

LOSS COSTS – IMPLEMENTATION

MAY 10, 2021

COMMERCIAL PROPERTY

LI-CF-2021-022

INDIANA COMMERCIAL FIRE AND ALLIED LINES ADVISORY PROSPECTIVE LOSS COST REVISION TO BE IMPLEMENTED; EXHIBITS NEWLY PRESENTED IN EXCEL

KEY MESSAGE

Revised advisory prospective loss costs reflecting a statewide loss cost level change of +1.7% to be implemented.

UPGRADE TO WORD AND EXCEL DOCUMENTS

As previously noted, ISO is implementing changes to our authoring and delivery systems so that **newly created** documents will be delivered in Office 365 .docx/.xlsx format to be phased in by product/service tentatively beginning in second quarter 2021. We are pleased to announce that you will soon be receiving **form** documents in .docx format delivered/accessed via Circulars, CLM, EFD, ERC, Filings, FIRST, Forms Library, PRM and Suite +. Changes continue for other document types to be phased in by product/service. Products impacted include, but are not limited to, documents delivered/accessed via Circulars, CLM, EFD, ERC, Filings, FIRST, Forms Library (including PolicyWriting Support Forms Instructional Supplement), PRM, Statistical Plans and Suite +.

BACKGROUND

In circular [LI-CF-2020-108](#), we provided you with information about the Commercial Fire and Allied Lines loss cost level experience review.

ISO ACTION

We are implementing CF-2020-RLA1, which presents a review of Commercial Fire and Allied Lines loss cost experience. Refer to the attachment(s) for complete details.

CONSIDERATION OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs, which are based on historical experience (pre-COVID-19), to reflect the conditions in which these loss costs will be effective (post-COVID-19). While there will almost certainly be long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have negligible and/or offsetting effects on prospective loss costs.

While an economic recession may be a likely outcome of the COVID-19 pandemic, ISO would not expect it to have a quantifiable impact on Commercial Property loss costs. In examining data from the Great Recession, which impacted the United States in 2008-2010, ISO found that long-term trends in claim frequency and severity for Basic Group I, Basic Group II, and Special Cause of Loss generally continued through that recession. Occasional cases of possible deviation from long-term trends are difficult to separate from inherent volatility in Commercial Property losses due to the low-frequency, high-severity nature of BGI, and the weather-driven perils in BGII and SCL.

Therefore, ISO is not making any explicit adjustment to our Commercial Property prospective loss costs due to COVID-19.

SUPPLEMENTARY INFORMATION

We are including the following supplementary information:

- An Actuarial Analysis Supplement which provides discussion and analysis of changes in the experience and adjustments used to derive the loss cost level analysis.
- The loss cost exhibits contained in this filing in a Microsoft® Excel workbook.

NOTE: This supplementary information is **not** part of the experience review document and, in states where we are making a filing, is **not** part of the filing.

IMPORTANT NOTE

Change in Format

This circular offers several enhancements for customers. In addition to the PDF version, exhibits and loss cost tables are now available in user-friendly Excel format rather than Word. Where possible, exhibits are linked together formulaically to clarify how calculations flow through the entire ratemaking process and to enable customers to test the effects of different assumptions on the results.

To facilitate this change, the filing has been restructured. All explanatory text, for all sections of the filing, appears first; all exhibits and tables are grouped together and appear thereafter. Exhibits have been relabeled (Exhibit A1, Exhibit A2, etc.).

We invite customers to share feedback on this revised format and suggestions for further enhancements by contacting the individuals listed in the Contact Information block.

EFFECTIVE DATE

The ISO revision is subject to the following rule of application:

These changes are applicable to all policies written on or after October 1, 2021.

The effective date applies only to those insurers who have filed their Commercial Fire and Allied Lines loss cost adjustments to be automatically applicable to future ISO loss cost revisions.

IMPACT ON THE STATISTICAL REPORTING OF LOSS COST MULTIPLIER

For the purpose of reporting your company Loss Cost Multiplier under the CSP, as of October 1, 2021, the multiplier must be based on the relationship between your gross rates and the ISO advisory prospective loss costs contained in this circular.

COMPANY ACTION

You must independently determine the final rates you will use. The action, if any, you must take in response to this filing is dependent upon how you filed to have your loss cost adjustments apply to subsequent revisions of ISO loss costs. Any submission you make with respect to this revision must comply with applicable regulatory filing requirements.

For guidance on submission requirements, consult the ISO State Filing Handbook.

WE WILL SUBMIT OUR REFERENCE FILING TO THE INSURANCE DEPARTMENT ON SEPTEMBER 1, 2021. ANY SUBMISSION YOU MAY MAKE WITH THE INSURANCE DEPARTMENT WITH RESPECT TO THIS FILING SHOULD NOT BE SUBMITTED PRIOR TO THIS DATE.

In all correspondence with the Insurance Department on this revision, you should refer to ISO Filing Number [CF-2020-RLA1](#), NOT this circular number.

CAUTION: This reference filing revises only certain advisory prospective loss costs for Commercial Fire and Allied Lines in this state. In determining whether or not to revise your rates, you should consider the application of your loss cost adjustments to any loss costs not included in this revision.

RATING SOFTWARE IMPACT

No new attributes are being introduced with this revision.

POLICYHOLDER NOTIFICATION

If you decide to implement this revision, you should check all applicable laws for the state(s) to which this revision applies, to determine whether or not a specific policyholder notice requirement may apply. Please note that circular [LI-CL-2021-004](#) contains the ISO Guide To Renewals With Changed Conditions For Commercial Lines, which is available only as a guide to assist participating companies in complying with various conditional renewal statutes or regulations, for the major commercial lines of insurance serviced by ISO. The information in the Guide does not necessarily reflect all requirements or exceptions that may apply, and it is not intended as a substitute for your review of all applicable statutes and regulations concerning policyholder notification.

REVISION DISTRIBUTION INFORMATION

- **Manual And ISO Suite**

We will issue a Notice to Manualholders with an edition date of 10-21 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

- **ProMetrix**

Revised loss costs for specifically rated and class-rated properties contained in ProMetrix will be displayed as "Pending" beginning on June 14, 2021. On October 1, 2021, these loss costs will move to "Current" status. The previous "Current" becomes the most recent "Prior" and joins all previously displayed "Priors". With each subsequent loss cost revision, we will make an additional "Prior" available. Information in ProMetrix will distinguish between loss costs which reflect the effect of limit of insurance (LOI) relativities and pre-LOI loss costs.

- **Toll-free Telephone Service**

Revised loss costs for specifically rated and class-rated properties will be available by calling toll-free 1-800-444-4554 and requesting "Pending" from June 14, 2021 to October 1, 2021. On October 1, 2021, these loss costs will move to "Current" status. The previous "Current" becomes the most recent "Prior" and joins all previously displayed "Priors". With each subsequent loss cost revision, we will make an additional "Prior" available. Information available via toll-free telephone service will distinguish between loss costs which reflect the effect of limit of insurance (LOI) relativities and pre-LOI loss costs.

NOTE: Specific property information is provided for Basic Group I and Basic Group II in this state. However, the eligibility criteria for Basic Group I and Basic Group II are independent and, therefore, an individual property may be eligible for Basic Group I and/or Basic Group II specific rating.

REFERENCE(S)

- [LI-CL-2021-004](#) (02/17/2021) Revised Lead Time Requirements Listing
- [LI-CF-2020-108](#) (12/18/2020) Commercial Fire And Allied Lines Experience Level Indications Reviewed By ISO Staff

ATTACHMENT(S)

- CF-2020-RLA1
- Actuarial Analysis Supplement

FILES AVAILABLE FOR DOWNLOAD

To download all files associated with this circular, including attachments in the full circular PDF and/or any additional files not included in the PDF, search for the circular number on [ISONet Circulars](#). Then click the Word/Excel link under the Full Circular column on the Search Results screen.

Please note that in some instances, not all files listed in the Attachment(s) block (if applicable) are included in the PDF.

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DATA QUALITY

Statistical plan data reported to ISO is first processed through a system of rigorous automated data verification procedures so that only valid data would be used for ratemaking. Subsequent to this initial data submission review, additional analyses on the statistical plan data involving an even more customized data review for this line were performed by staff. During these processes, various data records were excluded from the review. The ISO staff responsible for this circular also reviewed the data for reasonableness.

ACKNOWLEDGMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "Qualifications Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States" requires that an actuary issuing a Statement of Actuarial Opinion should include an acknowledgment with the opinion that he/she has met the qualification standards of the AAA. ISO considers the loss cost level indications shown in this document a Statement of Actuarial Opinion; therefore, we are including the following acknowledgment:

I, Rimma Maasbach, am an Actuarial Consultant in Actuarial Operations for ISO, and I, Brian Klaif, am an Actuarial Associate for Commercial Property for ISO. We are jointly responsible for the content of this Statement of Actuarial Opinion. We are both members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

XACTWARE SOLUTIONS, INC.

This filing incorporates the use of pricing data from Xactware Solutions, Inc., to estimate trends in building costs for commercial properties. Xactware provides computer software solutions for professionals involved in estimating all phases of building construction and repair. The company has been providing building cost data, estimate tracking and data trending to the insurance repair market since 1986. Insurance carriers using Xactware data are responsible for settlement of the majority of property claims in the USA and Canada.

For more information concerning Xactware Solutions, Inc., please see the Contact Information block.

CONTACT INFORMATION

If you have any questions concerning

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Callers outside the United States, Canada, and the Caribbean may contact us using our global toll-free number (International Access Code + 800 48977489). For information on all ISO products, visit us at www.verisk.com/iso. To keep abreast of the latest Insurance Lines Services updates, view www.verisk.com/ils.

INDIANA

COMMERCIAL FIRE AND ALLIED LINES INSURANCE PROSPECTIVE LOSS COST LEVEL REVISION EXECUTIVE SUMMARY

PURPOSE

This document:

- revises advisory prospective loss costs. These loss costs represent a 1.7% statewide change from the current ISO loss costs.
- provides the analyses used to derive the prospective loss costs based on experience through calendar/accident year ending 9/30/2019, evaluated as of 12/31/2019.

CONSIDERATION OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs, which are based on historical experience (pre-COVID-19), to reflect the conditions in which these loss costs will be effective (post-COVID-19). While there will almost certainly be long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have negligible and/or offsetting effects on prospective loss costs.

While an economic recession may be a likely outcome of the COVID-19 pandemic, ISO would not expect it to have a quantifiable impact on Commercial Property loss costs. In examining data from the Great Recession, which impacted the United States in 2008-2010, ISO found that long-term trends in claim frequency and severity for Basic Group I, Basic Group II, and Special Cause of Loss generally continued through that recession. Occasional cases of possible deviation from long-term trends are difficult to separate from inherent volatility in Commercial Property losses due to the low-frequency, high-severity nature of BGI, and the weather-driven perils in BGII and SCL.

Therefore, ISO is not making any explicit adjustment to our Commercial Property prospective loss costs due to COVID-19.

DEFINITION OF THE ISO PROSPECTIVE LOSS COST

Advisory prospective loss costs in this document are the expected value of that portion of a rate that does not include provisions for expenses (other than loss adjustment expenses) or profit, and are based on historical aggregate losses and loss adjustment expenses adjusted and projected through trending to a future point in time.

LOSS COST
LEVEL
CHANGES

The statewide monoline prospective loss cost level changes are:

<u>Coverage</u>	<u>Indicated</u>
Basic Group I	-1.2%
Basic Group II	3.3%
Special Causes of Loss	4.7%
Total	1.7%

Indicated loss cost level changes are changes from the current loss cost level.

PRIOR ISO
REVISIONS

The latest revisions in this state are:

<u>Reference Document or Filing</u>	CF-2018-RLA1	CF-2014-RLA1
<u>Rates/ Loss Costs</u>	Loss Costs	Loss Costs
<u>Dates Implemented</u>	04/01/2019	04/01/2015
<u>Changes</u>		
Basic Group I	3.9%	0.0%
Basic Group II	13.7%	10.7%
Special Causes of Loss	10.9%	-4.0%
Total	3.7%	2.3%

HISTORICAL
SOURCE DATA

The data used in this revision is:

- Voluntary experience for ISO reporting companies.
 - Five calendar/accident years ending 9/30/2019 for Basic Group I and Special Causes of Loss.
 - Ten calendar/accident years ending 9/30/2019 for Basic Group II.
-

DISTRIBUTION
OF STATEWIDE
MONOLINE
LOSS COST
CHANGES

ISO has distributed the statewide monoline prospective loss cost changes as follows:

- by rating group and territory (where applicable) for Basic Group I.
- by territory, coverage and symbol (where applicable) for Basic Group II.
- by category (building coverage and occupancy type) for Special Causes of Loss.

This has been done based on the experience of each rating group and territory (where applicable), or category for Basic Group I and Special Causes of Loss. Therefore, the resulting changes will vary by rating group and territory (where applicable) for Basic Group I and by category for Special Causes of Loss.

TREND AND
OTHER
ADJUSTMENTS

Loss Trend

For trend purposes, the period of use for this revision is assumed to begin on 4/01/2021. To adjust the loss experience to the levels expected to prevail while the revised loss costs are in effect, trend factors have been applied to the historical incurred losses. These trend factors are based on:

- external cost indices published by the U.S. Government and information provided by Xactware Solutions, Inc.
- changes in multistate average claim costs through fourth quarter 2018.

The "historic" trend factors based on the external indices, i.e. the factors based on historic changes in the indices, vary by year. The latest annual rates of change based on these indices are:

<u>Coverage</u>	<u>Annual Rate of Change</u>
Buildings	3.3%
Contents	1.9%
Time Element	0.0%

Incurred losses are also multiplied by loss trend adjustment factors (LTA's) to reflect trends in claim frequency and claim costs that are different from those exhibited by the external indices. The annual loss trend adjustments are:

<u>Line of Business</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Basic Group I	0.0%	0.6%	2.6%
Basic Group II	0.0%	0.6%	2.7%
Special Causes of Loss	0.3%	-0.6%	2.6%

TREND AND
OTHER
ADJUSTMENTS
(cont'd)

This produces a total annual loss trend of:

<u>Line of Business</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Basic Group I	3.3%	2.6%	2.6%
Basic Group II	3.3%	2.6%	2.7%
Special Causes of Loss	3.6%	1.3%	2.6%

Premium Trend

Over time, insureds tend to purchase increased amounts of insurance in order to compensate for inflation, which results in increased premium revenue.

In order to reflect this increase in revenue, ISO uses a premium trend procedure. The premium trend factors are based on observed changes in the annual amount of insurance written for BG I renewal policies for a group of selected companies. For property damage coverages, these amount of insurance, or exposure, trend factors are adjusted for the decrease in limit of insurance factors associated with the increase in amount of insurance to calculate premium trend factors. The selected annual trends in the amount of insurance are:

<u>Line of Business</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Basic Group I	2.5%	1.8%	0.9%
Basic Group II	2.3%	1.7%	0.9%
Special Causes of Loss	2.4%	1.4%	0.9%

Other Adjustments

Standard actuarial procedures have been used in calculating the loss costs including loss development and the reflection of all loss adjustment expense. In addition, smoothing procedures have been applied to stabilize the effects of large or excess losses.

TEN LARGEST
COMPANY
GROUPS IN
ISO DATA BASE

COMMERCIAL MULTIPERIL - NON-LIABILITY (ASLOB 51)

1. Cincinnati Insurance Company
2. Travelers Indemnity Company
3. Liberty Mutual Insurance Company
4. Tokio Marine Companies
5. Westfield Insurance Company
6. Nationwide Mutual Insurance Company
7. Great American Insurance Company
8. Frankenmuth Mutual Insurance Company
9. Motorists Mutual Insurance Company
10. Firemans Fund Insurance Company

Insurers are listed in descending order based on the percent of statewide written premium volume from Annual Statement Page 15 for year ending 12/31/2019 for Annual Statement Line of Business (ASLOB) 51, Commercial Multiperil - Non-liability.

Although ASLOB 51 includes coverages in addition to commercial fire and allied lines, e.g., crime, inland marine, fidelity, the largest percentage of premium volume is due to fire and allied lines (Basic Group I, Basic Group II, and Special Causes of Loss coverages). ASLOB 51 does not include data reported under monoline fire and allied lines (ASLOBs 10 and 21), which includes both commercial and personal property experience.

SIZE OF ISO
DATA BASE

The market share of all insurers reporting to ISO in this state and included in the ratemaking experience underlying this review as measured by Annual Statement Page 15 written premium for year ending 12/31/2019 is:

Commercial Multi-peril - Non-liability (ASLOB 51) - 30.6%

COMPANY
DECISION

We encourage each insurer to decide independently whether the judgments made and the procedures or data used by ISO in developing the loss costs contained herein are appropriate for its use. We have included within this document the information upon which ISO relied in order to enable companies to make such independent judgments.

The data underlying the enclosed material comes from companies reporting to Insurance Services Office, Inc. Therefore, the ISO experience permits the establishment of a much broader statistical ratemaking base than could be employed by using any individual company's data. A broader data base enhances the validity of ratemaking analysis derived therefrom. At the same time, however, an individual company may benefit from comparison of its own experience to the aggregate ISO experience, and may reach valid conclusions with respect to the manner in which its own costs can be expected to differ from ISO's projections based on the aggregate data.

Some calculations included in this document involve areas of ISO staff judgment. Each company should carefully review and evaluate its own experience in order to determine whether the ISO selected loss costs are appropriate for its use.

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COMMERCIAL PROPERTY

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OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

INTRODUCTION

Commercial Property prospective loss costs are determined by evaluating the adequacy of the current ISO loss costs to pay for our best estimate of losses and all loss adjustment expenses that will be incurred in the prospective (or future) period. This evaluation is done separately for Basic Group I, Basic Group II, and Special Causes of Loss.

STEP 1: DETERMINATION OF INDICATED STATEWIDE LOSS COST LEVEL CHANGE

The first step in this process is the determination of the indicated statewide loss cost level change. This indicated statewide loss cost level change is the average percentage change which must be made to the current ISO loss costs in order to achieve adequacy for the prospective conditions. The percentage changes are presented on the exhibits labeled "Statewide Coverage Loss Cost Level Evaluation".

STEP 2: DISTRIBUTION OF CHANGES

Based on the experience, ISO then distributes the indicated statewide loss cost level change by territory (where applicable), type of policy and rating group for Basic Group I; by type of policy for Basic Group II; and by type of policy and category for Special Causes of Loss.

STEP 3: CALCULATION OF REVISED LOSS COSTS

The last step is the calculation of the prospective ISO loss costs. This is achieved by applying the indicated monoline changes to the current ISO loss costs. For Basic Group I, for those states without BG I rating territories, the statewide loss cost changes by rating group are applied to the current manual loss costs. For those states with rating territories, the Balance of State loss cost changes by rating group are applied to the current manual loss costs. The revised territory multipliers are calculated by multiplying the current territory multipliers by the indicated territory changes. For specifically-rated properties, the appropriate changes are applied to the current experience level adjustment factors and territory multipliers. For Basic Group II, revised loss costs are calculated by applying the indicated statewide monoline change to the current ISO loss costs, and where applicable, adding the hurricane modeled loss costs. For Special Causes of Loss, revised loss costs are calculated by applying the indicated monoline changes by category to the current ISO loss costs.

COMMERCIAL PROPERTY INSURANCE
CALCULATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES IN EXHIBITS B1-B3

OBJECTIVE	The objective of this procedure is to determine the indicated statewide advisory loss cost level change. This procedure answers the question: What average percentage change must be made to the current ISO loss costs in order for them to be adequate to cover indemnity losses and all loss adjustment expenses incurred in the prospective period in which the revised loss costs are assumed to be in effect?
DESCRIPTION	<p>This procedure compares the trended and developed incurred losses and loss adjustment expenses with the trended aggregate loss costs at current ISO level. The aggregate loss costs at current level are the amounts that would have been collected for losses and all loss adjustment expenses if the current ISO loss costs had been in effect during the experience period.</p> <p>Experience ratios (losses and all loss adjustment expenses divided by aggregate loss costs, both trended to the prospective experience period) are calculated by year, and a weighted average of the yearly experience ratios is calculated. For Basic Group I (BG I) and Special Causes of Loss (SCL), the five year weights vary by year, giving greater weight to the more recent experience. For Basic Group II (BG II), because of the more volatile nature of the data, the ten individual years are given equal weight.</p> <p>The average experience ratio is then credibility-weighted with the expected experience ratio in order to minimize the impact of random variation in the observed losses. The resulting credibility-weighted experience ratio is the indicated statewide advisory loss cost level change in decimal form.</p>
EXPERIENCE BASE	The experience used in this review is the latest available data reported under the ISO Commercial Statistical Plan for BG I, BG II and SCL. The data are aggregated on an accident year basis.

EXPLANATORY NOTES TO EXHIBITS B1-B3

STATEWIDE BASIC GROUP I, BASIC GROUP II AND
SPECIAL CAUSES OF LOSS COVERAGE LOSS COST LEVEL EVALUATION

COLUMN (1)

EXPERIENCE PERIOD

Experience for the five most recent accident years is used for BG I and SCL.
Experience for the ten most recent accident years is used for BG II.

COLUMN (2)

AGGREGATE LOSS COSTS

Since the objective of the ratemaking procedure is to test the adequacy of the current ISO loss costs, premium data for each year in the experience period are adjusted to the loss cost level which would have been earned had the current loss costs been in effect. This is accomplished by using either an extension-of-exposures (PPR or premium at present rates/loss costs) approach or an on-level approach. Where appropriate, certain reported data elements have been adjusted prior to being used in the calculations.

Extension of Exposures Approach

Where feasible, aggregate loss costs at current level (ALCCL) are developed using an extension-of-exposures approach. That is, the exposure (amount of insurance per \$100) for each policy is multiplied by the current manual loss cost for that state, territory, subline, coverage, construction, occupancy and by any other applicable rating factors, such as limit of insurance factors and deductible relativities.

On-Level Approach

The on-level approach is applied on an individual policy basis. The first step in the process is to multiply the reported premiums by the product of all loss cost level changes that have become effective subsequent to the inception date of the policy. The premiums are divided by the reported Rating Modification Factors and Loss Cost Multipliers to bring them to current ISO monoline manual loss cost level.

For premium records with inception dates prior to the effective date of the implementation of Limit of Insurance (LOI) curves, premiums are multiplied by off-balance factors and limit of insurance factors to bring them to a post-LOI loss cost level.

The on-level approach is used to adjust those premium records which cannot be adjusted using the extension-of-exposures techniques, for example, premium records for Basic Group I specifically-rated properties, for which manual loss costs do not exist. In addition, records failing an exposure edit which checks for a reasonable relationship between reported premium and exposure amount have also been on-leveled.

STATEWIDE BASIC GROUP I, BASIC GROUP II AND
SPECIAL CAUSES OF LOSS COVERAGE LOSS COST LEVEL EVALUATION (cont'd)

COLUMN (2)
(cont'd)

Current IPMF and Prospective Amount of Insurance Levels

Premiums are also adjusted to prospective amount of insurance levels by exposure trend factors to reflect the impact of inflation on the average amount of insurance written (Exhibit C13). After multiline premiums are brought to current ISO monoline manual level, they are further adjusted to implicit package modification factor (IPMF) level by the application of Commercial Package Policy (CPP) IPMF's which vary by the eight CPP types of policy. (Both the adjustments to prospective amount of insurance level and to current IPMF level are done on an aggregate basis.) For a more complete description of the IPMF's and the other premium adjustments, refer to Exhibits C7 through C9 in the supporting material.

COLUMN (3)

ADJUSTED INCURRED LOSSES

In order to assure the adequacy of the proposed loss cost level, incurred losses are adjusted to reflect the effect of inflation and other trends on loss costs. The adjustment of past losses to prospective levels is accomplished on an individual loss basis by application of current cost factors, loss projection factors and loss trend adjustments (Exhibits C10 through C12). In addition to adjusting losses to prospective cost level, the effect of inflation on the deductible portion of the loss incurred is reflected.

For each subline, incurred losses are further adjusted by an excess loss procedure which smoothes fluctuations due to large loss occurrences. The procedure removes any losses determined to be excess from the total incurred losses, resulting in normal incurred losses. These normal incurred losses (total - excess) are then multiplied by excess loss factors to calculate adjusted incurred losses (Exhibits C18 through C21). The resulting adjusted incurred losses are then developed to their ultimate settlement value and loaded by a factor to include all loss adjustment expenses. Loss development factors can be found on Exhibit C17, and loss adjustment expense factors on Exhibit D6. Where appropriate, certain reported data elements have been adjusted prior to being used in the calculations.

COLUMN (4)

EXPERIENCE RATIO

The experience ratio is the ratio of adjusted incurred losses to aggregate loss costs for each year.

STATEWIDE BASIC GROUP I, BASIC GROUP II AND
SPECIAL CAUSES OF LOSS COVERAGE LOSS COST LEVEL EVALUATION (cont'd)

COLUMN (5) - BG I, SCL WEIGHTS

For Basic Group I and Special Causes of Loss, the yearly experience ratios are weighted using weights of 10%, 15%, 20%, 25%, and 30% with the greatest weight assigned to the most recent year. These weights recognize the need to balance stability and responsiveness. The ten Basic Group II experience ratios are equally weighted, each given 10% weight.

LINE (6) - BG I, SCL WEIGHTED EXPERIENCE RATIO
LINE (5) - BG II

For Basic Group I and Special Causes of Loss, the weights are applied to the experience ratios to yield the weighted experience ratio. For Basic Group II, the experience ratios are equally weighted. These weighted experience ratios represent a projection of the experience which would result if future policies were written without a loss cost level revision.

LINE (7) - BG I, SCL CREDIBILITY
LINE (6) - BG II

The standards for 100% credibility are discussed in detail in Exhibits C22, C23, and C24 for Basic Group I, Basic Group II, and Special Causes of Loss, respectively.

LINE (8) - BG I, SCL EXPECTED EXPERIENCE RATIO
LINE (7) - BG II

The expected experience ratio is ISO's best prediction of the experience ratio if the actual incurred experience were not available. For this review, we have assumed that the current loss costs were adequate when implemented and will be inadequate for the prospective period only to the extent of the net trend. The expected experience ratio is represented by the net (loss/amount of insurance) trend factor.

LINE (9) - BG I, SCL CREDIBILITY WEIGHTED EXPERIENCE RATIO
LINE (8) - BG II

The credibility weighted experience ratio is a weighted average of the weighted experience ratio (line (6) for BG I and SCL; line (5) for BG II) and the expected experience ratio (line (8) for BG I and SCL; line (7) for BG II) using the credibility factor and its complement as respective weights. For more detailed information regarding the development of the credibility factors, refer to Exhibits C22, C23, and C24.

LINE (10) - BG I, SCL INDICATED COVERAGE LOSS COST CHANGE
LINE (9) - BG II

The credibility weighted experience ratio yields the overall coverage loss cost level change for Basic Group I (see Exhibit B1), Basic Group II (see Exhibit B2), and Special Causes of Loss (see Exhibit B3).

COMPOSITION OF THE RATEMAKING DATA BASE

DATA INCLUDED

BASIC GROUP I

- . CSP Subline 010 (Commercial Fire)
- . CSP Subline 015 (Basic Group I, i.e., Fire, Lightning, Explosion, Vandalism, Sprinkler Leakage)
- . CSP Subline 016 (BG I excluding Vandalism)
- . CSP Subline 017 (BG I excluding Sprinkler Leakage)
- . CSP Subline 018 (BG I excluding Vandalism and Sprinkler Leakage)

BASIC GROUP II

- . CSP Subline 020 (Extended Coverage)
- . CSP Subline 025 (Basic Group II, i.e., Windstorm or Hail, Smoke, Aircraft or Vehicles, Riot or Civil Commotion, Sinkhole Collapse and Volcanic Action)
- . CSP Subline 027 (Basic Group II Causes of Loss, i.e., Windstorm or Hail, Smoke, Aircraft or Vehicles, Riot or Civil Commotion, Sinkhole Collapse and Volcanic Action)
- . CSP Subline 029 (Basic Group II Causes of Loss excluding Windstorm or Hail)

SPECIAL CAUSES OF LOSS

- . CSP Subline 028 (All Other Perils Special Coverage Forms & Endorsements)
- . CSP Subline 035 (Causes of Loss Special Form Including Theft)
- . CSP Subline 045 (Causes of Loss Special Form Excluding Theft)

NOTES ON DATA INCLUDED

All CSP data are reviewed for CSP Types of Policy 10 (monoline), 3X, 70, and 7X (multiline).

For BG I, BG II and SCL, the reviewed experience is for property damage and time element coverages (coverage codes 1-7, as well as coverage code 9 reported under pre-simplification sublines 010, 020, and 028).

COMPOSITION OF THE RATEMAKING DATA BASE (cont'd)

<u>DATA EXCLUDED</u>	<u>TYPE OF DATA</u>	<u>BG I</u>	<u>BG II</u>	<u>SCL</u>
	• Non-voluntary experience (e.g. FAIR Plans)	X	X	NA
	• Dwelling experience	X	X	X
	• Farm experience	X	X	NA
	• Countrywide rated risks	X	X	X
	• Highly protected risks	X	X	X
	• Experience for policies with large deductibles	X	X	X

X indicates that experience is excluded.

Separately identifiable terrorism premium and loss records have been excluded from the ratemaking experience.

OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

STEP 2 - DISTRIBUTION OF LOSS COST LEVEL CHANGES

OBJECTIVE	<p>The objective of this procedure is to distribute the indicated statewide loss cost level change for Basic Group I, Basic Group II, and Special Causes of Loss among the various rating variables used in each subline. These procedures are used to answer the question: What percentage change for each rating variable must be made to the current ISO loss costs in order to achieve adequacy for the prospective conditions?</p> <hr/>
BASIC GROUP I	<p>For Basic Group I, a consolidated simultaneous iterative procedure is used to calculate the type of policy, territory and rating group relativities. More detail on this procedure is given in Exhibit B4. The type of policy relativities serve to price Commercial Package policies relative to monoline policies, via the Package Modification Factors (PMF), while the rating group and territory relativities serve to price the various rating groups and territories relative to one another.</p> <p>The indicated monoline loss cost level changes shown on Exhibit A2 are calculated for each rating group/territory combination by taking the product of the monoline type of policy relativity, the rating group relativity, the territory relativity and the statewide loss cost level change.</p> <p>The overall monoline loss cost level change is a weighted average of the rating group/territory combination changes. In calculating this weighted average, the latest year aggregate monoline and multiline combined loss costs at current level are used as weights.</p> <hr/>
BASIC GROUP II	<p>The purpose of the Basic Group II relativity analysis is to determine monoline loss cost level needs, to obtain marginal relativities displayed on Exhibit B8 and to price CPP policies relative to monoline policies via the PMFs. Unlike the BG I and SCL relativity analyses, the BG II relativity analysis does not employ a simultaneous review procedure because the overall loss cost change is distributed across type of policy only. The indicated statewide monoline change is the product of the monoline type of policy relativity times the statewide loss cost level change.</p> <hr/>

OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

STEP 2 - DISTRIBUTION OF LOSS COST LEVEL CHANGES (cont'd)

SPECIAL CAUSES
OF LOSS

For Special Causes of Loss, a simultaneous iterative procedure is used as for BG I to arrive at a set of type of policy and category relativities (as displayed on Exhibit B5) that best represent the experience within each state. The type of policy relativities serve to price CPP policies relative to monoline policies via the PMFs, while the category relativities serve to price the various categories relative to one another.

The indicated monoline loss cost level changes are calculated for each category by taking the product of the monoline type of policy relativity, the category relativity and the statewide coverage loss cost change. See Exhibit B5 for the monoline loss cost indications.

The overall monoline loss cost level change is a weighted average of the 14 monoline category changes. In calculating this weighted average, the latest year monoline and multiline combined loss costs at current level are used as weights.

EXPLANATORY NOTES TO EXHIBITS B4 AND B5

BASIC GROUP I AND SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

INTRODUCTION

The explanations which follow clarify Exhibits B4 and B5, the Basic Group I relativity analysis and the Special Causes of Loss relativity analysis, respectively. The purpose of these analyses is to:

- (1) determine monoline classification and territorial loss cost level needs for Basic Group I;
- (2) determine monoline category loss cost level needs for Special Causes of Loss;
- (3) determine indicated changes to the eight CPP package modification factors (PMFs) based on Basic Group I/Special Causes of Loss experience.

COLUMN (1)

LEAST SQUARES FORMULA RELATIVITIES

The least squares formula relativities are the marginal relativities which result from the application of the simultaneous review procedure to the raw experience (where marginal refers to the relativities for a given rating variable, e.g. type of policy, across all subsets of any other rating variables, i.e. rating group and territory for Basic Group I, and category for Special Causes of Loss).

The purpose of such a simultaneous review procedure is to arrive at a set of type of policy relativities (which will serve to price CPP policies relative to monoline policies via the PMFs); a set of rating group/territory relativities for Basic Group I; and a set of category relativities for Special Causes of Loss that best represent the experience. This procedure is in contrast to a review of each rating variable's experience separately. Such one-way types of review do not take into account differing percentages of monoline and multiline experience in each rating variable, nor differing percentages of a particular rating variable's experience in the monoline and multiline types of policy. The simultaneous relativity procedure accounts for these different distributions in generating relativities for the various rating variables.

