

LOSS COSTS – IMPLEMENTATION

APRIL 26, 2024

COMMERCIAL PROPERTY

LI-CF-2024-049

## INDIANA COMMERCIAL FIRE AND ALLIED LINES ADVISORY PROSPECTIVE LOSS COST REVISION TO BE IMPLEMENTED

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### KEY MESSAGE

Revised advisory prospective loss costs reflecting a statewide loss cost level change of **-2.7%** to be implemented.

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### BACKGROUND

In circular [LI-CF-2024-016](#), we provided you with information about the Commercial Fire and Allied Lines loss cost level experience review.

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### ISO ACTION

We are implementing [CF-2024-RLA1](#), which presents a review of Commercial Fire and Allied Lines loss cost experience.

Refer to the attachment(s) for complete details.

*For more information on the status of filings in a particular state, including filed and approved documents, associated circulars and links to Print Ready Manuals and Commercial Lines Manual, please feel free to access our [Filings](#) feature within the ISOnet Circulars product.*

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### CONSIDERATION OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs, which are based partially 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, that those changes will have negligible and/or offsetting effects on prospective loss costs. Considering the nature of the perils covered by Basic Group I (fire) and the weather driven perils covered by Basic Group II and Special Causes of Loss, ISO is not making any explicit adjustments to our Commercial Property prospective loss costs due to COVID-19.

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### SUPPLEMENTARY INFORMATION

We are including the following supplementary information:

- PCS Catastrophe List - A list of events that have been identified as catastrophes in the state by ISO's Property Claims Services, Inc.
- Section S, which provides Basic Group I experience on a Rating Group basis.

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.

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## 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, 2024.

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.

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## 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, 2024, the multiplier must be based on the relationship between your gross rates and the ISO advisory prospective loss costs contained in this circular.

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## 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 AUGUST 30, 2024. 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-2024-RLA1 and SERFF Tracking Number ISOF-G134079345, 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.

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## RATING SOFTWARE IMPACT

No new attributes are being introduced with this revision.

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## 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-2024-016](#) 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.

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## REVISION DISTRIBUTION INFORMATION

- **Manual And ISO Suite**

We will issue a Notice to Manualholders with an edition date of 10-24 (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 May 27, 2024. On October 1, 2024, 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.

- **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 May 27, 2024 to October 1, 2024. On October 1, 2024, these loss costs will move to "Current" status. The previous "Current" becomes the most recent "Prior" and joins all previously displayed "Priors".

**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.

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## REFERENCE(S)

- [LI-CL-2024-016](#) (03/12/2024) Commercial Lines Revised Lead Time Requirements Listing
- [LI-CF-2024-016](#) (03/05/2024) Commercial Fire And Allied Lines Experience Level Indications Reviewed By ISO Staff

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## ATTACHMENT(S)

- CF-2024-RLA1
- PCS Catastrophe List
- Supplement containing Basic Group I experience on a Rating Group basis

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## 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.

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## 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 Associate Actuarial Consultant 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.

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## 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.

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## 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 -2.7% 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 9/30/2022, evaluated as of 12/31/2022.
  - introduces Basic Group I loss costs for the cannabis classes (0535, 0574, 0575, 0585, and 2205). See filing CF-2021-RCCLC.
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#### CONSIDERATION OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs, which are based partially 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, that those changes will have negligible and/or offsetting effects on prospective loss costs. Considering the nature of the perils coverage by Basic Group I (fire) and the weather driven perils covered by Basic Group II and Special Causes of Loss, ISO is not making any explicit adjustments to our Commercial Property prospective loss costs due to COVID-19.

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#### 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.

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#### CHANGES TO METHODOLOGY

##### Basic Group I Relativity Analysis

With this filing, we are removing the Rating Group dimension from the Basic Group I relativity analysis in Exhibits B4 and B6 and removing Exhibit A2. Future class relativity reviews will be derived from countrywide data, in order to increase the credibility and stability of those relativities.

As an associated change, we are removing the credibility weighting from Exhibit B6, as the raw experience ratios without the Rating Group dimension are sufficient for use in the subsequent least squares iterative procedure.

CHANGES TO  
METHODOLOGY  
(cont'd)

Calculation of Aggregate Loss Costs at Current Level (ALCCL)

With the implementation of a new ratemaking system, we are now able to reflect risk count in the calculation of PPR (extension of exposure approach) used to calculate Aggregate Loss Costs at Current Level (ALCCL). When there are multiple risks having the same features and are reported as such, they are now counted separately, which more accurately reflects current statistical reporting instructions.

Premiums are both on-leveled and, where possible, PPR'd for the calculation of ALCCL. It should be noted that PPR cannot be calculated for some risks, e.g., Basic Group I specifically-rated risks for which there are no manual (class-rated) loss costs to be used for PPR'ing.

In both the old system and the new, ISO's ratemaking procedures include coding which compares the ALCCL results of using the PPR approach versus the on-level approach, then selects the appropriate result. In the old system, if multiple base records were being inadvertently calculated as if they were one base record, then often the PPR approach would result in too little ALCCL, but the on-level results would have accurately reflected the higher ALCCL of the multiple exposures. In the new system, if there are extra records being reported as if they are base records, which could result in the PPR method calculating them to have too much ALCCL, then the on-level approach would accurately reflect the lower ALCCL from fewer exposures. Because not all reporting errors can be caught, this system acts to ensure that a valid ALCCL amount is selected in both the old methodology and the new.

In addition, the PPR or on-level selection criteria has also been updated with our new programs. Because we now have the ability to make the system more granular, the decision of whether to use the PPR'd or on-leveled ALCCL is being made on a record basis rather than based on an aggregation over similar fields as was done in the old system, which we believe is more accurate.

The combination of reflecting risk count for PPR and selecting on-leveled vs. PPR'd ALCCL on a unit record basis results in more accurate ALCCL for ratemaking. Note that these changes only apply for those records that can be PPR'd and have no impact on those records that are on-leveled only.

LOSS COST  
LEVEL  
CHANGES

The statewide monoline prospective loss cost level changes are:

<u>Coverage</u>	<u>Indicated</u>	<u>Selected*</u>
Basic Group I	-15.8%	-15.8%
Basic Group II	14.7%	14.7%
Special Causes of Loss	0.8%	0.1%
Total	-2.6%	-2.7%

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

\* The Selected changes reflect capping the Special Causes of Loss indication for Rating Group 8 at +25% in order to moderate loss cost level changes.

PRIOR ISO  
REVISIONS

The latest revisions in this state are:

<u>Reference Document or Filing</u>	CF-2020-RLA1	CF-2018-RLA1
<u>Rates/ Loss Costs</u>	Loss Costs	Loss Costs
<u>Dates Implemented</u>	10/01/2021	04/01/2019
<u>Changes</u>		
Basic Group I	-1.2%	3.9%
Basic Group II	3.3%	13.7%
Special Causes of Loss	4.7%	10.9%
Total	1.7%	3.7%

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HISTORICAL  
SOURCE DATA

The data used in this revision is:

- . Voluntary experience for ISO reporting companies.
  - . Five calendar/accident years ending 9/30/2022 for Basic Group I and Special Causes of Loss.
  - . Ten calendar/accident years ending 9/30/2022 for Basic Group II.
-



DISTRIBUTION  
OF STATEWIDE  
MONOLINE  
LOSS COST  
CHANGES

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

- by 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 territory (where applicable) or category for Basic Group I and Special Causes of Loss. Therefore, the resulting changes will vary by territory (where applicable) for Basic Group I and by category for Special Causes of Loss.

TREND AND  
OTHER  
ADJUSTMENTS

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Loss Trend

For trend purposes, the period of use for this revision is assumed to begin on 09/01/2024. 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 2021.

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	7.2%
Contents	7.4%
Time Element	6.9%

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	-0.3%	0.3%	1.6%
Basic Group II	0.5%	3.1%	2.3%
Special Causes of Loss	0.2%	-0.2%	1.6%

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	6.9%	7.7%	8.6%
Basic Group II	7.7%	10.8%	9.3%
Special Causes of Loss	7.4%	7.2%	8.6%

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	3.9%	2.3%	1.6%
Basic Group II	3.5%	2.1%	1.6%
Special Causes of Loss	3.7%	1.8%	1.6%

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. Liberty Mutual Insurance Company
3. Tokio Marine Companies
4. Nationwide Mutual Insurance Company
5. Westfield Insurance Company
6. Great American Insurance Company
7. Motorists Mutual Insurance Company
8. Central Mutual Insurance Company
9. Frankenmuth Mutual Insurance Company
10. Selective Insurance Company Of America

Insurers are listed in descending order based on the percent of statewide written premium volume from Annual Statement Page 15 for year ending 12/31/2022 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.

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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 12/31/2022 is:

Commercial Multi-peril - Non-liability (ASLOB 51) – 26.3%

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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.

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### 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".

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### STEP 2: DISTRIBUTION OF CHANGES

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

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### 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 are applied to the current manual loss costs. For those states with rating territories, the Balance of State loss cost changes 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.

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

OBJECTIVE	<p>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?</p>
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	<p>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.</p>

## 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 and territory 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 territory relativities serve to price the various territories relative to one another.</p> <p>The overall loss cost change is distributed across type of policy and territory. The indicated monoline change is the product of the monoline type of policy relativity, the territorial relativity, and the statewide loss cost level change.</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 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. 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 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:

$$TOP_i = \frac{\sum_{k=1}^t W_{ik}^2 R_{ik} TER_k}{\sum_{k=1}^t W_{ik}^2 TER_k^2}, \text{ where } 1 \leq i \leq m;$$

$$TER_k = \frac{\sum_{i=1}^m W_{ik}^2 R_{ik} TOP_i}{\sum_{i=1}^m W_{ik}^2 TOP_i^2}, \text{ where } 1 \leq k \leq t;$$

SPECIAL CAUSES OF LOSS:

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

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

## 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;
- $CAT_j$  is the relativity for the  $j$ th category;
- $TER_k$  is the relativity for the  $k$ th territory;
- $W_{ik}$  is the loss cost volume at current level for the  $i$ th type of policy and  $k$ th territory;
- $R_{ij}$  is the experience ratio relativity for the  $i$ th type of policy and  $j$ th category (Special Causes of Loss);
- $R_{ik}$  is the experience ratio relativity for the  $i$ th type of policy and  $k$ th territory (Basic Group I);
- $m$  is the number of types of policy in the analysis;
- $n$  is the number of 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  $t$  territory relativities is 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 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 category 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 territory by taking the product of the monoline type of policy (TOP 10) relativity, the territory relativity, and the statewide loss cost level change. (An example of such a calculation appears on Exhibit B4.)

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 territory changes.

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.

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

### 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:

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

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

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

INTRODUCTION	<p>The experience used in the relativity analysis and displayed in Exhibit B6 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>2022 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>2018 - 2022 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>RELATIVITIES</u></p> <p>The relativities are the ratios of the five-year experience ratios shown in column (3) to the average five-year experience ratio for all TOP's 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.</p>

## EXPLANATORY NOTES TO EXHIBITS B7

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

INTRODUCTION	<p>The experience used in the relativity analysis and displayed in Exhibit 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>2022 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>2018 - 2022 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 and category.</p>

## EXPLANATORY NOTES TO EXHIBITS 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 (TOP and Category) within a class group. The K value is estimated from the underlying data using the empirical Bayes method and varies by TOP group. 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)

### Z-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 and categories 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)

##### 2022 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)

##### 2013 - 2022 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 C6, 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 C6 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 id, 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 id, rating group, and territory (where applicable) for Basic Group I and by category for Special Causes of Loss refer to Exhibits C4 and C6.

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 C6

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. 08/15/2023 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, 2022. 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> <p><math display="block">\text{MSEP} = (\text{CD} + \text{CN} + \text{FS}) + (\text{EXD\&amp;N} - \text{IMD\&amp;N}) + (\text{IFIX} - \text{IPP}), \text{ where}</math></p> <p>CD and CN represent consumption of durables and nondurables, respectively; EXD&amp;N and IMD&amp;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)

### PART B: COMPUTATION OF THE LOSS PROJECTION FACTORS

#### 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 C: 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 2023 COMFAL reviews is based on internal commercial property experience through 12/31/2021 and external cost indices through 12/31/2021. 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 12/31/2021 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 01/01/2020, for BG II it is 01/01/2017. Accordingly, there are 54 and 90 months, respectively, to the anticipated average accident date of 07/01/2024.

#### 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)                      07/01/2022 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 2022 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 2022 are applicable for the entire year.

