0.09 22.58% 11.8% 308.365 343.039 9083 0.92 0.91 0.97 0.92 -1.1% 6.6% -5.2% 0.03 13.31% 11.7% 11.831,285 12.717,907 1925 3.23 3.25 3.35 3.06 0.0% 3.1% -8.7% 0.04 12.68% 11.7% 285,772 302,474 6836 3.19 3.02 3.09 2.80 -5.3% 2.3% -9.4% 0.05 17.88% 11.7% 162,068 163,191 8033 1.52 1.51 1.55 1.44 -0.7% 2.6% -9.0% 0.04 12.66% 11.7% 5.452,137 5.377,406 7350 11.43 10.48 9.46 75.7 8.3% -9.7% -20.00% 0.17 42.60% 11.7% 5.452,137 5.377,406 4133 1.85 1.80 1.96 1.93 -2.7% 8.9% -1.5% 0.04 13.54% 11.6% 18.494 21.864 4133 1.85 1.80 1.96 1.93 -2.7% 8.9% -1.5% 0.04 13.54% 11.6% 5.500 5.775 3559 2.32 2.36 2.35 2.12 1.7% -0.4% -9.8% 0.05 12.53% 11.5% 5.6.85 60.562 60.562 60.33 1.79 1.89 2.07 2.03 5.6% 9.5% -1.9% 0.00 1.5% 11.5% 11.5% 46.634 52.882 6233 1.79 1.89 2.07 2.03 5.6% 9.5% -1.9% 0.07 12.44 0.0% 11.5% 46.634 52.882 6233 1.79 1.89 2.07 2.03 5.6% 9.5% -1.9% 0.07 12.44 0.0% 11.5% 14.46 6.34 52.882 6233 1.79 1.89 2.07 2.03 5.0% 3.1% -8.4% 0.05 12.53% 11.5% 14.5% 46.634 52.882 6233 1.79 1.89 2.07 2.03 5.6% 9.5% -1.9% 0.07 12.6% 11.4% 19.2497 2.68,206 4230 1.72 1.62 1.71 1.69 1.58% 5.6% 5.5% 1.9% 0.05 12.5% 11.4% 19.2494 2.55,621 26.1545 6.35 6.30 2.77 1.58% 1.5% 0.04 11.4% 19.2494 366,315 6.3% 11.7% 1.04 0.95 0.06 1.13.3% 0.05 12.5% 0.00 11.4% 14.8% 19.2548 366,315 6.3% 11.7% 1.04 0.95 0.06 1.13.3% 0.00 11.4% 14.8% 19.2548 366,315 6.3% 11.72 1.62 1.71 1.69 1.58% 5.5% 5.5% 1.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 7.50 3.06 2.47 2.07 1.50 1.93% 1.6.2% 2.2% 0.03 13.00% 11.4% 14.5% 12.536 34.557 3.331 3.00 2.50 2.99 2.2 2.1 1.8% 0.00 1.2.5% 0.00 11.2% 13.3% 0.00 1.2.5% 0.00 1.2.5% 0.00 1.2.5% 0	9522	3.08	3.60	4.35	4.74	16.9%	20.8%	9.0%	0.19	53.90%					
9083 0.92 0.91 0.97 0.92 -1.1% 6.6% -5.2% 0.03 11.3.1% 11.7% 11.831.285 12.717.907 1925 3.23 3.25 3.35 3.06 0.6% 3.1% -8.7% 0.04 12.69% 11.7% 285,772 302,474 6836 3.19 3.02 3.09 2.80 -5.3% 2.3% 9.4% 0.05 17.88% 11.7% 5.452.137 5.377.406 7330 11.52 1.51 1.55 1.41 0.7% 2.6% 9.9% 0.04 12.666% 11.7% 5.452.137 5.377.406 7350 11.43 10.48 9.46 7.57 8.3% 9.4% 0.05 0.04 12.666% 11.7% 5.452.137 5.377.406 7350 11.43 10.48 9.46 7.57 8.3% 9.4% 0.05 0.05 11.5% 11.6% 18.494 21.864 11.33 1.85 1.80 1.96 1.93 2.2% 8.9% -1.5% 0.04 13.54% 11.6% 5.500 5.775 5.559 2.32 2.36 2.35 2.12 1.7% 0.4% 9.8% 0.05 12.15% 11.5% 56.885 60.562 7335 2.15 2.05 2.19 2.26 4.7% 6.8% 3.2% 0.04 13.54% 11.5% 56.85 60.562 7335 1.79 1.89 2.07 2.03 5.5% 9.5% 1.19% 0.07 17.88% 11.5% 46.634 52.882 6233 1.79 1.89 2.07 2.03 5.5% 9.5% 1.19% 0.07 17.88% 11.5% 45.634 52.862 1.63 3.01 2.94 2.77 2.39 -2.3% -5.8% 1.38 4.3 0.05 17.26% 11.4% 12.548 2.56.315 4.63 3.01 2.94 2.77 2.39 -2.3% -5.8% 1.38 4.40 0.05 17.26% 11.4% 12.548 366.315 4.63 3.01 2.94 2.77 2.39 -2.3% -5.8% 1.3.7% 0.10 23.09% 11.4% 348.178 228.245 2302 1.72 1.62 1.71 1.69 5.8% 5.6% 12.5% 0.03 13.00% 11.4% 348.178 228.245 230 1.72 1.62 1.71 1.69 5.05 1.99 8.4% 6.2% -2.9% 0.05 18.54% 11.3% 84.731 14.59 4.27 2.77 2.79 2.88 2.75 2.77 2.79 2.88 2.75 2.77 2.79 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.70		4.68	4.13	4.13	3.73	-11.8%	0.0%	-9.7%		22.58%					
1925 3.23 3.25 3.35 3.06 0.65% 3.1% -8.7% 0.04 12.69% 11.7% 285,772 302,474			0.91	0.97						13.31%					