EXPLANATORY NOTES TO EXHIBITS B4 AND B5 (cont'd)

COLUMN (1)
(Cont'd)

The procedure follows an iterative technique to determine a set of marginal relativities by rating variable that is a best fit to the individual cell relativities, with each cell being defined as the cross-section of specific values of each rating variable. The process uses the relativity of the five year experience ratios by rating cell to the overall statewide experience ratio and the latest year aggregate loss costs for each rating cell. (This experience is shown in Exhibits B6 for Basic Group I and Exhibits B7 for Special Causes of Loss.) Specifically, the iteration procedure uses the following formulas:

BASIC GROUP I:

$$TOP_i = \frac{\sum_{j=1}^n \sum_{k=1}^t W_{ijk}^2 R_{ijk} RG_j TER_k}{\sum_{j=1}^n \sum_{k=1}^t W_{ijk}^2 RG_j^2 TER_k^2}, \quad \text{where } 1 \leq i \leq m;$$

$$RG_j = \frac{\sum_{i=1}^m \sum_{k=1}^t W_{ijk}^2 R_{ijk} TOP_i TER_k}{\sum_{i=1}^m \sum_{k=1}^t W_{ijk}^2 TOP_i^2 TER_k^2}, \quad \text{where } 1 \leq j \leq n;$$

$$TER_k = \frac{\sum_{i=1}^m \sum_{j=1}^n W_{ijk}^2 R_{ijk} TOP_i RG_j}{\sum_{i=1}^m \sum_{j=1}^n W_{ijk}^2 TOP_i^2 RG_j^2}, \quad \text{where } 1 \leq k \leq t;$$

SPECIAL CAUSES OF LOSS:

$$TOP_i = \frac{\sum_{j=1}^n w_{ij}^2 R_{ij} CAT_j}{\sum_{j=1}^n w_{ij}^2 CAT_j^2}, \quad \text{where } 1 \leq i \leq m;$$

$$CAT_j = \frac{\sum_{i=1}^m w_{ij}^2 R_{ij} TOP_i}{\sum_{i=1}^m w_{ij}^2 TOP_i^2}, \quad \text{where } 1 \leq j \leq n;$$

EXPLANATORY NOTES TO EXHIBITS B4 AND B5 (cont'd)

COLUMN (1)
(cont'd)

- TOP_i is the relativity for the i th type of policy;
- RG_j is the relativity for the j th rating group;
- CAT_j is the relativity for the j th category;
- TER_k is the relativity for the k th territory;
- W_{ijk} is the loss cost volume at current level for the i th type of policy, j th rating group and k th territory;
- R_{ijk} is the experience ratio relativity for the i th type of policy, j th rating group and k th territory;
- R_{ij} is the experience ratio relativity for the i th type of policy, and j th category;
- m is the number of types of policy in the analysis;
- n is the number of rating groups or categories in the analysis;
- t is the number of territories in the analysis.

The procedure determines m type of policy relativities using the above formulas. Then, using those results, a set of n rating group and t territory relativities are determined. These steps form an iterative process which continues until there is no appreciable difference in results from one iteration to the next.

COLUMN (2)

CREDIBILITY

The credibility of the experience for each rating variable is determined from the formula:

$$Z = \frac{P}{P + K} ,$$

where P represents the five-year aggregate adjusted loss costs for a given rating variable, and K is a constant value. For Basic Group I, K equals an aggregate loss cost volume of \$55,000,000 for territory, \$40,000,000 for rating group, and \$100,000,000 for type of policy. For Special Causes of Loss, K equals an aggregate loss cost volume of \$15,000,000 for rating group and \$40,000,000 for type of policy.

EXPLANATORY NOTES TO EXHIBITS B4 AND B5 (cont'd)

COLUMN (3)

CREDIBILITY-WEIGHTED RELATIVITIES

Credibility-weighted relativities are calculated based on the formula

$$W = R^Z,$$

where Z is the credibility, R is the least squares formula relativity and W is the credibility weighted relativity for a given rating variable.

This formula implicitly assigns the complement of credibility to a relativity of unity.

COLUMN (4)

BALANCED RELATIVITIES

The credibility-weighted relativities are balanced to assure that the average relativity across all rating variables remains at unity.

COLUMN (5)

INDICATED MONOLINE LOSS COST LEVEL CHANGE

For Basic Group I, the indicated monoline loss cost changes are calculated for each rating group and territory by taking the product of the monoline type of policy (TOP 10) relativity, the territory relativity, the rating group relativity and the statewide loss cost level change. (An example of such a calculation appears on Exhibits B4.)

The indicated monoline loss cost changes by rating group shown in Exhibits B4 of this analysis are the aggregate loss cost weighted averages of the monoline loss cost changes for the rating group across all territories.

EXPLANATORY NOTES TO EXHIBITS B4 AND B5 (cont'd)

COLUMN (5)
(cont'd)

Similarly, the indicated monoline loss cost changes by territory shown on the second page are aggregate loss cost-weighted averages of the monoline loss cost changes for the territory across all rating groups. The indicated overall statewide monoline loss cost level change shown at the bottom of the first page of Exhibit B4 is the aggregate loss cost-weighted average of the individual rating group changes across all territories.

For Special Causes of Loss, the indicated monoline loss cost changes are calculated for each category by taking the product of the monoline type of policy (TOP 10) relativity, the category relativity, and the statewide loss cost level change. (An example of such a calculation is included in Exhibits B5.) The indicated overall statewide loss cost level change shown at the bottom of Exhibits B5 is the aggregate loss cost-weighted average of the individual category changes.

In all cases, the loss costs used in these calculations are the latest year's monoline and multiline combined adjusted loss costs.

MULTILINE
CONSIDERATIONS

The type of policy (TOP) relativities are used to generate multiline indications which apply to the current implicit package modification factors (IPMF's). The indicated IPMF's are calculated as follows:

$$\frac{\text{TOP y indicated IPMF}}{\text{IPMF}} = \frac{(\text{TOP y current IPMF})(\text{TOP y relativity})}{\text{monoline relativity}}$$

For each CPP type of policy, the indicated IPMF is subject to a minimum value of 0.50 and a maximum value of 1.50. If an indicated IPMF falls outside one of those limits, it is capped at that amount, the loss costs for that type of policy are adjusted to the capped IPMF level, and the entire relativity review as described above is re-performed to take this into account. If an IPMF has been capped, it is so noted at the bottom of Exhibits B4 and Exhibits B5.

It should be noted that although this procedure generates multiline indications, this filing only addresses monoline loss cost levels. That is, upon implementation of this filing only the monoline loss costs will be revised. The multiline indications developed here will be combined with those of the other component coverages, e.g. GL Premises and Operations in the CPP review for the purpose of revising the package modification factors.

EXPLANATORY NOTES TO EXHIBITS B6 AND B7

BASIC GROUP I/SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

INTRODUCTION	<p>The experience used in the relativity analysis and displayed on Exhibit B6 and B7 is the latest five accident years of data reported under the Commercial Statistical Plan. As in the overall review, loss costs have been adjusted to current ISO loss cost and prospective amount of insurance levels (with multiline aggregate loss costs adjusted additionally by the current implicit package modification factors). Incurred losses are adjusted to prospective cost levels, and are further adjusted by the Basic Group I large loss procedure and the Special Causes of Loss excess procedure. Losses have also been developed to their ultimate settlement value by application of loss development factors.</p>
COLUMN (1)	<p><u>2019 AGGREGATE LOSS COSTS</u></p> <p>The latest accident year aggregate loss costs (adjusted as described above) are used as weights both in the calculation of any totals shown in this table and in the iterative formulas used in the simultaneous review procedure.</p>
COLUMN (2)	<p><u>2015 - 2019 AGGREGATE LOSS COSTS</u></p> <p>The combined five-year adjusted aggregate loss costs (adjusted as described above) are used to calculate the experience ratios in column (3).</p>
COLUMN (3)	<p><u>FIVE-YEAR EXPERIENCE RATIOS</u></p> <p>These are the ratios of the combined five-year adjusted incurred losses (adjusted as described above) to the combined five-year adjusted aggregate loss costs as shown in column (2). Any totals which are shown are weighted averages using the adjusted aggregate loss costs in column (1).</p>
COLUMN (4)	<p><u>CREDIBILITY (Z) WEIGHTED EXPERIENCE RATIO</u></p> <p>A credibility procedure is applied to the initial experience ratios in column (3) on a cell-by-cell basis prior to the simultaneous review procedure. The credibility values are calculated using an empirical Bayesian credibility procedure. In the following discussion, cell refers to an individual combination of TOP, rating group or category, and territory (where applicable).</p>

EXPLANATORY NOTES TO EXHIBITS B6 AND B7 (cont'd)

COLUMN (4)
(cont'd)

The important concept underlying empirical Bayesian credibility is that credibility should depend both on the overall variation of the group of which the cell is a member and the variation of the yearly experience ratios for the cell. Therefore, if a cell's data is very stable then a relatively high credibility value is assigned, and vice versa.

The empirical Bayesian credibility formula for individual cell credibility is $Z = ((C-3)/C) (P/(P+K)) + (3/C)$. P equals the cell's five-year adjusted aggregate loss costs and C equals the number of unique combinations of rating variables (Territory, TOP and Rating Group/Category) within a class group. The K value is estimated from the underlying data using the empirical Bayes method and varies by TOP group and by territory where applicable. The three TOP groups used in this analysis are: Monoline (TOP 10), Premises (TOP's 31-35), and Operations (TOP's 36-38). The 3/C term corrects for the statistical bias associated with the credibility process. The minimum credibility that is possible is 3/C.

COLUMN (5)

WEIGHTED RELATIVITIES

The relativities are the ratios of the five-year credibility-weighted experience ratios shown in column (4) to the average five-year credibility-weighted experience ratio for all TOP's, rating groups and territories (where applicable) combined. These relativities represent how much better or worse than average the experience for a given cell is. They are used along with the aggregate loss costs in column (1) as input for the simultaneous review procedure.

EXPLANATORY NOTES TO EXHIBIT B8

BASIC GROUP II RELATIVITY ANALYSIS

INTRODUCTION

The explanations which follow clarify Exhibit B8, the Basic Group II (BG II) relativity analysis. The purpose of this analysis is to:

- (1) determine the monoline loss cost level need;
- (2) determine indicated changes to the eight CPP package modification factors (PMFs) based on Basic Group II experience.

COLUMN (1)

2019 AGGREGATE LOSS COSTS

The latest accident year adjusted aggregate loss costs (adjusted in the same manner as in the overall review, i.e. to current manual loss cost and prospective amount of insurance levels, with multiline aggregate loss costs further adjusted to current IPMF level) are used as weights in the calculation of any totals shown in this table.

COLUMN (2)

2010 - 2019 EXPERIENCE RATIO

These experience ratios are the ratios of the combined ten-year CSP adjusted incurred losses (adjusted to current deductible and prospective cost levels including loss development, and smoothed by the BG II excess loss procedure) to the combined ten year CSP adjusted aggregate loss costs. Any totals which are shown are weighted averages using the aggregate loss costs in column (1). When a dash is displayed in the column, it indicates that the indicated IPMF which resulted from this procedure was capped. The procedure which follows when capping occurs is described below.

COLUMN (3)

FORMULA RELATIVITY

The formula relativities are the ratios of the ten year experience ratios for the type of policy (either monoline vs. multiline or individual multiline programs) to the average ten year experience ratio for monoline and multiline combined. These relativities represent how much better or worse than average the experience for a given type of policy is. Again, any totals which are shown are weighted averages and the display of a dash indicates that the resulting IPMF was capped. Unlike the BG I and SCL relativity analyses, the BG II analysis does not employ a simultaneous review procedure since a one way review is involved. That is, the overall loss cost change is only distributed across type of policy; no other rating variables are considered.

EXPLANATORY NOTES TO EXHIBIT B8 (cont'd)

COLUMN (4)

CREDIBILITY

The credibility of the experience for each type of policy is determined from the formula:

$$Z = \frac{P}{P + K}$$

where P is the ten year aggregate adjusted loss costs for a given type of policy, and K is a constant loss cost volume of \$45,000,000.

COLUMN (5)

Z - WEIGHTED RELATIVITY

The weighted relativity is a weighted average of the individual TOP formula relativity and the overall (coverage) formula relativity using credibility and its complement as the respective weights. Therefore, to the extent that the indication for a type of policy is not fully credible, the complement of credibility is assigned to the statewide coverage level change.

COLUMN (6)

BALANCED FORMULA RELATIVITY

The individual multiline weighted relativities are balanced to the multiline weighted relativity level by applying a factor equal to the overall multiline relativity (i.e. the weighted relativity for all multiline combined which is shown on the top of the exhibit directly under the corresponding monoline relativity) divided by the average multiline relativity (i.e. the weighted average of the individual multiline weighted relativities which is shown on the bottom of the exhibit). When the indicated IPMF for a type of policy is capped, the balanced relativity is set equal to the product of the capped IPMF in column (9) and the monoline balanced formula relativity in column (6), divided by the current IPMF in column (8).

COLUMN (7)

NORMALIZED FORMULA RELATIVITY

The normalized relativity is equal to the balanced formula relativity divided by the average monoline/multiline combined relativity. This balances the average monoline/multiline relativity to unity.

COLUMN (8)

CURRENT IMPLICIT PMF

This is the current IPMF for each multiline type of policy.

EXPLANATORY NOTES TO EXHIBIT B8 (cont'd)

COLUMN (9)

INDICATED IMPLICIT PMF

The indicated IPMF is calculated from the normalized relativities as follows:

$$\frac{\text{TOP y indicated IPMF}}{\text{IPMF}} = \frac{(\text{TOP y current IPMF})(\text{TOP y relativity})}{\text{monoline relativity}}$$

For each CPP type of policy the indicated IPMF is subject to a minimum value of 0.50 and a maximum value of 1.50. If an indicated IPMF falls outside one of those limits, it is capped at that amount, the aggregate loss costs for that type of policy are adjusted to the capped IPMF level, and the entire relativity review as described above is redone to take this into account. If an IPMF has been capped it is so noted in footnote A.

COLUMN (10)

INDICATED LOSS COST CHANGES

The indicated monoline and multiline (by TOP) changes are calculated by taking the product of the statewide loss cost level change and the corresponding TOP relativity.

The overall multiline loss cost level change is the aggregate loss cost weighted average of all multiline TOP loss cost level changes.

MULTILINE
CONSIDERATIONS

It should be noted that although this procedure generates multiline indications, this filing only addresses monoline loss cost levels. That is, upon implementation of this filing only the monoline loss costs will be revised. The multiline indications developed here will be combined with those of the other component coverages, e.g. GL Premises and Operations in the CPP review for the purpose of revising the package modification factors.

OVERVIEW

AGGREGATE LOSS COSTS AT CURRENT LEVEL

Exhibit C1, C2 and C3 provide the overall loss cost/rate level histories for Basic Group I, Basic Group II, and Special Causes of Loss respectively. These tables, along with Exhibits C4 and C5, provide information on the on-level factors needed to bring collected aggregate loss costs to current loss cost level.

Exhibit C4 provides rate level/loss cost level histories by rating id (class vs. specific), rating group, and territory (where applicable) for Basic Group I, while Exhibit C5 provides rate level/loss cost level histories by category for Special Causes of Loss. These tables can be used to develop on-level factors appropriate to bring collected aggregate loss costs up to current loss cost level. Factors based on these tables are more appropriate for company use than the overall factors shown on Exhibits C1 and C3 if the company's mix of business differs substantially from the industrywide average. For example, if a company's business is very heavily concentrated in a single class or territory, it is more appropriate to use the rate level/loss cost history for that class rather than the overall average to develop on-level factors.

Exhibits C7, C8 and C9 provide the current implicit package modification factors (IPMFs) and IPMF caps for Basic Group I, Basic Group II and Special Causes of Loss.

ADJUSTMENTS TO LOSSES

The loss projection factors, current cost factors, and loss trend adjustments shown on Exhibits C10, C11 and C12 reflect the combined impact of all economic influences on Commercial Property underwriting results and are used to project past underwriting results to future loss levels. They are intended to reflect the impact of inflation on loss payments, the impact of higher costs due to repairs done on an "emergency" basis, the impact of coinsurance and relative insurance to value on loss payments, and any other economic influences which can affect underwriting losses but for which specific provisions are not made. Losses have also been developed to their ultimate settlement value using factors shown on Exhibit C17.

CREDIBILITY

Credibility, Z , is a weight given to the most recent body of data. The complement of credibility, $1-Z$, is the weight assigned to net trend. The final estimate is a weighted average obtained by using the formula $C = Z \times R + (1-Z) \times N$, where

Z = credibility

C = final estimate

R = estimate based on the most recent data

N = net trend

OVERVIEW (cont'd)

CREDIBILITY (cont'd)

Credibility may range from 0 to 1, where $Z=1$ is full credibility and $Z=0$ is no credibility. The actual numerical value of Z is calculated by considering how the state's volume of experience compares with the full credibility standard. Credibility is capped at 25% if the credibility calculated is less than 25%. See Exhibits C22, C23 and C24 for a complete explanation of the credibility standards for Basic Group I, Basic Group II, and Special Causes of Loss.

LOSS COST/RATE LEVEL HISTORY

Loss cost/rate level histories are provided for Basic Group I, Basic Group II and Special Causes of Loss. The loss cost/rate level changes are then further split out by rating territory, rating group or category since a company's business may be more heavily concentrated in a single class. These histories can be used to develop on-level factors appropriate to bring collected aggregate loss costs up to current loss cost levels.

EXPLANATORY NOTES TO EXHIBITS C1, C2 AND C3

LOSS COST/RATE LEVEL HISTORIES

COLUMN (1)

EFFECTIVE DATE

The effective dates of the latest loss cost/rate level changes are shown.

COLUMN (2)

LOSS COST/RATE LEVEL CHANGE

The overall loss cost/rate level change is shown in percent form.

COLUMN (3)

LOSS COST/RATE LEVEL INDEX

The product of all loss cost/rate level changes up to and including the loss cost/rate change for that effective date is used to calculate on level factors.

COLUMN (4)

WRITTEN ADJUSTMENT (ON LEVEL) FACTORS

The factors are used to bring individual policies with inception dates prior to the effective date up to current loss cost level. For Basic Group II these are the actual factors used. However, the loss cost/rate changes for Basic Group I vary by rating group and territory (where applicable), while the loss cost/rate level changes for Special Causes of Loss vary by category. Consequently, for these coverages the on-level factors represent average factors and are not the factors actually used to adjust the aggregate loss costs on an individual policy basis. For complete loss cost/rate level histories by rating group and territory (where applicable) for Basic Group I and by category for Special Causes of Loss refer to Exhibits C4 and C5.

COLUMN (5)

WEIGHT

The weight indicates the portion of the effective year for which the on level factors apply. These can be used to calculate average yearly factors.

EXPLANATORY NOTES TO EXHIBIT C4

HISTORY OF BASIC GROUP I LOSS COST/RATE CHANGES
BY TERRITORY, RATING ID AND RATING GROUP

TERRITORY

The loss cost/rate level changes shown apply to the rating territory shown here.

EFFECTIVE DATE

The effective dates of the latest loss cost/rate level changes are shown.

LOSS COST/RATE LEVEL CHANGES

Loss cost/rate level changes are shown in percent form for each rating group.

EXPLANATORY NOTES TO EXHIBIT C5

HISTORY OF BASIC GROUP II LOSS COST CHANGES BY TERRITORY

COLUMN (1)	<u>TERRITORY</u> The loss cost level changes shown apply to the rating territory shown here.
COLUMN (2)	<u>EFFECTIVE DATE</u> The effective dates of the latest loss cost level changes are shown.
COLUMN (3)	<u>SYMBOL</u> The construction group symbol is shown here. Refer to the explanatory notes to Exhibit C25 for the symbol definitions.
COLUMN (4)	<u>BUILDING</u> Building loss cost changes are shown in percent form.
COLUMN (5)	<u>CONTENTS</u> Contents loss cost changes are shown in percent form.

EXPLANATORY NOTES TO EXHIBIT C5

HISTORY OF SPECIAL CAUSES OF LOSS
LOSS COST/RATE LEVEL CHANGES BY CATEGORY

COLUMN (1)

EFFECTIVE DATE

The effective dates of the latest loss cost/rate level changes are shown.

COLUMN (2)

LOSS COST/RATE LEVEL CHANGES BY CATEGORY

Loss cost/rate changes are shown in percent form for each category. Refer to Exhibit D2 for definitions of the current 14 categories.

The prior category definitions (before implementation of the revised rating for Special Causes of Loss) are:

- 01 - Buildings
- 02 - Apartments Contents
- 03 - Office Contents
- 04 - Mercantile, Motel/Hotel and Institutional Contents
- 05 - Service, Industrial/Processing, and Contractors Contents

COMMERCIAL PACKAGE POLICY IMPLICIT PACKAGE MODIFICATION FACTORS (IPMF's)
AND IPMF CAPS

IMPLICIT PACKAGE
MODIFICATION
FACTORS

Since multiline experience is included in the loss cost level evaluations, an additional adjustment is made to multiline aggregate loss costs after they have been brought to current ISO loss cost level. This adjustment is the application of implicit CPP package modification factors which vary for each of the eight CPP types of policy.

The loss costs used to price a Commercial Package Policy (CPP) are the monoline loss costs multiplied by the PMF to reflect the package policy discount for the particular type of CPP policy relative to the individual monoline policies. However, these PMF's measure the amount of multiline discount for all property coverages combined. A more accurate measure of the amount of multiline discount for each subline (e.g., Basic Group I, Basic Group II, or Special Causes of Loss) is the implicit package modification factor that was used to calculate the overall PMF for all property coverages combined.

For example, the published PMF for Apartments (all property coverages combined) may be .85, but the implicit PMF for Apartments, Commercial Basic Group I coverage only, may be .80. The average of the implicit PMF's for the various coverages is equal to the published PMF for each type of policy.

The current IPMF's by coverage for each CPP type of policy are applied to multiline aggregate loss costs at current level for Basic Group I, Basic Group II and Special Causes of Loss.

IPMF CAPS

For Basic Group I, Basic Group II, and Special Causes of Loss, the IPMF's lower caps are set at 0.50 and the upper caps are set at 1.50 for all TOP's.

EXPLANATORY NOTES TO EXHIBITS C7, C8 AND C9

IMPLICIT PACKAGE MODIFICATION
FACTORS (IPMF's) AND IPMF CAPS

EXHIBITS C7, C8
AND C9

These tables provide the current IPMF's and IPMF caps for Basic Group I, Basic Group II, and Special Causes of Loss. The IPMF's shown here are those which resulted from the most recent CPP revision. The IPMF lower caps are set at .50 and the upper caps are set at 1.50 for all TOP's.

TREND PROCEDURE

INTRODUCTION

The prospective loss cost levels established in this document reflect the anticipated claim cost and claim frequency levels and changes in revenue due to increased amounts of insurance purchased for the period when the new loss costs are assumed to be in effect.

LOSS TREND

EXTERNAL LOSS DATA

For Commercial Property, the loss trend factors are referred to as current cost factors (CCF's) and loss projection factors (LPF's). These CCF's and LPF's are based on the following accepted economic indices:

1. Xactware Commercial Index (XCI) for buildings loss projection factors and current cost factors
2. Producer Price Index (PPI) published by the US Department of Labor (Finished Goods Less Energy, Not Seasonally Adjusted) for contents factors
3. Index for Manufacturers' Sales Exposure (IMSEP) developed by ISO using indices published by the Department of Commerce and Chain-Type Price Index for Retail Sales (RSALES) produced by the Bureau of the Census, Bureau of Economic Analysis for time element factors

The CCF's adjust losses for actual inflationary changes which have taken place between the accident date and the midpoint of the latest period of external trend information, i.e. May 15, 2020 for property damage and time element. The LPF's adjust losses for projected inflationary changes from the midpoint of the latest period of external trend information to the anticipated average date of accident for policies written under the proposed loss costs (assumed to be 12 months after the assumed revision date based on all one-year policies).

The CCF's and LPF's are calculated separately for buildings, contents, and time element coverages. For coverage 3 (buildings and contents on a combined basis), combined trend factors are calculated using the following weights for buildings and contents: 70%/30% for Basic Group I, 75%/25% for Basic Group II, and 50%/50% for Special Causes of Loss. For time element (coverages 4-9) the combined trend factors are calculated using 70%/30% weights for RSALES/IMSEP. The factors are applied by coverage to the losses reported under CSP and CMSP on an individual occurrence basis.

TREND PROCEDURE (cont'd)

LOSS TREND (cont'd)

LOSS TREND ADJUSTMENT - SEVERITY

An evaluation of the latest Commercial Property insurance data shows that the cost levels inherent in the property damage coverages are increasing at a different rate than those measured by the external indices. Therefore, to insure adequate prospective loss cost levels during the period for which loss costs are to be determined, loss trend adjustments (LTA's) have been applied. These factors were developed by comparing the annual rate of change in average claim costs to the annual rate of change in the external indices. (Refer to Exhibit C12 for the calculations.)

LOSS TREND ADJUSTMENT - FREQUENCY

In order to reflect total trend more precisely, a frequency component is included in the loss trend adjustment factors (LTA's) separately for buildings and contents for Basic Group I and contents only for Special Causes of Loss. No frequency component is used for Basic Group II and Special Causes of Loss buildings due to the extremely volatile nature of the coverages.

AMOUNT-OF- INSURANCE TREND

Cost changes over time to both real and personal property result in insureds purchasing increased amounts of insurance. To reflect the impact of this phenomenon, amount of insurance trend factors are applied to collected loss costs to bring them to prospective amount of insurance levels. These factors are developed by measuring amount of insurance trends on a sample of renewal policies.

The application and development of these factors parallels loss trend factors in that separate factors are developed for buildings, contents, and time element, and the adjustment to prospective amount of insurance levels is done in two steps. The current written factors adjust loss costs to the amount of insurance level for the midpoint of the latest period of renewal information, i.e. July 1, 2019. Total amount of insurance trend factors are then calculated by projecting these current factors to the average date of writing (i.e. to the amount of insurance level six months beyond the assumed effective date).

EXPLANATORY NOTES TO EXHIBIT C10

PART A: XACTWARE, PRODUCER PRICE, IMSEP, RSALES INDICES AND COMBINED TIME ELEMENT

QUARTER	The quarter for which the indices shown apply.
XACTWARE COMMERCIAL INDEX (XCI)	The Xactware Commercial Index measures the costs of building material and repairs for commercial properties. The index, which is available since 1st Quarter 2005, is based on regular surveys of over 42,000 material and equipment suppliers and over 9,500 contractors, in addition to claims settlement data. The index values are created by estimating the cost to rebuild a sample set of different structures ranging in size, style, and quality in each economic market. The Xactware index is used in this filing to adjust for current cost from 1/1/05 to the midpoint of the latest index point and for determining the loss projection factor.
PRODUCER PRICE INDEX (PPI)	The Producer Price Index is a time series which measures the price level for a predetermined group of goods produced relative to the price level for an earlier point in time (2009). The PPI Finished Goods Less Energy is published by the U.S. Department of Labor.
PRICE DEFLATOR INDEX FOR MANUFACTURERS' SALES EXPOSURE (IMSEP)	<p>The price deflator index for manufacturers' sales exposure is a quarter's model of Manufacturers' Sales Exposure Proxy (MSEP) for the period in question relative to MSEP measured in chained 2012 dollars. The price deflator is defined as the GNP (Gross National Product) price deflator with government expenditures, investment in intellectual property products, inventory changes, and all services except food services removed.</p> $\text{MSEP} = (\text{CD} + \text{CN} + \text{FS}) + (\text{EXD\&N} - \text{IMD\&N}) + (\text{IFIX} - \text{IPP}), \text{ where}$ <p>CD and CN represent consumption of durables and nondurables, respectively; EXD&N and IMD&N represent exports and imports of merchandise, respectively; FS represents food services and IFIX represents gross private domestic fixed investment (including residential fixed investment as well as nonresidential fixed investment in structures, equipment, and intellectual property products); and IPP represents nonresidential fixed investment in intellectual property products.</p>
CHAIN-TYPE PRICE INDEX FOR RETAIL SALES (RSALES)	The Chain-Type Price Index for Retail Sales measures changes in losses due solely to inflation.

EXPLANATORY NOTES TO EXHIBIT C10 (cont'd)

PARTS B, C and D: COMPUTATION OF THE LOSS PROJECTION FACTOR

LOSS PROJECTION
FACTOR

The loss projection factor is calculated by fitting a least squares exponential curve to the appropriate number of points (where the appropriate number of points is determined based on judgment and an examination of the goodness of fit as determined by the R-squared values subject to a maximum of 12 quarterly points for property damage and time element).

The table displays the indices for those points used in fitting the curve. The relevant equations are shown and the annual rate of change in the indices based on the exponential fit is developed. This annual rate of change is projected over the period which extends from the latest period of cost information to the average accident date of the projection period.

PART E: CALCULATION OF CURRENT COST FACTORS (CCF'S)

CALENDAR YEAR
AVERAGES

The calendar year averages are the averages of the Xactware, PPI and Time Element indices for the given year. These average indices measure the average cost level of each year relative to the base.

CURRENT COST
FACTORS

The current cost factors are the ratios of the indices for the latest period of cost information divided by the average indices for each calendar year. These factors measure the changes in cost levels which have occurred from the midpoint of the given year to the latest point of cost information. In this regard, they represent average factors which would result if each year's losses were distributed evenly throughout the year.

For buildings, the index for the latest point is based on the latest available Xactware point.

Since losses are trended on a record by record basis, these calendar year factors are not actually used in ISO's trend calculations. Instead, factors are calculated from the bi-monthly or quarterly indices and applied to the unit losses based on the date of occurrence.

EXPLANATORY NOTES TO EXHIBIT C11

SUMMARY OF LOSS TREND ADJUSTMENTS (LTA'S)

COLUMN (1)

COVERAGE

The LTA's vary by coverage (buildings, contents, and time element) and line of business (BG I, BG II, and SCL).

COLUMN (2)

FIVE-YEAR INCURRED LOSSES

The five-year multistate incurred losses are used as weights to determine the annual LTA for all lines of business and coverages combined.

COLUMN (3)

ANNUAL LTA's

The LTA's are the factors which are applied to losses to supplement the external indices in order to correctly reflect cost level and claim frequency changes. These are shown here as annual factors. However, they are applied over the entire length of the trend period, i.e. from the date of loss occurrence to the anticipated average accident date under the revised loss costs. The severity portion of the LTA is applied on an individual record basis in the same manner as the CCF's and LPF's. The frequency portion of the LTA is applied to the aggregate losses.

OVERVIEW

DEVELOPMENT OF LOSS TREND ADJUSTMENTS

INTRODUCTION

In order to supplement the external indices reflected in CCF's and LPF's, loss trend adjustments (LTA's) have been developed based on internal loss data. This is necessary because the external indices alone have been insufficient in reflecting cost level and claim frequency changes in Commercial Property Insurance. The following tables show the calculations used to develop these LTA's. Please note the development of the LTA's for the 2020 COMFAL reviews is based on internal commercial property experience through 12/31/2018 and external cost indices through 12/31/2018. Therefore, the CCF's and LPF's shown on Exhibit C12 will not necessarily match those shown on Exhibit C10. ISO has determined that the selected LTAs are appropriate to be used with the latest external indices shown on Exhibit C10.

EXPLANATORY NOTES TO EXHIBIT C12

DEVELOPMENT OF LOSS TREND ADJUSTMENTS (LTA'S)

I. EXTERNAL RATE OF CHANGE

COLUMN (1), (2)
AND (3)

CURRENT COST FACTORS

The CCF's underlying the LTA analysis are based on external cost indices through 12/31/2018 for buildings, contents and time element.

COLUMNS (4)
AND (5)

WEIGHTS

The standard review weights are shown for each line of business.

LINES (6)

AVERAGE CURRENT COST FACTORS

The average CCF's for the experience period are calculated based on the weights shown in columns (4) and (5).

LINE (7)

LOSS PROJECTION FACTORS

The LPF's underlying the LTA analysis are shown here.

LINE (8)

TOTAL TREND

The total trend is the product of the average CCF and the LPF.

LINE (9)

EXTERNAL ANNUAL RATE OF CHANGE

The total trend is converted to an annual basis by raising it to the reciprocal of the number of years between the weighted midpoint of the experience period and the anticipated average accident date. For BG I and SCL the weighted midpoint of the experience period is 1/1/2017, for BG II it is 1/1/2014. Accordingly, there are 54 and 90 months, respectively, to the anticipated average accident date of 7/1/2021.

II. INTERNAL ANNUAL RATES OF CHANGES

LINE (10)

SELECTED COMFAL

The displayed annual rates of change in the average claim costs for BG I, BG II, and SCL were selected based on several least squares exponential fits of the annual claim costs for each subline. This was done to the most recent ten years of Commercial Property data using all companies in the ratemaking data base.

EXPLANATORY NOTES TO EXHIBIT C12 (cont'd)

III. LTA CALCULATION

COLUMN (11)

ANNUAL EXTERNAL

The annual external rates of change from column (9) are shown here.

COLUMN (12)

ANNUAL INTERNAL

The adjusted annual internal rates of change in average loss from line (10) are shown here.

COLUMN (13)

INDICATED SEVERITY LTA

The indicated severity LTA's are calculated by dividing the annual internal rates of change by the annual external rates of change.

COLUMN (14)

FORMULA SEVERITY LTA

The severity LTA's in column (13) are then selected to temper the full effect of internal trend data. Without such tempering, full weight would in effect be given to the internal data without any consideration of the external cost indices.

COLUMN (15)

FREQUENCY EFFECT

The displayed annual rates of change in claim frequency for BG I and SCL were selected based on several least squares exponential fits of the claim frequency by subline. No frequency trend was selected for BG II and SCL buildings due to the extremely volatile nature of the coverage.

COLUMN (16)

FINAL LTA

The final LTA is the combination of the severity and frequency trend adjustments, calculated as column (14) times column (15), in factor form.