COLUMNS (3)  
AND (7)                      03/01/2025 PROJECTED FACTORS

The 03/01/2025 factors are calculated by applying a factor to adjust the 07/01/2022 written factors to the amount of insurance level at the average date of writing, 03/01/2025. This is done using the selected annual changes in exposure or premium.

COLUMNS (4)  
AND (8)                      03/01/2025 EARNED EXPOSURES/PREMIUM FACTORS

The projected earned factors at the 03/01/2025 level (where 03/01/2025 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, 2022, 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, 2022.

Accident year ended September 30, 2022 includes all losses paid on accidents from October 1, 2021 to September 30, 2022 and all losses outstanding on those accidents as of December 31, 2022, fifteen months after the inception of the accident year. Similarly, accident years ended 2021, 2020, 2019 and 2018 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. ("BASIC GROUP II REGIONS" 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 (1986 - 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) SMOOTHED INCURRED LOSSES

The smoothed 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 smoothed 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 the following page 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.

## 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 2017-2021 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	1.090
Basic Group II	1.105
Special Causes of Loss	1.105



## INDIANA

SUMMARY OF MONOLINE PROSPECTIVE LOSS COST CHANGES (A)

<u>Coverage</u>	<u>Indications</u>	<u>Selections (B)</u>	Aggregate Loss Costs At Current <u>Level</u>
Basic Group I	-15.8%	-15.8%	43,386,887
Indianapolis	-25.5%	-25.5%	
Balance Of State (Indiana)	-14.1%	-14.1%	
Basic Group II	+14.7%	+14.7%	29,340,653
Special Causes of Loss	+0.8%	+0.1%	19,089,556
All Coverages Combined	-2.6%	-2.7%	91,817,096

(A) For trend purposes, the period of use for this revision is assumed to begin on 09/01/2024.

(B) The loss cost level change for SCL Category 08 has been capped at +25% in order to moderate loss cost level changes.

## INDIANA

SPECIAL CAUSES OF LOSS PROSPECTIVE LOSS COST CHANGES BY CATEGORY

<u>Category</u>	<u>Description</u>	<u>Entire State Indicated</u>	<u>Entire State Capped (a)</u>
01	Buildings	-0.7%	-0.7%
02	Res. Apts. And Condos	+1.3%	+1.3%
03	Offices	-6.9%	-6.9%
04	Mercantile - High	-4.4%	-4.4%
05	Mercantile - Medium	-1.3%	-1.3%
06	Mercantile - Low	+0.1%	+0.1%
07	Motels And Hotels	+1.2%	+1.2%
08	Institutional - High	+54.3%	+25.0%
09	Institutional - Low	-1.9%	-1.9%
10	Indust-Proc - High	+1.7%	+1.7%
11	Indust-Proc - Low	+10.0%	+10.0%
12	Service - High	+4.4%	+4.4%
13	Service - Low	-0.9%	-0.9%
14	Contractors	+3.2%	+3.2%
	Statewide Total	+0.8%	+0.1%

(a) The loss cost level change for Category 08 has been capped at +25% in order to moderate loss cost level changes.

## INDIANA

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

	(1)	(2)	(3)	(4)
		Basic	Basic	Special
Type of Policy		<u>Group I</u>	<u>Group II</u>	<u>Causes</u> <u>of Loss</u>
31 Motel/Hotel		-16.6%	14.7%	-0.4%
32 Apartment		-16.7%	14.7%	-0.3%
33 Office		-16.6%	14.7%	-2.6%
34 Mercantile		-16.0%	14.7%	-1.1%
35 Institutional		-15.0%	14.7%	1.6%
36 Services		-15.9%	14.7%	0.4%
37 Indust/Processing		-15.1%	14.7%	3.0%
38 Contractors		-16.2%	14.7%	0.7%

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) for BGI, 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)	(2)	(3)	(4)	(5)
	Aggregate*	Adjusted**	Experience	
<u>Year</u>	<u>Loss Costs</u>	<u>Incurred Losses</u>	<u>Ratio</u> <u>(3)/(2)</u>	<u>Weights</u>
2018	47,224,032	53,642,528	1.136	0.10
2019	46,566,489	41,880,537	0.899	0.15
2020	45,034,019	36,003,116	0.799	0.20
2021	43,840,230	35,071,118	0.800	0.25
2022	43,386,887	35,455,942	0.817	0.30
(6) Weighted Experience Ratio				= 0.853
(7) Credibility				= 0.391
(8) Expected Experience Ratio				= 1.039
(9) Credibility Weighted Experience Ratio				= 0.966
(0.391 X 0.853 ) + (0.609 X 1.039)				
(10) Indicated Coverage Loss Cost Change				= 0.966
				OR -3.4%

\* Aggregate Loss Costs are adjusted to current ISO Loss Cost Level and 03/01/2025 Amount of Insurance levels.

\*\* Incurred Losses are adjusted to 09/01/2025 cost levels including Loss Development and all Loss Adjustment Expenses.

## INDIANA

STATEWIDE BASIC GROUP II  
COVERAGE LOSS COST LEVEL EVALUATION

(1)	(2)	(3)	(4)	(5)
	Aggregate*	Adjusted**	Experience	
<u>Year</u>	<u>Loss Costs</u>	<u>Incurred Losses</u>	<u>Ratio</u> <u>(3)/(2)</u>	<u>Weights</u>
2013	31,114,026	38,653,552	1.242	0.10
2014	31,985,643	43,421,914	1.358	0.10
2015	30,793,462	26,038,078	0.846	0.10
2016	29,754,257	53,662,310	1.804	0.10
2017	31,430,974	50,919,108	1.620	0.10
2018	32,823,847	37,223,098	1.134	0.10
2019	33,244,387	56,004,764	1.685	0.10
2020	31,971,952	39,958,512	1.250	0.10
2021	31,019,451	37,864,267	1.221	0.10
2022	29,340,653	40,979,341	1.397	0.10
(6) Weighted Experience Ratio				= 1.356
(7) Credibility				= 0.515
(8) Expected Experience Ratio				= 1.054
(9) Credibility Weighted Experience Ratio (0.515 X 1.356 ) + (0.485 X 1.054)				= 1.210
(10) Indicated Coverage Loss Cost Change				= 1.210
				OR 21.0%

\* Aggregate Loss Costs are adjusted to current ISO Loss Cost Level and 03/01/2025 Amount of Insurance levels.

\*\* Incurred Losses are adjusted to 09/01/2025 cost levels including Loss Development and all Loss Adjustment Expenses.

## INDIANA

STATEWIDE SPECIAL CAUSES OF LOSS  
COVERAGE LOSS COST LEVEL EVALUATION

(1)	(2)	(3)	(4)	(5)
	Aggregate*	Adjusted**	Experience	
<u>Year</u>	<u>Loss Costs</u>	<u>Incurred Losses</u>	<u>Ratio</u> <u>(3)/(2)</u>	<u>Weights</u>
2018	24,764,821	31,975,914	1.291	0.10
2019	24,469,797	41,731,956	1.705	0.15
2020	23,920,652	14,001,946	0.585	0.20
2021	21,874,451	16,261,982	0.743	0.25
2022	19,089,556	16,215,757	0.849	0.30
(6) Weighted Experience Ratio				= 0.942
(7) Credibility				= 0.344
(8) Expected Experience Ratio				= 1.047
(9) Credibility Weighted Experience Ratio				= 1.011
(0.344 X 0.942 ) + (0.656 X 1.047)				
(10) Indicated Coverage Loss Cost Change				= 1.011
				OR 1.1%

\* Aggregate Loss Costs are adjusted to current ISO Loss Cost Level and 03/01/2025 Amount of Insurance levels.

\*\* Incurred Losses are adjusted to 09/01/2025 cost levels including Loss Development and all Loss Adjustment Expenses.

INDIANA  
BASIC GROUP I RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	Statewide Coverage Loss Cost Change Of Or	0.966 -3.4%
<u>TOP</u>	<u>\$ Lst Sq Formula Relativity</u>	<u>Credibility Z</u>	<u>Credibility Weighted Relativity</u>	<u>Balanced Relativity</u>		
10	0.545	0.232	0.869	0.871		
31	0.499	0.031	0.979	0.981		
32	1.394	0.275	1.096	1.098		
33	0.727	0.115	0.964	0.966		
34	1.171	0.305	1.049	1.051		
35	0.930	0.252	0.982	0.984		
36	1.408	0.207	1.073	1.075		
37	0.734	0.236	0.930	0.932		
38	0.802	0.067	0.985	0.987		

Statewide Monoline Loss Cost Level Change: -15.8%

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<u>Territory</u>	<u>\$ Lst Sq Formula Relativity</u>	<u>Credibility Z</u>	<u>Credibility Weighted Relativity</u>	<u>Balanced Relativity</u>	<u>Indicated Monoline Loss Cost Level Change</u>	<u>Off- Balance Factor</u>	<u>Indicated Territorial Multiplier Change</u>	<u>Current Territorial Multiplier</u>	<u>Revised Territorial Multiplier</u>
Indianapolis	0.745	0.364	0.898	0.885	-25.5%	1.000	-13.3%	1.794	1.555
alance Of State (Indi	1.046	0.780	1.036	1.021	-14.1%	1.000	0.0%	1.000	1.000

INDIANA  
BASIC GROUP I RELATIVITY ANALYSIS

Sample Loss Cost Level Change Calculation for Indianapolis:

Statewide Coverage Loss Cost Change	=	0.966
Territorial Relativity	=	0.885
Monoline (TOP 10) Relativity	=	0.871

Indicated Monoline Loss Cost Level Change		
= 0.966 x 0.885 x 0.871	=	0.745
	or	-25.5%



INDIANA  
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	Statewide Coverage Loss Cost Change Of	1.011 1.1%
TOP	\$ Lst Sq Formula Relativity	Credibility Z	Credibility Weighted Relativity	Balanced Relativity	or	
10	0.971	0.196	0.994	0.997		
31	1.533	0.026	1.011	1.014		
32	0.826	0.243	0.955	0.958		
33	1.595	0.170	1.083	1.086		
34	1.313	0.354	1.101	1.104		
35	0.922	0.459	0.963	0.966		
36	0.717	0.239	0.924	0.927		
37	0.575	0.178	0.906	0.909		
38	0.708	0.117	0.960	0.963		

	(1)	(2)	(3)	(4)	(5)	(6)
Category	\$ Lst Sq Formula Relativity	Credibility Z	Credibility Weighted Relativity	Balanced Relativity	Indicated Monoline Loss Cost Level Change	Selected Monoline Loss Cost Change (a)
01	0.974	0.823	0.979	0.985	-0.7%	-0.7%
02	0.994	0.124	0.999	1.005	1.3%	1.3%
03	0.610	0.173	0.918	0.924	-6.9%	-6.9%
04	0.716	0.179	0.942	0.948	-4.4%	-4.4%
05	0.835	0.154	0.973	0.979	-1.3%	-1.3%
06	0.866	0.088	0.987	0.993	0.1%	0.1%
07	0.842	0.011	0.998	1.004	1.2%	1.2%
08	2.312	0.500	1.521	1.531	54.3%	25.0%
09	0.885	0.277	0.967	0.973	-1.9%	-1.9%
10	1.086	0.035	1.003	1.009	1.7%	1.7%
11	1.537	0.187	1.084	1.091	10.0%	10.0%
12	1.234	0.134	1.029	1.036	4.4%	4.4%
13	0.819	0.118	0.977	0.983	-0.9%	-0.9%
14	1.125	0.139	1.017	1.024	3.2%	3.2%
Statewide Monoline Loss Cost Level Change:					0.8%	0.1%

(a) The loss cost change for Category 08 has been capped at +25% in order to moderate loss cost level changes.