6886 3.19 3.02 3.09 2.80 -5.3% 2.3% -9.4% 0.05 17.88% 11.7% 5.62,068 163,191 8033 1.52 1.51 1.55 1.41 -0.7% 2.6% -9.0% 0.04 12.66% 11.7% 5.977,406 7.77,406 7350 11.43 10.48 9.46 7.57 -8.3% -9.7% -20.00% 0.15 36.54% 11.6% 18.494 21.864 4133 1.85 1.80 1.96 1.93 2.7% 8.9% -1.5% 0.04 13.54% 11.6% 8.9% 2.15 0.05 2.15 2.05 2.19 2.26 -4.7% 6.8% 3.2% 0.04 15.37% 11.5% 166,885 60,562 3310 4.71 4.21 4.19 3.69 10.66% -0.5% -1.9% 0.07 17.88% 11.5% 46,634 52,882 6233 1.79 1.89 2.07 2.03 5.5% 9.0%															
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4244 2.36 2.32 2.48 2.39 -1.7% 6.9% -3.6% 0.03 12.65% 10.5% 1,065,506 1,146,573															
		2.22	2.15	2.19	2.00	-3.2%	1.9%	-8.7%		14.19%		283,325			
3018 5.08 4.37 3.87 3.02 -14.0% -11.4% -22.0% 0.21 54.91% 10.5% 45,812 44,270															
	3018	5.08	4.37	3.87	3.02	-14.0%	-11.4%	-22.0%	0.21	54.91%	10.5%	45,812	44,270		

	Loss Cost				Pα	rcent Char	nge	Loss Cost	Absolute	Swing Max - Min	Payroll (100's)	
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	<u>Change</u>	2018	2019
5462	5.37	4.99	4.67	3.88	-7.1%	-6.4%	-16.9%	0.13	33.22%	10.5%	338,706	372,881
4558	1.79	1.71	1.72	1.55	-4.5%	0.6%	-9.9%	0.06	15.47%	10.5%	460,416	470,601
9084	1.20	1.12	1.16	1.08	-6.7%	3.6%	-6.9%	0.05	18.10%	10.5%	848,646	905,006
9586	0.50	0.48	0.48	0.43	-4.0%	0.0%	-10.4%	0.06	14.83%	10.4%	1,620,778	1,669,015
8868	0.37	0.38	0.39	0.36	2.7%	2.6%	-7.7%	0.03	13.51%	10.4%	36,697,133	37,687,118
3085	4.37	4.41	4.61	4.34	0.9%	4.5%	-5.9%	0.03	11.67%	10.4%	624,796	583,336
4923	0.93	0.97	0.99	0.93	4.3%	2.1%	-6.1%	0.03	12.90%	10.4%	29,481	31,787
3400	4.09	4.20	4.31	3.98	2.7%	2.6%	-7.7%	0.03	13.45%	10.3%	1,078,320	1,011,958
8350	5.36	5.32	5.23	4.65	-0.7%	-1.7%	-11.1%	0.06	13.81%	10.3%	768,075	833,278
3241	3.24	2.74	2.60	2.32	-15.4%	-5.1%	-10.8%	0.14	34.40%	10.3%	300,108	267,055
3022	3.54	3.44	3.28	2.85	-2.8%	-4.7%	-13.1%	0.09	21.71%	10.3%	136,717	143,794
7610	0.37	0.39	0.41	0.39	5.4%	5.1%	-4.9%	0.04	16.22%	10.3%	2,845,344	2,768,101
4021	6.46	6.19	5.40	4.62	-4.2%	-12.8%	-14.4%	0.15	34.44%	10.3%	4,296	3,531
2089	3.33	3.17	3.13	2.77	-4.8%	-1.3%	-11.5%	0.08	18.33%	10.2%	2,186,544	2,115,020
3270	3.67	3.65	3.62	3.23	-0.5%	-0.8%	-10.8%	0.06	12.29%	10.2%	154,153	130,894
7395	3.73	3.92	4.14	3.95	5.1%	5.6%	-4.6%	0.04	16.09%	10.2%	1,502	1,407
9058	1.41	1.33	1.39	1.32	-5.7%	4.5%	-5.0%	0.03	16.00%	10.2%	1,040,888	1,043,932
9060	1.11	1.06	1.12	1.10	-4.5%	5.7%	-1.8%	0.02	12.39%	10.2%	1,420,876	1,390,577
3620	3.68	3.69	3.64	3.28	0.3%	-1.4%	-9.9%	0.05	11.68%	10.2%	546,839	574,980
8387	2.79	2.55	2.48	2.16	-8.6%	-2.7%	-12.9%	0.10	25.98%	10.2%	2,070,582	2,153,324
4741	2.14	2.22	2.31	2.17	3.7%	4.1%	-6.1%	0.03	14.49%	10.1%	80,853	85,022
2362	1.65	1.73	1.94	1.98	4.8%	12.1%	2.1%	0.09	20.00%	10.1%	1,724	1,299
3188	2.31	2.16	2.19	2.00	-6.5%	1.4%	-8.7%	0.06	17.34%	10.1%	270,958	267,017
5402	3.31	3.72	4.26	4.45	12.4%	14.5%	4.5%	0.13	34.44%	10.1%	6,600	6,512
9044	0.88	0.88	0.90	0.83	0.0%	2.3%	-7.8%	0.03	10.23%	10.1%	1,641,392	1,670,288
1430	5.15	5.40	5.22	4.95	4.9%	-3.3%	-5.2%	0.04	13.95%	10.0%	186,536	172,793
8008	0.86	0.88	0.91	0.85	2.3%	3.4%	-6.6%	0.03	12.79%	10.0%	3,637,119	3,566,573
2710	13.52	12.46	12.62	11.52	-7.8%	1.3%	-8.7%	0.07	18.75%	10.0%	129,721	92,704
7402	0.11	0.10	0.10	0.09	-9.1%	0.0%	-10.0%	0.08	20.00%	10.0%	8,723	9,076
8748	0.52	0.49	0.51	0.48	-5.8%	4.1%	-5.9%	0.04	16.56%	10.0%	3,342,328	3,521,051