EXPLANATORY NOTES TO EXHIBIT C13
EXPOSURE AND PREMIUM TREND FACTORS

Exhibit C13 contains Exposure trend factors, Premium trend factors for Basic Group I, Basic Group II and Special Causes of Loss respectively, building and contents. As annual written exposures increase (decrease), the resulting limit of insurance factors used for rating decrease (increase) and the combined effect should be reflected when trending premiums to future level. There are separate premium trend factor tables for Basic Group I, Basic Group II and Special Causes of Loss since there are separate limit of insurance curves for BG I, BG II and SCL.

For Time Element, exposure trend factors are also used to trend premiums, i.e., there are not separate Time Element premium trend factors because Time Element does not use limit of insurance factors for rating.

COLUMNS (1)
AND (5)

ANNUAL WRITTEN INCREASE

The annual written increases for buildings, contents, and time element are calculated from the actual changes in amount of insurance from one year to the next for a sample of renewal policies (based on BG I experience). The change in amount of insurance for each policy in the sample was weighted with its prior year's premiums to obtain a weighted average change for each year. The Annual Written Increase in Premiums (Exhibit C13) are calculated as the Annual Written Increase in Exposure tempered by the change in Limit of Insurance factor.

COLUMNS (2)
AND (6)

7/1/2019 WRITTEN FACTORS

The written factors for a given year are the product of the written annual changes for all years subsequent to that year. Although the 2019 written changes are based on two quarters of data, the consistency of this experience allows for the assumption that written changes for the first half of 2019 are applicable for the entire year.

COLUMNS (3)
AND (7)

10/1/2021 PROJECTED FACTORS

The 10/1/2021 factors are calculated by applying a factor to adjust the 7/1/2019 written factors to the amount of insurance level at the average date of writing, 10/1/2021. This is done using the selected annual changes in exposure or premium.

COLUMNS (4)
AND (8)

10/1/2021 EARNED EXPOSURES/PREMIUM FACTORS

The projected earned factors at the 10/1/2021 level (where 10/1/2021 is the average date of writing in the effective period) are calculated by earning the written factors assuming all one-year policies. The earning factors are shown in footnote (c).

EXPLANATORY NOTES TO EXHIBITS C14, C15 AND C16

BG I, BG II, AND SCL ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

COLUMN (1) UNADJUSTED INCURRED LOSSES

The unadjusted incurred losses are the reported losses prior to any adjustment.

COLUMN (2) TRENDED INCURRED LOSSES

The trended incurred losses are the aggregate of the individual losses trended on a unit record basis.

COLUMN (3) AVERAGE TREND FACTOR

The average trend factors are the trended incurred losses in column (2) divided by the unadjusted incurred losses in column (1). Although average factors could be calculated from the information contained in Exhibits C10 through C12, they would differ from the factors shown in this table for the following reasons:

- (1) In calculating such averages, the usual assumption is that the losses are spread evenly throughout the year, yielding the midpoint of each year as the average date of loss. A predominance of losses at a certain time of the year could shift the average accident date away from the midpoint.
- (2) The average trend factors will be slightly higher due to the impact of trend on the deductible.

COLUMN (4) PERCENTAGE SPLIT BETWEEN BUILDINGS, CONTENTS, AND TIME ELEMENT

The current cost factors and loss projection factors are different for buildings, contents, and time element. Therefore, in addition to the reasons cited above, the average trend factors will differ from state to state depending on the buildings/contents/time element split. Companies with splits substantially different from the industrywide averages shown here may find it appropriate to develop trend factors which reflect their own coverage mix.

LOSS DEVELOPMENT

INTRODUCTION

For Commercial Property, losses are evaluated as of December 31, 2019, three months after the end of the latest experience year used in the review. In order to account for development of losses beyond fifteen months and to reflect overall loss development patterns, loss development was incorporated into the adjustment process of incurred losses to their ultimate settlement value.

LOSS DEVELOPMENT PROCEDURES

The application of loss development factors recognizes the fact that not all of the Commercial Property losses for a particular accident year have been finally determined at the time the experience is compiled.

The incurred losses underlying the statewide loss cost level indications were evaluated as of December 31, 2019.

Accident year ended September 30, 2019 includes all losses paid on accidents from 10/1/2018 to September 30, 2019 and all losses outstanding on those accidents as of December 31, 2019, fifteen months after the inception of the accident year. Similarly, accident years ended September 30, 2018, 2017, 2016 and 2015 include all losses paid and outstanding as of 27, 39, 51 and 63 months, respectively, after the inception of the accident year.

Thus, the immature experience reported as of 15, 27, 39 or 51 months must be adjusted to an ultimate settlement basis. This adjustment is accomplished through the use of loss development factors based on the historic multistate Basic Group I, Basic Group II, and Special Causes of Loss incurred losses as shown in Exhibit C17.

EXPLANATORY NOTES TO EXHIBIT C17

LOSS DEVELOPMENT

INTRODUCTION

Exhibit C17 shows multistate incurred loss development exhibits for Basic Group I, Basic Group II and Special Causes of Loss. The exhibits on Exhibit C17 are arranged identically for each subline and can be summarized as listing the following information: incurred losses by accident year and age, age-to-age factors by accident year, and age-to-ultimate factors.

INCURRED LOSSES

The multistate incurred losses are shown by accident year and age at the top of Exhibit C17. The multistate incurred losses are evaluated as of 15, 27, 39, 51 and 63 months. For Basic Group II, losses due to hurricanes reflected in the modeled hurricane loss costs have been removed from the experience for each rating territory and loss month.

AGE-TO-AGE DEVELOPMENT FACTORS

Age-to-age development factors or link ratios are calculated for each accident year. These age-to-age factors are calculated by dividing the incurred losses evaluated at each age by the incurred losses evaluated at the immediately preceding age. For example, 27:15 month age-to-age factors are calculated by taking the losses evaluated as of 27 months and dividing them by the losses evaluated as of 15 months, for each accident year. Age-to-age development factors are also calculated for 39:27 months, 51:39 months and 63:51 months. Latest five-year averages are then determined for each age-to-age interval.

AGE-TO-ULTIMATE DEVELOPMENT FACTORS

Age-to-ultimate factors are then calculated for the latest four years by multiplying the five-year average age-to-age development factors. These age-to-ultimate factors are then used in the adjustment of incurred losses to develop losses to their ultimate settlement value.

EXCESS LOSS PROCEDURES

INTRODUCTION

If not addressed, the presence or absence of large losses during the review period can produce significant fluctuations in loss cost levels. In order to develop a more stable body of experience, large losses have been smoothed. This procedure removes any excess losses from the experience and applies excess loss factors to the resultant state normal losses to generate the adjusted incurred losses. The adjusted losses developed in this manner replace the incurred losses in the loss cost level evaluation.

BASIC GROUP I

First, the excess portion of each large loss is removed from the trended loss experience.

Individual claim amounts that result from the same occurrence are grouped together, and if the total loss for one occurrence exceeds the normal loss cutoff (at 2005 cost levels), the total loss is identified as a large loss. Each large loss is then split into its normal and excess portions based on the normal loss cutoff.

The Basic Group I normal loss cutoff begins at \$250,000 and varies with the size of loss up to a maximum normal amount (approached asymptotically) of \$1,250,000. (The formula and a graph are shown on Exhibit C18.) The portion of each large loss exceeding the cutoff is considered excess and the portion of any loss up to the cutoff is considered normal.

As noted above, the excess loss procedure is performed on trended loss experience (i.e. loss experience adjusted to prospective cost levels by the current cost factors, loss projection factors, and loss trend adjustment factors (for claim cost only) shown in Exhibits C10 through C11). The loss trend adjustment for frequency trend is not reflected at this step in the process. The normal breakpoint of \$250,000 for BGI and the parameters in the normal loss formula are at 2005 cost levels and therefore have been similarly adjusted to prospective cost levels.

Both the normal and total incurred losses are aggregated over all states by construction, protection, and amount of insurance intervals. The most recent ten years of experience are used in this analysis. Excess loss factors by construction, protection and amount of insurance are then calculated as the ratios of the ten year multistate incurred losses to the ten-year multistate normal losses.

These factors are then smoothed by fitting curves (by amount of insurance intervals) to the indicated factors. The resulting factors are then balanced so the original ten-year multistate incurred loss level is maintained.

EXCESS LOSS PROCEDURES (cont'd)

BASIC GROUP I (cont'd)

The excess factors are then applied to the state normal losses, which are maintained in the same detail (construction, protection and amount of insurance) as well as by year, territory, rating group and TOP. The state normal losses used in this calculation have also been trended for frequency.

The excess loss factors vary by construction, protection and the amount of insurance because these are the most significant severity-related rating variables.

BASIC GROUP II

Since catastrophic wind losses affect both the frequency and severity of loss, the Basic Group II excess procedure identifies periods of overall adverse experience, rather than individual large losses. Also, due to the extreme volatility of windstorm losses, a long-term review period (1950 - present) is used to estimate the expected excess losses.

Loss ratio cutoffs are used to determine normal losses, state excess losses, and regional excess losses for each year in the long-term review period. The application of these cutoffs is detailed in the explanatory notes to Exhibit C20. The state excess losses are used to determine the state excess component of the state excess multiplier, and the regional excess losses are used to determine the regional excess component. (Table 31B is a list of states by region.) The state excess multiplier is derived in such a manner as to provide an estimate of the expected excess loss dollars per normal loss dollar.

The state excess multiplier is applied to each accident year in the ten-year experience period used in the review. In this way, a review database is created reflecting both the current normal loss experience and the average excess loss experience based on the long-term review. This allows a concurrent evaluation of both the normal and the excess components of the BG II loss cost level.

SPECIAL CAUSES OF LOSS

Similar to Basic Group II, the Special Causes of Loss (SCL) smoothing procedure uses a loss ratio approach to reflect both the frequency and severity of unusual loss events which may produce significant fluctuations in loss cost levels. The excess procedure uses longer term statewide SCL experience (1985 - present) to account for the volatile nature of weather related losses (water damage from bursting pipes, or the weight of ice, sleet, or snow) which are the predominant cause of large SCL losses in a given experience period. A monthly normal loss ratio cutoff of 2.0 is used to define normal and excess losses. The resulting ratio of excess to normal losses over the long-term experience period is then applied to the normal losses used in the loss cost level review. SCL has a lower loss ratio cutoff than that used in Basic Group II in order to reflect the less catastrophic nature of unusual SCL loss events. The calculations underlying the smoothing procedure are described in the Explanatory Notes to Exhibit C21.

EXPLANATORY NOTES TO EXHIBIT C18

COUNTRYWIDE BASIC GROUP I EXCESS LOSS FACTORS

EXCESS LOSS
FACTORS

The multistate excess loss factors are the ratios of the ten-year multistate adjusted incurred losses to the ten-year multistate adjusted normal losses (both adjusted for severity trend). They are determined separately by construction, protection and amount of insurance range. Due to credibility considerations, both constructions and protections have been consolidated as shown. The amount of insurance ranges are also shown.

EXPLANATORY NOTES TO EXHIBIT C19

BASIC GROUP I ADDITIONAL EXCESS LOSS INFORMATION

COLUMN (1) TRENDED INCURRED LOSSES

The trended incurred losses are the aggregate of all individually-trended loss records prior to any adjustment for large losses. They are shown here fully trended for severity.

COLUMN (2) TRENDED NORMAL LOSSES

The normal losses are the aggregate of the normal portions of each loss occurrence. These are also fully trended.

COLUMN (3) STATE NORMAL PERCENTAGE

The state normal percentages are the statewide normal losses divided by the statewide trended incurred losses. These percentages can be used in conjunction with the multistate percentages and actual dollar amounts of normal losses to assess the state loss experience. For example, consistently lower state normal percentages relative to multistate normal percentages could indicate that the state has a greater propensity for large losses.

COLUMN (4) MULTISTATE NORMAL PERCENTAGES

The multistate normal percentages are the multistate normal losses divided by the multistate trended incurred losses. As noted above these can be used as a yardstick against which the statewide experience can be measured.

COLUMN (5) ADJUSTED INCURRED LOSSES

The adjusted incurred losses are the totals across all constructions, protections and exposures of the fully trended normal losses multiplied by the excess loss factors.

COLUMN (6) STATE AVERAGE EXCESS FACTOR

The state average excess factors are the adjusted incurred losses in column (5) divided by the normal losses in column (2). These factors represent the annual averages of the factors calculated separately by construction, protection and amount of insurance. The average excess factor reflects the normal loss mix by construction, protection and exposure. Heavy concentration in those subsets of the data with high excess factors will result in large average factors.

EXPLANATORY NOTES TO EXHIBIT C20

COLUMN (1)

EARNED PREMIUMS

The unadjusted earned premiums are shown for each year.

COLUMN (2)

INCURRED LOSSES

The unadjusted incurred losses are shown for each year.

COLUMN (3)

NORMAL INCURRED LOSSES

Normal losses which are shown for each year are defined as follows:

- for losses reported under CSP (for which month of loss detail is available), that portion of each month's losses which does not exceed 2.5 times that month's earned premiums.
- for losses reported under CRSP, SCOH and SMP (for which month of loss detail is not available), that part of each year's losses which does not exceed 0.733 times that year's earned premiums.

COLUMN (4)

NORMAL LOSS RATIO

For each year in the excess review period, the normal loss ratio is calculated as the ratio of the normal losses (for CSP data the sum of each month's normal losses) to the earned premiums for the same year.

COLUMN (5)

STATE EXCESS LOSS RATIO

The state excess loss ratio is the ratio of the state excess losses to the unadjusted earned premium. The state excess losses are determined by the following formulas:

$$\cdot \quad EP \times \frac{20(LR-2.5)}{(LR-2.5)+20} \text{ if } LR > 2.5; \text{ otherwise } 0$$

for CSP, where EP = the monthly earned premiums, LR = the monthly loss ratio and the yearly state excess losses are the sum of the monthly state excess losses.

$$\cdot \quad EP \times \frac{2.2(LR-0.733)}{(LR-0.733)+2.2} \text{ if } LR > 0.733; \text{ otherwise } 0$$

for CRSP, SCOH, SMP, where EP = the earned premiums and LR = the yearly loss ratio.

EXPLANATORY NOTES TO EXHIBIT C20 (cont'd)

COLUMN (6)

REGIONAL EXCESS LOSS RATIO

If $LR > NLR$, then the regional excess loss ratio is:

regional excess loss ratio = $LR - SELR - NLR$

where $SELR$ = the state excess loss ratio,
 NLR = the normal loss ratio, and
 LR = the loss ratio

LINE (7)

STATE EXCESS COMPONENT

The state excess component is determined by dividing the sum of all state excess loss ratios by the sum of all normal loss ratios (where the sum is taken across all accident years).

LINE (8)

REGIONAL EXCESS COMPONENT

The regional excess component is determined by dividing the weighted average (determined, in each case, against the latest year unadjusted premium distribution) of the sum of regional excess loss ratios of all the states in the region by the weighted average of the sum of all loss ratio points retained by a state (normal and state excess loss ratios) of all the states in the region. See Table 31B for the appropriate BG II region for the state.

LINE (9)

STATE EXCESS MULTIPLIER

The state excess multiplier is derived by taking the product of the state excess component and the regional excess component.

TABLE 31B

BASIC GROUP II REGIONS

NORTHEAST REGION

CONNECTICUT
DELAWARE
DIST OF COLUMBIA
MAINE
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW JERSEY
NEW YORK
PENNSYLVANIA
RHODE ISLAND
VERMONT
VIRGINIA

PLAINS REGION

ARKANSAS
COLORADO
IOWA
KANSAS
MINNESOTA
MISSOURI
MONTANA
NEBRASKA
NORTH DAKOTA
OKLAHOMA
SOUTH DAKOTA
WYOMING

SOUTHEAST REGION

ALABAMA
FLORIDA
GEORGIA
LOUISIANA
MISSISSIPPI
NORTH CAROLINA
SOUTH CAROLINA
HAWAII

MIDWEST REGION

ILLINOIS
INDIANA
KENTUCKY
MICHIGAN
OHIO
TENNESSEE
WEST VIRGINIA
WISCONSIN

WEST REGION

ARIZONA
CALIFORNIA
IDAHO
NEVADA
NEW MEXICO
OREGON
UTAH
WASHINGTON
ALASKA

EXPLANATORY NOTES TO EXHIBIT C21

SPECIAL CAUSES OF LOSS ADDITIONAL EXCESS LOSS FACTOR

COLUMN (1) EARNED PREMIUMS

These are the unadjusted earned premiums for each year.

COLUMN (2) INCURRED LOSSES

These are the unadjusted incurred losses for each year.

COLUMN (3) NORMAL INCURRED LOSSES

The normal incurred losses are shown for each year. The normal incurred losses are defined to be that portion of each month's losses which does not exceed 2.0 times the monthly earned premiums.

COLUMN (4) NORMAL LOSS RATIO

The normal loss ratio for each year is the ratio of the normal incurred losses for each year divided by the earned premiums for the year.

Column (4) = Column (3) ÷ Column (1)

COLUMN (5) EXCESS LOSS RATIO

The excess loss ratio for each year is the ratio of the excess losses to the earned premium for the year. The excess losses are calculated as the incurred losses minus the normal incurred losses for each year.

LINE (6) EXCESS COMPONENT

The excess component is determined by dividing the sum of the excess loss ratios by the sum of the normal loss ratios, where the sums are taken across all years in the excess review period.

LINE (7) EXCESS MULTIPLIER

The excess multiplier is derived by adding unity to the excess component.

OVERVIEW

APPLICATION OF CREDIBILITY

INTRODUCTION

Credibility, Z , is a weight given to the most recent body of data. The complement of credibility, $1-Z$, is the weight assigned to net trend. The final estimate is a weighted average obtained by using the formula $C = Z \times R + (1-Z) \times N$, where:

Z = credibility

C = final estimate

R = estimate based on the most recent data

N = net trend

Credibility may range from 0 to 1, where $Z=1$ is full credibility and $Z=0$ is no credibility. The actual numerical value of Z is calculated by considering how the state's volume of experience compares with an established full credibility standard. Credibility is capped at 25% if the credibility calculated is below 25%. See Exhibits C22, C23, and C24 for a complete explanation of the credibility standards for Basic Group I, Basic Group II, and Special Causes of Loss.

EXPLANATORY NOTES TO EXHIBITS C22, C23 AND C24

BASIC GROUP I, BASIC GROUP II, AND SPECIAL CAUSES OF LOSS
STATEWIDE CREDIBILITY CALCULATION

LINE (1a)
(BGI only)

Full Credibility Claims Standard of Frequency

Based on a Poisson distribution, the minimum sample size of claims is determined such that the probability that the actual number of claims will be within 5% of the expected number of claims is greater than 95%.

LINE (1b)
(BGI only)

Severity Modification Factor

This factor, defined as $(1 + S^2 / M^2)$, is used to modify the claims standard to reflect variance due to severity, where S is the standard deviation and M is the mean of the loss severity distribution (on a normal loss basis).

LINE (1c) - BGI
LINE (1) - BGII, SCL

Full Credibility Claims Standard

For Basic Group I, this standard is the product of the frequency standard in line (1a) and the severity modification factor in line (1b). For Basic Group II and Special Causes of Loss, standards for full credibility of 30,000 claims for BGII and 25,000 claims for SCL were selected to balance stability and responsiveness.

LINE (2)

Multistate Experience Period Ratio of Earned Risks to Claims

This ratio was determined based on Commercial Statistical Plan data for the latest experience period (Five years for Basic Group I and Special Causes of Loss; Ten years for Basic Group II).

LINE (3)

Full Credibility Earned Risks Standard

To translate the claims standard to an equivalent standard based on earned risks, the claims standard (line (1c) for BGI, (1) for BGII and SCL) is multiplied by the multistate experience period ratio of earned risks to claims (line (2)).

LINE (4)

Experience Period Statewide Earned Risks

This is the number of earned risks in the state for the experience period.

EXPLANATORY NOTES TO EXHIBITS C22, C23 AND C24 (cont'd)

LINE (5) Experience Period Aggregate Loss Costs

These are the state's experience period adjusted aggregate loss costs.

LINE (6) Statewide Experience Period Ratio of Aggregate Loss Costs to Earned Risks

This ratio is determined by dividing the state's experience period adjusted aggregate loss costs by its experience period earned risks.

LINE (7) Full Credibility Aggregate Loss Costs Standard

To translate the risk standard into an aggregate loss cost standard on a state by state basis, the ratio (line (6)) is multiplied by the full credibility earned risks standard (line (3)).

LINE (8) Credibility

The state's credibility is calculated by using the square root credibility formula:

$$Z = \sqrt{\frac{P}{C}}$$

where Z = credibility,
 P = statewide five-year adjusted aggregate loss costs (line (5)), and
 C = full credibility aggregate loss costs standard (line (7)).

When the indicated credibility is below 25%, a minimum cap of 25% is assigned to the state credibility in order to reasonably reflect the state's experience in the coverage change calculation.

OVERVIEW

LOSS ADJUSTMENT EXPENSE FACTORS

OBJECTIVE	The reported indemnity losses must be loaded for any loss adjustment expenses (LAE) that are not reported in statistical detail to ISO.
PROPERTY COVERAGES	For the property coverages, only the incurred indemnity losses are reported to ISO under the Commercial Statistical Plan. All loss adjustment expenses must be loaded in. A factor representing the ratio of incurred losses plus all LAE to incurred losses was selected based on multistate financial data (see Exhibit D6 for the underlying data).
EXPERIENCE INCLUDED	Fire and Allied Lines incurred loss and loss adjustment expense experience for 2014-2018 is displayed on Exhibit D6. The experience is based on Insurance Expense Exhibit information compiled by A.M. Best. For Allied Lines, the loss adjustment expense ratios [Exhibit D6, line (3)(b)] for a few years are distorted by unusual catastrophe-related losses and loss adjustment expenses. The selected Allied Lines loss adjustment expense factor used for this review was selected after consideration of this distortion and based on a review of average loss adjustment expense ratios over a longer time period.
SELECTED FACTORS	The following factors have been used in this review to load incurred losses for all loss adjustment expenses:

Basic Group I	1.095
Basic Group II	1.115
Special Causes of Loss	1.115

INDIANA

SUMMARY OF MONOLINE PROSPECTIVE LOSS COST CHANGES (A)

COVERAGE	INDICATIONS	AGGREGATE LOSS COSTS AT CURRENT LEVEL
BASIC GROUP I	-1.2%	36,064,280
TERRITORY 01	-2.6%	
TERRITORY 08	-0.9%	
BASIC GROUP II	+3.3%	31,076,224
SPECIAL CAUSES OF LOSS	+4.7%	18,502,556
ALL COVERAGES COMBINED	+1.7%	85,643,060
TERRITORY DEFINITIONS		
Territory 1	Indianapolis	
Territory 8	Balance of State	

(A) FOR TREND PURPOSES, THE PERIOD OF USE FOR THIS REVISION IS ASSUMED TO BEGIN ON 04/01/2021.

INDIANA

BASIC GROUP I PROSPECTIVE LOSS COST CHANGES
BY RATING GROUP AND TERRITORY (A)

RATING GROUP	DESCRIPTION	Indianapolis	Balance of State
01	APARTMENTS	-8.8%	-7.5%
02	OTHER HABITATIONAL	-6.2%	-4.9%
03	RESTAURANTS & BARS	0.4%	1.8%
04	OTHER MERCANTILE RISKS	7.5%	9.1%
05	PUBLIC BUILDINGS	-2.0%	-0.6%
06	CHURCHES	-3.3%	-1.9%
07	SCHOOLS	-4.4%	-3.0%
08	OFFICES AND BANKS	-11.7%	-10.4%
09	RECREATIONAL FACILITIES	-4.0%	-2.6%
10	HOTELS & MOTELS	-3.7%	-2.3%
11	HOSPITALS & NURSING HOMES	-2.8%	-1.4%
12	BLDGS UNDER CONSTRUCTION	-1.3%	0.1%
13	MOTOR VEHICLE RISKS	-0.1%	1.3%
14	OTHER NON-MANUFACTURING	-1.3%	0.1%
15	STORAGE	-0.3%	1.1%
17	FOOD MANUFACTURING	-1.7%	-0.3%
18	WOOD MANUFACTURING	-5.3%	-4.0%
19	WEARING APPAREL	-2.7%	-1.3%
20	CHEMICAL MANUFACTURING	-3.1%	-1.7%
21	METAL MANUFACTURING	1.4%	2.8%
22	OTHER MANUFACTURING	-5.9%	-4.6%
	TOTAL	-2.6%	-0.9%

(A) FOR EACH RATING GROUP, THE LOSS COST CHANGE FOR EACH CSP CLASS IN THE RATING GROUP, BY COVERAGE AND CONSTRUCTION, IS IDENTICAL TO THE OVERALL CHANGE SHOWN FOR THE RATING GROUP.

INDIANA

BASIC GROUP II PROSPECTIVE LOSS COST CHANGES
BY TERRITORY, COVERAGE, AND SYMBOL

TERRITORY

COVERAGE SYMBOL

EXHIBIT A3 DOES NOT EXIST FOR NON-HURRICANE STATES

INDIANA

SPECIAL CAUSES OF LOSS PROSPECTIVE LOSS COST CHANGES BY CATEGORY

CATEGORY	DESCRIPTION	ENTIRE STATE
01	BUILDINGS	+0.1%
02	RES. APTS. AND CONDOS	+5.4%
03	OFFICES	+5.1%
04	MERCANTILE - HIGH	+6.3%
05	MERCANTILE - MEDIUM	+4.7%
06	MERCANTILE - LOW	+5.9%
07	MOTELS AND HOTELS	+6.3%
08	INSTITUTIONAL - HIGH	+19.2%
09	INSTITUTIONAL - LOW	+5.4%
10	INDUST-PROC - HIGH	+7.9%
11	INDUST-PROC - LOW	+12.0%
12	SERVICE - HIGH	+6.3%
13	SERVICE - LOW	+3.7%
14	CONTRACTORS	+7.1%
	STATEWIDE TOTAL	+4.7%

INDIANA

POTENTIAL IMPACT OF BG I, BG II, AND SCL MONOLINE REVISIONS
ON COMMERCIAL PACKAGE POLICY

	(1)	(2)	(3)	(4)
TYPE OF POLICY	BASIC GROUP I	BASIC GROUP II	SPECIAL CAUSES OF LOSS	
-----	-----	-----	-----	-----
31 MOTEL/HOTEL	-2.4%	3.3%	0.9%	
32 APARTMENT	-7.0%	3.3%	1.1%	
33 OFFICE	-10.7%	3.3%	1.8%	
34 MERCANTILE	5.2%	3.3%	1.9%	
35 INSTITUTIONAL	-2.6%	3.3%	10.0%	
36 SERVICES	-1.5%	3.3%	2.2%	
37 INDUST/PROCESSING	0.4%	3.3%	4.9%	
38 CONTRACTORS	1.9%	3.3%	3.6%	

BASIC GROUP I, BASIC GROUP II, AND SPECIAL CAUSES OF LOSS MONOLINE CHANGES BY TYPE OF POLICY (TOP) ARE DISPLAYED. THEY ARE CALCULATED BY TAKING A WEIGHTED AVERAGE OF THE LOSS COST CHANGES BY TERRITORY (WHERE APPLICABLE) AND RATING GROUP (FOR BG I), OR BY CATEGORY (FOR SCL), USING THE LATEST YEAR MULTILINE AGGREGATE LOSS COSTS AS WEIGHTS. BASIC GROUP II MONOLINE CHANGES DO NOT VARY BY TOP BECAUSE THE SAME MONOLINE LOSS COST CHANGE IS APPLIED STATEWIDE.

INDIANA
STATEWIDE BASIC GROUP I
COVERAGE LOSS COST LEVEL EVALUATION

(1) YEAR	(2) AGGREGATE* LOSS COSTS	(3) ADJUSTED** INCURRED LOSSES	(4) EXPERIENCE RATIO (3)/(2)	(5) WEIGHTS
2015	43,250,518	40,284,655	0.931	0.10
2016	39,411,463	49,706,077	1.261	0.15
2017	38,062,991	38,556,097	1.013	0.20
2018	36,987,919	40,095,442	1.084	0.25
2019	36,064,280	30,904,508	0.857	0.30
(6) WEIGHTED EXPERIENCE RATIO				= 1.013
(7) CREDIBILITY				= 0.401
(8) EXPECTED EXPERIENCE RATIO				= 1.009
(9) CREDIBILITY WEIGHTED EXPERIENCE RATIO (0.401 X 1.013) + (0.599 X 1.009)				= 1.011
(10) INDICATED COVERAGE LOSS COST CHANGE				= 1.011
				OR 1.1%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2021 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2022 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

INDIANA
STATEWIDE BASIC GROUP II
COVERAGE LOSS COST LEVEL EVALUATION

(1) YEAR	(2) AGGREGATE* LOSS COSTS	(3) ADJUSTED** INCURRED LOSSES	(4) EXPERIENCE RATIO (3)/(2)	WEIGHTS
2010	36,492,200	14,483,642	0.397	0.10
2011	33,745,133	37,302,734	1.105	0.10
2012	33,684,094	49,195,102	1.460	0.10
2013	32,453,983	28,030,875	0.864	0.10
2014	32,341,941	31,350,977	0.969	0.10
2015	32,106,200	17,618,109	0.549	0.10
2016	30,132,289	39,299,622	1.304	0.10
2017	30,398,641	36,893,122	1.214	0.10
2018	31,678,710	26,018,430	0.821	0.10
2019	31,076,224	40,980,221	1.319	0.10
(5) WEIGHTED EXPERIENCE RATIO				= 1.000
(6) CREDIBILITY				= 0.596
(7) EXPECTED EXPERIENCE RATIO				= 1.010
(8) CREDIBILITY WEIGHTED EXPERIENCE RATIO (0.596 X 1.000) + (0.404 X 1.010)				= 1.004
(9) INDICATED COVERAGE LOSS COST CHANGE				= 1.004
				OR 0.4%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2021 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2022 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

INDIANA

STATEWIDE SPECIAL CAUSES OF LOSS
 COVERAGE LOSS COST LEVEL EVALUATION

(1) YEAR	(2) AGGREGATE* LOSS COSTS	(3) ADJUSTED** INCURRED LOSSES	(4) EXPERIENCE RATIO (3)/(2)	(5) WEIGHTS
2015	20,102,587	18,448,078	0.918	0.10
2016	18,746,189	13,531,975	0.722	0.15
2017	18,838,102	12,177,444	0.646	0.20
2018	19,053,402	23,098,979	1.212	0.25
2019	18,502,556	27,137,604	1.467	0.30
(6) WEIGHTED EXPERIENCE RATIO				= 1.072
(7) CREDIBILITY				= 0.385
(8) EXPECTED EXPERIENCE RATIO				= 1.007
(9) CREDIBILITY WEIGHTED EXPERIENCE RATIO (0.385 X 1.072) + (0.615 X 1.007)				= 1.032
(10) INDICATED COVERAGE LOSS COST CHANGE				= 1.032
				OR 3.2%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2021 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2022 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS

TOP	(1) \$ LST SQ FORMULA RELATIVITY	(2) CREDIBILITY Z	(3) CREDIBILITY WEIGHTED RELATIVITY	(4) BALANCED RELATIVITY	STATEWIDE COVERAGE LOSS COST CHANGE OF OR	1.011 1.1%
-----	-----	-----	-----	-----	-----	
10	0.815	0.164	0.967	0.977		
31	1.359	0.024	1.007	1.017		
32	1.410	0.200	1.071	1.082		
33	1.335	0.095	1.028	1.038		
34	0.855	0.259	0.960	0.970		
35	1.052	0.269	1.014	1.024		
36	0.938	0.192	0.988	0.998		
37	0.787	0.258	0.940	0.949		
38	1.283	0.057	1.014	1.024		

RATING GROUP	(1)	(2)	(3)	(4)	(5) INDICATED MONOLINE LOSS COST LEVEL CHANGE
01	0.815	0.321	0.936	0.935	-7.7%
02	0.806	0.178	0.962	0.961	-5.1%
03	1.215	0.153	1.030	1.029	1.6%
04	1.247	0.446	1.103	1.102	8.8%
05	1.041	0.129	1.005	1.004	-0.7%
06	0.968	0.218	0.993	0.991	-2.1%
07	0.935	0.279	0.981	0.980	-3.0%
08	0.762	0.360	0.907	0.905	-10.7%
09	0.925	0.190	0.985	0.984	-2.8%
10	0.823	0.059	0.989	0.987	-2.4%
11	0.946	0.043	0.998	0.996	-1.6%
13	1.177	0.152	1.025	1.024	1.1%
14	1.063	0.195	1.012	1.011	-0.1%
15	1.158	0.161	1.024	1.022	0.9%
17	1.176	0.054	1.009	1.007	-0.4%
18	0.686	0.077	0.971	0.970	-4.1%
19	0.914	0.020	0.998	0.997	-1.4%
20	0.844	0.030	0.995	0.993	-1.9%
21	1.133	0.317	1.040	1.039	2.7%
22	0.794	0.153	0.965	0.964	-4.7%

STATEWIDE MONOLINE LOSS COST LEVEL CHANGE: -1.2%

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS

EXAMPLE OF AN INDIVIDUAL LOSS COST CHANGE CALCULATION
FOR Indianapolis

STATEWIDE COVERAGE LOSS COST LEVEL CHANGE	=	1.011
TERRITORIAL RELATIVITY	=	0.988
MONOLINE (TOP 10) RELATIVITY	=	0.977
RATING GROUP 01 RELATIVITY	=	0.935
INDICATED MONOLINE LOSS COSTS LEVEL CHANGE FOR RATING GROUP 01		
= 1.011 X 0.988 X 0.977 X 0.935	=	0.912
	OR	-8.8%