INDIANA  
SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

Sample Loss Cost Level Change Calculation:

Statewide Coverage Loss Cost Change	=	1.011
Monoline (TOP 10) Relativity	=	0.997
Category 1 Relativity	=	0.985
Indicated Monoline Loss Cost Level Change for Category 1	=	0.993
	OR	-0.7%

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

Type Of Policy	(1) Accident Year Ending 09/30/2022 Aggregate Loss <u>Costs</u>	(2) 5 - Year Aggregate <u>Loss Costs</u>	(3) 5 - Year Experience <u>Ratio</u>	(4) 5 - Year Exp. Ratio <u>Relativity</u>
Indianapolis				
10 Monoline	822,035	3,703,390	0.272	0.309
31 Multiline Motel/Hotel	114,286	633,119	0.177	0.201
32 Multiline Apartment	1,859,299	7,564,642	0.983	1.118
33 Multiline Office	573,653	2,578,424	0.093	0.106
34 Multiline Mercantile	1,456,597	6,939,392	0.503	0.572
35 Multiline Institutional	318,824	1,972,577	0.385	0.438
36 Multiline Services	742,202	4,046,697	1.231	1.400
37 Multiline Indust/Process	504,798	2,764,247	1.649	1.876
38 Multiline Contractors	240,514	1,306,350	0.529	0.602
Total All Tops*	6,632,208	31,508,838	0.732	0.832
Balance Of State (Indiana)				
10 Monoline	7,013,891	26,569,328	0.501	0.570
31 Multiline Motel/Hotel	416,917	2,574,615	0.466	0.530
32 Multiline Apartment	6,194,875	30,320,918	1.275	1.451
33 Multiline Office	2,019,015	10,442,072	0.689	0.784
34 Multiline Mercantile	7,126,537	36,848,671	1.083	1.232
35 Multiline Institutional	3,699,931	31,799,262	0.855	0.973
36 Multiline Services	4,042,066	22,006,811	1.285	1.462
37 Multiline Indust/Process	5,199,764	28,154,314	0.666	0.758
38 Multiline Contractors	1,041,683	5,826,828	0.737	0.838
Total All Tops*	36,754,679	194,542,819	0.906	1.031

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

<u>Type Of Policy</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss <u>Costs</u>	(2) 5 - Year Aggregate <u>Loss Costs</u>	(3) 5 - Year Experience <u>Ratio</u>	(4) 5 - Year Exp. Ratio <u>Relativity</u>
Entire State				
10 Monoline	7,835,926	30,272,718	0.477	0.543
31 Multiline Motel/Hotel	531,203	3,207,734	0.404	0.459
32 Multiline Apartment	8,054,174	37,885,560	1.208	1.374
33 Multiline Office	2,592,668	13,020,496	0.557	0.634
34 Multiline Mercantile	8,583,134	43,788,063	0.985	1.120
35 Multiline Institutional	4,018,755	33,771,839	0.818	0.931
36 Multiline Services	4,784,268	26,053,508	1.277	1.452
37 Multiline Indust/Process	5,704,562	30,918,561	0.753	0.857
38 Multiline Contractors	1,282,197	7,133,178	0.698	0.794
Total All Tops*	43,386,887	226,051,657	0.879	1.001

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

<u>Type Of Policy</u>	<u>Category</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Entire State						
10 Monoline	01 Buildings	1,428,430	6,410,950	0.913	0.899	0.978
	02 Res. Apts. And Cond	15,053	131,615	0.690	0.763	0.830
	03 Offices	99,479	506,791	0.357	0.595	0.647
	04 Mercantile - High	116,183	544,263	1.642	1.191	1.296
	05 Mercantile - Medium	61,212	213,400	0.488	0.690	0.751
	06 Mercantile - Low	42,417	145,179	0.066	0.573	0.624
	07 Motels And Hotels	1,114	22,535	0.000	0.612	0.666
	08 Institutional - Hig	53,211	374,120	0.538	0.689	0.750
	09 Institutional - Low	23,279	254,848	0.001	0.510	0.555
	10 Indust-Proc - High	48,378	127,248	0.556	0.724	0.788
	11 Indust-Proc - Low	77,393	446,730	0.136	0.507	0.552
	12 Service - High	34,269	146,844	0.702	0.766	0.834
	13 Service - Low	71,903	359,607	0.437	0.650	0.707
	14 Contractors	11,338	56,417	0.128	0.627	0.682
	Total	2,083,659	9,740,547	0.814	0.846	0.921
31 Multiline Motel/Hotel	01 Buildings	155,350	907,443	1.851	1.407	1.531
	07 Motels And Hotels	27,210	147,083	1.303	1.217	1.324
	Total	182,560	1,054,526	1.769	1.379	1.500

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

<u>Type Of Policy</u>	<u>Category</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss <u>Costs</u>	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience <u>Ratio</u>	(4) Credibility Weighted Experience <u>Ratio</u>	(5) Credibility Weighted <u>Relativity</u>
32 Multiline Apartment	01 Buildings	2,014,649	10,836,408	0.655	0.758	0.825
	02 Res. Apts. And Cond	550,489	1,985,307	0.287	0.774	0.842
	Total	2,565,138	12,821,715	0.576	0.761	0.829
33 Multiline Office	01 Buildings	1,125,233	5,737,716	1.575	1.464	1.593
	03 Offices	502,043	2,434,445	0.644	0.916	0.997
	04 Mercantile - High	112	2,183	1998.500	195.874	213.138
	08 Institutional - Hig	842	1,770	0.000	1.086	1.182
	11 Indust-Proc - Low	454	473	0.000	1.086	1.182
	12 Service - High	424	2,001	0.000	1.086	1.182
	14 Contractors	516	2,366	0.000	1.086	1.182
	Total	1,629,624	8,180,954	1.423	1.308	1.423

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

<u>Type Of Policy</u>	<u>Category</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
34 Multiline Mercantile	01 Buildings	2,982,740	15,423,250	1.207	1.206	1.312
	03 Offices	9,699	43,483	0.261	1.099	1.196
	04 Mercantile - High	476,974	2,524,750	0.550	0.862	0.938
	05 Mercantile - Medium	502,114	2,496,840	0.878	1.034	1.125
	06 Mercantile - Low	231,371	1,265,464	0.867	1.077	1.172
	08 Institutional - Hig	0	49	0.000	1.087	1.183
	09 Institutional - Low	0	2	0.000	1.087	1.183
	10 Indust-Proc - High	3,690	5,460	0.000	1.084	1.180
	11 Indust-Proc - Low	1,359	4,814	0.000	1.085	1.181
	12 Service - High	12,066	59,981	0.000	1.064	1.158
	13 Service - Low	10,351	60,179	0.646	1.139	1.239
	14 Contractors	15,434	50,057	0.000	1.068	1.162
	Total	4,245,798	21,934,329	1.063	1.139	1.239
35 Multiline Institutional	01 Buildings	2,274,781	13,887,456	0.780	0.845	0.919
	03 Offices	4,074	20,106	0.000	1.079	1.174
	04 Mercantile - High	57	169	0.000	1.086	1.182
	08 Institutional - Hig	358,177	14,543,760	2.192	2.046	2.226
	09 Institutional - Low	873,509	5,410,092	0.573	0.769	0.837
	12 Service - High	341	2,517	0.000	1.086	1.182
	13 Service - Low	1,230	5,379	0.492	1.133	1.233
	14 Contractors	721	2,871	0.000	1.085	1.181
	Total	3,512,890	33,872,350	0.871	0.949	1.032

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

<u>Type Of Policy</u>	<u>Category</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
36 Multiline Services	01 Buildings	1,580,852	8,553,900	0.647	0.658	0.716
	03 Offices	9,408	49,236	0.358	0.663	0.721
	04 Mercantile - High	9,610	56,016	9.401	1.729	1.881
	05 Mercantile - Medium	1,832	9,190	1.329	0.766	0.834
	06 Mercantile - Low	2,463	12,725	29.648	3.646	3.967
	08 Institutional - Hig	19,306	84,305	0.000	0.613	0.667
	09 Institutional - Low	9,515	87,894	0.000	0.612	0.666
	11 Indust-Proc - Low	4,161	21,928	1.111	0.746	0.812
	12 Service - High	384,131	2,085,647	0.963	0.839	0.913
	13 Service - Low	248,321	1,562,482	0.399	0.564	0.614
	14 Contractors	22,784	71,256	0.000	0.616	0.670
	Total	2,292,383	12,594,579	0.727	0.685	0.746
37 Indust/Proc	01 Buildings	972,776	5,184,721	0.436	0.511	0.556
	03 Offices	1,923	8,057	0.000	0.633	0.689
	04 Mercantile - High	4,980	28,187	0.000	0.628	0.683
	05 Mercantile - Medium	501	2,628	0.000	0.635	0.691
	06 Mercantile - Low	14	14	0.000	0.635	0.691
	10 Indust-Proc - High	81,625	416,578	0.903	0.750	0.816
	11 Indust-Proc - Low	546,504	2,974,520	0.969	0.863	0.939
	12 Service - High	2,480	10,368	0.000	0.632	0.688
	13 Service - Low	566	6,398	0.000	0.634	0.690
	14 Contractors	367	2,690	0.000	0.635	0.691
	Total	1,611,736	8,634,161	0.637	0.643	0.700



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

<u>Type Of Policy</u>	<u>Category</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss <u>Costs</u>	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience <u>Ratio</u>	(4) Credibility Weighted Experience <u>Ratio</u>	(5) Credibility Weighted <u>Relativity</u>
38 Multiline Contractors	01 Buildings	529,954	2,799,058	0.609	0.648	0.705
	03 Offices	15,302	72,804	3.507	1.051	1.144
	04 Mercantile - High	23,712	125,305	1.415	0.805	0.876
	05 Mercantile - Medium	1,092	4,342	6.839	1.307	1.422
	06 Mercantile - Low	3,053	20,596	2.383	0.879	0.956
	08 Institutional - Hig	181	633	0.000	0.635	0.691
	11 Indust-Proc - Low	3,690	6,514	0.000	0.633	0.689
	12 Service - High	3,108	14,831	0.000	0.631	0.687
	13 Service - Low	3,397	9,569	1.488	0.782	0.851
	14 Contractors	382,353	2,232,747	0.795	0.753	0.819
	Total	965,842	5,286,399	0.760	0.702	0.763
Total All TOPs	01 Buildings	13,064,765	69,740,902	0.905	0.924	1.006
	02 Res. Apts. And Cond	565,542	2,116,922	0.298	0.774	0.842
	03 Offices	641,928	3,134,922	0.652	0.869	0.945
	04 Mercantile - High	631,628	3,280,873	1.268	0.966	1.052
	05 Mercantile - Medium	566,751	2,726,400	0.848	0.996	1.084
	06 Mercantile - Low	279,318	1,443,978	1.016	1.021	1.111
	07 Motels And Hotels	28,324	169,618	1.252	1.193	1.298
	08 Institutional - Hig	431,717	15,004,637	1.885	1.812	1.972
	09 Institutional - Low	906,303	5,752,836	0.552	0.761	0.828
	10 Indust-Proc - High	133,693	549,286	0.753	0.750	0.816
	11 Indust-Proc - Low	633,561	3,454,979	0.860	0.818	0.890
	12 Service - High	436,819	2,322,189	0.902	0.837	0.911
	13 Service - Low	335,768	2,003,614	0.425	0.605	0.658
	14 Contractors	433,513	2,418,404	0.705	0.755	0.821
	Total	19,089,630	114,119,560	0.881	0.919	1.000

## INDIANA

BASIC GROUP II RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Accident Year Ending 09/30/2022	Accident Years 2013-2022	Formula	Credibility	Credibility	Balanced	Normalized	Current	Indicated	Indicated
	Loss Costs	Experience Ratio	Relativity	Weighted	Weighted	Formula	Formula	Implicit	Implicit	Total
	At Current	At Current	(2)/ 1.341	(C)	Relativity (D)	Relativity (E)	Relativity (F)	PMF	PMF (G)	Loss
	<u>Implicit PMF</u>	<u>PMF</u>								<u>Cost</u>
										<u>Adjustment</u>
Monoline	3,152,402	1.177	0.878	0.374	0.954	0.954	0.9476			14.7%
Multiline	26,188,251	1.361	1.015	0.864	1.013	1.013	1.0064			21.8%
Coverage	29,340,653	1.341	1.000			1.007	1.000			21.0%
<u>Multiline Top</u>										
31 Motel/Hotel	324,890	1.744	1.301	0.078	1.023	1.030	1.0230	1.312	1.416	23.8%
32 Apartment	5,826,709	1.256	0.937	0.532	0.966	0.973	0.9664	1.457	1.486	16.9%
33 Office	1,875,782	1.143	0.852	0.261	0.961	0.968	0.9615	0.845	0.857	16.3%
34 Mercantile	5,800,404	1.398	1.043	0.562	1.024	1.031	1.0240	1.089	1.177	23.9%
35 Institutional	4,534,074	1.384	1.032	0.631	1.020	1.027	1.0201	0.655	0.705	23.4%
36 Services	4,152,215	1.378	1.028	0.497	1.014	1.021	1.0141	1.159	1.240	22.7%
37 Indust/Process	2,567,081	1.520	1.133	0.355	1.047	1.054	1.0469	0.636	0.703	26.7%
38 Contractors	1,107,096	1.445	1.078	0.203	1.016	1.023	1.0161	1.095	1.174	22.9%
	26,188,251	1.361	1.015		1.006	1.013	1.0064			21.8%