0036	7.39	6.61	5.93	4.73	-10.6%	-10.3%	-20.2%	0.18	46.60%	9.9%	83,665	73,199
2041	2.46	2.47	2.54	2.36	0.4%	2.8%	-7.1%	0.03	10.57%	9.9%	64,450	43,278
9178	10.78	10.14	10.32	9.48	-5.9%	1.8%	-8.1%	0.05	16.59%	9.9%	111,418	92,050
7219	6.54	6.43	6.38	5.70	-1.7%	-0.8%	-10.7%	0.06	13.39%	9.9%	12,624,490	13,459,655
2960	5.54	5.19	4.97	4.27	-6.3%	-4.2%	-14.1%	0.11	26.43%	9.8%	25,698	22,746
8291	3.01	2.89	2.99	2.80	-4.0%	3.5%	-6.4%	0.03	14.42%	9.8%	291,865	264,787
2790	1.62	1.63	1.80	1.85	0.6%	10.4%	2.8%	0.07	14.20%	9.8%	34,714	47,222
5506	4.56	4.68	4.62	4.29	2.6%	-1.3%	-7.1%	0.04	11.37%	9.8%	1,910,702	1,930,244
2759	6.19	6.08	5.91	5.23	-1.8%	-2.8%	-11.5%	0.07	16.66%	9.7%	315,694	299,454
6252	3.08	2.95	2.79	2.91	-4.2%	-5.4%	4.3%	0.04	14.60%	9.7%	51,057	18,927
8233	2.05	1.97	1.96	1.76	-3.9%	-0.5%	-10.2%	0.06	15.09%	9.7%	30,102	27,992
9093	1.26	1.23	1.16	1.02	-2.4%	-5.7%	-12.1%	0.09	21.27%	9.7%	232,463	235,251
9052	1.70	1.71	1.66	1.51	0.6%	-2.9%	-9.0%	0.06	12.88%	9.6%	4,595,055	4,445,310
7425	2.51	2.02	1.82	1.49	-19.5%	-9.9%	-18.1%	0.22	55.17%	9.6%	263,934	308,013
3385	0.81	0.82	0.88	0.86	1.2%	7.3%	-2.3%	0.04	11.11%	9.6%	4,802	4,105
7230	6.20	6.01	6.30	6.00	-3.1%	4.8%	-4.8%	0.02	13.18%	9.6%	366,248	623,474
2014	4.50	4.52	4.62	4.28	0.4%	2.2%	-7.4%	0.03	10.22%	9.6%	740,966	720,216
1654	3.77	3.47	3.45	3.10	-8.0%	-0.6%	-10.1%	0.08	19.60%	9.6%	29,811	25,207
1164	4.59	4.39	4.25	3.71	-4.4%	-3.2%	-12.7%	0.09	21.37%	9.5%	880,843	979,574
3040	5.18	4.84	4.76	4.23	-6.6%	-1.7%	-11.1%	0.08	20.39%	9.5%	290,156	301,783
3851	3.40	2.69	2.38	2.04	-20.9%	-11.5%	-14.3%	0.22	54.07%	9.4%	248,517	38,151
2130	1.72	1.68	1.72	1.60	-2.3%	2.4%	-7.0%	0.03	12.07%	9.4%	205,956	190,793
1016	11.22	12.52	14.64	15.75	11.6%	16.9%	7.6%	0.15	40.37%	9.4%	31	555
4307	1.70	1.68	1.79	1.74	-1.2%	6.5%	-2.8%	0.03	10.81%	9.3%	83,489	82,962
4420	4.09	3.92	3.89	3.50	-4.2%	-0.8%	-10.0%	0.06	15.48%	9.3%	1,423	4,971
1699	2.80	2.56	2.50	2.21	-8.6%	-2.3%	-11.6%	0.10	24.01%	9.3%	192,836	211,533
5020	4.51	4.23	4.07	3.54	-6.2%	-3.8%	-13.0%	0.10	24.58%	9.2%	86,170	89,875
1710	3.06	3.03	3.28	3.28	-1.0%	8.3%	0.0%	0.04	9.31%	9.2%	29,825	27,964
6835	2.65	2.59	2.62	2.41	-2.3%	1.2%	-8.0%	0.04	11.74%	9.2%	0	0

							Swing					
			Cost			rcent Char		Loss Cost	Absolute	Max - Min	Payroll (2	
Class Code	<u>2019</u>	2020	<u>2021</u>	2022	<u>2020</u>	<u>2021</u>	<u>2022</u>	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
5645	8.92	9.19	8.95	8.40	3.0%	-2.6%	-6.1%	0.04	12.21%	9.2%	2,302,360	2,270,483
8800	1.30	1.23	1.21	1.08	-5.4%	-1.6%	-10.7%	0.08	18.60%	9.1%	414,247	362,815
2211	10.16	9.36	8.97	7.79	-7.9%	-4.2%	-13.2%	0.11	27.15%	9.0%	122	204
2623	6.61	6.02	5.79	5.05	-8.9%	-3.8%	-12.8%	0.11	27.54%	9.0%	28,347	29,999
9061	1.45	1.30	1.25	1.09	-10.3%	-3.8%	-12.8%	0.12	29.26%	9.0%	322,767	316,473
3131	1.84	1.81	1.79	1.61	-1.6%	-1.1%	-10.1%	0.06	13.09%	9.0%	141	8,989
9554	8.04	7.50	7.40	6.64	-6.7%	-1.3%	-10.3%	0.08	19.25%	8.9%	186,348	171,233
9082	1.15	1.11	1.12	1.03	-3.5%	0.9%	-8.0%	0.05	12.80%	8.9%	16,479,495	16,727,798
3548	1.44	1.43	1.48	1.40	-0.7%	3.5%	-5.4%	0.02	9.85%	8.9%	29,206	113,526
3632	2.86	2.80	2.81	2.57	-2.1%	0.4%	-8.5%	0.05	11.21%	8.9%	4,028,332	4,045,673
8856	0.26	0.30	0.36	0.40	15.4%	20.0%	11.1%	0.19	53.85%	8.9%	396,928	388,360