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS

TERRITORY	(1)	(2)	(3)	(4)	(5)
	\$ LST SQ FORMULA RELATIVITY	CREDIBILITY Z	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED MONOLINE LOSS COST LEVEL CHANGE
-----	-----	-----	-----	-----	-----
Indianapolis	0.967	0.32	0.989	0.988	-2.6%
Balance of State	1.005	0.753	1.004	1.002	-0.9%

TERRITORY	(1)	(2)	(3)	(4)
	TERRITORY RELATIVITY	OFF- BALANCE FACTOR	CURRENT TERRITORIAL MULTIPLIER	REVISED TERRITORIAL MULTIPLIER
-----	-----	-----	-----	-----
Indianapolis	0.988	1.000	1.819	1.794
Balance of State	1.002	1.000	1.000	1.000

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

TOP	(1) \$ LST SQ FORMULA RELATIVITY	(2) CREDIBILITY Z	(3) CREDIBILITY WEIGHTED RELATIVITY	(4) BALANCED RELATIVITY	STATEWIDE COVERAGE LOSS COST CHANGE OF OR	1.032 3.2%
10	1.153	0.136	1.020	1.015		
31	1.136	0.020	1.003	0.998		
32	1.073	0.182	1.013	1.009		
33	1.144	0.125	1.017	1.013		
34	1.165	0.315	1.049	1.045		
35	1.081	0.420	1.033	1.029		
36	0.727	0.226	0.930	0.927		
37	0.546	0.187	0.893	0.889		
38	0.810	0.116	0.976	0.972		
CATEGORY					(5) INDICATED MONOLINE LOSS COST LEVEL CHANGE	
01	0.926	0.784	0.942	0.956	0.1%	
02	0.921	0.114	0.991	1.006	5.4%	
03	0.920	0.140	0.988	1.003	5.1%	
04	0.999	0.175	1.000	1.015	6.3%	
05	0.885	0.126	0.985	1.000	4.7%	
06	0.952	0.089	0.996	1.011	5.9%	
07	1.001	0.009	1.000	1.015	6.3%	
08	1.270	0.478	1.121	1.138	19.2%	
09	0.957	0.211	0.991	1.006	5.4%	
10	1.488	0.036	1.014	1.030	7.9%	
11	1.292	0.203	1.053	1.069	12.0%	
12	0.999	0.160	1.000	1.015	6.3%	
13	0.802	0.116	0.975	0.990	3.7%	
14	1.044	0.149	1.006	1.022	7.1%	
OVERALL MONOLINE LOSS COST LEVEL CHANGE					4.7%	

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

EXAMPLE OF AN INDIVIDUAL LOSS COST CHANGE CALCULATION

STATEWIDE COVERAGE LOSS COST LEVEL CHANGE = 1.032

MONOLINE (TOP 10) RELATIVITY = 1.015

CATEGORY 01 RELATIVITY = 0.956

INDICATED MONOLINE LOSS COST LEVEL CHANGE FOR CATEGORY 01

= 1.001

OR 0.1%

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
INDIANAPOLIS						
10 MONOLINE	01 APARTMENTS	67,755	210,545	0.029	0.320	0.311
	02 OTHER HABITATIONAL	77,806	329,697	0.514	0.420	0.408
	03 RESTAURANTS & BARS	37,123	78,158	0.162	0.352	0.342
	04 OTHER MERCANTILE RS	173,081	817,081	0.283	0.359	0.349
	05 PUBLIC BUILDINGS	194	999	0.000	0.331	0.321
	06 CHURCHES	2,075	26,799	0.124	0.349	0.339
	07 SCHOOLS	3,240	24,163	0.000	0.329	0.319
	08 OFFICES AND BANKS	98,503	500,097	0.269	0.361	0.350
	09 REC. FACILITIES	43,509	234,863	2.518	0.828	0.804
	10 HOTELS AND MOTELS	4,505	13,723	0.000	0.329	0.319
	11 HOSPITALS/NURS HOME	506	9,102	0.000	0.330	0.320
	13 MOTOR VEHICLE RISKS	17,006	84,842	0.000	0.324	0.315
	14 OTHER NON-MANUF.	26,285	164,468	0.059	0.329	0.319
	15 STORAGE	49,059	249,763	0.004	0.312	0.303
	17 FOOD MANUFACTURING	146	1,001	0.000	0.331	0.321
	18 WOOD MANUFACTURING	3,362	29,786	0.000	0.328	0.318
	19 WEARING APPAREL	4	26	0.000	0.331	0.321
	21 METAL MANUFACTURING	36,053	160,935	0.032	0.324	0.315
	22 OTHER MANUFACTURING	6,027	30,665	0.000	0.328	0.318
	TOTAL	646,239	2,966,713	0.365	0.385	0.374
31 MULTILINE	10 HOTELS AND MOTELS	29,021	180,947	0.000	0.590	0.573
MOTEL/HOTEL	TOTAL	29,021	180,947	0.000	0.590	0.573

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
32 MULTILINE	01 APARTMENTS	632,032	3,391,544	2.140	2.042	1.983
APARTMENT	02 OTHER HABITATIONAL	<u>177,325</u>	<u>1,093,455</u>	<u>2.670</u>	<u>2.303</u>	<u>2.236</u>
	TOTAL	809,357	4,484,999	2.256	2.099	2.038
33 MULTILINE	08 OFFICES AND BANKS	<u>360,170</u>	<u>1,893,856</u>	<u>0.048</u>	<u>0.189</u>	<u>0.183</u>
OFFICE	TOTAL	360,170	1,893,856	0.048	0.189	0.183
34 MULTILINE	03 RESTAURANTS & BARS	154,666	888,871	0.031	0.287	0.279
MERCANTILE	04 OTHER MERCANTILE RS	665,844	3,572,195	0.611	0.645	0.626
	08 OFFICES AND BANKS	72,794	420,279	0.056	0.449	0.436
	13 MOTOR VEHICLE RISKS	58,171	176,343	0.002	0.595	0.578
	14 OTHER NON-MANUF.	12,585	85,059	0.000	0.708	0.687
	15 STORAGE	<u>77,527</u>	<u>465,634</u>	<u>0.007</u>	<u>0.398</u>	<u>0.386</u>
	TOTAL	1,041,587	5,608,381	0.400	0.558	0.541
35 MULTILINE	02 OTHER HABITATIONAL	3,530	33,765	0.000	0.793	0.770
INSTITUTIONAL	05 PUBLIC BUILDINGS	24,936	67,019	0.774	0.952	0.924
	06 CHURCHES	289,756	1,315,074	1.443	1.361	1.321
	07 SCHOOLS	80,002	379,987	0.622	0.793	0.770
	08 OFFICES AND BANKS	33,916	187,577	0.051	0.605	0.587
	09 REC. FACILITIES	18,055	109,648	0.229	0.751	0.729
	11 HOSPITALS/NURS HOME	44,555	170,086	0.000	0.601	0.583
	13 MOTOR VEHICLE RISKS	0	294	0.000	0.860	0.835
	14 OTHER NON-MANUF.	<u>4,719</u>	<u>20,611</u>	<u>2.070</u>	<u>1.231</u>	<u>1.195</u>
	TOTAL	499,469	2,284,061	1.007	1.103	1.071

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	8,302	71,563	0.000	0.577	0.560
	04 OTHER MERCANTILE RS	62,237	353,395	0.034	0.572	0.555
	08 OFFICES AND BANKS	182,594	1,017,640	0.037	0.551	0.535
	09 REC. FACILITIES	167,027	1,012,972	0.525	0.640	0.621
	13 MOTOR VEHICLE RISKS	132,633	802,051	0.748	0.680	0.660
	14 OTHER NON-MANUF.	65,244	410,415	0.301	0.610	0.592
	15 STORAGE	38,727	193,725	3.715	1.095	1.063
	21 METAL MANUFACTURING	8,621	88,005	1.712	0.807	0.783
	22 OTHER MANUFACTURING	<u>8,606</u>	<u>63,117</u>	<u>0.940</u>	<u>0.703</u>	<u>0.683</u>
	TOTAL	673,991	4,012,883	0.567	0.643	0.624
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	52,636	317,563	0.035	0.573	0.556
	08 OFFICES AND BANKS	12,938	111,085	0.000	0.575	0.558
	13 MOTOR VEHICLE RISKS	2,464	11,171	0.000	0.579	0.562
	14 OTHER NON-MANUF.	18,118	115,539	0.963	0.707	0.686
	15 STORAGE	57,415	170,757	0.000	0.573	0.556
	17 FOOD MANUFACTURING	16,173	102,581	0.000	0.575	0.558
	18 WOOD MANUFACTURING	53,167	323,361	0.000	0.568	0.551
	19 WEARING APPAREL	10,003	82,635	0.000	0.576	0.559
	20 CHEM. MANUFACTURING	31,126	181,840	0.000	0.573	0.556
	21 METAL MANUFACTURING	230,987	1,119,102	2.487	1.007	0.978
	22 OTHER MANUFACTURING	<u>96,183</u>	<u>687,384</u>	<u>0.323</u>	<u>0.609</u>	<u>0.591</u>
	TOTAL	581,210	3,223,018	1.075	0.755	0.733

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
38 MULTILINE	04 OTHER MERCANTILE RS	144,213	720,223	0.087	0.569	0.552
CONTRACTORS	08 OFFICES AND BANKS	91,076	379,800	0.471	0.637	0.618
	14 OTHER NON-MANUF.	<u>5,742</u>	<u>80,073</u>	<u>0.014</u>	<u>0.578</u>	<u>0.561</u>
	TOTAL	241,031	1,180,096	0.230	0.595	0.577
TOTAL ALL TOPS*	01 APARTMENTS	699,787	3,602,089	1.936	1.875	1.821
	02 OTHER HABITATIONAL	258,661	1,456,917	1.985	1.716	1.666
	03 RESTAURANTS & BARS	200,091	1,038,592	0.054	0.311	0.302
	04 OTHER MERCANTILE RS	1,098,011	5,780,457	0.430	0.583	0.565
	05 PUBLIC BUILDINGS	25,130	68,018	0.768	0.948	0.920
	06 CHURCHES	291,831	1,341,873	1.434	1.354	1.314
	07 SCHOOLS	83,242	404,150	0.598	0.775	0.752
	08 OFFICES AND BANKS	851,991	4,510,334	0.116	0.379	0.368
	09 REC. FACILITIES	228,591	1,357,483	0.881	0.685	0.665
	10 HOTELS AND MOTELS	33,526	194,670	0.000	0.555	0.539
	11 HOSPITALS/NURS HOME	45,061	179,188	0.000	0.598	0.581
	13 MOTOR VEHICLE RISKS	210,274	1,074,701	0.472	0.627	0.608
	14 OTHER NON-MANUF.	132,693	876,165	0.365	0.598	0.580
	15 STORAGE	222,728	1,079,879	0.649	0.546	0.529
	17 FOOD MANUFACTURING	16,319	103,582	0.000	0.573	0.556
	18 WOOD MANUFACTURING	56,529	353,147	0.000	0.553	0.538
	19 WEARING APPAREL	10,007	82,661	0.000	0.576	0.559
	20 CHEM. MANUFACTURING	31,126	181,840	0.000	0.573	0.556
	21 METAL MANUFACTURING	275,661	1,368,042	2.142	0.911	0.885
	22 OTHER MANUFACTURING	<u>110,816</u>	<u>781,166</u>	<u>0.353</u>	<u>0.601</u>	<u>0.584</u>
	TOTAL	4,882,075	25,834,954	0.832	0.857	0.831

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
BALANCE OF STATE						
10 MONOLINE	01 APARTMENTS	271,021	1,018,570	0.080	0.542	0.526
	02 OTHER HABITATIONAL	176,021	943,276	1.883	1.233	1.197
	03 RESTAURANTS & BARS	72,562	296,049	0.041	0.649	0.630
	04 OTHER MERCANTILE RS	488,604	2,505,200	2.260	1.647	1.599
	05 PUBLIC BUILDINGS	432,155	1,732,300	0.925	0.881	0.855
	06 CHURCHES	54,896	123,669	5.058	1.635	1.587
	07 SCHOOLS	213,433	431,327	0.726	0.808	0.784
	08 OFFICES AND BANKS	358,798	1,565,080	0.311	0.590	0.573
	09 REC. FACILITIES	206,976	1,187,701	0.242	0.589	0.572
	10 HOTELS AND MOTELS	19,311	93,989	0.000	0.687	0.667
	11 HOSPITALS/NURS HOME	148,461	665,931	0.660	0.780	0.757
	13 MOTOR VEHICLE RISKS	108,396	695,722	0.129	0.604	0.586
	14 OTHER NON-MANUF.	257,710	2,076,431	0.315	0.561	0.545
	15 STORAGE	261,093	1,365,433	0.315	0.606	0.588
	17 FOOD MANUFACTURING	13,004	112,459	0.000	0.682	0.662
	18 WOOD MANUFACTURING	43,261	202,424	5.942	1.919	1.863
	19 WEARING APPAREL	7,942	44,244	0.000	0.700	0.680
	20 CHEM. MANUFACTURING	51,609	106,553	0.000	0.684	0.664
	21 METAL MANUFACTURING	292,312	1,277,000	0.213	0.568	0.551
	22 OTHER MANUFACTURING	40,979	257,228	0.231	0.700	0.680
	TOTAL	3,518,544	16,700,586	0.869	0.857	0.832
31 MULTILINE	10 HOTELS AND MOTELS	383,086	2,239,050	1.580	1.211	1.176
MOTEL/HOTEL	TOTAL	383,086	2,239,050	1.580	1.211	1.176
32 MULTILINE	01 APARTMENTS	2,504,484	14,310,719	1.402	1.191	1.156
APARTMENT	02 OTHER HABITATIONAL	1,080,760	6,152,557	1.440	1.192	1.157
	TOTAL	3,585,244	20,463,276	1.413	1.191	1.156

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
33 MULTILINE OFFICE	08 OFFICES AND BANKS	<u>1,563,819</u>	<u>8,549,448</u>	<u>1.163</u>	<u>1.143</u>	<u>1.110</u>
	TOTAL	1,563,819	8,549,448	1.163	1.143	1.110
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS	910,101	5,111,547	1.248	1.157	1.123
	04 OTHER MERCANTILE RS	3,261,037	17,382,687	1.279	1.168	1.134
	08 OFFICES AND BANKS	254,224	1,410,678	0.071	0.965	0.937
	13 MOTOR VEHICLE RISKS	305,400	1,432,522	0.319	1.005	0.976
	14 OTHER NON-MANUF.	127,453	669,101	1.734	1.234	1.198
	15 STORAGE	<u>664,080</u>	<u>3,282,773</u>	<u>0.900</u>	<u>1.098</u>	<u>1.066</u>
	TOTAL	5,522,295	29,289,308	1.130	1.141	1.108
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL	18,277	94,082	0.453	1.030	1.000
	05 PUBLIC BUILDINGS	814,965	4,131,327	1.451	1.192	1.157
	06 CHURCHES	1,708,990	9,704,079	0.886	1.091	1.059
	07 SCHOOLS	2,778,725	14,624,509	0.762	1.063	1.032
	08 OFFICES AND BANKS	289,998	1,570,691	0.122	0.973	0.945
	09 REC. FACILITIES	216,823	1,089,767	0.077	0.967	0.939
	11 HOSPITALS/NURS HOME	200,142	940,951	1.018	1.119	1.086
	13 MOTOR VEHICLE RISKS	15,257	83,260	31.279	5.905	5.733
	14 OTHER NON-MANUF.	<u>426,258</u>	<u>2,284,879</u>	<u>1.271</u>	<u>1.160</u>	<u>1.126</u>
	TOTAL	6,469,435	34,523,545	0.942	1.099	1.067
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	122,894	802,461	0.056	0.763	0.741
	04 OTHER MERCANTILE RS	320,487	1,735,156	0.381	0.781	0.758
	08 OFFICES AND BANKS	559,152	2,902,706	0.514	0.783	0.760
	09 REC. FACILITIES	1,042,822	5,764,963	0.929	0.956	0.928
	13 MOTOR VEHICLE RISKS	768,839	3,814,058	1.462	1.226	1.190
	14 OTHER NON-MANUF.	433,968	2,352,131	1.575	1.225	1.189
	15 STORAGE	303,335	1,797,102	2.097	1.381	1.341
	21 METAL MANUFACTURING	49,934	311,637	2.746	1.307	1.269
	22 OTHER MANUFACTURING	<u>49,834</u>	<u>311,536</u>	<u>0.107</u>	<u>0.834</u>	<u>0.810</u>
	TOTAL	3,651,265	19,791,750	1.088	1.035	1.005

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
37 MULTILINE	04 OTHER MERCANTILE RS	376,338	1,814,448	0.599	0.854	0.829
INDUST/PROCESS	08 OFFICES AND BANKS	101,317	499,725	0.275	0.845	0.820
	13 MOTOR VEHICLE RISKS	8,606	48,568	0.000	0.856	0.831
	14 OTHER NON-MANUF.	154,950	1,052,549	0.117	0.752	0.730
	15 STORAGE	33,243	133,970	0.031	0.847	0.822
	17 FOOD MANUFACTURING	331,162	2,056,570	1.016	1.002	0.973
	18 WOOD MANUFACTURING	500,610	2,759,288	0.016	0.573	0.556
	19 WEARING APPAREL	123,939	676,576	0.060	0.779	0.756
	20 CHEM. MANUFACTURING	124,445	944,465	0.013	0.736	0.715
	21 METAL MANUFACTURING	2,739,397	15,648,951	0.961	0.968	0.940
	22 OTHER MANUFACTURING	<u>1,051,908</u>	<u>5,898,655</u>	<u>0.455</u>	<u>0.676</u>	<u>0.656</u>
	TOTAL	5,545,915	31,533,765	0.674	0.853	0.828
38 MULTILINE	04 OTHER MERCANTILE RS	584,978	3,002,147	2.797	1.798	1.746
CONTRACTORS	08 OFFICES AND BANKS	292,759	1,474,918	0.988	0.991	0.962
	14 OTHER NON-MANUF.	<u>64,865</u>	<u>374,424</u>	<u>8.478</u>	<u>2.401</u>	<u>2.331</u>
	TOTAL	942,602	4,851,489	2.626	1.589	1.543
TOTAL ALL TOPS*	01 APARTMENTS	2,775,505	15,329,289	1.273	1.128	1.095
	02 OTHER HABITATIONAL	1,275,058	7,189,915	1.487	1.195	1.161
	03 RESTAURANTS & BARS	1,105,557	6,210,057	1.036	1.080	1.048
	04 OTHER MERCANTILE RS	5,031,444	26,439,638	1.443	1.240	1.204
	05 PUBLIC BUILDINGS	1,247,120	5,863,627	1.269	1.084	1.053
	06 CHURCHES	1,763,886	9,827,748	1.016	1.108	1.076
	07 SCHOOLS	2,992,158	15,055,836	0.759	1.044	1.014
	08 OFFICES AND BANKS	3,420,067	17,973,246	0.757	0.977	0.948
	09 REC. FACILITIES	1,466,621	8,042,431	0.706	0.906	0.879
	10 HOTELS AND MOTELS	402,397	2,333,039	1.504	1.186	1.151
	11 HOSPITALS/NURS HOME	348,603	1,606,882	0.866	0.975	0.946
	13 MOTOR VEHICLE RISKS	1,206,498	6,074,130	1.420	1.170	1.137
	14 OTHER NON-MANUF.	1,465,204	8,809,515	1.430	1.092	1.060
	15 STORAGE	1,261,751	6,579,278	1.044	1.058	1.027
	17 FOOD MANUFACTURING	344,166	2,169,029	0.978	0.990	0.961
	18 WOOD MANUFACTURING	543,871	2,961,712	0.487	0.681	0.660
	19 WEARING APPAREL	131,881	720,820	0.056	0.774	0.752
	20 CHEM. MANUFACTURING	176,054	1,051,018	0.009	0.720	0.700
	21 METAL MANUFACTURING	3,081,643	17,237,588	0.919	0.936	0.908
	22 OTHER MANUFACTURING	<u>1,142,721</u>	<u>6,467,419</u>	<u>0.432</u>	<u>0.683</u>	<u>0.664</u>
	TOTAL	31,182,205	167,942,217	1.061	1.057	1.026

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY

ENTIRE STATE						
10 MONOLINE	01 APARTMENTS	338,776	1,229,115	0.070	0.497	0.483
	02 OTHER HABITATIONAL	253,827	1,272,973	1.463	0.983	0.955
	03 RESTAURANTS & BARS	109,685	374,207	0.082	0.548	0.533
	04 OTHER MERCANTILE RS	661,685	3,322,281	1.743	1.310	1.272
	05 PUBLIC BUILDINGS	432,349	1,733,299	0.925	0.880	0.855
	06 CHURCHES	56,971	150,468	4.878	1.588	1.542
	07 SCHOOLS	216,673	455,490	0.715	0.800	0.778
	08 OFFICES AND BANKS	457,301	2,065,177	0.302	0.541	0.525
	09 REC. FACILITIES	250,485	1,422,564	0.637	0.630	0.612
	10 HOTELS AND MOTELS	23,816	107,712	0.000	0.620	0.601
	11 HOSPITALS/NURS HOME	148,967	675,033	0.658	0.779	0.756
	13 MOTOR VEHICLE RISKS	125,402	780,564	0.112	0.566	0.550
	14 OTHER NON-MANUF.	283,995	2,240,899	0.291	0.540	0.524
	15 STORAGE	310,152	1,615,196	0.266	0.559	0.543
	17 FOOD MANUFACTURING	13,150	113,460	0.000	0.679	0.658
	18 WOOD MANUFACTURING	46,623	232,210	5.514	1.805	1.752
	19 WEARING APPAREL	7,946	44,270	0.000	0.700	0.679
	20 CHEM. MANUFACTURING	51,609	106,553	0.000	0.684	0.664
	21 METAL MANUFACTURING	328,365	1,437,935	0.193	0.541	0.525
	22 OTHER MANUFACTURING	<u>47,006</u>	<u>287,893</u>	<u>0.201</u>	<u>0.652</u>	<u>0.633</u>
	TOTAL	4,164,783	19,667,299	0.791	0.784	0.761

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
31 MULTILINE MOTEL/HOTEL	10 HOTELS AND MOTELS TOTAL	<u>412,107</u> 412,107	<u>2,419,997</u> 2,419,997	<u>1.469</u> 1.469	<u>1.167</u> 1.167	<u>1.133</u> 1.133
32 MULTILINE APARTMENT	01 APARTMENTS 02 OTHER HABITATIONAL TOTAL	<u>3,136,516</u> <u>1,258,085</u> 4,394,601	<u>17,702,263</u> <u>7,246,012</u> 24,948,275	<u>1.551</u> <u>1.613</u> 1.569	<u>1.363</u> <u>1.348</u> 1.359	<u>1.323</u> <u>1.309</u> 1.319
33 MULTILINE OFFICE	08 OFFICES AND BANKS TOTAL	<u>1,923,989</u> 1,923,989	<u>10,443,304</u> 10,443,304	<u>0.954</u> 0.954	<u>0.964</u> 0.964	<u>0.936</u> 0.936
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS 04 OTHER MERCANTILE RS 08 OFFICES AND BANKS 13 MOTOR VEHICLE RISKS 14 OTHER NON-MANUF. 15 STORAGE TOTAL	<u>1,064,767</u> <u>3,926,881</u> 327,018 <u>363,571</u> 140,038 <u>741,607</u> 6,563,882	<u>6,000,418</u> <u>20,954,882</u> 1,830,957 <u>1,608,865</u> 754,160 <u>3,748,407</u> 34,897,689	<u>1.071</u> <u>1.166</u> 0.068 <u>0.268</u> 1.578 <u>0.807</u> 1.014	<u>1.031</u> <u>1.079</u> <u>0.850</u> <u>0.940</u> <u>1.186</u> <u>1.025</u> 1.048	<u>1.001</u> <u>1.048</u> <u>0.825</u> <u>0.912</u> <u>1.152</u> <u>0.995</u> 1.018
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL 05 PUBLIC BUILDINGS 06 CHURCHES 07 SCHOOLS 08 OFFICES AND BANKS 09 REC. FACILITIES 11 HOSPITALS/NURS HOME 13 MOTOR VEHICLE RISKS 14 OTHER NON-MANUF. TOTAL	<u>21,807</u> <u>839,901</u> <u>1,998,746</u> <u>2,858,727</u> <u>323,914</u> <u>234,878</u> <u>244,697</u> <u>15,257</u> <u>430,977</u> 6,968,904	<u>127,847</u> <u>4,198,346</u> <u>11,019,153</u> <u>15,004,496</u> <u>1,758,268</u> <u>1,199,415</u> <u>1,111,037</u> <u>83,554</u> <u>2,305,490</u> 36,807,606	<u>0.380</u> <u>1.431</u> <u>0.967</u> <u>0.758</u> <u>0.115</u> <u>0.089</u> <u>0.833</u> <u>31.281</u> <u>1.280</u> 0.947	<u>0.992</u> <u>1.185</u> <u>1.130</u> <u>1.055</u> <u>0.934</u> <u>0.951</u> <u>1.025</u> <u>5.905</u> <u>1.161</u> 1.099	<u>0.963</u> <u>1.150</u> <u>1.097</u> <u>1.025</u> <u>0.907</u> <u>0.923</u> <u>0.995</u> <u>5.733</u> <u>1.127</u> 1.067

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	131,196	874,024	0.052	0.751	0.729
	04 OTHER MERCANTILE RS	382,724	2,088,551	0.325	0.747	0.725
	08 OFFICES AND BANKS	741,746	3,920,346	0.397	0.726	0.705
	09 REC. FACILITIES	1,209,849	6,777,935	0.873	0.912	0.886
	13 MOTOR VEHICLE RISKS	901,472	4,616,109	1.357	1.145	1.112
	14 OTHER NON-MANUF.	499,212	2,762,546	1.408	1.145	1.111
	15 STORAGE	342,062	1,990,827	2.280	1.349	1.309
	21 METAL MANUFACTURING	58,555	399,642	2.594	1.233	1.197
	22 OTHER MANUFACTURING	<u>58,440</u>	<u>374,653</u>	<u>0.230</u>	<u>0.815</u>	<u>0.791</u>
	TOTAL	4,325,256	23,804,633	1.006	0.974	0.945
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	428,974	2,132,011	0.530	0.819	0.796
	08 OFFICES AND BANKS	114,255	610,810	0.244	0.815	0.791
	13 MOTOR VEHICLE RISKS	11,070	59,739	0.000	0.794	0.771
	14 OTHER NON-MANUF.	173,068	1,168,088	0.206	0.747	0.726
	15 STORAGE	90,658	304,727	0.011	0.673	0.654
	17 FOOD MANUFACTURING	347,335	2,159,151	0.969	0.982	0.954
	18 WOOD MANUFACTURING	553,777	3,082,649	0.014	0.573	0.556
	19 WEARING APPAREL	133,942	759,211	0.056	0.764	0.742
	20 CHEM. MANUFACTURING	155,571	1,126,305	0.010	0.703	0.683
	21 METAL MANUFACTURING	2,970,384	16,768,053	1.080	0.971	0.943
	22 OTHER MANUFACTURING	<u>1,148,091</u>	<u>6,586,039</u>	<u>0.444</u>	<u>0.670</u>	<u>0.651</u>
	TOTAL	6,127,125	34,756,783	0.712	0.843	0.819
38 MULTILINE CONTRACTORS	04 OTHER MERCANTILE RS	729,191	3,722,370	2.261	1.555	1.510
	08 OFFICES AND BANKS	383,835	1,854,718	0.865	0.907	0.881
	14 OTHER NON-MANUF.	<u>70,607</u>	<u>454,497</u>	<u>7.790</u>	<u>2.253</u>	<u>2.187</u>
	TOTAL	1,183,633	6,031,585	2.138	1.387	1.346

INDIANA
BASIC GROUP I RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
TOTAL ALL TOPS*	01 APARTMENTS	3,475,292	18,931,378	1.406	1.278	1.241
	02 OTHER HABITATIONAL	1,533,719	8,646,832	1.571	1.283	1.246
	03 RESTAURANTS & BARS	1,305,648	7,248,649	0.886	0.962	0.934
	04 OTHER MERCANTILE RS	6,129,455	32,220,095	1.261	1.122	1.089
	05 PUBLIC BUILDINGS	1,272,250	5,931,645	1.259	1.081	1.050
	06 CHURCHES	2,055,717	11,169,621	1.075	1.143	1.110
	07 SCHOOLS	3,075,400	15,459,986	0.755	1.037	1.007
	08 OFFICES AND BANKS	4,272,058	22,483,580	0.629	0.857	0.832
	09 REC. FACILITIES	1,695,212	9,399,914	0.730	0.876	0.850
	10 HOTELS AND MOTELS	435,923	2,527,709	1.388	1.138	1.104
	11 HOSPITALS/NURS HOME	393,664	1,786,070	0.766	0.932	0.904
	13 MOTOR VEHICLE RISKS	1,416,772	7,148,831	1.279	1.090	1.058
	14 OTHER NON-MANUF.	1,597,897	9,685,680	1.342	1.051	1.020
	15 STORAGE	1,484,479	7,659,157	0.985	0.981	0.952
	17 FOOD MANUFACTURING	360,485	2,272,611	0.933	0.971	0.943
	18 WOOD MANUFACTURING	600,400	3,314,859	0.441	0.669	0.649
	19 WEARING APPAREL	141,888	803,481	0.052	0.760	0.738
	20 CHEM. MANUFACTURING	207,180	1,232,858	0.008	0.698	0.678
	21 METAL MANUFACTURING	3,357,304	18,605,630	1.019	0.934	0.906
	22 OTHER MANUFACTURING	<u>1,253,537</u>	<u>7,248,585</u>	<u>0.425</u>	<u>0.676</u>	<u>0.657</u>
	TOTAL	36,064,280	193,777,171	1.030	1.030	1.000

* TOTALS IN COLUMNS (3) & (4) ARE AVERAGES USING COLUMN (1) AS WEIGHTS.