For Columns (2) - (10), the Multiline total is the 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) =  $((3) * (4)) + ((1.000 - (4)) * 1.000)$

E - (6) =  $(5) * (1.013/1.006)$

F - (7) =  $(6) / 1.0068$

G - (9) =  $(7) * (8) / (0.9476)$

INDIANA  
BASIC GROUP I  
HISTORY OF STATEWIDE LOSS COST LEVEL CHANGES

Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost Level Index	Adjustment Factor	Weight
2000-09-01	-12.5%	0.875	0.693	0.333
2001-09-01	2.7%	0.899	0.674	0.333
2003-12-01	18.3%	1.063	0.570	0.083
2004-10-01	-2.3%	1.039	0.583	0.250
2006-03-01	6.4%	1.105	0.548	0.833
2008-04-01	-18.3%	0.903	0.671	0.750
2009-03-01	-13.8%	0.778	0.779	0.833
2010-03-01	-12.1%	0.684	0.886	0.833
2011-04-01	-10.2%	0.614	0.987	0.750
2012-04-01	-2.3%	0.600	1.010	0.750
2014-04-01	-1.7%	0.590	1.027	0.750
2015-04-01	0.0%	0.590	1.027	0.750
2019-04-01	3.9%	0.613	0.989	0.750
2021-10-01	-1.2%	0.606	1.000	0.250

Time Element Only Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost 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 LEVEL CHANGES

Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost Level Index	Adjustment Factor	Weight
2000-09-01	-5.1%	0.949	1.298	0.333
2001-09-01	-10.0%	0.854	1.443	0.333
2003-12-01	-4.6%	0.815	1.512	0.083
2004-10-01	-1.1%	0.806	1.529	0.250
2006-03-01	18.1%	0.952	1.294	0.833
2008-04-01	-10.3%	0.854	1.443	0.750
2009-03-01	-10.6%	0.763	1.615	0.833
2010-03-01	4.8%	0.800	1.540	0.833
2011-04-01	0.8%	0.806	1.529	0.750
2012-04-01	0.0%	0.806	1.529	0.750
2014-04-01	17.5%	0.947	1.301	0.750
2015-04-01	10.7%	1.049	1.174	0.750
2019-04-01	13.7%	1.192	1.034	0.750
2021-10-01	3.3%	1.232	1.000	0.250

Time Element Only Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost 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 LEVEL CHANGES

Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost Level Index	Adjustment Factor	Weight
2000-09-01	23.0%	1.230	0.578	0.333
2001-09-01	10.8%	1.363	0.522	0.333
2003-12-01	-25.8%	1.011	0.703	0.083
2004-10-01	-4.8%	0.963	0.738	0.250
2006-03-01	27.4%	1.226	0.580	0.833
2008-04-01	-7.0%	1.141	0.623	0.750
2009-03-01	-7.8%	1.052	0.676	0.833
2010-03-01	0.9%	1.061	0.670	0.833
2011-04-01	-7.2%	0.985	0.722	0.750
2012-04-01	-16.0%	0.827	0.860	0.750
2014-04-01	-4.0%	0.794	0.895	0.750
2015-04-01	-4.0%	0.762	0.933	0.750
2019-04-01	-10.9%	0.679	1.047	0.750
2021-10-01	4.7%	0.711	1.000	0.250

Time Element Only Loss Cost Level History

(1)	(2)	(3)	(4)	(5)
Effective Date	Loss Cost Level Change	Loss Cost 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

(1) Effective Date	(2) Rating ID	(3) Rating Group																				
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
2006-03-01	Specific	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%
2006-03-01	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%
2008-04-01	Specific	-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%
2008-04-01	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%
2009-03-01	Specific	-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%
2009-03-01	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%
2010-03-01	Specific	-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%
2010-03-01	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%
2011-04-01	Specific	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%
2011-04-01	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%
2012-04-01	Specific	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%
2012-04-01	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%
2014-04-01	Specific	-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%
2014-04-01	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%
2015-04-01	Specific	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%
2015-04-01	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%
2019-04-01	Specific	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%
2019-04-01	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%
2021-10-01	Specific	-8.8%	-6.2%	0.4%	7.5%	-2.0%	-3.3%	-4.4%	-11.7%	-4.0%	-3.7%	-2.8%	-1.3%	-0.1%	-1.3%	-0.3%	-1.7%	-5.3%	-2.7%	-3.1%	1.4%	-5.9%
2021-10-01	Class	-8.8%	-6.2%	0.4%	7.5%	-2.0%	-3.3%	-4.4%	-11.7%	-4.0%	-3.7%	-2.8%	-1.3%	-0.1%	-1.3%	-0.3%	-1.7%	-5.3%	-2.7%	-3.1%	1.4%	-5.9%

## INDIANA

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

TERRITORY: Balance Of State (Indiana)

(1) Effective Date	(2) Rating ID	(3) Rating Group																				
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
2006-03-01	Specific	-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%
2006-03-01	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%
2008-04-01	Specific	-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%
2008-04-01	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%
2009-03-01	Specific	-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%
2009-03-01	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%
2010-03-01	Specific	-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%
2010-03-01	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%
2011-04-01	Specific	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%
2011-04-01	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%
2012-04-01	Specific	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%
2012-04-01	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%
2014-04-01	Specific	-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%
2014-04-01	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%
2015-04-01	Specific	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%
2015-04-01	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%
2019-04-01	Specific	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%
2019-04-01	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%
2021-10-01	Specific	-7.5%	-4.9%	1.8%	9.1%	-0.6%	-1.9%	-3.0%	-10.4%	-2.6%	-2.3%	-1.4%	0.1%	1.3%	0.1%	1.1%	-0.3%	-4.0%	-1.3%	-1.7%	2.8%	-4.6%
2021-10-01	Class	-7.5%	-4.9%	1.8%	9.1%	-0.6%	-1.9%	-3.0%	-10.4%	-2.6%	-2.3%	-1.4%	0.1%	1.3%	0.1%	1.1%	-0.3%	-4.0%	-1.3%	-1.7%	2.8%	-4.6%

## INDIANA

## SPECIAL CAUSES OF LOSS

HISTORY OF LOSS COST LEVEL CHANGES BY CATEGORY

(1) Effective Date	(2) Category													
	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
2006-03-01	30.0%	19.8%	22.1%	12.7%	24.0%									
2008-04-01	-5.2%	-15.1%	-5.5%	-23.5%	-9.9%									
2009-03-01	-8.1%	-13.7%	-4.8%	-8.2%	-5.2%									
2010-03-01	0.6%	-5.1%	5.3%	4.4%	-0.5%									
2011-04-01	-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%
2012-04-01	-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%
2014-04-01	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%
2015-04-01	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%
2019-04-01	-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%
2021-10-01	0.1%	5.4%	5.1%	6.3%	4.7%	5.9%	6.3%	19.2%	5.4%	7.9%	12.0%	6.3%	3.7%	7.1%



## INDIANA

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

<u>TOP</u>	<u>Description</u>	<u>IPMF</u>	Low <u>Cap</u>	High <u>Cap</u>
31	Motel/Hotel	0.799	0.500	1.500
32	Apartment	0.760	0.500	1.500
33	Office	0.899	0.500	1.500
34	Mercantile	0.829	0.500	1.500
35	Institutional	0.600	0.500	1.500
36	Services	0.883	0.500	1.500
37	Indust/Processing	0.911	0.500	1.500
38	Contractors	0.800	0.500	1.500

## INDIANA

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

<u>TOP</u>	<u>Description</u>	<u>IPMF</u>	<u>Low</u> <u>Cap</u>	<u>High</u> <u>Cap</u>
31	Motel/Hotel	1.312	0.500	1.500
32	Apartment	1.457	0.500	1.500
33	Office	0.845	0.500	1.500
34	Mercantile	1.089	0.500	1.500
35	Institutional	0.655	0.500	1.500
36	Services	1.159	0.500	1.500
37	Indust/Processing	0.636	0.500	1.500
38	Contractors	1.095	0.500	1.500

## INDIANA

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

<u>TOP</u>	<u>Description</u>	<u>IPMF</u>	<u>Low</u> <u>Cap</u>	<u>High</u> <u>Cap</u>
31	Motel/Hotel	1.316	0.500	1.500
32	Apartment	1.235	0.500	1.500
33	Office	1.137	0.500	1.500
34	Mercantile	1.189	0.500	1.500
35	Institutional	0.874	0.500	1.500
36	Services	1.012	0.500	1.500
37	Indust/Processing	0.605	0.500	1.500
38	Contractors	1.236	0.500	1.500

## INDIANA

DEVELOPMENT OF CURRENT COST FACTORS AND LOSS PROJECTION FACTORS

Period ending September 30, 2023

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

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

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

Time Element Combined Index - Weighted average of IMSEP and RSALES indices <sup>(a)</sup>

Quarter	Buildings	Contents	IMSEP	RSALES	Time Element
					Combined Index
Q4-2020	129.8	122.9	1.034	1.018	1.023
Q1-2021	130.7	123.9	1.051	1.034	1.039
Q2-2021	135.9	126.7	1.073	1.061	1.065
Q3-2021	137.7	129.1	1.100	1.083	1.088
Q4-2021	140.9	131.8	1.130	1.113	1.118
Q1-2022	145.2	135.4	1.166	1.149	1.154
Q2-2022	146.2	139.7	1.205	1.174	1.183
Q3-2022	147.6	142.1	1.220	1.183	1.194
Q4-2022	149.6	144.7	1.229	1.185	1.198
Q1-2023	152.6	145.2	1.236	1.188	1.202
Q2-2023	154.5	145.5	1.240	1.192	1.206
Q3-2023	156.9	145.9	1.247	1.195	1.211

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

	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Annual Rate of Change (AROC)	+7.19%	+7.42%	+6.87%
Coefficient of Determination (R <sup>2</sup> )	0.979	0.954	0.912
Loss Projection Factor = $(1.0 + \text{AROC})^{(24.5/12)}$	1.1523	1.1574	1.1453

## INDIANA

DEVELOPMENT OF CURRENT COST FACTORS AND LOSS PROJECTION FACTORS

Period ending September 30, 2023

## Part C: Calculation of Current Cost Factors (CCF)

<u>Calendar Year Averages</u>				<u>Current Cost Factors Based on Average Index Values for Period ending September 30, 2023</u>		
<u>Year</u>	<u>XCI</u>	<u>PPI</u>	<u>Index</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
2013	102.7	109.7	1.022	156.9 / 102.7 = 1.528	145.9 / 109.7 = 1.329	1.211 / 1.022 = 1.185
2014	104.7	112.5	1.024	156.9 / 104.7 = 1.499	145.9 / 112.5 = 1.296	1.211 / 1.024 = 1.183
2015	109.1	113.8	1.003	156.9 / 109.1 = 1.438	145.9 / 113.8 = 1.282	1.211 / 1.003 = 1.208
2016	111.1	114.4	0.991	156.9 / 111.1 = 1.412	145.9 / 114.4 = 1.275	1.211 / 0.991 = 1.222
2017	114.3	116.4	1.000	156.9 / 114.3 = 1.373	145.9 / 116.4 = 1.253	1.211 / 1.000 = 1.211
2018	117.8	118.4	1.013	156.9 / 117.8 = 1.332	145.9 / 118.4 = 1.232	1.211 / 1.013 = 1.196
2019	121.5	120.9	1.018	156.9 / 121.5 = 1.292	145.9 / 120.9 = 1.206	1.211 / 1.018 = 1.190
2020	127.2	122.5	1.016	156.9 / 127.2 = 1.233	145.9 / 122.5 = 1.190	1.211 / 1.016 = 1.193
2021	136.3	127.9	1.078	156.9 / 136.3 = 1.151	145.9 / 127.9 = 1.141	1.211 / 1.078 = 1.124
2022	147.2	140.5	1.182	156.9 / 147.2 = 1.066	145.9 / 140.5 = 1.038	1.211 / 1.182 = 1.024

(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 9/01/2024, and all one year policies, the time interval between the midpoint of the latest period (8/15/2023) and the average date of accident (9/01/2025) would be 24.5 months.