0251	3.52	3.35	3.38	3.11	-4.8%	0.9%	-8.0%	0.05	14.22%	8.9%	8,788	9,014
5951	0.34	0.35	0.39	0.40	2.9%	11.4%	2.6%	0.08	17.65%	8.9%	38,201	147,966
6229	4.03	3.91	4.14	4.13	-3.0%	5.9%	-0.2%	0.03	9.30%	8.9%	96,852	108,062
2016	2.93	2.88	2.84	2.55	-1.7%	-1.4%	-10.2%	0.06	13.65%	8.8%	246,791	283,276
0913	381.00	394.00	423.00	417.00	3.4%	7.4%	-1.4%	0.05	12.60%	8.8%	494	416
7098	10.66	10.44	10.54	9.72	-2.1%	1.0%	-7.8%	0.04	11.06%	8.7%	10	10
4263	3.59	3.32	3.36	3.26	-7.5%	1.2%	-3.0%	0.04	12.05%	8.7%	25,976	33,594
8209	3.69	3.57	3.56	3.24	-3.3%	-0.3%	-9.0%	0.05	12.85%	8.7%	414	580
3300	3.92	3.93	4.28	4.46	0.3%	8.9%	4.2%	0.06	13.78%	8.7%	346,189	329,974
1642	2.47	2.43	2.60	2.61	-1.6%	7.0%	0.4%	0.04	9.15%	8.6%	221,769	337,376
4683	3.73	3.58	3.60	3.31	-4.0%	0.6%	-8.1%	0.04	13.03%	8.6%	54,677	62,893
3643	2.18	2.41	2.68	2.75	10.6%	11.2%	2.6%	0.03	26.15%	8.6%	1,935,098	1,849,507
3515		2.59	2.57					0.10		8.6%	4,588	
	2.65			2.33	-2.3%	-0.8%	-9.3%		12.68%			5,171
7231	7.46	6.91	6.99	6.50	-7.4%	1.2%	-7.0%	0.06	16.23%	8.5%	518,188	635,884
0016	5.75	5.19	4.80	4.03	-9.7%	-7.5%	-16.0%	0.15	36.91%	8.5%	19,768	20,905
4653	1.28	1.29	1.41	1.45	0.8%	9.3%	2.8%	0.06	13.28%	8.5%	7,004	4,772
1320	1.46	1.40	1.42	1.32	-4.1%	1.4%	-7.0%	0.04	13.03%	8.5%	8,790	11,948
6504	2.31	2.29	2.25	2.04	-0.9%	-1.7%	-9.3%	0.06	12.21%	8.5%	4,309,722	4,443,474
4470	2.10	2.17	2.15	2.04	3.3%	-0.9%	-5.1%	0.03	9.62%	8.4%	89,371	100,135
8728	0.34	0.37	0.41	0.42	8.8%	10.8%	2.4%	0.10	23.53%	8.4%	483,232	359,941
8810	0.12	0.11	0.11	0.11	-8.3%	0.0%	0.0%	0.04	8.33%	8.3%	266,583,997	276,621,758
1463	9.29	9.01	8.77	7.81	-3.0%	-2.7%	-10.9%	0.07	17.33%	8.3%	133,566	160,651
8820	0.14	0.13	0.11	0.10	-7.1%	-15.4%	-9.1%	0.15	34.87%	8.2%	12,553,533	13,407,433
3126	1.27	1.31	1.36	1.30	3.1%	3.8%	-4.4%	0.03	11.81%	8.2%	35,706	33,853
4038	4.26	3.83	3.71	3.29	-10.1%	-3.1%	-11.3%	0.11	26.40%	8.2%	12,410	9,458
8000	2.60	2.53	2.39	2.13	-2.7%	-5.5%	-10.9%	0.09	20.16%	8.2%	72,044	69,822
3030	4.25	4.32	4.48	4.28	1.6%	3.7%	-4.5%	0.02	10.12%	8.2%	839,145	1,001,745
6003	4.17	4.26	4.58	4.55	2.2%	7.5%	-0.7%	0.05	10.55%	8.2%	15,109	27,200
8742	0.25	0.24	0.25	0.24	-4.0%	4.2%	-4.0%	0.02	12.67%	8.2%	62,480,616	66,743,873
3808	3.55	3.50	3.59	3.39	-1.4%	2.6%	-5.6%	0.02	9.81%	8.1%	326,249	236,323
2172	1.53	1.47	1.48	1.37	-3.9%	0.7%	-7.4%	0.05	12.40%	8.1%	379	200
2570	3.87	3.77	3.86	3.64	-2.6%	2.4%	-5.7%	0.03	11.02%	8.1%	29,367	34,289
0113	5.04	4.54	4.39	3.89	-9.9%	-3.3%	-11.4%	0.11	26.49%	8.1%	10,830	11,673
8032	1.74	1.70	1.75	1.66	-2.3%	2.9%	-5.1%	0.02	10.72%	8.1%	344,297	321,701
8018	2.12	2.19	2.31	2.25	3.3%	5.5%	-2.6%	0.04	11.79%	8.1%	5,668,336	5,946,720
9102	2.71	2.50	2.48	2.26	-7.7%	-0.8%	-8.9%	0.07	18.25%	8.1%	2,435,098	2,575,602
2380	2.10	1.98	2.00	1.86	-5.7%	1.0%	-7.0%	0.05	14.26%	8.0%	648	250
9220	3.62	3.45	3.53	3.33	-4.7%	2.3%	-5.7%	0.04	13.19%	8.0%	179,998	177,762
1322	6.25	6.10	6.44	6.30	-2.4%	5.6%	-2.2%	0.02	10.46%	8.0%	25	58
3064	3.16	3.32	3.45	3.35	5.1%	3.9%	-2.9%	0.04	12.34%	8.0%	147,299	136,188
9089	1.04	0.99	0.94	0.82	-4.8%	-5.1%	-12.8%	0.10	24.16%	8.0%	3,011	213
8264	4.63	4.52	4.43	3.99	-2.4%	-2.0%	-9.9%	0.06	14.78%	7.9%	235,491	226,395
4110	1.28	1.21	1.16	1.02	-5.5%	-4.1%	-12.1%	0.09	23.08%	7.9%	47,566	40,502
5040	11.95	11.04	9.71	8.20	-7.6%	-12.0%	-15.6%	0.16	39.33%	7.9%	130,019	131,423