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY

ENTIRE STATE						
10 MONOLINE	01 BUILDINGS	826,042	3,886,054	1.032	1.083	1.078
	02 RES. APTS. AND COND	26,306	82,521	4.103	1.777	1.768
	03 OFFICES	63,252	343,885	0.700	1.020	1.015
	04 MERCANTILE - HIGH	85,918	469,117	1.318	1.169	1.163
	05 MERCANTILE - MEDIUM	23,595	113,560	0.628	1.011	1.006
	06 MERCANTILE - LOW	13,171	68,390	0.818	1.054	1.049
	07 MOTELS AND HOTELS	892	6,575	0.000	0.880	0.876
	08 INSTITUTIONAL - HIG	49,847	240,854	0.342	0.941	0.936
	09 INSTITUTIONAL - LOW	47,617	308,288	2.559	1.459	1.452
	10 INDUST-PROC - HIGH	11,184	58,017	0.458	0.976	0.971
	11 INDUST-PROC - LOW	76,387	373,038	1.068	1.108	1.102
	12 SERVICE - HIGH	17,500	99,496	0.762	1.041	1.036
	13 SERVICE - LOW	40,213	250,718	1.496	1.207	1.201
	14 CONTRACTORS	<u>4,598</u>	<u>18,984</u>	<u>0.000</u>	<u>0.879</u>	<u>0.875</u>
	TOTAL	1,286,522	6,319,497	1.121	1.110	1.104
31 MULTILINE	01 BUILDINGS	135,366	705,921	0.740	1.062	1.057
MOTEL/HOTEL	07 MOTELS AND HOTELS	<u>19,022</u>	<u>123,270</u>	<u>1.498</u>	<u>1.149</u>	<u>1.143</u>
	TOTAL	154,388	829,191	0.833	1.073	1.068
32 MULTILINE	01 BUILDINGS	1,391,598	7,044,164	0.713	1.003	0.998
APARTMENT	02 RES. APTS. AND COND	<u>312,880</u>	<u>1,854,599</u>	<u>0.348</u>	<u>0.992</u>	<u>0.987</u>
	TOTAL	1,704,478	8,898,763	0.646	1.001	0.996

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
ENTIRE STATE (Continued)						
33 MULTILINE OFFICE	01 BUILDINGS	730,831	3,765,464	0.911	1.069	1.064
	03 OFFICES	362,496	1,936,491	0.830	1.065	1.060
	04 MERCANTILE - HIGH	173	268	0.000	0.993	0.988
	08 INSTITUTIONAL - HIG	37	102	0.000	0.993	0.988
	12 SERVICE - HIGH	355	905	23.280	3.395	3.378
	14 CONTRACTORS	<u>232</u>	<u>518</u>	<u>0.000</u>	<u>0.993</u>	<u>0.988</u>
	TOTAL	1,094,124	5,703,748	0.891	1.068	1.063
34 MULTILINE MERCANTILE	01 BUILDINGS	2,527,786	12,298,460	1.054	1.089	1.084
	03 OFFICES	11,711	44,098	0.380	1.031	1.026
	04 MERCANTILE - HIGH	475,076	2,511,500	1.516	1.176	1.170
	05 MERCANTILE - MEDIUM	397,635	2,022,186	0.686	1.041	1.036
	06 MERCANTILE - LOW	289,662	1,355,524	1.199	1.120	1.114
	08 INSTITUTIONAL - HIG	49	138	0.000	0.993	0.988
	09 INSTITUTIONAL - LOW	0	6	0.000	1.000	1.000
	11 INDUST-PROC - LOW	688	2,067	0.000	0.993	0.988
	12 SERVICE - HIGH	5,666	41,947	0.350	1.028	1.023
	13 SERVICE - LOW	8,618	58,360	9.986	2.040	2.030
	14 CONTRACTORS	<u>8,338</u>	<u>29,402</u>	<u>0.000</u>	<u>0.992</u>	<u>0.987</u>
TOTAL	3,725,229	18,363,688	1.100	1.099	1.094	

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
ENTIRE STATE (Continued)						
35 MULTILINE INSTITUTIONAL	01 BUILDINGS	2,254,420	11,914,452	0.826	1.010	1.005
	03 OFFICES	2,465	8,239	0.000	0.993	0.988
	04 MERCANTILE - HIGH	24	41	0.000	0.993	0.988
	08 INSTITUTIONAL - HIG	2,719,260	13,434,962	1.865	1.386	1.379
	09 INSTITUTIONAL - LOW	643,933	3,604,203	0.772	1.042	1.037
	12 SERVICE - HIGH	402	3,196	0.000	0.993	0.988
	13 SERVICE - LOW	531	1,808	0.000	0.993	0.988
	14 CONTRACTORS	<u>1,143</u>	<u>4,118</u>	<u>0.000</u>	<u>0.993</u>	<u>0.988</u>
	TOTAL	5,622,178	28,971,019	1.322	1.196	1.190
36 MULTILINE SERVICES	01 BUILDINGS	1,370,222	7,025,344	0.680	0.680	0.677
	03 OFFICES	10,071	46,809	0.591	0.669	0.666
	04 MERCANTILE - HIGH	11,002	53,951	0.136	0.608	0.605
	05 MERCANTILE - MEDIUM	1,399	10,577	0.000	0.608	0.605
	06 MERCANTILE - LOW	2,312	11,252	0.639	0.676	0.673
	08 INSTITUTIONAL - HIG	9,009	42,824	0.383	0.643	0.640
	09 INSTITUTIONAL - LOW	17,507	92,647	0.000	0.575	0.572
	11 INDUST-PROC - LOW	3,524	20,129	0.000	0.604	0.601
	12 SERVICE - HIGH	481,448	2,699,048	0.758	0.734	0.730
	13 SERVICE - LOW	308,321	1,648,669	0.509	0.580	0.577
	14 CONTRACTORS	<u>11,628</u>	<u>46,716</u>	<u>0.000</u>	<u>0.593</u>	<u>0.590</u>
TOTAL	2,226,443	11,697,966	0.658	0.676	0.673	

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
ENTIRE STATE (Continued)						
37 MULTILINE INDUST/PROC	01 BUILDINGS	989,265	5,257,013	0.461	0.503	0.500
	03 OFFICES	1,754	8,530	0.000	0.609	0.606
	04 MERCANTILE - HIGH	3,511	14,593	0.000	0.606	0.603
	05 MERCANTILE - MEDIUM	555	3,388	0.000	0.611	0.608
	10 INDUST-PROC - HIGH	88,287	495,209	1.175	0.846	0.842
	11 INDUST-PROC - LOW	622,862	3,424,898	0.741	0.725	0.721
	12 SERVICE - HIGH	1,497	8,932	4.794	1.115	1.109
	13 SERVICE - LOW	590	2,320	0.000	0.612	0.609
	14 CONTRACTORS	841	2,535	0.000	0.612	0.609
	TOTAL	1,709,162	9,217,418	0.602	0.603	0.599
38 MULTILINE CONTRACTORS	01 BUILDINGS	478,173	2,478,243	0.794	0.757	0.753
	03 OFFICES	11,679	56,249	1.518	0.794	0.790
	04 MERCANTILE - HIGH	27,394	134,158	0.594	0.665	0.662
	05 MERCANTILE - MEDIUM	723	4,045	0.000	0.611	0.608
	06 MERCANTILE - LOW	4,900	29,472	0.022	0.603	0.600
	08 INSTITUTIONAL - HIG	25	64	0.000	0.613	0.610
	11 INDUST-PROC - LOW	736	1,839	0.000	0.612	0.609
	12 SERVICE - HIGH	861	2,058	0.000	0.612	0.609
	13 SERVICE - LOW	915	3,863	0.000	0.611	0.608
	14 CONTRACTORS	454,626	2,531,555	0.936	0.854	0.850
TOTAL	980,032	5,241,546	0.856	0.799	0.795	

INDIANA
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 09/30/2019 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	CREDIBILITY WEIGHTED RELATIVITY
ENTIRE STATE (Continued)						
TOTAL ALL TOPS*	01 BUILDINGS	10,703,703	54,375,115	0.832	0.938	0.933
	02 RES. APTS. AND COND	339,186	1,937,120	0.639	1.053	1.048
	03 OFFICES	463,428	2,444,301	0.805	1.040	1.035
	04 MERCANTILE - HIGH	603,098	3,183,628	1.411	1.138	1.132
	05 MERCANTILE - MEDIUM	423,907	2,153,756	0.678	1.037	1.031
	06 MERCANTILE - LOW	310,045	1,464,638	1.160	1.106	1.100
	07 MOTELS AND HOTELS	19,914	129,845	1.431	1.137	1.131
	08 INSTITUTIONAL - HIG	2,778,227	13,718,944	1.833	1.376	1.369
	09 INSTITUTIONAL - LOW	709,057	4,005,144	0.873	1.059	1.053
	10 INDUST-PROC - HIGH	99,471	553,226	1.094	0.861	0.856
	11 INDUST-PROC - LOW	704,197	3,821,971	0.771	0.766	0.762
	12 SERVICE - HIGH	507,729	2,855,582	0.779	0.751	0.747
	13 SERVICE - LOW	359,188	1,965,738	0.844	0.686	0.683
	14 CONTRACTORS	<u>481,406</u>	<u>2,633,828</u>	<u>0.884</u>	<u>0.850</u>	<u>0.846</u>
	TOTAL	18,502,556	95,242,836	1.000	1.006	1.000

* TOTALS IN COLUMNS (3) & (4) ARE AVERAGES USING COLUMN (1) AS WEIGHTS.

INDIANA
BASIC GROUP II RELATIVITY ANALYSIS

INDICATED TOTAL LOSS COST ADJUSTMENT: 0.4%

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	ACCIDENT YEAR ENDING 09/30/2019	ACCIDENT YEARS 2010-2019	FORMULA	CREDIBILITY	CREDIBILITY WEIGHTED	BALANCED FORMULA	NORMALIZED FORMULA	CURRENT IMPLICIT PMF	INDICATED IMPLICIT PMF G	INDICATED TOTAL LOSS COST ADJUST
	LOSS COSTS AT CURRENT IMPLICIT PMF	EXPERIENCE RATIO AT CURRENT PMF PMF A	RELATIVITY (2)/ 1.052	C	RELATIVITY D	RELATIVITY E	RELATIVITY F			
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MONOLINE	2,260,034	1.098	1.044	0.585	1.026	1.026	1.0288			3.3%
MULTILINE	28,816,190	1.041	0.990	0.853	0.991	0.995	0.9979			0.2%
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COVERAGE	31,076,224	1.052	1.000			0.9973	1.0001			0.4%
MULTILINE TOP										
31 MOTEL/HOTEL	276,930	1.382	1.314	0.064	1.020	1.023	1.0258	1.401	1.397	3.0%
32 APARTMENT	3,768,294	*****	*****	*****	*****	1.026	1.0288	1.500	1.500	3.3%
33 OFFICE	1,450,692	1.025	0.974	0.232	0.994	0.997	0.9997	0.890	0.865	0.4%
34 MERCANTILE	6,102,043	0.921	0.875	0.569	0.929	0.932	0.9345	1.142	1.037	-6.2%
35 INSTITUTIONAL	9,399,743	1.044	0.992	0.691	0.994	0.997	0.9997	0.691	0.671	0.4%
36 SERVICES	4,388,818	1.072	1.019	0.515	1.010	1.013	1.0157	1.217	1.202	2.0%
37 INDUST/PROCESS	2,189,457	1.225	1.164	0.336	1.055	1.058	1.0609	0.581	0.599	6.5%
38 CONTRACTORS	1,240,213	1.118	1.063	0.230	1.014	1.017	1.0198	1.141	1.131	2.4%
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	28,816,190	1.041	0.990		0.988	0.995	0.9979			0.2%

A - TOP 32 IMPLICIT PMF CAPPED AT 1.500.
 FOR COLUMNS (2) THROUGH (5), MONOLINE INCLUDES TOPS 32
 AT THESE CAPPED LEVELS AND MULTILINE EXCLUDES TOPS 32
 B - AVERAGE WEIGHTED BY COLUMN (1)
 C - CREDIBILITY = P/(P+K) WHERE P REPRESENTS THE TOTAL 10 YEAR ADJUSTED LOSS COSTS AND K = 45,000,000
 D - (5) = (3) * (4) + (1.000 - (4))
 E - FOR UNCAPPED MULTILINE TOPS: (6) = (5) * (0.991/0.988)
 FOR CAPPED MULTILINE TOPS: (6) = (9) * (1.026) / (8)
 F - (7) = (6) / 0.9973
 G - (9) = (7) * (8) / (1.0288)

INDIANA
BASIC GROUP I
HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-09-01	-12.5	0.875	0.701	0.333
2001-09-01	2.7	0.899	0.682	0.333
2003-12-01	18.3	1.063	0.577	0.083
2004-10-01	-2.3	1.039	0.590	0.250
2006-03-01	6.4	1.105	0.555	0.833
2008-04-01	-18.3	0.903	0.679	0.750
2009-03-01	-13.8	0.778	0.788	0.833
2010-03-01	-12.1	0.684	0.896	0.833
2011-04-01	-10.2	0.614	0.998	0.750
2012-04-01	-2.3	0.600	1.022	0.750
2014-04-01	-1.7	0.590	1.039	0.750
2015-04-01	0.0	0.590	1.039	0.750
2019-04-01	3.9	0.613	1.000	0.750

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-13.1	0.869	1.000	0.750

INDIANA
BASIC GROUP II
HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-09-01	-5.1	0.949	1.256	0.333
2001-09-01	-10.0	0.854	1.396	0.333
2003-12-01	-4.6	0.815	1.463	0.083
2004-10-01	-1.1	0.806	1.479	0.250
2006-03-01	18.1	0.952	1.252	0.833
2008-04-01	-10.3	0.854	1.396	0.750
2009-03-01	-10.6	0.763	1.562	0.833
2010-03-01	4.8	0.800	1.490	0.833
2011-04-01	0.8	0.806	1.479	0.750
2012-04-01	0.0	0.806	1.479	0.750
2014-04-01	17.5	0.947	1.259	0.750
2015-04-01	10.7	1.049	1.136	0.750
2019-04-01	13.7	1.192	1.000	0.750

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-13.3	0.867	1.000	0.750

INDIANA
SPECIAL CAUSES OF LOSS
HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-09-01	23.0	1.230	0.552	0.333
2001-09-01	10.8	1.363	0.498	0.333
2003-12-01	-25.8	1.011	0.672	0.083
2004-10-01	-4.8	0.963	0.705	0.250
2006-03-01	27.4	1.226	0.554	0.833
2008-04-01	-7.0	1.141	0.595	0.750
2009-03-01	-7.8	1.052	0.645	0.833
2010-03-01	0.9	1.061	0.640	0.833
2011-04-01	-7.2	0.985	0.689	0.750
2012-04-01	-16.0	0.827	0.821	0.750
2014-04-01	-4.0	0.794	0.855	0.750
2015-04-01	-4.0	0.762	0.891	0.750
2019-04-01	-10.9	0.679	1.000	0.750

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY

(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/ RATE LEVEL CHANGE (%)	LOSS COST/ RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-25.0	0.750	1.000	0.750

INDIANA
 HISTORY OF BASIC GROUP I
 LOSS COST CHANGES BY TERRITORY, RATING ID AND RATING GROUP

TERRITORY: Indianapolis

EFFECTIVE RATING
 DATE ID

RATING GROUP

		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
03/01/2006	SPEC.	5.2	13.7	19.8	7.9	10.2	11.2	5.6	10.4	15.1	10.4	11.9	10.7	17.1	7.8	9.4	12.1	10.2	11.1	11.6	14.7	10.3
	CLASS	9.3	18.2	24.5	12.1	14.5	15.5	9.8	14.7	19.5	14.7	16.2	15.0	21.6	11.9	13.7	16.4	10.2	15.4	11.6	14.7	14.6
04/01/2008	SPEC.	-25.8	-18.0	-18.8	-20.1	-18.5	-16.2	-16.4	-19.4	-14.1	-19.0	-19.6	-20.5	-17.6	-23.5	-20.3	-21.8	-22.5	-20.9	-20.5	-21.6	-28.1
	CLASS	-20.0	-11.6	-12.4	-13.9	-12.2	-9.7	-9.9	-13.1	-7.4	-12.7	-13.3	-14.2	-11.1	-17.5	-14.1	-15.7	-22.5	-14.8	-20.5	-21.6	-22.5
03/01/2009	SPEC.	-20.5	-13.2	-15.8	-15.7	-9.7	-6.4	-11.7	-15.7	-9.1	-13.4	-13.6	-14.1	-11.2	-15.7	-15.1	-15.6	-15.6	-14.5	-14.2	-12.7	-18.5
	CLASS	-20.9	-13.7	-16.3	-16.2	-10.2	-6.8	-12.1	-16.1	-9.6	-13.9	-14.0	-14.5	-11.6	-16.2	-15.5	-16.0	-15.6	-15.0	-14.2	-12.7	-18.9
03/01/2010	SPEC.	-5.7	-1.4	-11.1	-5.1	-0.7	-0.7	-2.5	-6.3	-1.1	-3.7	-3.7	-4.2	-2.9	-4.6	-5.5	-6.0	-6.0	-4.9	-4.2	-3.9	-3.6
	CLASS	-14.7	-10.8	-19.5	-14.1	-10.1	-10.1	-11.7	-15.2	-10.5	-12.8	-12.8	-13.3	-12.1	-13.6	-14.5	-14.9	-6.0	-13.9	-4.2	-3.9	-12.7
04/01/2011	SPEC.	4.5	3.7	-12.8	-8.7	-0.5	-3.8	-6.2	-3.3	-3.5	-5.6	-6.9	-7.5	-8.8	-7.5	-6.3	-7.4	-7.8	-6.8	-6.3	-14.3	-8.8
	CLASS	-11.4	-12.2	-26.1	-22.7	-15.8	-18.5	-20.5	-18.1	-18.2	-20.1	-21.2	-21.7	-22.8	-21.7	-20.6	-21.6	-7.8	-21.1	-6.3	-14.3	-22.8
04/01/2012	SPEC.	4.7	8.9	-3.1	-1.3	4.9	0.8	4.0	1.8	5.8	2.0	1.8	1.1	0.0	1.1	0.9	2.9	3.6	2.3	2.7	2.8	5.0
	CLASS	-16.1	-12.8	-22.3	-20.9	-15.9	-19.3	-16.7	-18.5	-15.3	-18.3	-18.5	-19.1	-19.9	-19.1	-19.2	-17.6	3.6	-18.1	2.7	2.8	-15.9
04/01/2014	SPEC.	-8.1	-8.5	-13.1	-8.3	-10.2	-9.4	-17.0	-3.6	-8.8	-10.2	-11.9	-10.4	-8.8	-10.4	-8.8	-9.8	-9.8	-10.2	-10.1	-14.2	-7.0
	CLASS	19.5	18.9	13.0	19.1	16.7	17.7	7.9	25.0	18.6	16.7	14.5	16.5	18.6	16.5	18.6	17.3	-9.8	16.7	-10.1	-14.2	20.9
04/01/2015	SPEC.	20.9	18.1	20.6	20.7	22.9	22.4	22.4	25.0	25.0	22.3	21.5	20.9	22.6	20.9	22.4	21.9	22.6	21.2	21.2	15.7	20.4
	CLASS	7.1	4.6	6.8	6.9	8.8	8.4	8.4	12.3	10.9	8.3	7.6	7.1	8.6	7.1	8.4	8.0	22.6	7.3	21.2	15.7	6.7
04/01/2019	SPEC.	10.8	7.7	9.0	15.4	5.8	0.7	-0.5	3.0	6.5	4.8	5.3	3.2	8.1	3.2	7.4	5.7	4.7	5.6	5.4	-0.4	4.3
	CLASS	10.8	7.7	9.0	15.4	5.8	0.7	-0.5	3.0	6.5	4.8	5.3	3.2	8.1	3.2	7.4	5.7	4.7	5.6	5.4	-0.4	4.3

INDIANA
HISTORY OF BASIC GROUP I
LOSS COST CHANGES BY TERRITORY, RATING ID AND RATING GROUP

TERRITORY: Balance of State

EFFECTIVE RATING
DATE ID

RATING GROUP

		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
03/01/2006	SPEC.	-2.1	5.8	11.5	0.4	2.5	3.5	-1.7	2.8	7.1	2.8	4.1	3.1	8.9	0.3	1.8	4.3	2.5	3.4	3.9	6.8	2.6
	CLASS	1.7	10.0	15.8	4.3	6.5	7.5	2.1	6.7	11.2	6.7	8.1	7.1	13.2	4.2	5.8	8.3	2.5	7.4	3.9	6.8	6.6
04/01/2008	SPEC.	-27.6	-20.0	-20.8	-22.1	-20.5	-18.3	-18.5	-21.4	-16.2	-21.0	-21.5	-22.4	-19.6	-25.4	-22.2	-23.7	-24.4	-22.9	-22.4	-23.5	-29.8
	CLASS	-22.0	-13.7	-14.6	-16.0	-14.3	-11.9	-12.1	-15.2	-9.7	-14.8	-15.4	-16.3	-13.3	-19.6	-16.2	-17.8	-24.4	-16.9	-22.4	-23.5	-24.4
03/01/2009	SPEC.	-20.2	-13.0	-15.6	-15.5	-9.4	-6.1	-11.4	-15.4	-8.8	-13.2	-13.3	-13.9	-10.9	-15.5	-14.8	-15.3	-15.3	-14.3	-13.9	-12.5	-18.3
	CLASS	-20.6	-13.4	-16.0	-15.9	-9.9	-6.5	-11.9	-15.8	-9.3	-13.6	-13.8	-14.3	-11.4	-15.9	-15.2	-15.7	-15.3	-14.7	-13.9	-12.5	-18.7
03/01/2010	SPEC.	-9.4	-5.2	-14.5	-8.7	-4.6	-4.6	-6.2	-9.9	-4.9	-7.4	-7.4	-7.9	-6.7	-8.3	-9.2	-9.6	-9.6	-8.5	-7.9	-7.6	-7.3
	CLASS	-18.0	-14.2	-22.6	-17.4	-13.6	-13.6	-15.1	-18.5	-13.9	-16.2	-16.2	-16.6	-15.5	-17.0	-17.8	-18.2	-9.6	-17.2	-7.9	-7.6	-16.1
04/01/2011	SPEC.	8.8	7.9	-9.3	-5.0	3.5	0.0	-2.4	0.6	0.4	-1.8	-3.2	-3.8	-5.1	-3.8	-2.5	-3.7	-4.1	-3.1	-2.5	-10.8	-5.1
	CLASS	-7.9	-8.6	-23.1	-19.6	-12.4	-15.3	-17.3	-14.8	-14.9	-16.8	-18.0	-18.5	-19.7	-18.5	-17.4	-18.4	-4.1	-17.9	-2.5	-10.8	-19.7
04/01/2012	SPEC.	11.3	15.7	2.9	4.8	11.5	7.0	10.5	8.1	12.3	8.3	8.1	7.3	6.3	7.3	7.1	9.3	10.1	8.7	9.1	9.2	11.6
	CLASS	-10.9	-7.3	-17.5	-16.0	-10.7	-14.3	-11.5	-13.4	-10.0	-13.2	-13.4	-14.0	-14.9	-14.0	-14.2	-12.5	10.1	-13.0	9.1	9.2	-10.6
04/01/2014	SPEC.	-12.1	-12.6	-17.0	-12.4	-14.2	-13.4	-20.7	-7.8	-12.8	-14.2	-15.8	-14.4	-12.8	-14.4	-12.8	-13.8	-13.8	-14.2	-14.0	-18.0	-11.1
	CLASS	14.2	13.7	8.0	13.9	11.5	12.5	3.1	19.5	13.3	11.5	9.4	11.3	13.3	11.3	13.3	12.1	-13.8	11.5	-14.0	-18.0	15.6
04/01/2015	SPEC.	4.1	1.7	3.8	3.9	5.8	5.4	5.4	7.6	7.6	5.3	4.6	4.1	5.6	4.1	5.4	5.0	5.6	4.3	4.3	-0.4	3.7
	CLASS	-7.8	-9.9	-8.1	-8.0	-6.3	-6.7	-6.7	-3.3	-4.5	-6.8	-7.3	-7.8	-6.5	-7.8	-6.7	-7.0	5.6	-7.6	4.3	-0.4	-8.1
04/01/2019	SPEC.	8.0	5.0	6.2	12.4	3.1	-1.9	-3.0	0.4	3.8	2.2	2.6	0.6	5.4	0.6	4.7	3.0	2.1	2.9	2.7	-2.9	1.7
	CLASS	8.0	5.0	6.2	12.4	3.1	-1.9	-3.0	0.4	3.8	2.2	2.6	0.6	5.4	0.6	4.7	3.0	2.1	2.9	2.7	-2.9	1.7

INDIANA

BASIC GROUP II
HISTORY OF LOSS COST/RATE LEVEL CHANGES
BY TERRITORY, SYMBOL AND COVERAGE

(1)	(2)	(3)	(4)	(5)
TERRITORY	EFFECTIVE DATE	SYMBOL	BUILDING	CONTENTS

EXHIBIT C5 DOES NOT EXIST FOR NON-HURRICANE STATES

INDIANA

SPECIAL CAUSES OF LOSS

HISTORY OF LOSS COST/RATE LEVEL CHANGES BY CATEGORY

(1) EFFECTIVE DATE	(2) CATEGORY													
	01	02	03	04	05	06	07	08	09	10	11	12	13	14
03/01/2006	30.0	19.8	22.1	12.7	24.0									
04/01/2008	-5.2	-15.1	-5.5	-23.5	-9.9									
03/01/2009	-8.1	-13.7	-4.8	-8.2	-5.2									
03/01/2010	0.6	-5.1	5.3	4.4	-0.5									
04/01/2011	-10.5	-7.5	-5.1	-7.5	-5.2	-6.0	-4.9	-3.6	-3.2	-5.5	-1.2	-4.9	10.8	-2.0
04/01/2012	-18.2	-14.9	-13.1	-13.6	-13.3	-12.8	-12.2	-18.5	-13.3	-13.3	-6.7	-12.5	-11.7	-5.5
04/01/2014	4.5	-6.1	-4.1	-4.1	-4.8	-4.1	-1.9	-29.2	-3.1	-4.3	-4.3	-4.1	-4.6	4.1
04/01/2015	0.4	-6.6	-4.3	-5.6	-6.9	-4.1	-4.5	-15.4	-3.4	-5.0	-5.5	-11.0	-9.2	-2.0
04/01/2019	-4.5	-18.0	-12.7	-20.0	-14.3	-7.0	-10.5	-31.8	-15.0	-11.7	-2.9	-20.4	-15.2	-4.3

INDIANA

BASIC GROUP I IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP

31	MOTEL/HOTEL	0.789	0.500	1.500
32	APARTMENT	0.697	0.500	1.500
33	OFFICE	0.831	0.500	1.500
34	MERCANTILE	0.777	0.500	1.500
35	INSTITUTIONAL	0.564	0.500	1.500
36	SERVICES	0.826	0.500	1.500
37	INDUST/PROCESSING	0.947	0.500	1.500
38	CONTRACTORS	0.739	0.500	1.500

INDIANA

BASIC GROUP II IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP

31	MOTEL/HOTEL	1.401	0.500	1.500
32	APARTMENT	1.500	0.500	1.500
33	OFFICE	0.890	0.500	1.500
34	MERCANTILE	1.142	0.500	1.500
35	INSTITUTIONAL	0.691	0.500	1.500
36	SERVICES	1.217	0.500	1.500
37	INDUST/PROCESSING	0.581	0.500	1.500
38	CONTRACTORS	1.141	0.500	1.500

INDIANA

SPECIAL CAUSES OF LOSS IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP

31	MOTEL/HOTEL	1.425	0.500	1.500
32	APARTMENT	1.320	0.500	1.500
33	OFFICE	1.137	0.500	1.500
34	MERCANTILE	1.180	0.500	1.500
35	INSTITUTIONAL	0.869	0.500	1.500
36	SERVICES	1.103	0.500	1.500
37	INDUST/PROCESSING	0.702	0.500	1.500
38	CONTRACTORS	1.272	0.500	1.500

Development of Current Cost Factors and Loss Projection Factors
For Commercial Property Building and Contents Experience
 Period ending June 30, 2020

Part A: Quarterly Indices for Buildings, Contents and Time Element

Building Loss Projection Factors - Xactware Commercial Index (XCI) (Base: 2009 = 100.0)

Contents - Producer Price Index (PPI) - U.S. Dept. of Labor (Finished Goods Less Energy) (Base: 2009 = 100.0)

Time Element Combined Index - Weighted average of IMSEP and RSALES indices ^(a)

Quarter	XCI	PPI	IMSEP	RSALES	Time Element
					Combined Index
1 Q3-2017	115.0	116.3	1.04	0.957	0.982
2 Q4-2017	115.5	117.1	1.043	0.963	0.987
3 Q1-2018	116.6	117.6	1.045	0.969	0.992
4 Q2-2018	117.5	118.1	1.052	0.972	0.996
5 Q3-2018	118.4	118.3	1.056	0.973	0.998
6 Q4-2018	118.8	119.6	1.057	0.969	0.995
7 Q1-2019	119.8	120.4	1.058	0.964	0.992
8 Q2-2019	121.1	120.8	1.063	0.970	0.998
9 Q3-2019	121.9	120.8	1.063	0.968	0.997
10 Q4-2019	123.0	121.7	1.063	0.968	0.997
11 Q1-2020	124.6	121.9	1.061	0.965	0.994
12 Q2-2020	126.0	122.7	1.043	0.942	0.972

Part B: Computation of Loss Projection Factor (LPF) for Buildings based on 12 points

$$\text{Annual Rate of Change} = +3.30\% \quad R^2 = 0.989$$

$$\text{Loss Projection Factor for Buildings} = 1.033^{22.5/12 (b)} = 1.0628$$

Part C: Computation of Loss Projection Factor (LPF) for Contents based on 12 points

$$\text{Annual Rate of Change} = +1.94\% \quad R^2 = 0.982$$

$$\text{Loss Projection Factor for Contents} = 1.019^{22.5/12 (b)} = 1.0367$$

Part D: Computation of Loss Projection Factor (LPF) for Time Element Based on 12 points

$$\text{Annual Rate of Change} = -0.02\% \quad R^2 = 0.001$$

$$\text{Loss Projection Factor for Time Element} = 1.000^{22.5/12 (b)} = 0.9996$$

(a) 30% weight for IMSEP and 70% weight for RSALES. IMSEP & RSALES indices were rescaled to a 2012 year base.

(b) Assuming a rate or loss cost revision date of 4/01/2021, and all one year policies, the time interval between the midpoint of the latest period (5/15/2020) and the average date of accident (4/01/2022) would be 22.5 months.

Development of Current Cost Factors and Loss Projection Factors

Part E: Calculation of Current Cost Factors (CCF)

<u>Year</u>	<u>Calendar Year Averages</u>			<u>Current Cost Factors Based on Average Index Values for Period ending June 30, 2020</u>		
	<u>XCI</u>	<u>PPI</u>	<u>Index</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
2008	97.0	98.5	0.948	126 / 97.0 = 1.300	122.7 / 98.5 = 1.246	0.9723 / 0.948 : 1.026
2009	100.0	100.0	0.940	126 / 100.0 = 1.260	122.7 / 100.0 = 1.227	0.9723 / 0.940 : 1.034
2010	99.3	101.8	0.953	126 / 99.3 = 1.270	122.7 / 101.8 = 1.205	0.9723 / 0.953 : 1.020
2011	100.0	105.2	0.985	126 / 100.0 = 1.260	122.7 / 105.2 = 1.166	0.9723 / 0.985 : 0.987
2012	101.0	108.0	1.000	126 / 101.0 = 1.248	122.7 / 108.0 = 1.137	0.9723 / 1.000 : 0.972
2013	102.7	109.7	1.003	126 / 102.7 = 1.227	122.7 / 109.7 = 1.118	0.9723 / 1.003 : 0.969
2014	104.7	112.5	1.005	126 / 104.7 = 1.203	122.7 / 112.5 = 1.090	0.9723 / 1.005 : 0.967
2015	109.1	113.8	0.986	126 / 109.1 = 1.155	122.7 / 113.8 = 1.078	0.9723 / 0.986 : 0.986
2016	111.1	114.4	0.975	126 / 111.1 = 1.134	122.7 / 114.4 = 1.072	0.9723 / 0.975 : 0.997
2017	114.3	116.4	0.983	126 / 114.3 = 1.102	122.7 / 116.4 = 1.054	0.9723 / 0.983 : 0.989
2018	117.8	118.4	0.995	126 / 117.8 = 1.069	122.7 / 118.4 = 1.036	0.9723 / 0.995 : 0.977
2019	121.5	120.9	0.996	126 / 121.5 = 1.037	122.7 / 120.9 = 1.015	0.9723 / 0.996 : 0.976

SUMMARY OF LOSS TREND ADJUSTMENTS (LTA'S)

<u>BUILDINGS</u>	<u>5 YEAR INCURRED LOSSES</u>	<u>LTA'S*</u>
BASIC GROUP I	2,958,736,918	0.0%
BASIC GROUP II	2,951,810,348	0.0%
SPECIAL CAUSES OF LOSS	1,665,137,986	0.3%
TOTAL	7,575,685,251	0.1%
<u>CONTENTS</u>		
BASIC GROUP I	869,646,578	0.6%
BASIC GROUP II	263,818,148	0.6%
SPECIAL CAUSES OF LOSS	606,599,719	-0.6%
TOTAL	1,740,064,445	0.2%
<u>TIME ELEMENT</u>		
BASIC GROUP I	389,039,379	3%
BASIC GROUP II	70,999,922	3%
SPECIAL CAUSES OF LOSS	123,793,433	3%
TOTAL	583,832,734	2.6%
GRAND TOTAL	9,899,582,430	0.3%

*The LTA's are based on internal severity and frequency data. They apply to both the historical period and projection period.

DEVELOPMENT OF LTA'SI. EXTERNAL RATE OF CHANGE^a

Calendar Year	(1)	(2)	(3)	(4)	(5)
	Buildings Current Cost Factor	Contents Current Cost Factor	Time Element Cost Factor	Basic Group I (BGI)& Special Causes of Loss (SCL) Weights	Basic Group II (BGII) Weights
2009	1.188	1.196	1.061		0.10
2010	1.197	1.175	1.046		0.10
2011	1.188	1.137	1.012		0.10
2012	1.176	1.108	0.997		0.10
2013	1.157	1.090	0.994		0.10
2014	1.135	1.063	0.992	0.10	0.10
2015	1.089	1.051	1.011	0.15	0.10
2016	1.069	1.045	1.023	0.20	0.10
2017	1.039	1.028	1.014	0.25	0.10
2018	1.008	1.010	1.000	0.30	0.10

(6) AVERAGE CURRENT COST FACTORS

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss (Weighted on Column (4))	1.053	1.033	1.009
Basic Group II (Weighted on Column (5))	1.125	1.090	1.015

(7) LOSS PROJECTION FACTORS

	Buildings	Contents	Time Element
Annual Rate of Change	0.029	0.017	0.010
Loss Projection Factor: ^b $(1.0 + \text{Annual Rate of Change})^{(X/12)}$	1.079	1.045	1.026

(8) TOTAL TREND FACTOR (Average Current Cost Factor \times Loss Projection Factor)

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss	1.136	1.079	1.035
Basic Group II	1.214	1.139	1.041

(9) EXTERNAL ANNUAL RATE OF CHANGE^c

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss: $(\text{Total Trend Factor})^{12/54}$	1.029	1.017	1.008
Basic Group II: $(\text{Total Trend Factor})^{12/90}$	1.026	1.018	1.005

(a) The Current Cost Factors and Loss Projection Factors on this exhibit are based on external economic indices through December 31, 2018 for Buildings, Contents and Time Element.

(b) Assuming a loss cost revision date of July 1, 2020, the time interval between the midpoint of the latest period of external trend information (November 15, 2018) and the prospective average date of loss (July 1, 2021) is 31.5 months for Buildings, Contents and Time Element.

(c) The time interval from the weighted midpoint of the experience period to the prospective average date of loss (July 1, 2021) is 54 months for BG I and SCL, and 90 months for BG II. The weighted midpoint is January 1, 2017 for BG I and SCL, and January 1, 2014 for BG II.