## INDIANA

SUMMARY OF LOSS TREND ADJUSTMENTS (LTA'S)

(1)	(2)	(3)	(4)
<u>Coverage</u>	<u>Subline</u>	<u>5-Year Incurred</u>	<u>LTA's*</u>
Buildings	Basic Group I	3,657,062,915	-0.3%
	Basic Group II	4,450,315,838	0.5%
	Special Causes of Loss	2,327,811,519	0.2%
	Total	10,435,190,272	0.2%
Contents	Basic Group I	1,034,779,617	0.3%
	Basic Group II	486,799,243	3.1%
	Special Causes of Loss	800,403,105	-0.2%
	Total	2,321,981,965	0.7%
Time Element	Basic Group I	544,184,465	1.6%
	Basic Group II	296,823,948	2.3%
	Special Causes of Loss	242,926,481	1.6%
	Total	1,083,934,894	1.8%
Grand Total		13,841,107,130	0.4%

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

## INDIANA

DEVELOPMENT OF LTA'SI. EXTERNAL RATE OF CHANGE<sup>a</sup>

Calendar Year	(1) Buildings Current Cost Factor	(2) Contents Current Cost Factor	(3) Time Element Cost Factor	(4) Basic Group I (BGI)& Special Causes of Loss (SCL) Weights	(5) Basic Group II (BGII) Weights
2012	1.395	1.221	1.097		0.10
2013	1.372	1.201	1.094		0.10
2014	1.346	1.171	1.092		0.10
2015	1.291	1.158	1.115		0.10
2016	1.268	1.152	1.128		0.10
2017	1.233	1.133	1.118	0.10	0.10
2018	1.196	1.113	1.104	0.15	0.10
2019	1.160	1.090	1.099	0.20	0.10
2020	1.108	1.076	1.101	0.25	0.10
2021	1.034	1.031	1.038	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))	1.122	1.076	1.084
Basic Group II (Weighted on Column (5))	1.240	1.135	1.099

## (7) LOSS PROJECTION FACTORS

	Buildings	Contents	Time Element
Annual Rate of Change	0.060	0.029	0.030
Loss Projection Factor: <sup>b</sup> $(1.0 + \text{Annual Rate of Change})^{(X/12)}$	1.164	1.078	1.080

## (8) TOTAL TREND FACTOR (Average Current Cost Factor × Loss Projection Factor)

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss	1.306	1.160	1.171
Basic Group II	1.444	1.223	1.187

(9) EXTERNAL ANNUAL RATE OF CHANGE<sup>c</sup>

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss: $(\text{Total Trend Factor})^{12/54}$	1.061	1.034	1.036
Basic Group II: $(\text{Total Trend Factor})^{12/90}$	1.050	1.027	1.023

- (a) The Current Cost Factors and Loss Projection Factors on this exhibit are based on external economic indices through December 31, 2021 for Buildings, Contents and Time Element.
- (b) Assuming a loss cost revision date of July 1, 2023, the time interval between the midpoint of the latest period of external trend information (November 15, 2021) and the prospective average date of loss (July 1, 2024) 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, 2024) is 54 months for BG I and SCL, and 90 months for BG II. The weighted midpoint is January 1, 2020 for BG I and SCL, and January 1, 2017 for BG II.

## INDIANA

II. INTERNAL ANNUAL RATES OF CHANGE:

## (10) SELECTED COMFAL

Severity	Buildings	Contents	Time Element
Basic Group I (BGI)	1.075	1.060	1.070
Basic Group II (BGII)	1.060	1.090	1.070
Special Causes of Loss	1.065	1.050	1.070

Frequency	Buildings	Contents	Time Element
Basic Group I (BGI)	0.990	0.990	1.000
Basic Group II (BGII)	1.000	1.000	1.000
Special Causes of Loss	1.000	0.990	1.000

III. LTA CALCULATION:

## CALCULATION OF LTAs - BUILDINGS

	(11) External Rate of Change <sup>d</sup>	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA <sup>e</sup>	(15) Frequency Effect	(16) Final LTA <sup>f</sup>
Basic Group I (BGI)	1.061	1.075	1.3	0.7	-1.0	-0.3
Basic Group II (BGII)	1.050	1.060	1.0	0.5	0.0	0.5
Special Causes of Loss	1.061	1.065	0.4	0.2	0.0	0.2

## CALCULATION OF LTAs - CONTENTS

	(11) External Rate of Change <sup>d</sup>	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA <sup>e</sup>	(15) Frequency Effect	(16) Final LTA <sup>f</sup>
Basic Group I (BGI)	1.034	1.060	2.5	1.3	-1.0	0.3
Basic Group II (BGII)	1.027	1.090	6.1	3.1	0.0	3.1
Special Causes of Loss	1.034	1.050	1.5	0.8	-1.0	-0.2

## CALCULATION OF LTAs - TIME ELEMENT

	(11) External Rate of Change <sup>d</sup>	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA <sup>e</sup>	(15) Frequency Effect	(16) Final LTA <sup>f</sup>
Basic Group I (BGI)	1.036	1.070	3.3	1.6	0.0	1.6
Basic Group II (BGII)	1.023	1.070	4.6	2.3	0.0	2.3
Special Causes of Loss	1.036	1.070	3.3	1.6	0.0	1.6

(d) The external rates of change are based on external economic indices through December 31, 2021 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.



## INDIANA

EXPOSURE TREND  
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

Year	Buildings				Contents			
	(1) <sup>a</sup> Annual Written Increase	(2) <sup>a</sup> 7/1/2022 Written Factors	(3) <sup>b</sup> 3/1/2025 Projected Factors	(4) <sup>c</sup> 3/1/2025 Earned Factors	(5) <sup>a</sup> Annual Written Increase	(6) <sup>a</sup> 7/1/2022 Written Factors	(7) <sup>b</sup> 3/1/2025 Projected Factors	(8) <sup>c</sup> 3/1/2025 Earned Factors
2010	2.5%	1.379	1.563	1.592	1.7%	1.274	1.371	1.389
2011	2.5%	1.345	1.524	1.553	1.8%	1.252	1.348	1.365
2012	2.7%	1.310	1.484	1.514	1.8%	1.230	1.324	1.342
2013	2.6%	1.277	1.447	1.475	2.1%	1.204	1.296	1.317
2014	2.5%	1.246	1.412	1.438	2.1%	1.180	1.270	1.290
2015	2.3%	1.218	1.380	1.404	1.9%	1.158	1.246	1.264
2016	2.1%	1.193	1.352	1.373	1.8%	1.137	1.224	1.241
2017	2.1%	1.168	1.324	1.345	1.8%	1.117	1.202	1.219
2018	2.7%	1.137	1.288	1.315	1.9%	1.096	1.180	1.197
2019	2.9%	1.105	1.252	1.279	2.2%	1.073	1.155	1.174
2020	2.2%	1.082	1.226	1.246	2.1%	1.051	1.131	1.149
2021	3.2%	1.048	1.188	1.216	2.2%	1.028	1.107	1.125
2022	4.8%	1.000	1.133	1.174	2.8%	1.000	1.076	1.099

## 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 4.8% and 2.8% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2022 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 3/1/2025 (i.e., 6 months beyond an assumed revision date of 9/1/2024), by applying a factor of  $(1.048)^{(32/12)}$  for Buildings and  $(1.028)^{(32/12)}$  for Contents.
- c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factors used to adjust earned exposures for the period from 01/01/2022 to 12/31/2022 to the projected level are 1.174 for Buildings and 1.099 for Contents.

EXPOSURE TREND  
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

Time Element				
	(1) <sup>a</sup>	(2) <sup>a</sup>	(3) <sup>b</sup>	(4) <sup>c</sup>
	Annual	7/1/2022	3/1/2025	3/1/2025
	Written	Written	Projected	Earned
<u>Year</u>	<u>Increase</u>	<u>Factors</u>	<u>Factors</u>	<u>Factors</u>
2008	1.3%	1.144	1.193	
2009	0.8%	1.135	1.184	
2010	0.7%	1.127	1.176	1.182
2011	0.8%	1.118	1.166	1.173
2012	0.8%	1.109	1.157	1.164
2013	0.9%	1.099	1.147	1.154
2014	1.0%	1.088	1.135	1.144
2015	1.1%	1.076	1.123	1.132
2016	1.1%	1.065	1.111	1.120
2017	0.9%	1.055	1.101	1.109
2018	0.7%	1.048	1.093	1.099
2019	1.0%	1.037	1.082	1.090
2020	0.9%	1.028	1.072	1.080
2021	1.2%	1.016	1.060	1.069
2022	1.6%	1.000	1.043	1.056

## 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 1.6%. Consequently, the written factors at 7/1/2022 levels in column (2) are brought to the level of the average date of writing in the effective period, 3/1/2025 (i.e., 6 months beyond an assumed revision date of 9/1/2024), by applying a factor of  $(1.016)^{(32/12)}$  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 01/01/2022 to 12/31/2022 to the projected level is 1.056 for Time Element

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

Year	Buildings				Contents			
	(1) <sup>a</sup>	(2) <sup>a</sup>	(3) <sup>b</sup>	(4) <sup>c</sup>	(5) <sup>a</sup>	(6) <sup>a</sup>	(7) <sup>b</sup>	(8) <sup>c</sup>
	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors
2010	2.0%	1.298	1.437	1.459	1.4%	1.225	1.302	1.316
2011	2.0%	1.273	1.410	1.430	1.5%	1.207	1.282	1.297
2012	2.2%	1.245	1.379	1.402	1.5%	1.189	1.263	1.277
2013	2.1%	1.220	1.351	1.372	1.8%	1.168	1.241	1.257
2014	2.0%	1.196	1.324	1.344	1.8%	1.148	1.220	1.236
2015	1.9%	1.173	1.299	1.318	1.6%	1.130	1.201	1.215
2016	1.7%	1.154	1.278	1.294	1.5%	1.113	1.183	1.197
2017	1.7%	1.135	1.257	1.273	1.5%	1.097	1.166	1.179
2018	2.2%	1.110	1.229	1.250	1.6%	1.079	1.146	1.161
2019	2.3%	1.085	1.202	1.222	1.8%	1.060	1.126	1.141
2020	1.8%	1.066	1.180	1.197	1.8%	1.041	1.106	1.121
2021	2.6%	1.039	1.151	1.173	1.8%	1.023	1.087	1.101
2022	3.9%	1.000	1.107	1.140	2.3%	1.000	1.063	1.081

## 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 3.9% and 2.3% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2022 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 3/1/2025 (i.e., 6 months beyond an assumed revision date of 9/1/2024), by applying a factor of  $(1.039)^{(32/12)}$  for Buildings and  $(1.023)^{(32/12)}$  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 01/01/2022 to 12/31/2022 to the projected level are 1.14 for Buildings and 1.081 for Contents.

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

	Buildings				Contents			
	(1) <sup>a</sup>	(2) <sup>a</sup>	(3) <sup>b</sup>	(4) <sup>c</sup>	(5) <sup>a</sup>	(6) <sup>a</sup>	(7) <sup>b</sup>	(8) <sup>c</sup>
Year	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors
2010	1.9%	1.271	1.393	1.413	1.3%	1.204	1.273	1.286
2011	1.9%	1.247	1.367	1.387	1.4%	1.187	1.255	1.268
2012	2.0%	1.222	1.339	1.360	1.4%	1.171	1.238	1.251
2013	1.9%	1.200	1.315	1.333	1.6%	1.152	1.218	1.233
2014	1.9%	1.177	1.290	1.309	1.6%	1.134	1.199	1.213
2015	1.7%	1.158	1.269	1.285	1.4%	1.119	1.183	1.195
2016	1.6%	1.139	1.248	1.264	1.4%	1.103	1.166	1.179
2017	1.6%	1.121	1.229	1.243	1.4%	1.088	1.150	1.162
2018	2.0%	1.099	1.205	1.223	1.4%	1.073	1.134	1.146
2019	2.1%	1.077	1.180	1.199	1.7%	1.055	1.115	1.129
2020	1.6%	1.060	1.162	1.176	1.6%	1.038	1.097	1.111
2021	2.4%	1.035	1.134	1.155	1.7%	1.021	1.079	1.093
2022	3.5%	1.000	1.096	1.124	2.1%	1.000	1.057	1.073

## 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 3.5% and 2.1% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2022 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 3/1/2025 (i.e., 6 months beyond an assumed revision date of 9/1/2024), by applying a factor of  $(1.035)^{(32/12)}$  for Buildings and  $(1.021)^{(32/12)}$  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 01/01/2022 to 12/31/2022 to the projected level are 1.124 for Buildings and 1.073 for Contents.