5473	7.13	6.81	6.85	6.35	-4.5%	0.6%	-7.3%	0.05	12.77%	7.9%	101,666	84,887
8017	1.38	1.31	1.28	1.15	-5.1%	-2.3%	-10.2%	0.08	18.39%	7.9%	9,161,584	9,162,880
8721	0.25	0.25	0.26	0.25	0.0%	4.0%	-3.8%	0.02	8.00%	7.8%	254,205	288,679
2589	1.91	1.88	1.96	1.89	-1.6%	4.3%	-3.6%	0.02	9.67%	7.8%	197,809	191,798
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			Swing									
			Cost			rcent Chan		Loss Cost	Absolute	Max - Min	Payroll (1	
Class Code	2019	2020	2021	2022	2020	<u>2021</u>	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
3334	1.86	1.80	1.79	1.64	-3.2%	-0.6%	-8.4%	0.05	12.50%	7.8%	105,217	111,013
5215	4.89	4.87	4.86	4.47	-0.4%	-0.2%	-8.0%	0.04	8.69%	7.8%	536,178	548,591
6884	5.41	5.16	5.03	4.51	-4.6%	-2.5%	-10.3%	0.08	18.35%	7.8%	0	0
2002	2.80	2.91	3.08	3.02	3.9%	5.8%	-1.9%	0.04	12.14%	7.8%	224,260	211,928
6834	3.40	3.09	2.62	2.18	-9.1%	-15.2%	-16.8%	0.19	46.83%	7.7%	913,322	975,909
8232	4.90	5.00	5.00	4.72	2.0%	0.0%	-5.6%	0.03	7.76%	7.6%	2,975,514	3,016,851
3118	2.14	2.05	1.99	1.78	-4.2%	-2.9%	-10.6%	0.08	18.57%	7.6%	15,272	12,623
5403	5.12	4.98	4.92	4.49	-2.7%	-1.2%	-8.7%	0.06	13.06%	7.5%	2,937,941	3,140,322
7370	4.50	4.12	4.02	3.62	-8.4%	-2.4%	-10.0%	0.09	22.13%	7.5%	150,342	167,131
7382	4.32	4.07	4.14	4.08	-5.8%	1.7%	-1.4%	0.03	9.17%	7.5%	1,371,359	1,232,614
8031	2.03	1.98	2.01	1.89	-2.5%	1.5%	-6.0%	0.03	10.23%	7.5%	188,559	183,634
9410	2.75	2.63	2.71	2.60	-4.4%	3.0%	-4.1%	0.03	11.90%	7.4%	210,689	208,993
2070	4.03	3.91	3.86	3.53	-3.0%	-1.3%	-8.5%	0.06	13.21%	7.3%	996,794	958,478
6216	4.20	3.96	4.01	3.77	-5.7%	1.3%	-6.0%	0.04	13.46%	7.2%	10,248	15,923
7605	1.70	1.66	1.66	1.54	-2.4%	0.0%	-7.2%	0.04	9.75%	7.2%	953,794	1,018,954
8381	2.31	2.10	2.06	1.88	-9.1%	-1.9%	-8.7%	0.08	20.88%	7.2%	78,251	78,683
5606	1.15	1.10	1.12	1.06	-4.3%	1.8%	-5.4%	0.03	11.94%	7.2%	5,466,731	5,999,046
8855	0.15	0.14	0.14	0.13	-6.7%	0.0%	-7.1%	0.06	14.29%	7.1%	28,781,844	30,518,357
4431	1.27	1.26	1.26	1.17	-0.8%	0.0%	-7.1%	0.04	7.99%	7.1%	14,577	11,027
3881	3.77	3.69	3.57	3.24	-2.1%	-3.3%	-9.2%	0.07	15.19%	7.1%	197,796	303,923
8745	4.14	3.49	3.19	2.90	-15.7%	-8.6%	-9.1%	0.15	37.07%	7.1%	14,177	18,402
0083	4.55	4.34	4.25	3.86	-4.6%	-2.1%	-9.2%	0.07	16.58%	7.1%	856,882	909,983
4036	2.62	2.40	2.25	2.22	-8.4%	-6.3%	-1.3%	0.08	16.71%	7.1%	47,994	43,949
3027	2.55	2.45	2.28	2.03	-3.9%	-6.9%	-11.0%	0.10	23.32%	7.0%	12,462	14,117
2883	2.96	2.83	2.74	2.46	-4.4%	-3.2%	-10.2%	0.08	18.72%	7.0%	1,362,081	1,417,903
3685	1.22	1.16	1.09	0.96	-4.9%	-6.0%	-11.9%	0.10	24.52%	7.0%	1,357,602	1,443,653
5348	3.88	3.73	3.50	3.12	-3.9%	-6.2%	-10.9%	0.09	22.24%	7.0%	676,263	625,804
5474	5.06	4.73	4.75	4.51	-6.5%	0.4%	-5.1%	0.05	12.38%	6.9%	1,918,313	1,992,460
4825	0.72	0.72	0.72	0.67	0.0%	0.4%	-6.9%	0.03	6.94%	6.9%	2,183,200	2,277,590
8500	4.83	4.60	4.61	4.30	-4.8%	0.0%	-6.7%	0.04	12.05%	6.9%	88,584	85,899
7422	2.12	1.73	1.52	1.23	-4.8%	-12.1%	-19.1%	0.03	58.10%	6.9%		
7422 7590	2.12	2.59	2.62	2.47	-18.4% -4.1%	1.2%	-19.1% -5.7%	0.23	11.31%	6.9%	98,765 126,450	101,431 130,649
1701	3.10	3.08	2.02	2.47	-4.1%	-4.5%	-3.7% -7.5%	0.04	13.09%	6.8%	856,510	897,825
4206	2.35	2.34 0.73	2.49	2.49	-0.4%	6.4%	0.0%	0.03	6.86%	6.8%	11,299	19,608
8015	0.78		0.68	0.59	-6.4%	-6.8%	-13.2%	0.12	28.75%	6.8%	375,450	413,865