DEVELOPMENT OF LTA'SII. INTERNAL ANNUAL RATES OF CHANGE:

(10) SELECTED COMFAL

	Buildings	Contents	Time Element
Basic Group I (BGI)	1.050	1.050	1.060
Basic Group II (BGII)	1.025	1.030	1.060
Special Causes of Loss	1.035	1.025	1.060

III. LTA CALCULATION:

CALCULATION OF LTAs - BUILDINGS

	(11)	(12)	(13)	(14)	(15)	(16)
	External	Internal	Indicated	Formula	Frequency	Final
	Rate of	Rate of	Severity LTA	Severity	Effect	LTA ^f
	<u>Change^d</u>	<u>Change</u>	<u>[(12)/(11)-1.0]</u>	<u>LTA^e</u>	<u>Effect</u>	<u>LTA^f</u>
Basic Group I (BGI)	1.029	1.050	2.0	1.0	-1.0	0.0
Basic Group II (BGII)	1.026	1.025	-0.1	0.0	0.0	0.0
Special Causes of Loss	1.029	1.035	0.6	0.3	0.0	0.3

CALCULATION OF LTAs - CONTENTS

	(11)	(12)	(13)	(14)	(15)	(16)
	External	Internal	Indicated	Formula	Frequency	Final
	Rate of	Rate of	Severity LTA	Severity	Effect	LTA ^f
	<u>Change^d</u>	<u>Change</u>	<u>[(12)/(11)-1.0]</u>	<u>LTA^e</u>	<u>Effect</u>	<u>LTA^f</u>
Basic Group I (BGI)	1.017	1.050	3.2	1.6	-1.0	0.6
Basic Group II (BGII)	1.018	1.030	1.2	0.6	0.0	0.6
Special Causes of Loss	1.017	1.025	0.8	0.4	-1.0	-0.6

CALCULATION OF LTAs - TIME ELEMENT

	(11)	(12)	(13)	(14)	(15)	(16)
	External	Internal	Indicated	Formula	Frequency	Final
	Rate of	Rate of	Severity LTA	Severity	Effect	LTA ^f
	<u>Change^d</u>	<u>Change</u>	<u>[(12)/(11)-1.0]</u>	<u>LTA^e</u>	<u>Effect</u>	<u>LTA^f</u>
Basic Group I (BGI)	1.008	1.060	5.2	2.6	0.0	2.6
Basic Group II (BGII)	1.005	1.060	5.5	2.7	0.0	2.7
Special Causes of Loss	1.008	1.060	5.2	2.6	0.0	2.6

(d) The external rates of change are based on external economic indices through December 31, 2018 for Buildings, Contents and Time Element.

(e) The formula severity LTA for Buildings, Contents and Time Element is calculated as one-half of the indicated severity LTA. This is equivalent to calculating the overall severity trend giving 50% weight to the external trend and 50% weight to the selected internal trend.

(f) The final LTA is calculated as the product (in factor form) of the formula severity LTA and frequency effect.

EXPOSURE TREND
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

Year	Buildings				Contents			
	(1) ^a Annual Written Increase	(2) ^a 7/1/2019 Written Factors	(3) ^b 10/1/2021 Projected Factors	(4) ^c 10/1/2021 Earned Factors	(5) ^a Annual Written Increase	(6) ^a 7/1/2019 Written Factors	(7) ^b 10/1/2021 Projected Factors	(8) ^c 10/1/2021 Earned Factors
2007	3.9%	1.368	1.465	1.508	2.4%	1.266	1.330	1.353
2008	3.5%	1.322	1.416	1.453	2.4%	1.236	1.298	1.322
2009	3.3%	1.280	1.371	1.405	2.2%	1.209	1.270	1.291
2010	2.5%	1.249	1.338	1.363	1.7%	1.189	1.249	1.265
2011	2.5%	1.219	1.306	1.330	1.8%	1.168	1.227	1.243
2012	2.7%	1.187	1.271	1.297	1.8%	1.147	1.205	1.222
2013	2.6%	1.157	1.239	1.263	2.1%	1.123	1.179	1.198
2014	2.5%	1.129	1.209	1.232	2.1%	1.100	1.155	1.173
2015	2.3%	1.104	1.182	1.202	1.9%	1.079	1.133	1.150
2016	2.1%	1.081	1.158	1.176	1.8%	1.060	1.113	1.128
2017	2.1%	1.059	1.134	1.152	1.8%	1.041	1.093	1.108
2018	2.7%	1.031	1.104	1.126	1.9%	1.022	1.073	1.088
2019	3.1%	1.000	1.071	1.096	2.2%	1.000	1.050	1.067

Notes

- a The percentages in columns (1) and (5) represent the change in written exposures from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written exposures for each year relative to the latest year.
- b The selected average annual changes in Amount of Insurance for projection purposes are 3.1% and 2.2% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2019 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/1/2021 (i.e., 6 months beyond an assumed revision date of 7/1/2020), by applying a factor of $(1.031)^{(27/12)}$ for Buildings and $(1.022)^{(27/12)}$ for Contents.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

<u>Year</u>	<u>Earning Factors (All Years)</u>
n-2	1/32
n-1	11/16
n	9/32

For example, the factors used to adjust earned exposures for the period from 01/01/2019 to 12/31/2019 to the projected level are 1.096 for Buildings and 1.067 for Contents.

EXPOSURE TREND
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

	Time Element			
	(1) ^a Annual Written Increase	(2) ^a 7/1/2019 Written Factors	(3) ^b 10/1/2021 Projected Factors	(4) ^c 10/1/2021 Earned Factors
<u>Year</u>	<u>Increase</u>	<u>Factors</u>	<u>Factors</u>	<u>Factors</u>
2007	1.3%	1.116	1.139	1.150
2008	1.3%	1.102	1.124	1.135
2009	0.8%	1.093	1.115	1.122
2010	0.7%	1.085	1.107	1.113
2011	0.8%	1.076	1.098	1.105
2012	0.8%	1.067	1.089	1.096
2013	0.9%	1.057	1.079	1.086
2014	1.0%	1.047	1.068	1.076
2015	1.1%	1.036	1.057	1.065
2016	1.1%	1.025	1.046	1.054
2017	0.9%	1.016	1.037	1.044
2018	0.7%	1.009	1.030	1.035
2019	0.9%	1.000	1.020	1.027

Notes

- a The percentages in columns (1) and (5) represent the change in written exposures from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written exposures for each year relative to the latest year.
- b The selected average annual change in Net Income (Time Element exposure) for projection purposes is 0.9%. Consequently, the written factors at 7/1/2019 levels in column (2) are brought to the level of the average date of writing in the effective period, 10/1/2021 (i.e., 6 months beyond an assumed revision date of 7/1/2020), by applying a factor of $(1.009)^{(27/12)}$ for Time Element.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

<u>Year</u>	<u>Earning Factors (All Years)</u>
n-2	1/32
n-1	11/16
n	9/32

For example, the factors used to adjust earned exposures for the period from 01/01/2019 to 12/31/2019 to the projected level is 1.027 for Time Element

PREMIUM TREND - BASIC GROUP I
DEVELOPMENT OF CURRENT AND PROJECTED EARNED PREMIUM FACTORS

Year	Buildings				Contents			
	(1) ^a Annual Written Increase	(2) ^a 7/1/2019 Written Factors	(3) ^b 10/1/2021 Projected Factors	(4) ^c 10/1/2021 Earned Factors	(5) ^a Annual Written Increase	(6) ^a 7/1/2019 Written Factors	(7) ^b 10/1/2021 Projected Factors	(8) ^c 10/1/2021 Earned Factors
2007	3.1%	1.292	1.366	1.398	2.0%	1.217	1.267	1.286
2008	2.8%	1.257	1.329	1.357	2.0%	1.193	1.242	1.261
2009	2.7%	1.224	1.294	1.320	1.8%	1.172	1.220	1.237
2010	2.0%	1.200	1.269	1.288	1.4%	1.156	1.203	1.216
2011	2.0%	1.176	1.243	1.262	1.5%	1.139	1.186	1.199
2012	2.2%	1.151	1.217	1.237	1.5%	1.122	1.168	1.181
2013	2.1%	1.127	1.191	1.211	1.8%	1.102	1.147	1.163
2014	2.0%	1.105	1.168	1.185	1.8%	1.083	1.127	1.142
2015	1.9%	1.084	1.146	1.163	1.6%	1.066	1.110	1.123
2016	1.7%	1.066	1.127	1.141	1.5%	1.050	1.093	1.106
2017	1.7%	1.048	1.108	1.122	1.5%	1.034	1.076	1.089
2018	2.2%	1.025	1.084	1.102	1.6%	1.018	1.060	1.072
2019	2.5%	1.000	1.057	1.077	1.8%	1.000	1.041	1.055

Notes

- a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.
- b The average annual changes in Premium for projection purposes are 2.5% and 1.8% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2019 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/1/2021 (i.e., 6 months beyond an assumed revision date of 7/1/2020), by applying a factor of $(1.025)^{(27/12)}$ for Buildings and $(1.018)^{(27/12)}$ for Contents.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

<u>Year</u>	<u>Earning Factors (All Years)</u>
n-2	1/32
n-1	11/16
n	9/32

For example, the factors used to adjust earned exposures for the period from 01/01/2019 to 12/31/2019 to the projected level are 1.077 for Buildings and 1.055 for Contents.

PREMIUM TREND - BASIC GROUP II - OTHER THAN SOUTHEAST
DEVELOPMENT OF CURRENT AND PROJECTED EARNED PREMIUM FACTORS

	Buildings				Contents			
	(1) ^a Annual Written <u>Increase</u>	(2) ^a 7/1/2019 Written <u>Factors</u>	(3) ^b 10/1/2021 Projected <u>Factors</u>	(4) ^c 10/1/2021 Earned <u>Factors</u>	(5) ^a Annual Written <u>Increase</u>	(6) ^a 7/1/2019 Written <u>Factors</u>	(7) ^b 10/1/2021 Projected <u>Factors</u>	(8) ^c 10/1/2021 Earned <u>Factors</u>
Year	2.9%	1.265	1.331	1.360	1.8%	1.197	1.243	1.260
2007	2.9%	1.265	1.331	1.360	1.8%	1.197	1.243	1.260
2008	2.6%	1.233	1.298	1.323	1.8%	1.176	1.221	1.238
2009	2.4%	1.204	1.267	1.290	1.7%	1.156	1.201	1.216
2010	1.9%	1.182	1.244	1.262	1.3%	1.141	1.185	1.197
2011	1.9%	1.160	1.221	1.238	1.4%	1.125	1.168	1.181
2012	2.0%	1.137	1.197	1.215	1.4%	1.109	1.152	1.164
2013	1.9%	1.116	1.175	1.192	1.6%	1.092	1.134	1.147
2014	1.9%	1.095	1.152	1.169	1.6%	1.075	1.117	1.130
2015	1.7%	1.077	1.134	1.148	1.4%	1.060	1.101	1.113
2016	1.6%	1.060	1.116	1.130	1.4%	1.045	1.085	1.097
2017	1.6%	1.043	1.098	1.112	1.4%	1.031	1.071	1.082
2018	2.0%	1.023	1.077	1.093	1.4%	1.017	1.056	1.067
2019	2.3%	1.000	1.052	1.071	1.7%	1.000	1.039	1.052

Notes

- a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.
- b The average annual changes in Premium for projection purposes are 2.3% and 1.7% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2019 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/1/2021 (i.e., 6 months beyond an assumed revision date of 7/1/2020), by applying a factor of $(1.023)^{(27/12)}$ for Buildings and $(1.017)^{(27/12)}$ for Contents.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

<u>Year</u>	<u>Earning Factors (All Years)</u>
n-2	1/32
n-1	11/16
n	9/32

For example, the factors used to adjust earned exposures for the period from 01/01/2019 to 12/31/2019 to the projected level are 1.071 for Buildings and 1.052 for Contents.

PREMIUM TREND - SPECIAL CAUSES OF LOSS
DEVELOPMENT OF CURRENT AND PROJECTED EARNED PREMIUM FACTORS

Year	Buildings				Contents			
	(1) ^a Annual Written Increase	(2) ^a 7/1/2019 Written Factors	(3) ^b 10/1/2021 Projected Factors	(4) ^c 10/1/2021 Earned Factors	(5) ^a Annual Written Increase	(6) ^a 7/1/2019 Written Factors	(7) ^b 10/1/2021 Projected Factors	(8) ^c 10/1/2021 Earned Factors
2007	3.0%	1.275	1.345	1.375	1.6%	1.165	1.202	1.217
2008	2.7%	1.241	1.309	1.336	1.6%	1.147	1.183	1.197
2009	2.5%	1.211	1.277	1.301	1.4%	1.131	1.167	1.179
2010	1.9%	1.188	1.253	1.271	1.1%	1.119	1.155	1.164
2011	1.9%	1.166	1.230	1.247	1.2%	1.106	1.141	1.151
2012	2.1%	1.142	1.205	1.224	1.2%	1.093	1.128	1.138
2013	2.0%	1.120	1.181	1.199	1.4%	1.078	1.112	1.124
2014	1.9%	1.099	1.159	1.176	1.4%	1.063	1.097	1.108
2015	1.8%	1.080	1.139	1.154	1.2%	1.050	1.083	1.094
2016	1.6%	1.063	1.121	1.135	1.2%	1.038	1.071	1.080
2017	1.6%	1.046	1.103	1.117	1.2%	1.026	1.059	1.068
2018	2.1%	1.024	1.080	1.097	1.2%	1.014	1.046	1.056
2019	2.4%	1.000	1.055	1.074	1.4%	1.000	1.032	1.042

Notes

- a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.
- b The average annual changes in Premium for projection purposes are 2.4% and 1.4% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2019 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/1/2021 (i.e., 6 months beyond an assumed revision date of 7/1/2020), by applying a factor of $(1.024)^{(27/12)}$ for Buildings and $(1.014)^{(27/12)}$ for Contents.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

<u>Year</u>	<u>Earning Factors (All Years)</u>
n-2	1/32
n-1	11/16
n	9/32

For example, the factors used to adjust earned exposures for the period from 01/01/2019 to 12/31/2019 to the projected level are 1.074 for Buildings and 1.042 for Contents.

INDIANA

BASIC GROUP I
 ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT % ----- BUILDINGS CONTENTS TIME ELEMENT		
2015	26,850,358	34,606,324	1.289	73.9%	19.6%	6.5%
2016	33,900,926	42,616,749	1.257	77.2%	18.4%	4.4%
2017	31,101,856	37,785,382	1.215	79.2%	19.8%	1.0%
2018	26,635,621	31,290,594	1.175	80.5%	16.0%	3.5%
2019	23,344,856	26,189,479	1.122	79.4%	18.2%	2.4%

INDIANA

BASIC GROUP II
 ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT % ----- BUILDINGS CONTENTS TIME ELEMENT		
2010	7,369,872	10,156,221	1.378	89.2%	8.2%	2.6%
2011	36,089,445	48,793,482	1.352	94.7%	4.7%	0.6%
2012	46,919,676	62,586,259	1.334	96.4%	2.6%	1.0%
2013	17,045,055	22,304,604	1.309	87.0%	9.3%	3.7%
2014	37,950,770	49,071,128	1.293	93.8%	5.4%	0.8%
2015	9,947,358	12,354,169	1.242	94.6%	4.5%	0.9%
2016	22,472,873	27,311,897	1.215	94.1%	4.4%	1.5%
2017	21,413,020	25,372,433	1.185	96.0%	2.3%	1.7%
2018	18,476,442	21,008,091	1.137	96.9%	1.3%	1.8%
2019	26,293,905	29,189,965	1.110	90.0%	9.1%	0.9%

INDIANA

SPECIAL CAUSES OF LOSS
 ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT % ----- BUILDINGS CONTENTS TIME ELEMENT		
2015	12,559,522	15,353,473	1.222	57.7%	33.2%	9.1%
2016	9,259,873	11,205,069	1.210	65.2%	30.0%	4.8%
2017	8,504,284	10,061,096	1.183	68.0%	31.0%	1.0%
2018	16,538,021	18,941,036	1.145	77.7%	20.7%	1.6%
2019	21,417,514	23,643,618	1.104	76.6%	21.3%	2.1%

BASIC GROUP I
 INCURRED LOSSES
 LOSS YEARS 2010-2019
 EVALUATED AS OF 12/2019

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2010	865,481,159	855,319,678	839,863,518	829,304,653	818,703,255
9/30/2011	964,962,902	955,846,856	928,394,589	920,666,826	919,985,220
9/30/2012	840,606,177	828,507,453	815,954,902	808,001,432	805,745,620
9/30/2013	884,389,865	871,681,340	869,278,507	859,931,768	848,400,299
9/30/2014	921,508,046	911,506,120	898,806,207	887,099,209	886,096,407
9/30/2015	825,096,305	802,285,646	794,615,718	792,133,010	789,137,015
9/30/2016	812,742,576	807,987,244	791,339,609	792,183,797	
9/30/2017	922,902,860	895,124,571	876,898,169		
9/30/2018	1,075,229,403	1,029,409,663			
9/30/2019	982,724,403				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2010	0.988	0.982	0.987	0.987
9/30/2011	0.991	0.971	0.992	0.999
9/30/2012	0.986	0.985	0.990	0.997
9/30/2013	0.986	0.997	0.989	0.987
9/30/2014	0.989	0.986	0.987	0.999
9/30/2015	0.972	0.990	0.997	0.996
9/30/2016	0.994	0.979	1.001	
9/30/2017	0.970	0.980		
9/30/2018	0.957			
5 POINT AVERAGE	0.976	0.986	0.993	0.996

<u>DEVELOPMENT FACTORS TO ULTIMATE</u>	
15 MONTHS TO ULTIMATE =	0.952
27 MONTHS TO ULTIMATE =	0.975
39 MONTHS TO ULTIMATE =	0.989
51 MONTHS TO ULTIMATE =	0.996

BASIC GROUP II
 INCURRED LOSSES
 LOSS YEARS 2010-2019
 EVALUATED AS OF 12/2019

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2010	564,496,665	575,966,001	576,474,943	577,477,255	578,453,137
9/30/2011	1,288,435,394	1,335,620,698	1,346,215,721	1,359,441,795	1,373,597,038
9/30/2012	782,406,384	827,966,862	848,941,038	857,107,395	863,561,268
9/30/2013	753,973,749	775,589,397	786,389,031	794,658,111	802,228,071
9/30/2014	585,822,484	605,470,213	618,436,032	630,759,236	635,377,134
9/30/2015	426,755,195	453,969,713	457,569,395	462,166,222	467,368,191
9/30/2016	664,392,014	700,991,829	713,716,909	719,733,793	
9/30/2017	762,372,101	809,456,943	839,424,047		
9/30/2018	607,350,847	653,670,480			
9/30/2019	693,004,931				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2010	1.020	1.001	1.002	1.002
9/30/2011	1.037	1.008	1.010	1.010
9/30/2012	1.058	1.025	1.010	1.008
9/30/2013	1.029	1.014	1.011	1.010
9/30/2014	1.034	1.021	1.020	1.007
9/30/2015	1.064	1.008	1.010	1.011
9/30/2016	1.055	1.018	1.008	
9/30/2017	1.062	1.037		
9/30/2018	1.076			
5 POINT AVERAGE	1.058	1.020	1.012	1.009

<u>DEVELOPMENT FACTORS TO ULTIMATE</u>	
15 MONTHS TO ULTIMATE =	1.102
27 MONTHS TO ULTIMATE =	1.042
39 MONTHS TO ULTIMATE =	1.021
51 MONTHS TO ULTIMATE =	1.009

SPECIAL CAUSES OF LOSS
 INCURRED LOSSES
 LOSS YEARS 2010-2019
 EVALUATED AS OF 12/2019

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2010	656,501,184	651,258,903	644,477,397	643,313,856	642,097,676
9/30/2011	742,118,914	729,630,986	721,925,191	719,024,730	718,473,627
9/30/2012	385,226,079	375,856,226	372,811,523	373,685,638	373,306,707
9/30/2013	410,490,990	404,364,712	395,603,662	396,586,751	397,164,464
9/30/2014	651,231,988	644,455,936	643,279,785	642,031,583	640,298,050
9/30/2015	589,546,177	586,259,266	584,563,254	585,981,912	592,178,059
9/30/2016	367,408,516	378,036,772	381,889,020	382,851,004	
9/30/2017	408,099,310	409,048,697	420,223,801		
9/30/2018	550,154,365	545,813,688			
9/30/2019	504,967,633				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2010	0.992	0.990	0.998	0.998
9/30/2011	0.983	0.989	0.996	0.999
9/30/2012	0.976	0.992	1.002	0.999
9/30/2013	0.985	0.978	1.002	1.001
9/30/2014	0.990	0.998	0.998	0.997
9/30/2015	0.994	0.997	1.002	1.011
9/30/2016	1.029	1.010	1.003	
9/30/2017	1.002	1.027		
9/30/2018	0.992			
5 POINT AVERAGE	1.001	1.002	1.001	1.001

<u>DEVELOPMENT FACTORS TO ULTIMATE</u>	
15 MONTHS TO ULTIMATE =	1.005
27 MONTHS TO ULTIMATE =	1.004
39 MONTHS TO ULTIMATE =	1.002
51 MONTHS TO ULTIMATE =	1.001

COUNTRYWIDE BASIC GROUP I EXCESS LOSS FACTORS
BY CONSTRUCTION, PROTECTION AND EXPOSURE

		Amount of Insurance *										
		1	2	3	4	5	6	7	8	9	10	11
Const. 1-3	Prot. 1-4	1.000	1.064	1.133	1.206	1.284	1.366	1.454	1.548	1.648	1.754	1.867
	Prot. 5-7	1.000	1.082	1.170	1.266	1.369	1.482	1.603	1.734	1.876	2.029	2.195
	Prot. 8-10	1.000	1.063	1.130	1.202	1.277	1.358	1.444	1.535	1.632	1.735	1.844

		Amount of Insurance *										
		1	2	3	4	5	6	7	8	9	10	11
Const. 4-6	Prot. 1-4	1.000	1.052	1.107	1.164	1.225	1.289	1.356	1.427	1.501	1.579	1.661
	Prot. 5-7	1.000	1.069	1.143	1.222	1.307	1.397	1.494	1.598	1.708	1.827	1.953
	Prot. 8-10	1.000	1.051	1.104	1.160	1.219	1.281	1.346	1.414	1.486	1.562	1.641

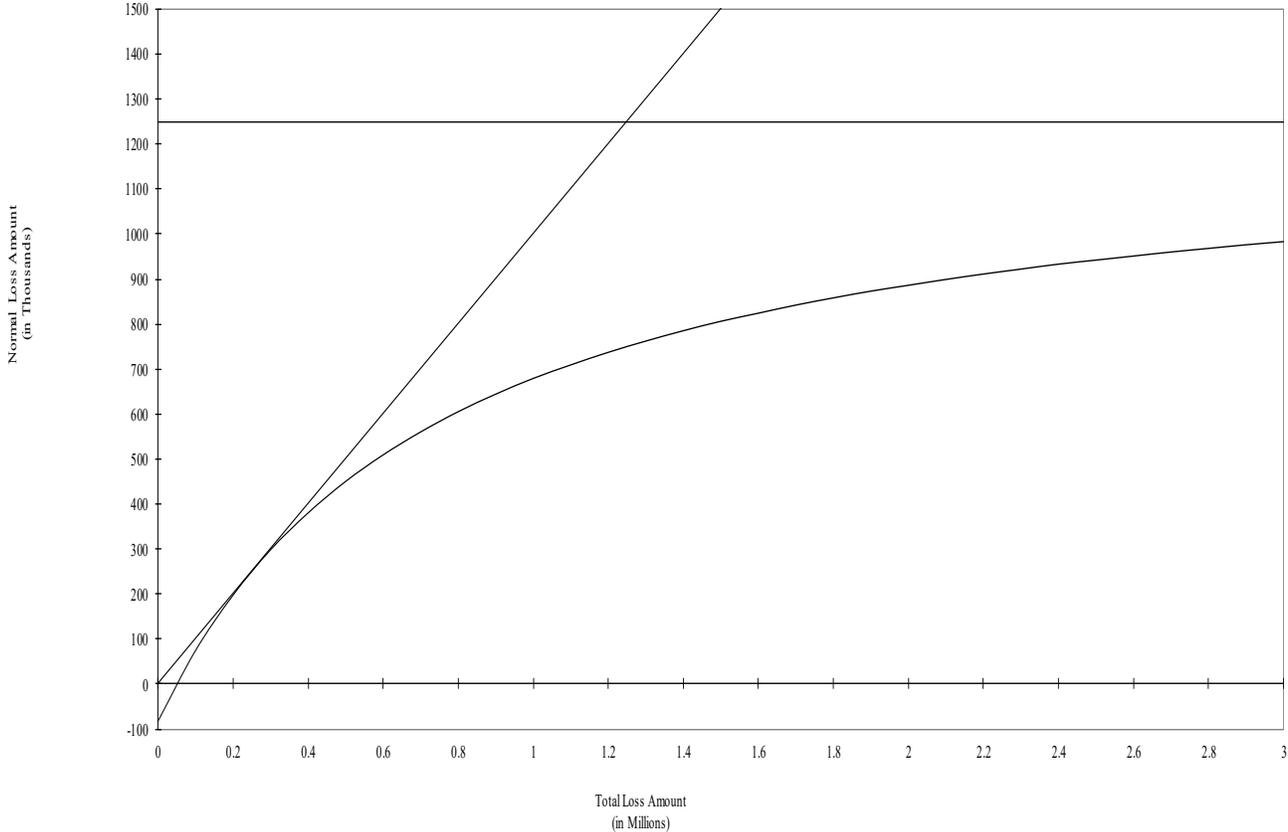
* Amount of
Insurance

Intervals

- 1 0-450,000
- 2 450,001-500,000
- 3 500,001-700,000
- 4 700,001-1,000,000
- 5 1,000,001-1,500,000
- 6 1,500,001-2,500,000
- 7 2,500,001-3,500,000
- 8 3,500,001-5,500,000
- 9 5,500,001-7,500,000
- 10 7,500,001-10,000,000
- 11 10,000,001 and over

Countrywide Basic Group I
Normal vs. Total Loss Amount

$$\text{Normal Loss} = \$1,250,000 \times (1 - (\$800,000 \div (\text{Total Loss} + \$750,000)))$$



INDIANA

BASIC GROUP I
ADDITIONAL EXCESS LOSS INFORMATION

YEAR	(1) TRENDED INCURRED LOSSES	(2) TRENDED NORMAL LOSSES	(3) STATE NORMAL % (2)/(1)	(4) MULTI- STATE NORMAL % %	(5) ADJUSTED INCURRED LOSSES	(6) STATE AVERAGE EXCESS FACTOR (5)/(2)
2015	34,606,324	26,787,615	77.4%	72.8%	38,964,247	1.455
2016	42,616,749	32,682,722	76.7%	72.2%	47,827,959	1.463
2017	37,785,382	26,725,073	70.7%	72.5%	37,023,431	1.385
2018	31,290,594	25,402,286	81.2%	67.6%	38,699,288	1.523
2019	26,189,479	21,159,677	80.8%	67.2%	30,201,784	1.427

INDIANA
DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

YEAR	(1)	(2)	(3)	(4)	(5)	(6)
	EARNED PREMIUMS	INCURRED LOSSES	NORMAL INCURRED LOSSES	NORMAL LOSS RATIO	STATE EXCESS LOSS RATIO	REGIONAL EXCESS LOSS RATIO
1950	2,398,131	1,028,668	1,028,668	0.429		-
1951	2,756,215	865,067	865,067	0.314		-
1952	3,112,191	919,470	919,470	0.295		-
1953	3,189,182	1,214,970	1,214,970	0.381		-
1954	3,417,608	1,454,520	1,454,520	0.426		-
1955	3,567,171	2,300,207	2,300,207	0.645		-
1956	3,754,951	1,769,695	1,769,695	0.471		-
1957	3,988,573	2,042,759	2,042,759	0.512		-
1958	3,870,767	1,226,741	1,226,741	0.317		-
1959	3,970,915	1,434,184	1,434,184	0.361		-
1960	4,093,946	1,742,800	1,742,800	0.426		-
1961	4,109,322	2,582,139	2,582,139	0.628		-
1962	4,070,828	2,242,402	2,242,402	0.551		-
1963	3,777,065	3,196,291	2,768,589	0.733	0.108	0.005
1964	3,469,245	2,418,476	2,418,476	0.697		-
1965	3,224,573	5,724,455	2,363,612	0.733	0.707	0.335
1966	2,989,700	937,523	937,523	0.314		-
1967	2,989,512	1,764,644	1,764,644	0.590		-
1968	2,874,200	1,924,915	1,924,915	0.670		-
1969	3,208,793	1,109,496	1,109,496	0.346		-
1970	4,776,409	1,497,329	1,497,329	0.313		-
1971	5,135,353	2,249,176	2,249,176	0.438		-
1972	5,713,825	1,452,113	1,452,113	0.254		-
1973	5,812,663	2,096,590	2,096,590	0.361		-
1974	6,239,638	13,568,817	4,573,655	0.733	0.871	0.571
1975	7,488,246	3,440,852	3,440,852	0.460		-
1976	8,577,228	3,453,534	3,453,534	0.403		-
1977	9,992,177	3,204,918	3,204,918	0.321		-
1978	10,899,962	8,741,614	7,989,672	0.733	0.067	0.002
1979	10,855,313	5,504,983	5,504,983	0.507		-
1980	10,265,571	6,969,494	6,939,821	0.676	0.003	-
1981	9,983,098	4,399,399	4,399,399	0.441		-
1982	9,633,600	12,051,157	9,443,585	0.980	0.249	0.022
1983	9,994,848	5,180,350	5,180,350	0.518		-
1984	10,279,296	4,973,053	4,912,259	0.478	0.006	-
1985	13,072,920	4,205,543	4,205,543	0.322		-
1986	17,048,844	4,900,991	4,900,991	0.287		-
1987	16,663,887	5,284,747	5,284,747	0.317		-
1988	14,778,270	4,165,772	4,165,772	0.282		-
1989	11,558,043	7,174,849	6,038,733	0.522	0.093	0.006
1990	10,963,128	5,005,495	4,895,502	0.447	0.010	-
1991	10,922,442	4,081,829	4,081,829	0.374		-
1992	11,068,086	4,416,143	4,416,143	0.399		-

INDIANA
DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

	(1)	(2)	(3)	(4)	(5)	(6)
YEAR	EARNED PREMIUMS	INCURRED LOSSES	NORMAL INCURRED LOSSES	NORMAL LOSS RATIO	STATE EXCESS LOSS RATIO	REGIONAL EXCESS LOSS RATIO
1993	11,002,188	2,554,141	2,554,141	0.232		-
1994	11,000,553	2,971,851	2,971,851	0.270		-
1995	11,564,604	3,207,864	3,207,864	0.277		-
1996	10,313,760	11,419,235	7,441,278	0.721	0.313	0.073
1997	9,879,609	5,957,191	5,957,191	0.603		-
1998	9,527,202	7,798,436	7,075,020	0.743	0.073	0.003
1999	12,027,804	9,107,217	7,254,967	0.603	0.141	0.013
2000	14,161,623	13,609,237	8,326,415	0.588	0.304	0.069
2001	16,146,732	12,375,415	10,458,996	0.648	0.111	0.007
2002	18,547,314	22,554,153	10,309,004	0.556	0.473	0.187
2003	18,643,470	5,447,472	5,447,472	0.292		-
2004	21,837,315	12,836,930	9,388,696	0.430	0.144	0.014
2005	22,827,306	7,675,183	7,675,183	0.336		-
2006	21,553,560	43,925,517	13,248,915	0.615	0.770	0.653
2007	21,198,558	13,953,413	12,772,441	0.603	0.054	0.001
2009	39,245,328	49,922,435	46,027,092	1.173	0.095	0.004
2010	21,962,528	7,369,872	7,369,872	0.336		-
2011	21,354,283	36,089,445	19,264,288	0.902	0.557	0.231
2012	22,517,911	46,919,676	25,855,885	1.148	0.729	0.207
2013	24,238,128	17,045,055	15,030,060	0.620	0.079	0.004
2014	26,474,059	37,950,770	16,935,685	0.640	0.589	0.205
2015	28,012,865	9,947,358	9,947,358	0.355		-
2016	29,135,131	22,472,873	22,472,873	0.771		-
2017	31,378,774	21,413,020	21,383,914	0.681	0.001	-
2018	32,069,004	18,476,442	15,370,053	0.479	0.092	0.005
2019	32,791,561	26,293,905	23,473,607	0.716	0.082	0.004
TOTALS	839,966,905	625,212,276	475,658,494	35.743	6.721	2.621

(7) STATE EXCESS COMPONENT = (SELR / NLR) = 0.188

(8) REGIONAL EXCESS COMPONENT = 0.077

(9) STATE EXCESS MULTIPLIER = (1+SEC) * (1+REC) = 1.279

INDIANA
DEVELOPMENT OF SPECIAL CAUSES OF LOSS EXCESS MULTIPLIER

YEAR	(1)	(2)	(3)	(4)	(5)
	EARNED PREMIUMS	INCURRED LOSSES	NORMAL INCURRED LOSSES	NORMAL LOSS RATIO	STATE EXCESS LOSS RATIO
1986	6,234,270	2,634,326	2,634,326	0.423	
1987	6,651,486	3,650,216	3,650,216	0.549	
1988	6,668,910	4,566,761	4,566,761	0.685	
1989	6,642,531	4,311,321	4,311,321	0.649	
1990	8,298,999	7,904,078	7,084,450	0.854	0.098
1991	9,894,324	6,253,004	6,253,004	0.632	
1992	10,691,481	5,968,492	5,968,492	0.558	
1993	11,028,798	6,337,558	6,337,558	0.575	
1994	10,414,494	7,642,903	6,485,184	0.623	0.111
1995	9,902,886	6,220,196	6,220,196	0.628	
1996	9,236,547	8,844,892	8,076,047	0.874	0.084
1997	10,065,018	12,444,704	10,069,747	1.000	0.236
1998	9,241,296	7,655,282	7,655,282	0.828	
1999	11,121,372	16,328,083	8,902,691	0.801	0.667
2000	14,128,473	11,989,319	11,989,319	0.849	
2001	16,449,555	23,251,366	18,518,279	1.126	0.287
2002	21,333,120	12,426,632	11,823,570	0.554	0.029
2003	27,701,685	8,523,368	8,523,368	0.308	
2004	30,872,163	11,661,851	11,661,851	0.378	
2005	29,677,722	19,141,648	16,480,909	0.555	0.090
2006	28,299,336	13,811,387	13,811,387	0.488	
2007	27,058,191	14,835,947	14,835,947	0.548	
2008	24,166,017	14,940,199	14,940,199	0.618	
2009	26,601,864	19,518,477	18,497,958	0.695	0.039
2010	26,779,677	11,492,698	11,492,698	0.429	
2011	26,539,779	19,588,905	16,824,136	0.634	0.104
2012	26,412,087	9,839,463	9,839,463	0.373	
2013	27,766,353	11,178,769	11,178,769	0.403	
2014	28,079,298	26,698,722	18,798,859	0.669	0.282
2015	29,251,463	12,559,522	12,559,522	0.429	
2016	28,971,639	9,259,873	9,259,873	0.320	
2017	28,343,649	8,504,284	8,504,284	0.300	
2018	28,146,309	16,538,021	16,538,021	0.588	
2019	27,812,139	21,417,514	20,088,124	0.722	0.048
TOTALS		397,939,781	364,381,811	20.665	2.075
COMPONENT = (SELR / NLR)	=			0.100	
MULTIPLIER = (SELR / NLR)	=			1.100	