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

Year	Buildings				Contents			
	(1) <sup>a</sup>	(2) <sup>a</sup>	(3) <sup>b</sup>	(4) <sup>c</sup>	(5) <sup>a</sup>	(6) <sup>a</sup>	(7) <sup>b</sup>	(8) <sup>c</sup>
	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors	Annual Written Increase	7/1/2022 Written Factors	3/1/2025 Projected Factors	3/1/2025 Earned Factors
2010	1.9%	1.281	1.411	1.432	1.1%	1.172	1.229	1.240
2011	1.9%	1.257	1.385	1.405	1.2%	1.158	1.214	1.225
2012	2.1%	1.231	1.356	1.378	1.2%	1.145	1.201	1.211
2013	2.0%	1.207	1.330	1.350	1.4%	1.129	1.184	1.197
2014	1.9%	1.184	1.304	1.324	1.4%	1.113	1.167	1.180
2015	1.8%	1.163	1.281	1.298	1.2%	1.100	1.154	1.164
2016	1.6%	1.145	1.261	1.276	1.2%	1.087	1.140	1.150
2017	1.6%	1.127	1.242	1.256	1.2%	1.074	1.126	1.137
2018	2.1%	1.104	1.216	1.235	1.2%	1.061	1.113	1.123
2019	2.2%	1.080	1.190	1.210	1.4%	1.047	1.098	1.109
2020	1.7%	1.062	1.170	1.185	1.4%	1.032	1.082	1.094
2021	2.4%	1.037	1.142	1.163	1.4%	1.018	1.068	1.079
2022	3.7%	1.000	1.102	1.132	1.8%	1.000	1.049	1.063

## 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 3.7% and 1.8% for Buildings and Contents, respectively. Consequently, the written factors at 7/1/2022 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 3/1/2025 (i.e., 6 months beyond an assumed revision date of 9/1/2024), by applying a factor of  $(1.037)^{(32/12)}$  for Buildings and  $(1.018)^{(32/12)}$  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 01/01/2022 to 12/31/2022 to the projected level are 1.132 for Buildings and 1.063 for Contents.

## INDIANA

## BASIC GROUP I

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

<u>Year</u>	(1)	(2)	(3)	(4)		
	Unadjusted	Trended	Average	Split %		
	Incurred	Incurred	Total Loss			
	<u>Losses</u>	<u>Losses</u>	Trend Factor			
			(2) / (1)	<u>Buildings</u>	<u>Contents</u>	<u>Time</u>
						<u>Element</u>
2018	30,853,022	50,490,596	1.636	83.6%	10.7%	5.7%
2019	21,733,250	34,372,858	1.582	82.3%	15.8%	1.9%
2020	16,583,636	25,121,526	1.515	77.2%	18.0%	4.8%
2021	20,396,006	28,753,659	1.410	77.3%	14.7%	8.0%
2022	21,843,069	28,124,436	1.288	68.2%	27.8%	4.0%

## INDIANA

## BASIC GROUP II

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

<u>Year</u>	(1)	(2)	(3)	(4)		
	Unadjusted	Trended	Average	Split %		
	Incurred	Incurred	Total Loss			
	<u>Losses</u>	<u>Losses</u>	<u>Trend Factor</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time</u>
			<u>(2) / (1)</u>			<u>Element</u>
2013	16,205,176	31,966,688	1.973	82.2%	13.2%	4.6%
2014	33,317,511	64,621,490	1.940	92.0%	7.6%	0.4%
2015	10,076,603	18,337,639	1.820	95.0%	4.2%	0.8%
2016	21,259,927	37,792,359	1.778	93.6%	5.1%	1.3%
2017	21,015,119	35,981,954	1.712	95.0%	2.9%	2.1%
2018	18,817,349	30,936,916	1.644	94.8%	2.9%	2.3%
2019	27,821,933	44,277,738	1.591	95.2%	4.0%	0.8%
2020	21,615,867	32,701,717	1.513	92.4%	4.0%	3.6%
2021	21,444,046	30,175,718	1.407	94.3%	4.1%	1.6%
2022	20,152,329	26,023,645	1.291	89.1%	10.4%	0.5%

## INDIANA

## SPECIAL CAUSES OF LOSS

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

<u>Year</u>	(1) Unadjusted Incurred <u>Losses</u>	(2) Trended Incurred <u>Losses</u>	(3) Average Total Loss Trend Factor <u>(2) / (1)</u>	(4) Split %		
				<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
2018	16,827,890	27,000,908	1.605	80.4%	16.4%	3.2%
2019	24,173,575	37,095,319	1.535	55.2%	37.0%	7.8%
2020	7,773,462	11,807,634	1.519	65.3%	33.9%	0.8%
2021	9,621,304	13,626,080	1.416	80.9%	16.9%	2.2%
2022	10,604,845	13,583,824	1.281	69.2%	26.0%	4.8%



## INDIANA

INCURRED LOSS DEVELOPMENT  
LOSS YEARS 2013-2022  
EVALUATED AS OF 12/2022

## Basic Group I

Year Ending	Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
9/30/2013	931,921,894	913,782,110	911,457,583	901,884,795	890,095,098
9/30/2014	913,671,866	904,851,389	891,707,624	878,804,119	878,188,834
9/30/2015	913,045,729	882,920,442	873,698,259	871,847,919	867,781,146
9/30/2016	906,197,413	898,675,648	882,057,173	882,499,411	884,907,911
9/30/2017	1,041,979,481	1,015,979,282	997,780,761	987,208,017	986,912,074
9/30/2018	1,217,059,300	1,163,314,151	1,109,177,681	1,095,942,471	1,113,362,476
9/30/2019	1,171,423,227	1,129,809,656	1,070,770,542	1,059,814,819	
9/30/2020	1,362,037,913	1,308,391,538	1,290,288,122		
9/30/2021	1,307,923,577	1,269,620,153			
9/30/2022	1,267,876,875				

Year Ending	Ratios			
	27:15 Months	39:27 Months	51:39 Months	63:51 Months
9/30/2013	0.981	0.997	0.989	0.987
9/30/2014	0.990	0.985	0.986	0.999
9/30/2015	0.967	0.990	0.998	0.995
9/30/2016	0.992	0.982	1.001	1.003
9/30/2017	0.975	0.982	0.989	1.000
9/30/2018	0.956	0.953	0.988	1.016
9/30/2019	0.964	0.948	0.990	
9/30/2020	0.961	0.986		
9/30/2021	0.971			
5 Point Average	0.965	0.970	0.993	1.003

Development Factors to Ultimate

15 Months to Ultimate =	0.932
27 Months to Ultimate =	0.966
39 Months to Ultimate =	0.996
51 Months to Ultimate =	1.003

## INDIANA

INCURRED LOSS DEVELOPMENT  
LOSS YEARS 2013-2022  
EVALUATED AS OF 12/2022

## Basic Group II

Year Ending	Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
9/30/2013	563,782,588	582,868,136	590,011,641	598,398,526	606,574,728
9/30/2014	566,643,413	589,188,450	602,890,368	608,912,069	613,407,031
9/30/2015	436,327,511	464,498,502	467,947,379	472,026,803	476,798,649
9/30/2016	679,016,200	722,461,232	736,141,237	741,451,045	745,047,106
9/30/2017	804,443,848	854,654,361	885,870,130	900,834,218	904,991,430
9/30/2018	659,202,044	706,141,649	731,495,725	743,196,671	750,581,982
9/30/2019	732,854,738	774,468,894	787,651,291	798,658,232	
9/30/2020	1,232,810,793	1,272,899,844	1,289,541,458		
9/30/2021	645,062,484	700,328,189			
9/30/2022	990,292,781				

## RATIOS

Year Ending	27:15 Months	39:27 Months	51:39 Months	63:51 Months
9/30/2013	1.034	1.012	1.014	1.014
9/30/2014	1.040	1.023	1.010	1.007
9/30/2015	1.065	1.007	1.009	1.010
9/30/2016	1.064	1.019	1.007	1.005
9/30/2017	1.062	1.037	1.017	1.005
9/30/2018	1.071	1.036	1.016	1.010
9/30/2019	1.057	1.017	1.014	
9/30/2020	1.033	1.013		
9/30/2021	1.086			
5 Point Average	1.062	1.024	1.013	1.007

Development Factors to Ultimate

15 Months to Ultimate =	1.109
27 Months to Ultimate =	1.045
39 Months to Ultimate =	1.020
51 Months to Ultimate =	1.007

## INDIANA

INCURRED LOSS DEVELOPMENT  
LOSS YEARS 2013-2022  
EVALUATED AS OF 12/2022

## Special Causes of Loss

Year Ending	<u>Losses as of</u>				
	15 Months	27 Months	39 Months	51 Months	63 Months
9/30/2013	456,304,349	449,444,941	442,935,361	443,591,533	443,973,521
9/30/2014	677,793,324	675,827,256	673,286,704	671,491,006	669,352,957
9/30/2015	657,154,092	645,651,321	642,213,319	642,760,052	644,410,721
9/30/2016	403,789,920	416,077,122	419,691,817	419,395,880	418,538,622
9/30/2017	472,537,879	476,774,712	479,573,972	485,187,250	486,945,794
9/30/2018	623,427,980	611,899,776	596,668,027	594,246,128	594,209,683
9/30/2019	537,098,358	542,416,250	533,884,818	534,233,414	
9/30/2020	522,731,323	519,842,228	519,850,053		
9/30/2021	955,440,972	959,726,566			
9/30/2022	497,663,738				

## RATIOS

Year Ending	27:15 Months	39:27 Months	51:39 Months	63:51 Months
9/30/2013	0.985	0.986	1.001	1.001
9/30/2014	0.997	0.996	0.997	0.997
9/30/2015	0.982	0.995	1.001	1.003
9/30/2016	1.030	1.009	0.999	0.998
9/30/2017	1.009	1.006	1.012	1.004
9/30/2018	0.982	0.975	0.996	1.000
9/30/2019	1.010	0.984	1.001	
9/30/2020	0.994	1.000		
9/30/2021	1.004			
5 Point Average	1.000	0.995	1.002	1.000

Development Factors to Ultimate

15 Months to Ultimate =	0.997
27 Months to Ultimate =	0.997
39 Months to Ultimate =	1.002
51 Months to Ultimate =	1.000

## INDIANA

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	1.058	1.120	1.185	1.254	1.326	1.404	1.485	1.571	1.663	1.759
	Prot. 5-7	1.000	1.074	1.153	1.239	1.330	1.429	1.534	1.648	1.770	1.901	2.041
	Prot. 8-10	1.000	1.133	1.284	1.454	1.648	1.867	2.116	2.397	2.716	3.077	3.486

		Amount of Insurance *										
		1	2	3	4	5	6	7	8	9	10	11
Const. 4-6	Prot. 1-4	1.000	1.058	1.120	1.185	1.254	1.326	1.404	1.485	1.571	1.663	1.759
	Prot. 5-7	1.000	1.074	1.153	1.239	1.330	1.429	1.534	1.648	1.770	1.901	2.041
	Prot. 8-10	1.000	1.133	1.284	1.454	1.648	1.867	2.116	2.397	2.716	3.077	3.486

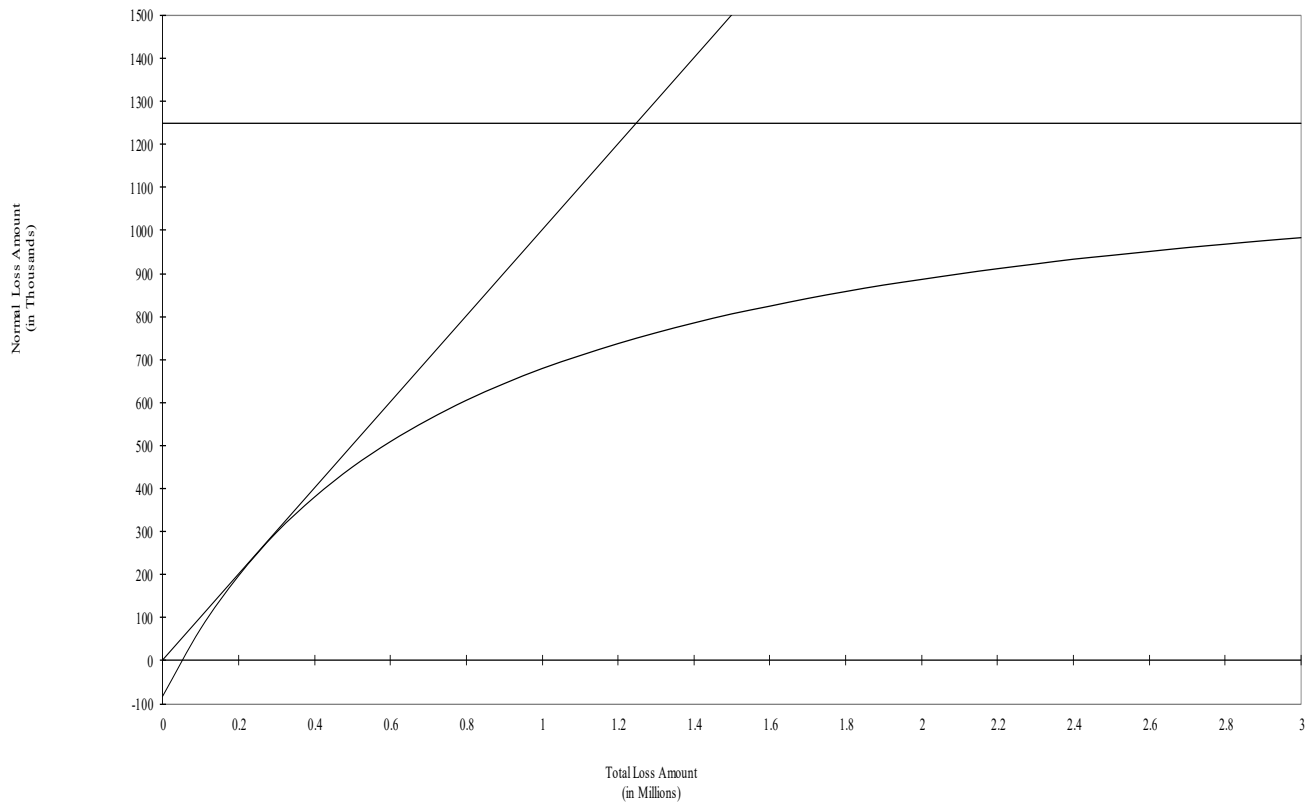
\* Amount of  
Insurance

Intervals

1	0 - 599,000
2	599,001 - 750,000
3	750,001 - 1,000,000
4	1,000,001 - 1,250,000
5	1,250,001 - 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