5507	3.21	3.20	3.28	3.14	-0.3%	2.5%	-4.3%	0.02	7.21%	6.8%	170,856	211,200
8869	0.89	0.89	0.89	0.83	0.0%	0.0%	-6.7%	0.03	6.74%	6.7%	3,463,127	3,677,992
5213	6.06	5.39	4.86	4.65	-11.1%	-9.8%	-4.3%	0.12	27.25%	6.7%	1,493,212	1,481,553
6214	1.68	1.58	1.52	1.36	-6.0%	-3.8%	-10.5%	0.09	21.55%	6.7%	25	0
9015	2.68	2.66	2.73	2.62	-0.7%	2.6%	-4.0%	0.02	7.56%	6.7%	3,923,390	4,074,551
3372	3.41	3.13	2.99	2.66	-8.2%	-4.5%	-11.0%	0.10	25.53%	6.6%	158,036	230,448
3642	1.28	1.21	1.12	1.11	-5.5%	-7.4%	-0.9%	0.07	14.33%	6.5%	2,059	15
9182	1.63	1.67	1.75	1.72	2.5%	4.8%	-1.7%	0.03	9.20%	6.5%	526,654	559,244
8010	1.56	1.53	1.60	1.60	-1.9%	4.6%	0.0%	0.02	6.59%	6.5%	2,742,818	2,726,836
8107	2.44	2.35	2.32	2.14	-3.7%	-1.3%	-7.8%	0.05	13.16%	6.5%	1,999,771	2,091,839
6325	3.06	2.83	2.80	2.65	-7.5%	-1.1%	-5.4%	0.06	14.48%	6.5%	601,593	709,704
2799	5.05	5.03	4.69	4.37	-0.4%	-6.8%	-6.8%	0.07	14.50%	6.4%	36,736	33,216
5222	6.85	6.74	6.70	6.23	-1.6%	-0.6%	-7.0%	0.04	9.38%	6.4%	261,292	220,956
3726	3.32	3.18	3.25	3.17	-4.2%	2.2%	-2.5%	0.02	9.13%	6.4%	226,003	214,053
3307	3.58	3.27	2.92	2.48	-8.7%	-10.7%	-15.1%	0.15	38.42%	6.4%	74,091	77,692
7540	2.72	2.55	2.51	2.31	-6.3%	-1.6%	-8.0%	0.07	16.52%	6.4%	150	0
0050	4.46	4.48	4.55	4.33	0.4%	1.6%	-4.8%	0.02	6.95%	6.4%	157,934	173,355
8039	1.07	1.11	1.19	1.20	3.7%	7.2%	0.8%	0.06	12.15%	6.4%	1,056,295	1,345,124
2802	4.92	4.92	4.88	4.57	0.0%	-0.8%	-6.4%	0.04	7.22%	6.4%	322,298	330,124
4251	3.36	3.28	3.41	3.41	-2.4%	4.0%	0.0%	0.02	6.44%	6.3%	148,058	143,877
4130	3.17	3.09	3.03	2.78	-2.5%	-1.9%	-8.3%	0.06	13.14%	6.3%	156,853	161,935
6882	3.60	3.32	3.16	2.81	-7.8%	-4.8%	-11.1%	0.10	25.48%	6.3%	3,785	1,475
8835	1.90	1.76	1.74	1.67	-7.4%	-1.1%	-4.0%	0.05	12.96%	6.2%	5,932,084	6,557,120
2112	3.64	3.57	3.57	3.35	-1.9%	0.0%	-6.2%	0.04	8.20%	6.2%	3,015	2,293
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			Swing									
			Cost			rcent Chan		Loss Cost	Absolute	Max - Min	Payroll (1	
Class Code	2019	2020	2021	2022	2020	<u>2021</u>	2022	Coef. Var	<u>Change</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>
8719	1.91	1.76	1.73	1.60	-7.9%	-1.7%	-7.5%	0.07	17.93%	6.1%	1,353	514
2714	4.74	4.62	4.50	4.11	-2.5%	-2.6%	-8.7%	0.06	14.31%	6.1%	608	258
6237	1.26	1.19	1.16	1.06	-5.6%	-2.5%	-8.6%	0.07	17.55%	6.1%	3,484	4,646
0037	3.25	3.02	2.99	2.85	-7.1%	-1.0%	-4.7%	0.05	13.20%	6.1%	516,031	571,499
6204	9.45	8.43	7.30	6.07	-10.8%	-13.4%	-16.8%	0.19	46.82%	6.1%	137,008	146,915
2081	4.87	4.79	4.79	4.50	-1.6%	0.0%	-6.1%	0.03	7.80%	6.1%	24,879	19,496
6503	1.98	1.96	2.00	1.92	-1.0%	2.0%	-4.0%	0.02	7.19%	6.0%	34,731	44,543
4902	2.60	2.39	2.34	2.15	-8.1%	-2.1%	-8.1%	0.08	19.30%	6.0%	125,907	202,582
0908	121.00	116.00	117.00	111.00	-4.1%	0.9%	-5.1%	0.04	10.42%	6.0%	376	351
6217	3.84	3.40	3.15	2.73	-11.5%	-7.4%	-13.3%	0.14	35.61%	6.0%	2,377,460	2,572,315
5491	1.50	1.54	1.49	1.46	2.7%	-3.2%	-2.0%	0.02	8.13%	5.9%	23,957	26,149
2361	1.84	1.80	1.74	1.60	-2.2%	-3.3%	-8.0%	0.06	14.07%	5.9%	3,180	2,171
2688	2.71	2.42	2.30	2.15	-10.7%	-5.0%	-6.5%	0.10	23.77%	5.7%	62,642	75,385
9620	1.02	1.01	1.05	1.10	-1.0%	4.0%	4.8%	0.04	9.98%	5.7%	527,209	564,953
4034	6.77	6.33	6.28	5.87	-6.5%	-0.8%	-6.5%	0.06	14.35%	5.7%	398,026	410,481
2220	1.90	1.92	2.03	2.03	1.1%	5.7%	0.0%	0.04	6.84%	5.7%	13,311	9,987
6235	5.49	5.33	5.18	4.74	-2.9%	-2.8%	-8.5%	0.06	14.80%	5.7%	8,411	5,599