INDIANA
BASIC GROUP I STATEWIDE CREDIBILITY CALCULATION

(1a) FULL CREDIBILITY CLAIMS STANDARD FOR FREQUENCY WITH (P,K) = (95.00% , 5.00%)	1,537
(1b) SEVERITY MODIFICATION FACTOR	8.628
(1c) FULL CREDIBILITY CLAIMS STANDARD ADJUSTED FOR SEVERITY ((1a) X (1b))	13,261
(2) MULTISTATE FIVE YEAR RATIO OF EARNED RISKS TO CLAIMS	358.101
(3) FULL CREDIBILITY EARNED RISKS STANDARD (1c)X(2)	4,748,777
(4) FIVE YEAR STATEWIDE EARNED RISKS	764,291
(5) FIVE YEAR AGGREGATE LOSS COSTS	193,777,171
(6) AGGREGATE LOSS COSTS PER EARNED RISK (5)/(4)	253.538
(7) AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	1,203,995,423
(8) STATEWIDE CREDIBILITY ((5)/(7))**(.5)	40.1%

INDIANA
BASIC GROUP II STATEWIDE CREDIBILITY CALCULATION

(1) FULL CREDIBILITY CLAIMS STANDARD	30,000
(2) MULTISTATE TEN YEAR RATIO OF EARNED RISKS TO CLAIMS	145.503
(3) FULL CREDIBILITY EARNED RISKS STANDARD (1)X(2)	4,365,090
(4) TEN YEAR STATEWIDE EARNED RISKS	1,551,209
(5) TEN YEAR AGGREGATE LOSS COSTS	324,109,415
(6) AGGREGATE LOSS COSTS PER EARNED RISK (5)/(4)	208.940
(7) AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	912,041,905
(8) STATEWIDE CREDIBILITY ((5)/(7))**(.5)	59.6%

INDIANA
SPECIAL CAUSES OF LOSS STATEWIDE CREDIBILITY CALCULATION

(1) FULL CREDIBILITY CLAIMS STANDARD	25,000
(2) MULTISTATE FIVE YEAR RATIO OF EARNED RISKS TO CLAIMS	203.618
(3) FULL CREDIBILITY EARNED RISKS STANDARD (1)X(2)	5,090,450
(4) FIVE YEAR STATEWIDE EARNED RISKS	755,557
(5) FIVE YEAR AGGREGATE LOSS COSTS	95,242,836
(6) AGGREGATE LOSS COSTS PER EARNED RISK (5)/(4)	126.056
(7) AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	641,681,765
(8) STATEWIDE CREDIBILITY ((5)/(7))**(.5)	38.5%

INDIANA
CALCULATION OF INDICATED BASIC GROUP II LOSS COSTS

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			ACCIDENT YEAR			STATEWIDE	INDICATED		INDICATED	INDICATED
			ENDING 09/30/2019	CURRENT	NON-HURR	MONOLINE	NON-HURR.	HURRICANE	TOTAL	PERCENT
			BG II AGG.	CURRENT	NON-HURR	NON-HURR.	LOSS COST	MODELED	LOSS COST	CHANGE
TERRITORY	COVERAGE	SYMBOL	LOSS COSTS	LOSS COST	LOSS COST	CHANGE	(3) * (4)	LOSS COST	(5) + (6)	(7)/(2) - 1
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EXHIBIT C25 DOES NOT EXIST FOR NON-HURRICANE STATES

BASIC GROUP I RATING GROUP DEFINITIONSTHE FOLLOWING CSP CLASSES COMPRISE THE BASIC GROUP I RATING GROUPS01 APARTMENTS

- 0311 Apartments without Mercantile Occupancies - Up to 10 Units
- 0312 Apartments without Mercantile Occupancies - 11 to 30 Units
- 0313 Apartments without Mercantile Occupancies - Over 30 Units
- 0321 Apartments with Mercantile Occupancies - Up to 10 Units
- 0322 Apartments with Mercantile Occupancies - 11 to 30 Units
- 0323 Apartments with Mercantile Occupancies - Over 30 Units
- 0331 Residential Condominiums without Mercantile Occupancies - Up to 10 Units
- 0332 Residential Condominiums without Mercantile Occupancies - 11 to 30 Units
- 0333 Residential Condominiums without Mercantile Occupancies - Over 30 Units
- 0341 Residential Condominiums with Mercantile Occupancies - Up to 10 Units
- 0342 Residential Condominiums with Mercantile Occupancies - 11 to 30 Units
- 0343 Residential Condominiums with Mercantile Occupancies - Over 30 Units

02 OTHER HABITATIONAL

- 0074 Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories - Up to 10 Units
- 0075 Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories - 11 to 30 Units
- 0076 Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories - Over 30 Units
- 0077 Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes - Up to 10 Units
- 0078 Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes - 11 to 30 Units
- 0079 Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes - Over 30 Units
- 0196 Dwellings Written in Conjunction with Commercial Risks from the Commercial Lines Manual - 1 Family
- 0197 Dwellings Written in Conjunction with Commercial Risks from the Commercial Lines Manual - 2 Family
- 0198 Dwellings Written in Conjunction with Commercial Risks from the Commercial Lines Manual - 3 and 4 Family
- 0300 Large Area Housing Developments (Special Rating Treatment)

03 RESTAURANTS & BARS

- 0541 Bars and Taverns
- 0542 Restaurants with Commercial Cooking
- 0545 Restaurants with Limited Cooking

BASIC GROUP I RATING GROUP DEFINITIONS04 OTHER MERCANTILES

- 0431 Sole Occupancy Mercantile, Over 15,000 Square Feet, Building Coverage, Other than Food Risks
- 0432 Sole Occupancy Mercantile, Over 15,000 Square Feet, Food Risks, Buildings and Personal Property
- 0433 Multiple Occupancy Mercantile, Over 15,000 Square Feet, Building Coverage Only, Not Fire Class Rated
- 0434 Multiple Occupancy Mercantile, Less than 15,000 Square Feet, Building Coverage Only, Not Fire Class Rated
- 0511 Risks Having Low Susceptibility Personal Property, NOC
- 0512 Tire, Battery and Accessory Dealers Without Tire Recapping and Vulcanizing
- 0520 Wearing Apparel, Textiles, Shoes
- 0531 Alcoholic Beverages other than Bars
- 0532 Food Products including Retail Bakeries (no baking and no cooking on premises; sales only); Beverages other than Alcoholic
- 0533 Retail Bakeries - Baking on Premises (No delivery to other outlets)
- 0534 Food Products with Limited Cooking, Excluding Bakeries
- 0550 Motor Vehicle (Auto, Aircraft, Marine) Sales, No Repair
- 0561 Boat and Marine Supply Dealers
- 0562 Drugs
- 0563 Electrical Goods, Hardware and Machinery
- 0564 Furniture and Home Furnishings other than Appliances
- 0565 Jewelry
- 0566 Sporting Goods
- 0567 Risks Having Moderate Susceptibility Personal Property, NOC
- 0570 Risks Having High Susceptibility Personal Property, NOC
- 0580 Greenhouses
- 0581 Multiple Occupancy Mercantile, Fire Class Rated, without furniture Occupant
- 0582 Multiple Occupancy Mercantile, Fire Class Rated, with furniture Occupant

05 PUBLIC BUILDINGS

- 0701 Governmental Offices
- 1000 Penal Institutions
- 1051 Museums, Libraries, Art Galleries (non-profit)
- 1070 Other Public Buildings, Fire Dept., Police, Water/Sewer

06 CHURCHES

- 0900 Churches and Synagogues

07 SCHOOLS

- 1052 Schools, Academic

BASIC GROUP I RATING GROUP DEFINITIONS08 OFFICE AND BANKS

0702 Non-Governmental Offices and Banks

09 RECREATIONAL FACILITIES

0755 Golf Clubs, Tennis Clubs and Similar Sports Facilities with Cooking
0756 Golf Clubs, Tennis Clubs and Similar Sports Facilities without Cooking
0757 Clubs, NOC, Including Fraternal and Union Halls
0831 Motion Picture Studios
0832 Theaters
0833 Drive-in Theaters
0834 Skating Rinks--Roller Rinks
0841 Bowling Alleys
0843 Halls and Auditoriums
0844 Recreational Facilities, NOC
0845 Boys' and Girls' Camps
0846 Dance Halls, Ballrooms & Discotheques
0951 Gambling Casinos with Restaurants
0952 Gambling Casinos without Restaurants

10 HOTELS & MOTELS

0742 Motels and Hotels with Restaurant - Up to 10 Units
0743 Motels and Hotels with Restaurant - 11 to 30 Units
0744 Motels and Hotels with Restaurant - Over 30 Units
0745 Motels and Hotels without Restaurant - Up to 10 Units
0746 Motels and Hotels without Restaurant - 11 to 30 Units
0747 Motels and Hotels without Restaurant - Over 30 Units

BASIC GROUP I RATING GROUP DEFINITIONS

11 HOSPITALS & NURSING HOMES

- 0851 Hospitals
- 0852 Nursing and Convalescent Homes

12 BUILDINGS UNDER CONSTRUCTION

- 1150 Buildings Under Construction

13 MOTOR VEHICLE RISKS

- 0931 Auto Parking Garages, Car Washes
- 0932 Gasoline Service Stations
- 0933 Aircraft Hangars with Repairing, Motor Vehicle Repairing Including Auto Body Shops, with or without Sales
- 0934 Tire Recapping and Vulcanizing with or without Sales
- 0940 Aircraft Hangars without Repairing

14 OTHER NON-MANUFACTURING

- 0911 Dry Cleaner and Dyeing Plants, other than Self-Service
- 0912 Laundries, other than Self-Service
- 0913 Self-Service Laundries and Dry Cleaners
- 0921 Light Hazard Service Occupancies
- 0922 Services Occupancies, Other than Light Hazard, NOC
- 0923 Funeral Homes
- 1180 Vacant Buildings
- 1185 Billboards and Signs
- 1190 Yard Property, NOC, Including Property in the Open

BASIC GROUP I RATING GROUP DEFINITIONS15 STORAGE

- 1200 Piers, Wharves, Bridges
- 1211 Freight Terminals
- 1212 General Storage Warehouses - Bailee
- 1213 Miscellaneous Products Storage - (other than Retail or Wholesale or Cold Storage)
- 1220 Household Goods Storage
- 1230 Cold Storage Warehouses
- 1251 Farm Products (other than Grain, Cotton, Tobacco)
- 1252 Grain, Seed, Bean Warehouses
- 1300 Cotton Compresses and Storage
- 1400 Waste and Reclaimed Material, including Yards
- 1450 Whiskey and Liquor Warehouses in Connection with Distilleries
- 1501 Tobacco Warehouses, Storage
- 1502 Tobacco Sales Warehouses
- 1550 Grain Elevators - Terminal
- 1610 Grain Elevators - Country
- 1650 Building Supply Yards, including Retail Lumberyards, Coal and Coke Yards
- 1700 Mill Yards
- 1751 Oil Distributing, Oil Terminals and LPG Tank Farms, Including Stock
- 1752 Oil Distributing, Oil Terminals and LPG Tank Farms, Excluding Stock

17 FOOD MANUFACTURING

- 2000 Dairy Products
- 2059 Meat, Poultry and Fish Products
- 2150 Grain Milling, Including Feed, Stock, Flour Mills
- 2200 Bakeries and Bakery Products
- 2250 Fruit, Nut and Vegetable Products
- 2300 Sugar, Molasses and Syrup Refining
- 2350 Beverages excluding Alcoholic Beverages
- 2400 Breweries
- 2459 Distilleries and Wineries
- 2550 Tobacco and Tobacco Products
- 2600 Food Products, NOC

BASIC GROUP I RATING GROUP DEFINITIONS18 WOOD MANUFACTURING

3809 Basic Wood Production including Veneer and Plywood Plants
3959 Furniture and Other Wood Products, NOC

19 WEARING APPAREL

2800 Textile Mill Products - Natural and Synthetic
3009 Clothing and Apparel including Furs and Finished Products

20 CHEMICAL MANUFACTURING

5000 Chemicals and Pharmaceuticals - Low Hazard
5050 Chemicals and Pharmaceuticals - Moderate Hazard
5100 Chemicals and Pharmaceuticals - High Hazard

21 METAL MANUFACTURING

6810 Heavy Metalworking including Basic Metalwork
6850 Metalworking, NOC

22 OTHER MANUFACTURING

2750 Cotton Gins
3409 Leather and Leather Products
4400 Paper Manufacturing
4450 Paper and Paper Products Processing
4809 Printing
5500 Plastic Products
5759 Rubber Products
6009 Stone, Glass, Concrete, Gypsum, Brick, Tile and Clay Products, Abrasives, Plaster and Other Mineral, NOC
6210 Mining Other than Coal
6250 Coal Mining
6900 Precision Products, Electronic, Radio and Television Manufacturing

SPECIAL CAUSES OF LOSS CATEGORY DEFINITIONSCATEGORY 01 - BUILDING AND TIME ELEMENT COVERAGECATEGORY 02 - APARTMENT AND CONDOMINIUM CONTENTS COVERAGECATEGORY 03 - OFFICE CONTENTS COVERAGECATEGORIES 04, 05, & 06 - MERCANTILE CONTENTS COVERAGE

An establishment in which the principal business is the retail or wholesale buying or selling of goods, wares and merchandise. Included are bars, grills and restaurants.

CATEGORY 04 - MERCANTILE CONTENTS COVERAGE (HIGH)

Occupancy classes 0511, 0520, 0550, 0562, 0566, 0567, 0581, 0702, 1180, 1185, 1190, 1200, 1211, 1212, 1213, 1251, 1300, 1400, 1751, or 1752

CATEGORY 05 - MERCANTILE CONTENTS COVERAGE (MEDIUM)

Occupancy classes not listed in Category 04 or Category 06

CATEGORY 06 - MERCANTILE CONTENTS COVERAGE (LOW)

Occupancy classes 0512, 0541, 0563, 0921, 0922, 0933, 0940, or 1230

CATEGORY 07 - MOTEL & HOTEL CONTENTS COVERAGE

Hotels, motels, motor inns, motor lodges, tourist courts and similar risks whose business is principally the providing of lodging accommodations for transients, including premises and operations necessary or incidental to such lodging accommodations.

CATEGORIES 08 & 09 - INSTITUTIONAL CONTENTS COVERAGE

An establishment principally occupied by an educational, religious, sanitary, charitable or governmental organization. It does not include buildings containing manufacturing of any kind, or sale, storage, processing, or repair of clothing or furniture, or paper or rag storage, or sorting or supplying of food or lodging to itinerants.

CATEGORY 08 - INSTITUTIONAL CONTENTS COVERAGE (HIGH)

Occupancy classes 0701, 0702, 0851, 0921, 1051, or 1052

SPECIAL CAUSES OF LOSS CATEGORY DEFINITIONSCATEGORY 09 - INSTITUTIONAL CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 08

CATEGORIES 10 & 11 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE

An establishment in which the principal activity is the manufacturing of goods and wares or processing of raw materials or finished goods.

CATEGORY 10 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE (HIGH)

Occupancy classes 1252, 1300, 1400, 1700, 2000, 2059, 2150, 2200, 2250, 2300, 2350, 2400, 2459, 2550, 2600, 2750, 2800, 2805, 3009, 3409, 3809, 3959, or 4400

CATEGORY 11 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 10

CATEGORIES 12 & 13 - SERVICE CONTENTS COVERAGE

An establishment in which the principal operation is the providing of a personal or commercial service. Included are establishments providing entertainment or recreation; warehousing of property of others; and automobile risks, such as service, repair or garaging of automobiles and parking lots.

CATEGORY 12 - SERVICE CONTENTS COVERAGE (HIGH)

Occupancy classes 0520, 0542, 0545, 0550, 0567, 0702, 0755, 0831, 0832, 0911, 0912, 0913, 0921, 0931, 0932, 0934, 1213, or 4809

CATEGORY 13 - SERVICE CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 12

CATEGORY 14 - CONTRACTOR CONTENTS COVERAGE

An establishment in which the principal operation is that of installation, construction, demolition or maintenance. This includes any owner/contractor, general contractor or sub-contractor whether or not he or she actually performs any part of such work or has employees on the site.

INDIANA

BASIC GROUP I

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
_____	_____	_____	_____
2015	34,728,987	26,850,358	0.773
2016	33,720,029	33,900,926	1.005
2017	32,012,089	31,101,856	0.972
2018	30,750,522	26,635,621	0.866
2019	30,423,446	23,344,856	0.767

INDIANA

BASIC GROUP II

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
_____	_____	_____	_____
2010	12,373,227	7,369,872	0.596
2011	12,022,042	36,089,445	3.002
2012	12,673,636	46,919,676	3.702
2013	13,644,270	17,045,055	1.249
2014	14,904,199	37,950,770	2.546
2015	15,773,525	9,947,358	0.631
2016	16,405,228	22,472,873	1.370
2017	17,671,573	21,413,020	1.212
2018	18,062,159	18,476,442	1.023
2019	18,468,714	26,293,905	1.424

INDIANA

SPECIAL CAUSES OF LOSS

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
2015	16,470,597	12,559,522	0.763
2016	16,313,341	9,259,873	0.568
2017	15,959,508	8,504,284	0.533
2018	15,848,592	16,538,021	1.044
2019	15,660,906	21,417,514	1.368

FIRE AND ALLIED LINES INSURANCE
COUNTRYWIDE LOSS ADJUSTMENT EXPENSE EXPERIENCE (A)

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Selected</u>
(1) Fire						
(a) Direct Losses Incurred	5,450,846	5,307,777	5,644,832	7,739,886	8,543,200	
(b) Direct Loss Adjustment Expense Incurred	540,167	520,780	542,464	690,846	665,515	
(2) Allied Lines						
(a) Direct Losses Incurred	4,509,891	4,774,035	6,405,557	17,874,571	10,232,771	
(b) Direct Loss Adjustment Expense Incurred	634,851	674,103	737,149	1,150,952	993,263	
(3) Loss Adjustment Expense as a Ratio to Losses						
(a) Fire (1b) / (1a)	9.9%	9.8%	9.6%	8.9%	7.8%	9.5%
(b) Allied Lines (2b) / (2a)	14.1%	14.1%	11.5%	6.4%	9.7%	11.5%

NOTE: All dollar amounts are displayed in thousands.

(A) Items (1) and (2) are based on Insurance Expense Exhibit information compiled by A. M. Best.

INDIANA
COMMERCIAL PROPERTY INSURANCE

SECTION E - REVISED LOSS COST PAGES

Basic Group II Loss Costs.....	E2
Special Causes of Loss Loss Costs.....	E3
Basic Group I Loss Costs.....	E4-14

70. CAUSES OF LOSS – BASIC FORM

E. Rating Procedure**2. Property Damage – Group II Causes Of Loss****e. Loss Costs**

- (1) Determine the Basic Group II symbol from the specific publication or from Rule **70.E.2.a**.
- (2) For Symbols **AA, A, AB** and **B** use the applicable rate.
- (3) For symbols with numerical prefixes, multiply the applicable rate by the prefix shown in Rule **70.E.2.a**.

Symbol	Buildings Loss Cost	Contents Loss Cost
AA	<u>.052-050</u>	<u>.071-069</u>
A	<u>.057-055</u>	<u>.080-077</u>
AB	<u>.072-070</u>	<u>.095-092</u>
B	<u>.087-084</u>	<u>.106-103</u>

72. CAUSES OF LOSS – SPECIAL FORM

E.2. Rating Procedure – Property Damage – Other than Builders' Risk

b.(1) Building Coverage – Loss Cost: .038

c.(2) Personal Property Coverage – Loss Costs

Occupancy Category	Loss Cost
Residential Apartments and Condominiums	.131.124
Offices	.103.098
Mercantile – High	.117.410
Mercantile – Medium	.105.400
Mercantile – Low	.092.087
Motels and Hotels	.068.064
Institutional – High	.035.029
Institutional – Low	.042.040
Industrial and Processing – High	.127.118
Industrial and Processing – Low	.121.108
Service – High	.094.088
Service – Low	.089.086
Contractors	.194.181
Territory (County)	Territorial Multiplier
Lake	1.356
Marion	1.331
Remainder of State	1.000

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85. BASIC GROUP I CLASS LOSS COSTS

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0074	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Up to 10 Units					
0075	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – 11 to 30 Units					
0076	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Over 30 Units					
0077	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Up to 10 Units					
0078	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – 11 to 30 Units					
0079	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Over 30 Units					
0196	1 Family Dwellings (Lessor's Risk)					
0197	2 Family Dwellings (Lessor's Risk)					
0198	3 or 4 Family Dwellings (Lessor's Risk)					
0311	Apartments without Mercantile Occupancies – Up to 10 Units					
0312	Apartments without Mercantile Occupancies – 11 to 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0074	Building (1)	0.162	0.146	0.128	0.105	0.097
	Contents (2)	0.163	0.146	0.138	0.122	0.114
0075	Building (1)	0.162	0.146	0.128	0.105	0.097
	Contents (2)	0.163	0.146	0.138	0.122	0.114
0076	Building (1)	0.162	0.146	0.128	0.105	0.097
	Contents (2)	0.163	0.146	0.138	0.122	0.114
0077	Building (1)	0.147	0.133	0.118	0.096	0.087
	Contents (2)	0.154	0.138	0.132	0.115	0.107
0078	Building (1)	0.147	0.133	0.118	0.096	0.087
	Contents (2)	0.154	0.138	0.132	0.115	0.107
0079	Building (1)	0.147	0.133	0.118	0.096	0.087
	Contents (2)	0.154	0.138	0.132	0.115	0.107
0196	Building (1)	0.099	0.090	0.080	0.066	0.059
	Contents (2)	0.111	0.099	0.095	0.083	0.077
0197	Building (1)	0.099	0.090	0.080	0.066	0.059
	Contents (2)	0.111	0.099	0.095	0.083	0.077
0198	Building (1)	0.099	0.090	0.080	0.066	0.059
	Contents (2)	0.111	0.099	0.095	0.083	0.077
0311	Building (1)	0.199	0.179	0.159	0.129	0.120
	Contents (2)	0.225	0.202	0.191	0.170	0.158
0312	Building (1)	0.199	0.179	0.159	0.129	0.120
	Contents (2)	0.225	0.202	0.191	0.170	0.158
Territory						Territorial Multiplier
Indianapolis						1.794
Balance of State (Indiana)						1.000

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0313	Apartments without Mercantile Occupancies – Over 30 Units					
0321	Apartments with Mercantile Occupancies – Up to 10 Units					
0322	Apartments with Mercantile Occupancies – 11 to 30 Units					
0323	Apartments with Mercantile Occupancies – Over 30 Units					
0331	Residential Condominiums without Mercantile Occupancies – Up to 10 Units					
0332	Residential Condominiums without Mercantile Occupancies – 11 to 30 Units					
0333	Residential Condominiums without Mercantile Occupancies – Over 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0313	Building (1)	0.199	0.179	0.159	0.129	0.120
	Contents (2)	0.225	0.202	0.191	0.170	0.158
0321	Building (1)	0.305	0.278	0.245	0.199	0.183
	Contents (2)					
	A	0.454	0.409	0.388	0.341	0.319
	B&C	0.533	0.478	0.453	0.400	0.375
0322	Building (1)	0.305	0.278	0.245	0.199	0.183
	Contents (2)					
	A	0.454	0.409	0.388	0.341	0.319
	B&C	0.533	0.478	0.453	0.400	0.375
0323	Building (1)	0.305	0.278	0.245	0.199	0.183
	Contents (2)					
	A	0.454	0.409	0.388	0.341	0.319
	B&C	0.533	0.478	0.453	0.400	0.375
0331	Building (1)	0.112	0.100	0.089	0.072	0.068
	Contents (2)	0.098	0.089	0.083	0.073	0.068
0332	Building (1)	0.112	0.100	0.089	0.072	0.068
	Contents (2)	0.098	0.089	0.083	0.073	0.068
0333	Building (1)	0.112	0.100	0.089	0.072	0.068
	Contents (2)	0.098	0.089	0.083	0.073	0.068
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0341	Residential Condominiums with Mercantile Occupancies – Up to 10 Units					
0342	Residential Condominiums with Mercantile Occupancies – 11 to 30 Units					
0343	Residential Condominiums with Mercantile Occupancies – Over 30 Units					
0511	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Low Susceptibility					
0512	Mercantile – Sole Occupancy Only – Tire, Battery and Accessory Dealers without Tire Recapping and Vulcanizing					
0520	Mercantile – Sole Occupancy Only – Wearing Apparel, Textiles, Shoes					
0531	Mercantile – Sole Occupancy Only – Alcoholic Beverages other than Bars					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0341	Building (1)	0.172	0.155	0.140	0.113	0.104
	Contents (2)					
	A	0.197	0.177	0.167	0.148	0.136
	B&C	0.230	0.207	0.197	0.172	0.161
0342	Building (1)	0.172	0.155	0.140	0.113	0.104
	Contents (2)					
	A	0.197	0.177	0.167	0.148	0.136
	B&C	0.230	0.207	0.197	0.172	0.161
0343	Building (1)	0.172	0.155	0.140	0.113	0.104
	Contents (2)					
	A	0.197	0.177	0.167	0.148	0.136
	B&C	0.230	0.207	0.197	0.172	0.161
0511	Building (1)	0.106	0.095	0.085	0.070	0.063
	Contents (2)	0.157	0.140	0.131	0.119	0.109
0512	Building (1)	0.100	0.092	0.081	0.065	0.059
	Contents (2)	0.139	0.124	0.119	0.105	0.098
0520	Building (1)	0.127	0.112	0.100	0.082	0.076
	Contents (2)	0.202	0.184	0.172	0.151	0.142
0531	Building (1)	0.107	0.096	0.086	0.070	0.063
	Contents (2)	0.165	0.148	0.139	0.122	0.117
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0532	Merc – Sole Occy Only – Food Products Inc. Retail Bakeries; Non-Alcoholic Beverages (Sales Only – No Baking or Cooking)					
0533	Mercantile – Sole Occupancy Only – Baking on Premises, No Delivery to Outlets					
0534	Mercantile – Sole Occupancy Only – Food Products with Limited Cooking, Excluding Bakeries					
0541	Mercantile – Sole Occupancy Only – Bars and Taverns					
0545	Mercantile – Sole Occupancy Only – Restaurants with Limited Cooking					
0550	Mercantile – Sole Occupancy Only – Motor Vehicles, No Repair					
0561	Mercantile – Sole Occupancy Only – Boat and Marine Supply Dealers					
0562	Mercantile – Sole Occupancy Only – Drugs					
0563	Mercantile – Sole Occupancy Only – Electrical Goods, Hardware and Machinery					
0564	Mercantile – Sole Occupancy Only – Furniture and Home Furnishings other than Appliances					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0532	Building (1)	0.163	0.147	0.131	0.106	0.098
	Contents (2)	0.202	0.184	0.172	0.151	0.142
0533	Building (1)	0.128	0.117	0.105	0.083	0.077
	Contents (2)	0.163	0.147	0.139	0.121	0.112
0534	Building (1)	0.178	0.161	0.145	0.118	0.108
	Contents (2)	0.170	0.154	0.146	0.128	0.120
0541	Building (1)	0.250	0.226	0.202	0.162	0.152
	Contents (2)	0.268	0.240	0.227	0.202	0.187
0545	Building (1)	0.296	0.266	0.238	0.191	0.178
	Contents (2)	0.334	0.299	0.284	0.250	0.231
0550	Building (1)	0.096	0.086	0.077	0.063	0.058
	Contents (2)	0.168	0.151	0.145	0.127	0.119
0561	Building (1)	0.101	0.092	0.081	0.065	0.061
	Contents (2)	0.168	0.151	0.145	0.127	0.119
0562	Building (1)	0.117	0.105	0.092	0.076	0.070
	Contents (2)	0.188	0.168	0.158	0.140	0.131
0563	Building (1)	0.115	0.105	0.092	0.075	0.070
	Contents (2)	0.139	0.124	0.119	0.105	0.098
0564	Building (1)	0.158	0.142	0.127	0.105	0.095
	Contents (2)	0.247	0.219	0.208	0.184	0.170
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0565	Mercantile – Sole Occupancy Only – Jewelry					
0566	Mercantile – Sole Occupancy Only – Sporting Goods					
0567	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Moderate Susceptibility					
0570	Mercantile – Sole Occupancy Only – Not Otherwise Classified – High Susceptibility					
0580	Greenhouses – Sole Occupancy Only					
0581	Mercantile – Multiple Occupancy without 0564 Occupant					
0582	Mercantile – Multiple Occupancy with 0564 Occupant					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0565	Building (1)	0.105	0.095	0.085	0.070	0.063
	Contents (2)	0.136	0.121	0.117	0.103	0.095
0566	Building (1)	0.119	0.107	0.095	0.077	0.072
	Contents (2)	0.184	0.166	0.157	0.139	0.130
0567	Building (1)	0.106	0.095	0.085	0.070	0.063
	Contents (2)	0.157	0.140	0.131	0.119	0.109
0570	Building (1)	0.106	0.095	0.085	0.070	0.063
	Contents (2)	0.165	0.148	0.139	0.122	0.117
0580	Building (1)	0.106	0.095	0.085	0.070	0.063
	Contents (2)	0.170	0.155	0.147	0.130	0.121
0581	Building (1)	0.112	0.100	0.091	0.073	0.068
	Contents (2)					
	A	0.165	0.148	0.139	0.122	0.117
	B	0.200	0.178	0.170	0.149	0.140
0582	Building (1)	0.124	0.111	0.099	0.081	0.075
	Contents (2)					
	A	0.147	0.131	0.124	0.109	0.103
	B	0.178	0.161	0.154	0.135	0.124
	C	0.163	0.147	0.139	0.121	0.112
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0701	Government Offices					
0702	Banks and Offices other than Governmental					
0742	Motels and Hotels with Limited Cooking Restaurant – Up to 10 Units					
0743	Motels and Hotels with Limited Cooking Restaurant – 11 to 30 Units					
0744	Motels and Hotels with Limited Cooking Restaurant – Over 30 Units					
0745	Motels and Hotels without Restaurant – Up to 10 Units					
0746	Motels and Hotels without Restaurant – 11 to 30 Units					
0747	Motels and Hotels without Restaurant – Over 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0701	Building (1)	0.084	0.077	0.068	0.056	0.051
	Contents (2)					
	A	0.094	0.084	0.080	0.071	0.067
	B	0.138	0.125	0.118	0.103	0.097
0702	Building (1)	0.108	0.097	0.086	0.070	0.065
	Contents (2)					
	A	0.129	0.118	0.110	0.096	0.090
	B	0.177	0.160	0.151	0.134	0.125
0742	Building (1)	0.499	0.449	0.400	0.323	0.301
	Contents (2)	0.549	0.495	0.467	0.413	0.385
	A	0.499	0.449	0.400	0.323	0.301
	B	0.549	0.495	0.467	0.413	0.385
0743	Building (1)	0.499	0.449	0.400	0.323	0.301
	Contents (2)	0.549	0.495	0.467	0.413	0.385
	A	0.499	0.449	0.400	0.323	0.301
	B	0.549	0.495	0.467	0.413	0.385
0744	Building (1)	0.216	0.194	0.172	0.141	0.130
	Contents (2)	0.235	0.212	0.200	0.177	0.164
	A	0.216	0.194	0.172	0.141	0.130
	B	0.235	0.212	0.200	0.177	0.164
0745	Building (1)	0.216	0.194	0.172	0.141	0.130
	Contents (2)	0.235	0.212	0.200	0.177	0.164
	A	0.216	0.194	0.172	0.141	0.130
	B	0.235	0.212	0.200	0.177	0.164
0746	Building (1)	0.216	0.194	0.172	0.141	0.130
	Contents (2)	0.235	0.212	0.200	0.177	0.164
	A	0.216	0.194	0.172	0.141	0.130
	B	0.235	0.212	0.200	0.177	0.164
0747	Building (1)	0.216	0.194	0.172	0.141	0.130
	Contents (2)	0.235	0.212	0.200	0.177	0.164
	A	0.216	0.194	0.172	0.141	0.130
	B	0.235	0.212	0.200	0.177	0.164
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0755	Golf, Tennis and Similar Sport Facilities with Limited Cooking					
0756	Golf, Tennis and Similar Sport Facilities without Cooking					
0757	Clubs, Not Otherwise Classified, Including Fraternal and Union Halls					
0831	Motion Picture Studios					
0832	Theaters Excluding Drive-in Theaters					
0833	Drive-in Theaters					
0834	Skating Rinks – Roller Rinks					
0841	Bowling Alleys without Cooking					
0843	Halls and Auditoriums					
0844	Recreational Facilities, Not Otherwise Classified					
0845	Boys' and Girls' Camps					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0755	Building (1)	0.337	0.303	0.270	0.220	0.204
	Contents (2)	0.389	0.351	0.330	0.290	0.271
0756	Building (1)	0.138	0.124	0.109	0.090	0.082
	Contents (2)	0.157	0.141	0.132	0.117	0.109
0757	Building (1)	0.149	0.132	0.117	0.097	0.090
	Contents (2)	0.157	0.141	0.132	0.117	0.109
0831	Building (1)	0.115	0.104	0.092	0.075	0.069
	Contents (2)	0.132	0.118	0.113	0.100	0.093
0832	Building (1)	0.147	0.132	0.117	0.097	0.088
	Contents (2)	0.157	0.141	0.132	0.117	0.109
0833	Building (1)	0.125	0.113	0.100	0.081	0.075
	Contents (2)	0.144	0.131	0.124	0.109	0.101
0834	Building (1)	0.201	0.180	0.161	0.131	0.122
	Contents (2)	0.205	0.183	0.174	0.154	0.142
0841	Building (1)	0.205	0.183	0.163	0.132	0.123
	Contents (2)	0.212	0.192	0.182	0.159	0.149
0843	Building (1)	0.101	0.092	0.081	0.064	0.059
	Contents (2)	0.108	0.097	0.092	0.081	0.075
0844	Building (1)	0.138	0.124	0.109	0.090	0.082
	Contents (2)	0.151	0.135	0.130	0.114	0.105
0845	Building (1)	0.091	0.081	0.074	0.058	0.055
	Contents (2)	0.104	0.093	0.090	0.077	0.074
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0846	Dance Halls, Ballrooms and Discotheques					
0851	Hospitals					
0852	Nursing and Convalescent Homes					
0900	Churches and Synagogues					
0911	Dry Cleaners and Dyeing Plants, other than Self-Service					
0912	Laundries, other than Self-Service					
0913	Self-Service Laundries and Dry Cleaners					
0921	Light Hazard Service Occupancies					
0922	Service Occupancies, other than Light Hazard					
0923	Funeral Homes					
0931	Auto Parking Garages, Car Washes					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0846	Building (1)	0.189	0.170	0.151	0.124	0.114
	Contents (2)	0.186	0.167	0.159	0.139	0.131
0851	Building (1)	0.049	0.043	0.039	0.033	0.031
	Contents (2)	0.057	0.051	0.049	0.043	0.040
0852	Building (1)	0.050	0.045	0.041	0.034	0.031
	Contents (2)	0.057	0.053	0.050	0.043	0.042
0900	Building (1)	0.108	0.098	0.087	0.071	0.065
	Contents (2)	0.115	0.103	0.098	0.087	0.079
0911	Building (1)	0.177	0.161	0.143	0.116	0.108
	Contents (2)	0.210	0.190	0.179	0.158	0.148
0912	Building (1)	0.235	0.212	0.189	0.153	0.141
	Contents (2)	0.292	0.262	0.246	0.218	0.203
0913	Building (1)	0.156	0.139	0.125	0.101	0.092
	Contents (2)	0.182	0.163	0.155	0.137	0.127
0921	Building (1)	0.092	0.083	0.074	0.060	0.055
	Contents (2)	0.111	0.100	0.093	0.083	0.077
0922	Building (1)	0.103	0.092	0.083	0.066	0.061
	Contents (2)	0.125	0.113	0.108	0.094	0.089
0923	Building (1)	0.067	0.061	0.054	0.044	0.041
	Contents (2)	0.073	0.065	0.062	0.054	0.052
0931	Building (1)	0.068	0.061	0.056	0.044	0.042
	Contents (2)	0.080	0.073	0.068	0.061	0.057
Territory						Territorial Multiplier
Indianapolis						1.794
Balance of State (Indiana)						1.000