	(1)	(2)	(3)	(4)	(5)	(6)
				Multi-		State
	Trended	Trended	State	State	Smoothed	Average
	Incurred	Normal	Normal %	Normal	Incurred	Excess
<u>Year</u>	<u>Losses</u>	<u>Losses</u>	<u>(2)/(1)</u>	<u>%</u>	<u>Losses</u>	<u>(5)/(2)</u>
2018	50,490,596	36,049,108	71.4%	68.2%	52,849,626	1.466
2019	34,372,858	27,727,080	80.7%	70.0%	40,745,196	1.470
2020	25,121,526	24,107,840	96.0%	65.6%	34,918,613	1.448
2021	28,753,659	24,860,512	86.5%	70.2%	34,674,245	1.395
2022	28,124,436	25,377,298	90.2%	73.3%	36,074,438	1.422

INDIANA  
DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

	(1)	(2)	(3)	(4)	(5)	(6)
			Normal	Normal	State	Regional
	Earned	Incurred	Incurred	Loss	Excess	Excess
Year	<u>Premiums</u>	<u>Losses</u>	<u>Losses</u>	<u>Ratio</u>	<u>Ratio</u>	<u>Ratio</u>
1950	2,398,131	1,028,668	1,028,668	0.429	0.000	0.000
1951	2,756,215	865,067	865,067	0.314	0.000	0.000
1952	3,112,191	919,470	919,470	0.295	0.000	0.000
1953	3,189,182	1,214,970	1,214,970	0.381	0.000	0.000
1954	3,417,608	1,454,520	1,454,520	0.426	0.000	0.000
1955	3,567,171	2,300,207	2,300,207	0.645	0.000	0.000
1956	3,754,951	1,769,695	1,769,695	0.471	0.000	0.000
1957	3,988,573	2,042,759	2,042,759	0.512	0.000	0.000
1958	3,870,767	1,226,741	1,226,741	0.317	0.000	0.000
1959	3,970,915	1,434,184	1,434,184	0.361	0.000	0.000
1960	4,093,946	1,742,800	1,742,800	0.426	0.000	0.000
1961	4,109,322	2,582,139	2,582,139	0.628	0.000	0.000
1962	4,070,828	2,242,402	2,242,402	0.551	0.000	0.000
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	0.000	0.000
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	0.000	0.000
1967	2,989,512	1,764,644	1,764,644	0.590	0.000	0.000
1968	2,874,200	1,924,915	1,924,915	0.670	0.000	0.000
1969	3,208,793	1,109,496	1,109,496	0.346	0.000	0.000
1970	4,776,409	1,497,329	1,497,329	0.313	0.000	0.000
1971	5,135,353	2,249,176	2,249,176	0.438	0.000	0.000
1972	5,713,825	1,452,113	1,452,113	0.254	0.000	0.000
1973	5,812,663	2,096,590	2,096,590	0.361	0.000	0.000
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	0.000	0.000
1976	8,577,228	3,453,534	3,453,534	0.403	0.000	0.000
1977	9,992,177	3,204,918	3,204,918	0.321	0.000	0.000
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	0.000	0.000
1980	10,265,571	6,969,494	6,939,821	0.676	0.003	0.000
1981	9,983,098	4,399,399	4,399,399	0.441	0.000	0.000
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	0.000	0.000
1984	10,279,296	4,973,053	4,912,259	0.478	0.006	0.000
1985	13,072,920	4,205,543	4,205,543	0.322	0.000	0.000
1986	17,048,844	4,900,991	4,900,991	0.287	0.000	0.000
1987	16,663,887	5,284,747	5,284,747	0.317	0.000	0.000
1988	14,778,270	4,165,772	4,165,772	0.282	0.000	0.000
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	0.000
1991	10,922,442	4,081,829	4,081,829	0.374	0.000	0.000
1992	11,068,086	4,416,143	4,416,143	0.399	0.000	0.000
1993	11,002,188	2,554,141	2,554,141	0.232	0.000	0.000

INDIANA  
DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

	(1)	(2)	(3)	(4)	(5)	(6)
			Normal	Normal	State	Regional
	Earned	Incurred	Incurred	Loss	Excess	Excess
Year	<u>Premiums</u>	<u>Losses</u>	<u>Losses</u>	<u>Ratio</u>	<u>Ratio</u>	<u>Ratio</u>
1994	11,000,553	2,971,851	2,971,851	0.270	0.000	0.000
1995	11,564,604	3,207,864	3,207,864	0.277	0.000	0.000
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	0.000	0.000
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	0.000	0.000
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	0.000	0.000
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
2008	22,320,753	29,062,081	20,843,609	0.934	0.303	0.065
2009	22,450,911	21,625,271	18,490,367	0.824	0.134	0.005
2010	21,622,689	8,602,926	8,602,926	0.398	0.000	0.000
2012	37,329,450	77,895,770	41,334,444	1.107	0.733	0.247
2013	22,367,319	16,205,176	13,751,568	0.615	0.103	0.007
2014	24,836,595	33,317,511	15,732,271	0.633	0.548	0.160
2015	26,520,048	10,076,603	10,076,603	0.380	0.000	0.000
2016	28,361,529	21,259,927	21,259,927	0.750	0.000	0.000
2017	31,508,031	21,015,119	20,943,524	0.665	0.002	0.000
2018	33,235,680	18,817,349	15,898,014	0.478	0.083	0.005
2019	34,932,720	27,821,933	24,566,932	0.703	0.088	0.005
2020	36,572,736	21,615,867	18,213,860	0.498	0.088	0.005
2021	37,293,081	21,444,046	18,067,329	0.484	0.086	0.005
2022	36,711,954	20,152,329	20,152,329	0.549	0.000	0.000
<b>Total</b>				<b>36.940</b>	<b>6.665</b>	<b>2.465</b>

(7) State Excess Component = Total (5) ÷ Total (4) = 0.180

(8) Regional Excess Component 0.089

(9) State Excess Multiplier = (1.00 + (7)) \* (1.00 + (8)) = 1.285



INDIANA  
DEVELOPMENT OF SPECIAL CAUSES OF LOSS EXCESS MULTIPLIER

	(1)	(2)	(3)	(4)	(5)
			Normal	Normal	State
	Earned	Incurred	Incurred	Loss	Excess
Year	Premiums	Losses	Losses	Ratio	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	28,796,598	12,476,006	12,476,006	0.433	-
2016	27,792,036	8,450,983	8,450,983	0.304	-
2017	28,753,677	8,452,747	8,452,747	0.294	-
2018	27,504,006	16,827,890	16,827,890	0.612	-
2019	27,322,026	24,173,575	23,085,138	0.845	0.040
2020	26,925,054	7,773,462	7,773,462	0.289	-
2021	25,029,480	9,621,304	9,621,304	0.384	-
2022	22,323,552	10,604,845	10,604,845	0.475	-
<b>Total</b>	722,404,161	428,041,379	394,724,362	<b>21.942</b>	<b>2.067</b>

(6) State Excess Component = Total (5) ÷ Total (4) = 0.094

(7) State Excess Multiplier = 1.00 + (6) = 1.094

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	7.643
(1C) Full Credibility Claims Standard Adjusted For Severity ((1A) X (1B))	11,747
(2) Multistate Five Year Ratio Of Earned Risks To Claims	367.634
(3) Full Credibility Earned Risks Standard (1C)X(2)	4,318,597
(4) Five Year Statewide Earned Risks	659,630
(5) Five Year Aggregate Loss Costs	226,051,657
(6) Aggregate Loss Costs Per Earned Risk (5)/(4)	342.695
(7) Aggregate Loss Costs For 100% Credibility (3) X (6)	1,479,961,599
(8) Statewide Credibility ((5)/(7))**(5)	39.1%

INDIANA  
BASIC GROUP II STATEWIDE CREDIBILITY CALCULATION

(1) Full Credibility Claims Standard	30,000
(2) Multistate Ten Year Ratio Of Earned Risks To Claims	174.138
(3) Full Credibility Earned Risks Standard (1)X(2)	5,224,140
(4) Ten Year Statewide Earned Risks	1,387,308
(5) Ten Year Aggregate Loss Costs	313,478,652
(6) Aggregate Loss Costs Per Earned Risk (5)/(4)	225.962
(7) Aggregate Loss Costs For 100% Credibility (3) X (6)	1,180,457,123
(8) Statewide Credibility $((5)/(7))^{**}(.5)$	51.5%

INDIANA  
SPECIAL CAUSES OF LOSS STATEWIDE CREDIBILITY CALCULATION

(1) Full Credibility Claims Standard	25,000
(2) Multistate Ten Year Ratio Of Earned Risks To Claims	219.692
(3) Full Credibility Earned Risks Standard (1)X(2)	5,492,300
(4) Five Year Statewide Earned Risks	649,149
(5) Five Year Aggregate Loss Costs	114,119,277
(6) Aggregate Loss Costs Per Earned Risk (5)/(4)	175.798
(7) Aggregate Loss Costs For 100% Credibility (3) X (6)	965,535,355
(8) Statewide Credibility ((5)/(7))**(.5)	34.4%

## INDIANA

BASIC GROUP I RATING GROUP DEFINITIONS

The following CSP Classes comprise the Basic Group I Rating Groups:

01 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
- 0535 Retail Bakeries - Baking on Premises (No delivery to other outlets) - Using Cannabis as an Ingredient
- 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
- 0574 Cannabis containing Products Distributors or Retail Sales, Cannabis, NOC
- 0575 Mercantile - Cannabis - Growers other than Greenhouses - including hydroponics
- 0580 Greenhouses
- 0581 Multiple Occupancy Mercantile, Fire Class Rated, without furniture Occupant
- 0582 Multiple Occupancy Mercantile, Fire Class Rated, with furniture Occupant
- 0585 Greenhouses - Cannabis

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

BASIC GROUP I RATING GROUP DEFINITIONS07 SCHOOLS

1052 Schools, Academic

08 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

11 HOSPITALS & NURSING HOMES

0851 Hospitals

0852 Nursing and Convalescent Homes

12 BUILDINGS UNDER CONSTRUCTION

1150 Buildings Under Construction

BASIC GROUP I RATING GROUP DEFINITIONS13 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

15 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
- 1255 Sales Warehouses - Cannabis
- 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



BASIC GROUP I RATING GROUP DEFINITIONS17 FOOD MANUFACTURING

2000 Dairy Products  
2059 Meat, Poultry and Fish Products  
2150 Grain Milling, Including Feed, Stock, Flour Mills  
2200 Bakeries and Bakery Products - other than Cannabis  
2205 Bakeries and Bakery Products - Using Cannabis as an Ingredient  
2215 Cannabis Processing or Manufacturing - No extraction  
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

18 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  
5105 Cannabis Processing or Manufacturing - Extraction using noncombustible gases or chemicals  
5155 Cannabis Processing or Manufacturing - Extraction using combustible gases or chemicals, or rapid burning

21 METAL MANUFACTURING

6810 Heavy Metalworking including Basic Metalwork  
6850 Metalworking, NOC

BASIC GROUP I RATING GROUP DEFINITIONS22 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

## INDIANA

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, 0535, 0550, 0562, 0566, 0567, 0574, 0581, 0702, 1180, 1185, 1190, 1200, 1211, 1212, 1213, 1251, 1255, 1300, 1400, 1751, 1752, or 2205.