8006	1.61	1.58	1.60	1.53	-1.9%	1.3%	-4.4%	0.02	7.67%	5.6%	2,778,162	2,861,573
8279	5.21	5.01	5.10	4.92	-3.8%	1.8%	-3.5%	0.02	9.43%	5.6%	45,079	48,938
3612	2.01	1.97	1.96	1.84	-2.0%	-0.5%	-6.1%	0.04	8.78%	5.6%	725,583	795,333
7515	1.03	0.99	0.95	0.86	-3.9%	-4.0%	-9.5%	0.04	18.32%	5.6%	357,489	376,160
7600	3.11	3.04	3.14	3.07	-2.3%	3.3%	-2.2%	0.03	7.97%	5.5%	3,320,363	3,255,420
9534	4.17	4.02	3.14	3.74	-3.6%	-0.7%	-2.2% -6.3%	0.01	10.91%	5.5%	169,394	174,374
0917		3.39						0.04		5.5%	175,754	220,769
	3.67		3.31	3.24	-7.6%	-2.4%	-2.1%		12.50%			
8203	5.89	5.92	5.86	5.57	0.5%	-1.0%	-4.9%	0.03	6.55%	5.5%	78,032	80,394
3180	2.78	2.64	2.65	2.58	-5.0%	0.4%	-2.6%	0.03	8.22%	5.4%	222,390	237,797
5479	6.44	6.14	6.14	5.81	-4.7%	0.0%	-5.4%	0.04	10.28%	5.4%	168,359	174,079
6251	3.42	3.06	2.90	2.73	-10.5%	-5.2%	-5.9%	0.10	23.12%	5.3%	81,624	130,152
9180	3.95	3.85	3.87	3.69	-2.5%	0.5%	-4.7%	0.03	7.86%	5.2%	211,831	207,101
7222	5.60	5.63	5.80	5.68	0.5%	3.0%	-2.1%	0.02	5.71%	5.1%	7,350	1,310
8047	0.97	0.84	0.77	0.68	-13.4%	-8.3%	-11.7%	0.15	37.21%	5.1%	446,868	404,983
5480	5.17	5.08	4.91	4.58	-1.7%	-3.3%	-6.7%	0.05	12.21%	5.0%	53,295	45,510
5705	24.22	22.38	19.95	17.45	-7.6%	-10.9%	-12.5%	0.14	34.23%	4.9%	505	666
7090	5.95	5.67	5.33	4.82	-4.7%	-6.0%	-9.6%	0.09	21.60%	4.9%	1,035	976
8227	2.93	2.85	2.90	2.81	-2.7%	1.8%	-3.1%	0.02	7.78%	4.9%	1,170,064	1,295,461
8393	1.22	1.24	1.30	1.30	1.6%	4.8%	0.0%	0.03	6.56%	4.8%	1,983,339	2,050,468
4686	2.61	2.41	2.16	1.89	-7.7%	-10.4%	-12.5%	0.14	33.69%	4.8%	134,366	139,568
4568	4.41	3.71	3.30	2.84	-15.9%	-11.1%	-13.9%	0.19	46.62%	4.8%	9,502	10,005
3629	1.62	1.51	1.48	1.39	-6.8%	-2.0%	-6.1%	0.06	15.53%	4.8%	933,329	957,161
8046	2.13	2.06	2.09	2.04	-3.3%	1.5%	-2.4%	0.02	7.30%	4.7%	2,192,045	2,481,465
1803	7.08	7.16	7.24	6.98	1.1%	1.1%	-3.6%	0.02	5.93%	4.7%	175,706	178,866
2111	2.15	2.06	1.98	1.81	-4.2%	-3.9%	-8.6%	0.07	17.52%	4.7%	363,152	457,455
7380	4.27	4.26	4.45	4.64	-0.2%	4.5%	4.3%	0.04	9.18%	4.7%	5,031,599	5,558,804
3822	3.62	3.50	3.45	3.24	-3.3%	-1.4%	-6.1%	0.05	11.17%	4.7%	21,264	19,001
9186	16.85	14.81	13.02	10.84	-12.1%	-12.1%	-16.7%	0.18	46.70%	4.7%	25,617	17,162
2065	1.89	1.75	1.70	1.60	-7.4%	-2.9%	-5.9%	0.07	16.97%	4.6%	15,712	1,033
5478	5.57	5.05	4.41	3.80	-9.3%	-12.7%	-13.8%	0.16	40.23%	4.5%	619,735	677,384
2417	1.29	1.34	1.40	1.40	3.9%	4.5%	0.0%	0.04	8.53%	4.5%	21,915	19,509
2683	1.81	2.10	2.53		16.0%	20.5%		0.17		4.5%	6,413	
6005	4.86	4.55	4.32	3.91	-6.4%	-5.1%	-9.5%	0.09	22.36%	4.4%	1,412	1,201
4283	1.42	1.38	1.28	1.20	-2.8%	-7.2%	-6.3%	0.08	17.16%	4.4%	221,402	196,172
8601	0.23	0.22	0.22	0.22	-4.3%	0.0%	0.0%	0.02	4.35%	4.3%	11,011,091	11,462,919
4000	4.89	4.50	3.99	3.50	-8.0%	-11.3%	-12.3%	0.14	34.98%	4.3%	173,835	141,983
3830	0.71	0.70	0.70	0.67	-1.4%	0.0%	-4.3%	0.02	5.75%	4.3%	9,338,774	10,225,549
4250	1.68	1.68	1.72	1.69	0.0%	2.4%	-1.7%	0.01	4.17%	4.1%	88,457	81,285
3634	1.65	1.54	1.50	1.40	-6.7%	-2.6%	-6.7%	0.07	16.73%	4.1%	487,492	457,779
4279	2.16	2.24	2.33	2.33	3.7%	4.0%	0.0%	0.04	7.87%	4.0%	341,103	424,745
4493	5.62	4.44	3.66	2.87	-21.0%	-17.6%	-21.6%	0.28	72.96%	4.0%	8,910	9,908
2585	3.14	3.08	2.94	2.77	-1.9%	-4.5%	-5.8%	0.06	12.70%	3.9%	1,070,479	1,032,088
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NCCI Missouri Loss Cost Filing Effective January 1, 2022