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0932	Gasoline Service Stations					
0933	Motor Vehicle and Aircraft Repair, with or without Sales					
0934	Tire Recapping and Vulcanizing, with or without Sales					
0940	Aircraft Hangars without Repair					
0951	Gambling Casinos with Limited Cooking Restaurants					
0952	Gambling Casinos without Restaurants					
1000	Penal Institutions					
1051	Museums, Libraries, Art Galleries (Non-Profit)					
1052	Schools, Academic					
1070	Fire Departments, Police, Sewage, Water Works and Other Public Buildings					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0932	Building (1)	0.097	0.087	0.078	0.063	0.059
	Contents (2)	0.120	0.107	0.100	0.090	0.084
0933	Building (1)	0.083	0.075	0.066	0.054	0.049
	Contents (2)	0.103	0.094	0.087	0.078	0.074
0934	Building (1)	0.107	0.096	0.086	0.070	0.065
	Contents (2)	0.127	0.115	0.107	0.095	0.090
0940	Building (1)	0.054	0.048	0.042	0.034	0.032
	Contents (2)	0.065	0.058	0.056	0.049	0.045
0951	Building (1)	0.393	0.354	0.315	0.256	0.237
	Contents (2)	0.434	0.391	0.369	0.326	0.304
0952	Building (1)	0.132	0.118	0.106	0.087	0.080
	Contents (2)	0.190	0.171	0.162	0.142	0.132
1000	Building (1)	0.083	0.074	0.067	0.054	0.049
	Contents (2)	0.072	0.066	0.062	0.055	0.051
1051	Building (1)	0.051	0.046	0.040	0.035	0.031
	Contents (2)	0.067	0.060	0.057	0.051	0.046
1052	Building (1)	0.033	0.029	0.025	0.020	0.019
	Contents (2)	0.037	0.033	0.032	0.028	0.025
1070	Building (1)	0.080	0.072	0.065	0.051	0.048
	Contents (2)	0.094	0.084	0.081	0.071	0.067
Territory						Territorial Multiplier
Indianapolis						1.794
Balance of State (Indiana)						1.000

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
1150	Builders' Risk					
1180	Vacant Buildings – See CSP Class Code of previous or intended occupancy. Add loss cost of .015 unless Class Code of previous or intended occupancy is 0580, 0742-0747, 0833, 0834, 0841, 0843, 0844, 0846, 0900, 0951, 0952, 1051 or 1052.					
1211	Freight Terminals					
1212	General Storage Warehouses – Bailee					
1213	Miscellaneous Products Storage – (Other Than Retail Or Wholesale Or Cold Storage)					
1220	Household Goods Storage					
1230	Cold Storage Warehouses					
1400	Waste and Reclaimed Materials Including Yards					
1650	Building Supply Yards, Including Retail Lumberyards, Coal and Coke Yards					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
1150	Building (1)	0.056	0.051	0.045	0.036	0.034
1211	Building (1)	0.142	0.128	0.114	0.093	0.085
	Contents (2)	0.166	0.152	0.142	0.125	0.116
1212	Building (1)	0.111	0.102	0.091	0.073	0.068
	Contents (2)	0.139	0.125	0.116	0.104	0.097
1213	Building (1)	0.099	0.090	0.080	0.066	0.061
	Contents (2)	0.132	0.118	0.111	0.099	0.093
1220	Building (1)	0.118	0.108	0.094	0.077	0.070
	Contents (2)	0.144	0.129	0.123	0.109	0.102
1230	Building (1)	0.103	0.093	0.083	0.067	0.062
	Contents (2)	0.140	0.125	0.118	0.106	0.098
1400	Building (1)	0.308	0.276	0.247	0.199	0.184
	Contents (2)	0.374	0.336	0.316	0.280	0.262
	Yard	0.464		0.049		
1650	Building (1)	0.184	0.166	0.146	0.118	0.110
	Contents (2)	0.233	0.208	0.199	0.174	0.163
	Yard	0.128		0.017		
Territory					Territorial Multiplier	
Indianapolis					1.794	
Balance of State (Indiana)					1.000	

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85. BASIC GROUP I CLASS LOSS COSTS (Cont'd)

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
1700	Mill Yards					
1751	Oil Distributing, Oil Terminals and LPG Tank Farms – Including Stock					
1752	Oil Distributing, Oil Terminals and LPG Tank Farms – Excluding Stock					
2200	Baking on Premises, Delivery to Outlets					
2350	Beverage Bottlers Excluding Alcoholic Beverages					
2459	Distilleries and Wineries					
2800	Textile Mill Products					
3409	Leather and Leather Products					
4809	Printing					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
1700	Building (1)	0.150	0.134	0.119	0.098	0.090
	Contents (2)	0.227	0.204	0.193	0.171	0.159
	Yard	0.125		0.016		
1751	Building (1)	0.096	0.086	0.077	0.062	0.058
	Contents (2)	0.125	0.111	0.108	0.094	0.087
1752	Building (1)	0.091	0.082	0.072	0.059	0.053
	Contents (2)	0.090	0.080	0.076	0.067	0.062
2200	Building (1)	0.268	0.242	0.217	0.176	0.162
	Contents (2)	0.320	0.289	0.272	0.239	0.225
2350	Building (1)	0.173	0.157	0.140	0.113	0.104
	Contents (2)	0.205	0.183	0.173	0.153	0.144
2459	Building (1)	0.113	0.102	0.089	0.073	0.067
	Contents (2)	0.144	0.131	0.125	0.110	0.102
2800	Building (1)	0.174	0.156	0.140	0.114	0.106
	Contents (2)	0.229	0.206	0.193	0.172	0.162
3409	Building (1)	0.072	0.065	0.057	0.048	0.044
	Contents (2)	0.082	0.073	0.071	0.061	0.058
4809	Building (1)	0.054	0.050	0.045	0.036	0.032
	Contents (2)	0.067	0.060	0.057	0.051	0.048
Territory						Territorial Multiplier
Indianapolis						1.794
Balance of State (Indiana)						1.000

INDIANA
COMMERCIAL PROPERTY
LOSS COST LEVEL REVIEW
ACTUARIAL ANALYSIS SUPPLEMENT

PURPOSE

This document provides discussion and analysis of changes in the experience and adjustments used to derive the advisory prospective loss cost level indications.

MONOLINE
INDICATIONS

The indicated statewide monoline changes are:

<u>Subline</u>	<u>Current Review</u>	<u>Prior Review</u>
Basic Group I	-1.2%	1.5%
Basic Group II	3.3%	3.0%
Special Causes of Loss	4.7%	-0.9%
All Coverages Combined	1.7%	1.5%

The prior review's indications were not filed. There has not been a change in the Implicit Package Modification Factors since the prior review.

Given below is a brief discussion and comparison of the multistate factors (premium and loss trend, loss adjustment expense, and loss development) used in this year's and last year's reviews. The discussion is followed by a state specific analysis by subline and a list of events occurring during the experience period in this state that have been identified as catastrophes by ISO's Property Claims Services.

IMPACT OF LIMIT
OF INSURANCE
(LOI) FACTOR
IMPLEMENTATION

Instructions for companies that have not adopted the Limit of Insurance Curves or revised rating for Special Causes of Loss

Class-rated Loss Costs

The loss costs contained in this filing reflect the introduction of limit of insurance (LOI) curves and revised rating for Special Causes of Loss. For those companies which have not adopted those changes, the loss costs in effect immediately prior to the introduction of the LOI curves and revised SCL rating can be adjusted by applying the loss cost changes in Section A of this filing. These changes are changes from the current loss cost level; therefore, any other loss cost level changes effective subsequent to the introduction of LOI should also be applied. The loss cost changes based on this filing for Special Causes of Loss on an old category basis are given below. For Basic Group II, the loss cost changes by territory (not coverage and symbol) should be applied to the pre-LOI loss costs, since the loss cost changes by coverage and symbol reflect revised coverage and symbol relativities based on the introduction of the LOI curves.

Please note that the Basic Group I and Basic Group II loss costs in this filing reflect revised class, construction, and coverage (building and contents) relativities associated with the introduction of LOI curves in addition to the LOI curves themselves. Therefore, dividing the revised loss costs in this filing by the off-balance factors found in Section A of filing CF-2009-RLC09, Commercial Fire and Allied Lines Loss Cost Revision for the Introduction of Limit of Insurance Curves, will not result in the same loss costs as the procedure described above.

Schedule-rated Loss Costs

Section A of filing CF- 2009 -RLC09, Commercial Fire and Allied Lines Loss Cost Revision for the Introduction of Limit of Insurance Curves, displayed off-balance factors that are being applied to specifically-rated loss costs to reflect the introduction of LOI curves. Those off-balance factors can be divided out of the schedule-rated loss costs effective after the implementation of the LOI curves to bring them to a level appropriate for use without the application of LOI factors.

Special Causes of Loss (SCL) Indications on an Old Category Basis

Given below are the current SCL review indications on an old category basis for those companies that have not yet adopted the current SCL rating that was introduced in conjunction with the limit of insurance curves.

<u>Category</u>	<u>Loss Cost Change</u>
01 Buildings	-5.7%
02 Apartment and Condominium Contents	0.3%
03 Office Contents	7.8%
04 Mercantile, Motel-Hotel, and Institutional Contents	10.5%
05 Service, Industrial-Processing and Contractors Contents	11.6%
Personal Property (Contents) Excluding Theft	10.0%

IMPACT OF LIMIT
OF INSURANCE
(LOI) FACTOR
IMPLEMENTATION
(cont'd)

Limit of Insurance Transition Rule and Public Protection Class Factors

The transition rule, which caps rate changes for renewal policies due to the implementation of limit of insurance curves and revised rating, does not apply to rate changes produced by changes in protection class, deductible level, coinsurance level and/or optional coverages. Protection class factors for specifically-rated properties are included in the Basic Group I loss cost quote. In order to measure the impact of a change in protection class for specifically-rated properties, the public protection class factors are given below.

Protection Class	Non-Sprinklered Schedule Rated		Sprinklered
	Const. 1-3 *	Const. 4-6 **	All Const.
1	0.88	0.90	0.65
2	0.92	0.94	0.67
3	0.96	0.97	0.68
4	0.98	0.98	0.69
5	1.00	1.00	0.70
6	1.06	1.05	0.72
7	1.18	1.14	0.77
8	1.30	1.24	0.82
8B	1.35	1.28	0.84
9	1.42	1.34	0.88
10	1.72	1.58	1.00
1X - 5X	1.14	1.09	0.75
6X - 7X	1.35	1.28	0.84
8X	1.42	1.34	0.88
1Y - 5Y	1.14	1.09	0.75
6Y - 8Y	1.35	1.28	0.84
10W	1.63	1.51	0.97

* Frame, Joisted Masonry and Non-combustible

** Masonry Non-combustible, Modified Fire Resistive and Fire Resistive

Protection class factors for class-rated risks can be found in Rule **85.M** of the Commercial Lines manual.

DATA QUALITY

Statistical plan data reported to ISO is first processed through a system of rigorous automated data verification processes so that only valid data is used for ratemaking. Subsequent to this initial data submission review, additional analyses involving an even more customized data review for this line were performed by staff. During these processes, various data records were excluded from the review, corrected or adjusted. Specifically, an on-leveling approach was used to determine aggregate loss costs at current level rather than the extension-of-exposures method for some reported exposures, and various loss cost multipliers have been adjusted prior to their use in the calculations. The ISO staff responsible for this loss cost review also reviewed the data for reasonableness.

LOSS
ADJUSTMENT
EXPENSE/LOSS
DEVELOPMENT
FACTORS

Loss adjustment expense factors have changed since the previous review, from 1.100 in the prior review to 1.095 in the current review for BG I and from 1.125 to 1.115 for BG II and SCL. Loss development factors changed slightly but are still relatively close to unity for all sublines and years.

LOSS TREND
FACTORS

Given below is a comparison of the external trend factors, loss trend adjustments (LTAs) and total loss trend factors for the current and prior reviews.

External Trend

The prospective annual rates of change based on the external indices (Xactware for Buildings, PPI for Contents, and IMSEP/RSALLES for Time Element) for the current and prior year reviews are:

<u>Coverage</u>	<u>Current Review</u>	<u>Prior Review</u>	<u>Change</u>
Buildings	3.3%	3.1%	0.2%
Contents	1.9%	2.0%	-0.1%
Time Element	0.0%	0.9%	-0.9%

Loss Trend Adjustments (LTAs)

The loss trend adjustment factors underlying the current and prior reviews are:

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	0.0%	0.6%	2.6%	-0.3%	0.7%	2.8%
Basic Group II	0.0%	0.6%	2.7%	0.2%	0.6%	2.6%
Special Causes of Loss	0.3%	-0.6%	2.6%	0.2%	0.0%	2.8%

Total Annual Loss Trend

The prospective total annual loss trend factors are given below and are calculated as the product of the external trend factors and loss trend adjustment factors.

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	3.3%	2.6%	2.6%	2.8%	2.7%	3.7%
Basic Group II	3.3%	2.6%	2.7%	3.3%	2.6%	3.5%
Special Causes of Loss	3.6%	1.3%	2.6%	3.3%	2.0%	3.7%

CHANGE IN
AVERAGE LOSS
TREND

The changes in average loss trend from current year to prior year are:

<u>Subline</u>	<u>Change in Average Trend</u>
Basic Group I	1.1%
Basic Group II	0.1%
Special Causes of Loss	-0.9%

Average loss trend is calculated as a weighted average of the total loss trend from the midpoint of the experience year to one year past the assumed effective date for each year in the experience period based on the statewide loss cost level review year weights (.10, .15, .20, .25, .30 for BG I and SCL, and 0.10 for all years for BG II). Total loss trend includes the effect of Current Cost Factors to bring losses to the latest level of external cost information, Loss Projection Factors to project from the external cost level to one year past the assumed effective date, and Loss Trend Adjustment factors over the entire trend period.

PREMIUM TREND
FACTORS

The prospective annual premium trend factors, based on annual changes in amounts of insurance written, for the current and prior reviews are:

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	2.5%	1.8%	0.9%	2.1%	1.6%	0.6%
Basic Group II	2.3%	1.7%	0.9%	1.9%	1.4%	0.6%
Special Causes of Loss	2.4%	1.4%	0.9%	2.0%	1.2%	0.6%

NET TREND

The prospective annual net (loss ÷ premium) trend factors for the current and prior year reviews are:

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	0.8%	0.7%	1.7%	0.7%	1.1%	3.1%
Basic Group II	1.0%	0.8%	1.8%	1.4%	1.2%	2.9%
Special Causes of Loss	1.2%	-0.1%	1.7%	1.3%	0.8%	3.1%

BASIC GROUP I

The statewide five year weighted average experience ratio, before credibility weighting, decreased by 5.4%, from 1.071 in the prior review to 1.013 in the current review. The decrease is due to a higher-than-average experience ratio of 1.250 for 2014 exiting the experience period and a lower-than-average experience ratio of 0.857 for 2019 entering the experience period.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	1.013	1.071	0.946
Credibility	0.401	0.413	0.971
Expected Experience Ratio	1.009	1.010	0.999
Coverage Change	1.011	1.035	0.977
Monoline Relativity	0.977	0.980	0.997
Monoline Change	0.988	1.014	0.974

BASIC GROUP II

The statewide ten year weighted average experience ratio, before credibility weighting, increased by 2.4%, from 0.977 in the prior review to 1.000 in the current review. The increase is due to a lower-than-average experience ratio of 0.972 for 2009 exiting the experience period and a higher-than-average experience ratio of 1.319 for 2019 entering the experience period.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	1.000	0.977	1.024
Credibility	0.596	0.597	0.998
Expected Experience Ratio	1.010	1.015	0.995
Coverage Change	1.004	0.992	1.012
Monoline Relativity	1.029	1.038	0.991
Monoline Change	1.033	1.030	1.003

SPECIAL CAUSES OF LOSS

The statewide five year weighted average experience ratio, before credibility weighting, increased by 15.8%, from 0.926 in the prior review to 1.072 in the current review. The increase is due to a higher-than-average experience ratio of 1.467 for 2019 entering the experience period and a change in company mix from the prior review.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	1.072	0.926	1.158
Credibility	0.385	0.413	0.932
Expected Experience Ratio	1.007	1.012	0.995
Coverage Change	1.032	0.976	1.057
Monoline Relativity	1.015	1.014	1.001
Monoline Change	1.047	0.990	1.058

PROPERTY
CLAIMS SERVICES
INFORMATION

The following events have been identified by Property Claims Services as catastrophes occurring in this state from 1/1/1990 through 12/31/2019.

<u>Date From</u>	<u>Date To</u>	<u>Perils</u>
5/14/1990	5/17/1990	Wind, Hail, Tornadoes, Flooding
6/1/1990	6/3/1990	Wind, Hail, Tornadoes
6/6/1990	6/8/1990	Wind, Hail, Tornadoes, Flooding
8/28/1990	8/30/1990	Wind, Hail, Tornadoes, Flooding
11/27/1990	11/28/1990	Wind, Hail, Tornadoes, Flooding
12/27/1990	12/30/1990	Wind, Freezing, Flooding
3/11/1991	3/12/1991	Wind, Hail, Tornadoes, Weight of Ice, Snow
3/21/1991	3/23/1991	Wind, Hail, Tornadoes, Flooding
3/26/1991	3/28/1991	Wind, Hail, Tornadoes, Flooding
5/15/1991	5/18/1991	Wind, Hail, Tornadoes, Flooding
7/7/1991	7/8/1991	Wind, Hail, Tornadoes, Flooding
6/14/1992	6/19/1992	Wind, Hail, Tornadoes, Flooding
7/2/1992	7/3/1992	Wind, Hail, Tornadoes, Flooding
7/6/1992	7/15/1992	Wind, Hail, Tornadoes, Flooding
11/21/1992	11/23/1992	Wind, Hail, Tornadoes, Flooding
6/2/1993	6/5/1993	Wind, Hail, Tornadoes, Flooding
6/7/1993	6/9/1993	Wind, Hail, Tornadoes, Flooding
6/27/1993	7/3/1993	Wind, Hail, Tornadoes, Flooding
1/14/1994	1/16/1994	Wind, Snow, Ice, Freezing
1/17/1994	1/20/1994	Wind, Snow, Ice, Freezing
4/25/1994	4/27/1994	Wind, Hail, Tornadoes, Flooding
5/13/1995	5/15/1995	Wind, Hail, Tornadoes, Flooding
5/16/1995	5/19/1995	Wind, Hail, Tornadoes, Flooding
1/6/1996	1/9/1996	Wind, Snow, Ice, Freezing, Flooding
1/31/1996	2/6/1996	Wind, Snow, Ice, Tornadoes, Flooding
3/16/1996	3/21/1996	Wind, Hail, Tornadoes, Flooding
4/12/1996	4/16/1996	Wind, Hail, Tornadoes, Flooding
4/19/1996	4/22/1996	Wind, Hail, Tornadoes, Flooding
4/27/1996	4/30/1996	Wind, Hail, Tornadoes, Flooding
5/3/1996	5/9/1996	Wind, Hail, Tornadoes, Flooding
5/24/1996	5/29/1996	Wind, Hail, Tornadoes, Flooding
7/16/1996	7/18/1996	Wind, Flooding
10/29/1996	10/30/1996	Wind, Hail
3/28/1997	3/29/1997	Wind, Hail, Tornadoes, Snow, Flooding
7/1/1997	7/3/1997	Wind, Hail, Tornadoes, Flooding
8/15/1997	8/17/1997	Wind, Hail, Tornadoes, Flooding
3/27/1998	3/30/1998	Hail, Wind, Tornadoes
6/11/1998	6/15/1998	Hail, Wind, Flooding, Tornadoes
6/18/1998	6/19/1998	Hail, Wind, Flooding, Tornadoes
6/24/1998	6/30/1998	Hail, Wind, Flooding, Tornadoes
7/19/1998	7/21/1998	Hail, Wind, Flooding
8/5/1998	8/8/1998	Wind, Flooding
8/22/1998	8/25/1998	Hail, Wind, Tornadoes

11/9/1998	11/11/1998	Hail, Wind, Flooding, Tornadoes
1/1/1999	1/4/1999	Hail, Snow, Wind, Flooding, Freezing
1/13/1999	1/16/1999	Ice, Hail, Snow, Wind, Flooding, Freezing
4/8/1999	4/10/1999	Hail, Wind, Tornadoes
5/3/1999	5/7/1999	Hail, Wind, Flooding, Tornadoes
5/16/1999	5/17/1999	Hail, Wind, Flooding, Tornadoes
5/31/1999	6/1/1999	Hail, Wind, Flooding, Tornadoes
6/4/1999	6/7/1999	Hail, Wind, Flooding, Tornadoes
6/10/1999	6/14/1999	Hail, Wind, Flooding, Tornadoes
1/2/2000	1/4/2000	Hail, Wind, Flooding, Tornadoes
5/8/2000	5/11/2000	Hail, Wind, Flooding, Tornadoes
5/12/2000	5/14/2000	Hail, Wind, Flooding, Tornadoes
5/17/2000	5/19/2000	Hail, Wind, Flooding, Tornadoes
9/10/2000	9/12/2000	Hail, Wind, Flooding, Tornadoes
9/20/2000	9/21/2000	Hail, Wind, Flooding, Tornadoes
12/11/2000	12/12/2000	Snow, Wind, Freezing
4/6/2001	4/12/2001	Hail, Wind, Flooding, Tornadoes
6/9/2001	6/12/2001	Hail, Wind, Flooding, Tornadoes
10/12/2001	10/16/2001	Hail, Wind, Flooding, Tornadoes
10/23/2001	10/24/2001	Hail, Wind, Flooding, Tornadoes
1/30/2002	2/1/2002	Flooding, Freezing, Hail, Snow, Wind
3/8/2002	3/10/2002	Hail, Tornadoes, Wind
4/27/2002	5/3/2002	Flooding, Hail, Tornadoes, Wind
9/20/2002	9/20/2002	Flooding, Hail, Tornadoes, Wind
4/4/2003	4/8/2003	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
5/1/2003	5/1/2003	Flooding, Hail, Tornadoes, Wind
5/2/2003	5/11/2003	Flooding, Hail, Tornadoes, Wind
7/4/2003	7/10/2003	Flooding, Hail, Tornadoes, Wind
7/21/2003	7/23/2003	Flooding, Hail, Tornadoes, Wind
8/31/2003	9/3/2003	Flooding, Hail, Tornadoes, Wind
11/12/2003	11/14/2003	Flooding, Hail, Tornadoes, Wind
4/20/2004	4/22/2004	Flooding, Hail, Tornadoes, Wind
5/17/2004	5/19/2004	Flooding, Hail, Tornadoes, Wind
5/21/2004	5/27/2004	Flooding, Hail, Tornadoes, Wind
5/29/2004	6/2/2004	Flooding, Hail, Tornadoes, Wind
7/12/2004	7/14/2004	Flooding, Hail, Tornadoes, Wind
12/22/2004	12/25/2004	Freezing, Ice, Snow, Wind
1/4/2005	1/6/2005	Flooding, Freezing, Ice, Snow, Wind
4/20/2005	4/24/2005	Flooding, Hail, Tornadoes, Wind
5/6/2005	5/12/2005	Flooding, Hail, Tornadoes, Wind
8/18/2005	8/20/2005	Hail, Tornadoes, Wind
11/6/2005	11/6/2005	Hail, Tornadoes, Wind
3/11/2006	3/13/2006	Flooding, Hail, Tornadoes, Wind
4/2/2006	4/3/2006	Hail, Tornadoes, Wind
4/6/2006	4/8/2006	Hail, Tornadoes, Wind
4/13/2006	4/15/2006	Hail, Tornadoes, Wind
6/18/2006	6/22/2006	Flooding, Hail, Tornadoes, Wind
8/23/2006	8/25/2006	Flooding, Hail, Tornadoes, Wind

10/2/2006	10/4/2006	Flooding, Hail, Tornadoes, Wind
11/30/2006	12/3/2006	Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/4/2008	1/9/2008	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/29/2008	1/30/2008	Hail, Tornadoes, Wind
2/5/2008	2/6/2008	Flooding, Hail, Tornadoes, Wind
5/29/2008	6/1/2008	Flooding, Hail, Tornadoes, Wind
6/2/2008	6/4/2008	Flooding, Hail, Tornadoes, Wind
6/5/2008	6/8/2008	Flooding, Hail, Tornadoes, Wind
6/15/2008	6/16/2008	Flooding, Hail, Wind
7/19/2008	7/22/2008	Flooding, Hail, Tornadoes, Wind
8/4/2008	8/5/2008	Flooding, Hail, Tornadoes, Wind
9/12/2008	9/14/2008	Hurricane Ike - Flooding, Tornadoes, Wind
1/26/2009	1/28/2009	Flooding, Freezing, Ice, Snow
3/7/2009	3/8/2009	Flooding, Hail, Tornadoes, Wind
5/13/2009	5/14/2009	Flooding, Hail, Tornadoes, Wind
6/2/2009	6/6/2009	Flooding, Hail, Wind
8/4/2009	8/4/2009	Flooding, Hail, Wind
4/4/2010	4/6/2010	Flooding, Hail, Tornadoes, Wind
6/4/2010	6/6/2010	Flooding, Hail, Tornadoes, Wind
6/10/2010	6/16/2010	Flooding, Hail, Tornadoes, Wind
6/17/2010	6/20/2010	Flooding, Hail, Tornadoes, Wind
6/21/2010	6/24/2010	Flooding, Hail, Tornadoes, Wind
10/26/2010	10/28/2010	Flooding, Hail, Tornadoes, Wind
1/31/2011	2/3/2011	Flooding, Freezing, Ice, Snow, Wind
2/27/2011	2/28/2011	Flooding, Hail, Tornadoes, Wind
4/19/2011	4/21/2011	Hail, Tornadoes, Wind
5/20/2011	5/27/2011	Flooding, Hail, Tornadoes, Wind
6/16/2011	6/22/2011	Flooding, Hail, Tornadoes, Wind
3/2/2012	3/3/2012	Flooding, Hail, Tornadoes, Wind
3/18/2012	3/25/2012	Flooding, Hail, Tornadoes, Wind
4/28/2012	4/29/2012	Hail, Tornadoes, Wind
6/28/2012	7/2/2012	Flooding, Hail, Tornadoes, Wind
8/9/2012	8/10/2012	Flooding, Hail, Wind
9/21/2012	9/22/2012	Hail, Wind
4/7/2013	4/11/2013	Flooding, Hail, Ice, Snow, Tornadoes, Wind
4/16/2013	4/19/2013	Flooding, Hail, Wind
5/28/2013	5/31/2013	Flooding, Hail, Tornadoes, Wind
6/12/2013	6/14/2013	Flooding, Hail, Wind
6/24/2013	6/27/2013	Flooding, Hail, Tornadoes, Wind
11/17/2013	11/18/2013	Flooding, Hail, Tornadoes, Wind
12/20/2013	12/23/2013	Freezing, Ice, Snow, Wind
1/5/2014	1/8/2014	Freezing, Ice, Snow, Wind
5/10/2014	5/14/2014	Flooding, Hail, Tornadoes, Wind
5/18/2014	5/23/2014	Flooding, Hail, Wind
6/29/2014	7/1/2014	Flooding, Hail, Tornadoes, Wind
2/1/2015	2/4/2015	Freezing, Ice, Snow, Wind
4/7/2015	4/10/2015	Flooding, Hail, Tornadoes, Wind
7/12/2015	7/14/2015	Flooding, Hail, Tornadoes, Wind

7/17/2015	7/20/2015	Flooding, Hail, Tornadoes, Wind
12/23/2015	12/24/2015	Flooding, Hail, Tornadoes, Wind
12/26/2015	12/28/2015	Flooding, Hail, Tornadoes, Wind
3/27/2016	3/27/2016	Hail, Wind
4/2/2016	4/3/2016	Hail, Wind
4/25/2016	4/28/2016	Flooding, Hail, Tornadoes, Wind
4/29/2016	5/3/2016	Flooding, Hail, Tornadoes, Wind
6/22/2016	6/23/2016	Flooding, Hail, Tornadoes, Wind
8/24/2016	8/25/2016	Flooding, Hail, Tornadoes, Wind
2/28/2017	3/2/2017	Flooding, Hail, Tornadoes, Wind
4/10/2017	4/11/2017	Flooding, Hail, Tornadoes, Wind
4/28/2017	5/1/2017	Flooding, Hail, Tornadoes, Wind
6/16/2017	6/19/2017	Flooding, Hail, Tornadoes, Wind
2/19/2018	2/22/2018	Flooding, Freezing, Hail, Ice, Wind
4/3/2018	4/5/2018	Flooding, Hail, Tornadoes, Wind
4/28/2018	5/5/2018	Flooding, Hail, Tornadoes, Wind
5/12/2018	5/16/2018	Flooding, Hail, Tornadoes, Wind
7/19/2018	7/22/2018	Flooding, Hail, Tornadoes, Wind
11/14/2018	11/16/2018	Flooding, Freezing, Ice, Snow, Wind
1/29/2019	2/1/2019	Freezing, Ice, Snow, Wind
2/23/2019	2/26/2019	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
5/16/2019	5/17/2019	Flooding, Hail, Tornadoes, Wind
5/20/2019	5/22/2019	Flooding, Hail, Tornadoes, Wind
5/26/2019	5/29/2019	Flooding, Hail, Tornadoes, Wind
6/15/2019	6/16/2019	Flooding, Hail, Tornadoes, Wind
8/17/2019	8/18/2019	Flooding, Hail, Wind
11/26/2019	11/28/2019	Flooding, Wind

PROPERTY
CLAIMS SERVICES
INFORMATION

ISO's Property Claims Services defines a catastrophe as an event that:

- reaches a threshold dollar amount of total insured property losses, and
- affects a significant number of property and casualty insurance policyholders and property and casualty insurers.

From 1949 to 1981, the threshold was \$1 million. From 1982 to 1996, it was \$5 million, and since January 1, 1997, the threshold has been \$25 million.

All of the events listed above may not have resulted in unexpected loss experience for commercial property coverage in this state since catastrophes are defined based on total insured property losses spreading across state lines and lines of business.

For more information concerning Catastrophe Claims Services, please see "Persons to Contact" in the circular cover letter.