Analysis of the Absolute Loss Cost Change from Loss Costs that are Effective from January 1, 2019 to January 1, 2022 Sorted by Swing

										Swing		
		Loss	Cost		Pe	rcent Chan	ige	Loss Cost	Absolute	Max - Min	Payroll (1	.00's)
Class Code	2019	2020	2021	2022	2020	2021	2022	Coef. Var	Change	<u>Change</u>	2018	<u>2019</u>
4351	0.78	0.83	0.89	0.92	6.4%	7.2%	3.4%	0.07	17.95%	3.9%	22,750	26,141
5022	5.46	5.46	5.66	5.65	0.0%	3.7%	-0.2%	0.02	3.85%	3.8%	1,286,616	1,305,556
2305	2.44	2.26	2.18	2.04	-7.4%	-3.5%	-6.4%	0.07	18.32%	3.8%	99,437	107,515
4703	1.96	1.91	1.87	1.76	-2.6%	-2.1%	-5.9%	0.05	10.86%	3.8%	189,722	211,338
3113	1.85	1.76	1.64	1.59	-4.9%	-6.8%	-3.0%	0.07	15.43%	3.8%	1,438,343	1,380,209
8370	3.43	3.45	3.52	3.46	0.6%	2.0%	-1.7%	0.01	4.37%	3.7%	503,368	561,480
3365	3.47	3.31	3.28	3.19	-4.6%	-0.9%	-2.7%	0.04	8.46%	3.7%	296,511	227,039
9516	3.07	2.63	2.35	2.07	-14.3%	-10.6%	-11.9%	0.17	41.58%	3.7%	465,572	452,879
4452	2.73	2.59	2.47	2.27	-5.1%	-4.6%	-8.1%	0.08	18.91%	3.5%	631,243	644,347
8061	1.66	1.61	1.55	1.45	-3.0%	-3.7%	-6.5%	0.06	13.74%	3.4%	1,819,651	1,931,102
4361	0.76	0.71	0.67	0.61	-6.6%	-5.6%	-9.0%	0.09	22.67%	3.3%	746,309	655,100
9110	2.82	2.62	2.52	2.37	-7.1%	-3.8%	-6.0%	0.07	17.80%	3.3%	904,155	925,774
3373	4.62	4.45	4.37	4.35	-3.7%	-1.8%	-0.5%	0.03	6.03%	3.2%	75,282	79,142
7520	3.02	2.78	2.55	2.42	-7.9%	-8.3%	-5.1%	0.10	22.84%	3.2%	1,023,762	1,002,872
7710	4.06	4.08	4.12	4.03	0.5%	1.0%	-2.2%	0.01	3.69%	3.2%	1,245,520	1,319,835
7711	4.06	4.08	4.12	4.03	0.5%	1.0%	-2.2%	0.01	3.69%	3.2%	155,177	147,943
4149	0.86	0.82	0.77	0.71	-4.7%	-6.1%	-7.8%	0.08	19.68%	3.1%	173,629	181,645
5191	0.65	0.66	0.69	0.70	1.5%	4.5%	1.4%	0.04	7.69%	3.1%	3,400,487	3,490,700
0170	2.05	1.99	1.99	1.95	-2.9%	0.0%	-2.0%	0.02	5.00%	2.9%	31	4,728
2916	4.03	3.71	3.41	3.04	-7.9%	-8.1%	-10.9%	0.12	29.33%	2.9%	1,782	1,083
1472	2.55	2.68	2.74	2.80	5.1%	2.2%	2.2%	0.04	9.80%	2.9%	226,639	248,694
4771	2.51	2.52	2.52	2.46	0.4%	0.0%	-2.4%	0.01	2.79%	2.8%	334,143	1,368,889
5183	2.75	2.65	2.59	2.46	-3.6%	-2.3%	-5.0%	0.05	11.30%	2.8%	4,403,481	4,768,112
6319	3.63	3.42	3.30	3.10	-5.8%	-3.5%	-6.1%	0.07	16.13%	2.6%	555,867	668,382
2110	1.89	1.80	1.76	1.70	-4.8%	-2.2%	-3.4%	0.04	10.74%	2.5%	45,327	299
4299	2.13	2.07	1.96	1.90	-2.8%	-5.3%	-3.1%	0.05	11.60%	2.5%	2,263,942	2,390,245
4304	6.45	5.73	5.07	4.40	-11.2%	-11.5%	-13.2%	0.16	40.35%	2.1%	236,165	192,952
6306	5.42	4.92	4.53	4.20	-9.2%	-7.9%	-7.3%	0.11	26.47%	1.9%	496,709	538,729
3724	3.27	3.20	3.19	3.13	-2.1%	-0.3%	-1.9%	0.02	4.39%	1.8%	2,542,469	2,898,425
9012	0.85	0.77	0.71	0.65	-9.4%	-7.8%	-8.5%	0.11	27.90%	1.6%	4,699,112	5,004,655
3227	3.00	2.89	2.83	2.75	-3.7%	-2.1%	-2.8%	0.04	8.81%	1.6%	300,731	371,275
8116	1.98	1.97	1.99	2.00	-0.5%	1.0%	0.5%	0.01	2.04%	1.5%	877,510	857,253
2881	3.12	2.93	2.78	2.60	-6.1%	-5.1%	-6.5%	0.08	18.74%	1.4%	218,987	207,616
7390	5.19	4.84	4.54	4.21	-6.7%	-6.2%	-7.3%	0.09	21.60%	1.1%	357,291	357,101
5102	5.49	5.20	4.96	4.68	-5.3%	-4.6%	-5.6%	0.07	16.36%	1.0%	416,529	463,515
2503	1.43	1.31	1.21	1.12	-8.4%	-7.6%	-7.4%	0.11	25.34%	1.0%	18,445	23,977
8901	0.18	0.17	0.16	0.15	-5.6%	-5.9%	-6.3%	0.08	18.75%	0.7%	10,920,541	10,847,952
8111	1.57	1.54	1.52	1.50	-1.9%	-1.3%	-1.3%	0.02	4.59%	0.6%	670,382	656,942