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, 2215, 2250, 2300, 2350, 2400, 2459, 2550, 2600, 2750, 2800, 2805, 3009, 3409, 3809, 3959, 5105, or 5155.

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

<u>Year</u>	<u>Total Unadjusted Loss Costs</u>	<u>Total Unadjusted Incurred Losses</u>	<u>Experience Ratio</u>
2018	30,193,321	30,853,022	1.022
2019	30,068,975	21,733,250	0.723
2020	30,329,261	16,583,636	0.547
2021	30,616,036	20,396,006	0.666
2022	31,237,934	21,843,069	0.699

## INDIANA

## BASIC GROUP II

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

<u>Year</u>	Total Unadjusted <u>Loss Costs</u>	Total Unadjusted <u>Incurred Losses</u>	Experience <u>Ratio</u>
2013	12,616,883	16,205,176	1.284
2014	14,009,609	33,317,511	2.378
2015	14,960,939	10,076,603	0.674
2016	15,997,695	21,259,927	1.329
2017	17,773,248	21,015,119	1.182
2018	18,747,275	18,817,349	1.004
2019	19,702,660	27,821,933	1.412
2020	20,628,533	21,615,867	1.048
2021	21,033,544	21,444,046	1.020
2022	20,706,951	20,152,329	0.973

## INDIANA

## SPECIAL CAUSES OF LOSS

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

<u>Year</u>	Total Unadjusted <u>Loss Costs</u>	Total Unadjusted <u>Incurred Losses</u>	Experience <u>Ratio</u>
2018	15,513,792	16,827,890	1.085
2019	15,410,166	24,173,575	1.569
2020	15,186,794	7,773,462	0.512
2021	14,117,596	9,621,304	0.682
2022	12,592,525	10,604,845	0.842

## INDIANA

## FIRE AND ALLIED LINES INSURANCE

COUNTRYWIDE LOSS ADJUSTMENT EXPENSE EXPERIENCE (A)

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>Selected</u>
(1) Fire						
(a) Direct Losses Incurred	7,748,589	8,518,012	7,422,977	9,568,271	11,503,724	
(b) Direct Loss Adjustment Expense Incurred	692,190	668,759	679,946	884,227	973,556	
(2) Allied Lines						
(a) Direct Losses Incurred	17,946,675	10,350,661	7,620,219	12,480,499	12,836,520	
(b) Direct Loss Adjustment Expense Incurred	1,157,440	998,273	973,445	1,234,938	1,362,840	
(3) Loss Adjustment Expense as a Ratio to Losses						
(a) Fire (1b) / (1a)	8.9%	7.9%	9.2%	9.2%	8.5%	9.0%
(b) Allied Lines (2b) / (2a)	6.4%	9.6%	12.8%	9.9%	10.6%	10.5%

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.....	E4-15

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**70. CAUSES OF LOSS – BASIC FORM**

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**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
<b>AA</b>	.06052	.08174
<b>A</b>	.06557	.09280
<b>AB</b>	.08372	.109095
<b>B</b>	.100087	.12206

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**72. CAUSES OF LOSS – SPECIAL FORM**

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**E.2. Rating Procedure – Property Damage – Other than Builders' Risk****b.(1) Building Coverage – Loss Cost: .038****c.(2) Personal Property Coverage – Loss Costs**

<b>Occupancy Category</b>	<b>Loss Cost</b>
Residential Apartments and Condominiums	.1331
Offices	.096403
Mercantile – High	.1127
Mercantile – Medium	.1045
Mercantile – Low	.092
Motels and Hotels	.0698
Institutional – High	.04435
Institutional – Low	.0412
Industrial and Processing – High	.1297
Industrial and Processing – Low	.13321
Service – High	.0984
Service – Low	.0889
Contractors	.200194
<b>Territory (County)</b>	<b>Territorial Multiplier</b>
Lake	1.356
Marion	1.331
Remainder of State	1.000

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**INDIANA (13)**

**85. BASIC GROUP I CLASS LOSS COSTS**

All rates are subject to protection class and territorial multipliers.

<b>CSP Class Codes And Description</b>						
<b>0074</b>	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Up to 10 Units					
<b>0075</b>	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – 11 to 30 Units					
<b>0076</b>	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Over 30 Units					
<b>0077</b>	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Up to 10 Units					
<b>0078</b>	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – 11 to 30 Units					
<b>0079</b>	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Over 30 Units					
<b>0196</b>	1 Family Dwellings (Lessor's Risk)					
<b>0197</b>	2 Family Dwellings (Lessor's Risk)					
<b>0198</b>	3 or 4 Family Dwellings (Lessor's Risk)					
<b>0311</b>	Apartments without Mercantile Occupancies – Up to 10 Units					
<b>0312</b>	Apartments without Mercantile Occupancies – 11 to 30 Units					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0074</b>	<b>Building (1)</b>	0.139	0.125	0.110	0.090	0.083
	<b>Contents (2)</b>	0.140	0.125	0.119	0.105	0.098
<b>0075</b>	<b>Building (1)</b>	0.139	0.125	0.110	0.090	0.083
	<b>Contents (2)</b>	0.140	0.125	0.119	0.105	0.098
<b>0076</b>	<b>Building (1)</b>	0.139	0.125	0.110	0.090	0.083
	<b>Contents (2)</b>	0.140	0.125	0.119	0.105	0.098
<b>0077</b>	<b>Building (1)</b>	0.126	0.114	0.101	0.082	0.075
	<b>Contents (2)</b>	0.132	0.119	0.113	0.099	0.092
<b>0078</b>	<b>Building (1)</b>	0.126	0.114	0.101	0.082	0.075
	<b>Contents (2)</b>	0.132	0.119	0.113	0.099	0.092
<b>0079</b>	<b>Building (1)</b>	0.126	0.114	0.101	0.082	0.075
	<b>Contents (2)</b>	0.132	0.119	0.113	0.099	0.092
<b>0196</b>	<b>Building (1)</b>	0.085	0.077	0.069	0.057	0.051
	<b>Contents (2)</b>	0.095	0.085	0.082	0.071	0.066
<b>0197</b>	<b>Building (1)</b>	0.085	0.077	0.069	0.057	0.051
	<b>Contents (2)</b>	0.095	0.085	0.082	0.071	0.066
<b>0198</b>	<b>Building (1)</b>	0.085	0.077	0.069	0.057	0.051
	<b>Contents (2)</b>	0.095	0.085	0.082	0.071	0.066
<b>0311</b>	<b>Building (1)</b>	0.171	0.154	0.137	0.111	0.103
	<b>Contents (2)</b>	0.193	0.174	0.164	0.146	0.136
<b>0312</b>	<b>Building (1)</b>	0.171	0.154	0.137	0.111	0.103
	<b>Contents (2)</b>	0.193	0.174	0.164	0.146	0.136
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0313</b>	Apartments without Mercantile Occupancies – Over 30 Units					
<b>0321</b>	Apartments with Mercantile Occupancies – Up to 10 Units					
<b>0322</b>	Apartments with Mercantile Occupancies – 11 to 30 Units					
<b>0323</b>	Apartments with Mercantile Occupancies – Over 30 Units					
<b>0331</b>	Residential Condominiums without Mercantile Occupancies – Up to 10 Units					
<b>0332</b>	Residential Condominiums without Mercantile Occupancies – 11 to 30 Units					
<b>0333</b>	Residential Condominiums without Mercantile Occupancies – Over 30 Units					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0313</b>	<b>Building (1)</b>	0.171	0.154	0.137	0.111	0.103
	<b>Contents (2)</b>	0.193	0.174	0.164	0.146	0.136
<b>0321</b>	<b>Building (1)</b>	0.262	0.239	0.210	0.171	0.157
	<b>Contents (2)</b>					
	<b>A</b>	0.390	0.351	0.333	0.293	0.274
	<b>B&amp;C</b>	0.458	0.411	0.389	0.344	0.322
<b>0322</b>	<b>Building (1)</b>	0.262	0.239	0.210	0.171	0.157
	<b>Contents (2)</b>					
	<b>A</b>	0.390	0.351	0.333	0.293	0.274
	<b>B&amp;C</b>	0.458	0.411	0.389	0.344	0.322
<b>0323</b>	<b>Building (1)</b>	0.262	0.239	0.210	0.171	0.157
	<b>Contents (2)</b>					
	<b>A</b>	0.390	0.351	0.333	0.293	0.274
	<b>B&amp;C</b>	0.458	0.411	0.389	0.344	0.322
<b>0331</b>	<b>Building (1)</b>	0.096	0.086	0.076	0.062	0.058
	<b>Contents (2)</b>	0.084	0.076	0.071	0.063	0.058
<b>0332</b>	<b>Building (1)</b>	0.096	0.086	0.076	0.062	0.058
	<b>Contents (2)</b>	0.084	0.076	0.071	0.063	0.058
<b>0333</b>	<b>Building (1)</b>	0.096	0.086	0.076	0.062	0.058
	<b>Contents (2)</b>	0.084	0.076	0.071	0.063	0.058
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0341</b>	Residential Condominiums with Mercantile Occupancies – Up to 10 Units					
<b>0342</b>	Residential Condominiums with Mercantile Occupancies – 11 to 30 Units					
<b>0343</b>	Residential Condominiums with Mercantile Occupancies – Over 30 Units					
<b>0511</b>	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Low Susceptibility					
<b>0512</b>	Mercantile – Sole Occupancy Only – Tire, Battery and Accessory Dealers without Tire Recapping and Vulcanizing					
<b>0520</b>	Mercantile – Sole Occupancy Only – Wearing Apparel, Textiles, Shoes					
<b>0531</b>	Mercantile – Sole Occupancy Only – Alcoholic Beverages other than Bars					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0341</b>	<b>Building (1)</b>	0.148	0.133	0.120	0.097	0.089
	<b>Contents (2)</b>					
	<b>A</b>	0.169	0.152	0.143	0.127	0.117
<b>0342</b>	<b>Building (1)</b>	0.148	0.133	0.120	0.097	0.089
	<b>Contents (2)</b>					
	<b>A</b>	0.169	0.152	0.143	0.127	0.117
<b>0343</b>	<b>Building (1)</b>	0.148	0.133	0.120	0.097	0.089
	<b>Contents (2)</b>					
	<b>A</b>	0.169	0.152	0.143	0.127	0.117
<b>0511</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.135	0.120	0.113	0.102	0.094
<b>0512</b>	<b>Building (1)</b>	0.086	0.079	0.070	0.056	0.051
	<b>Contents (2)</b>	0.119	0.107	0.102	0.090	0.084
<b>0520</b>	<b>Building (1)</b>	0.109	0.096	0.086	0.070	0.065
	<b>Contents (2)</b>	0.174	0.158	0.148	0.130	0.122
<b>0531</b>	<b>Building (1)</b>	0.092	0.082	0.074	0.060	0.054
	<b>Contents (2)</b>	0.142	0.127	0.119	0.105	0.101
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0532</b>	Merc – Sole Occy Only – Food Products Inc. Retail Bakeries; Non-Alcoholic Beverages (Sales Only – No Baking or Cooking)					
<b>0533</b>	Mercantile – Sole Occupancy Only – Baking on Premises, No Delivery to Outlets					
<b>0534</b>	Mercantile – Sole Occupancy Only – Food Products with Limited Cooking, Excluding Bakeries					
<b>0535</b>	Mercantile – Sole Occupancy Only – Baking on Premises, No Delivery to Outlets – Using Cannabis as an Ingredient					
<b>0541</b>	Mercantile – Sole Occupancy Only – Bars and Taverns					
<b>0545</b>	Mercantile – Sole Occupancy Only – Restaurants with Limited Cooking					
<b>0550</b>	Mercantile – Sole Occupancy Only – Motor Vehicles, No Repair					
<b>0561</b>	Mercantile – Sole Occupancy Only – Boat and Marine Supply Dealers					
<b>0562</b>	Mercantile – Sole Occupancy Only – Drugs					
<b>0563</b>	Mercantile – Sole Occupancy Only – Electrical Goods, Hardware and Machinery					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0532</b>	<b>Building (1)</b>	0.140	0.126	0.113	0.091	0.084
	<b>Contents (2)</b>	0.174	0.158	0.148	0.130	0.122
<b>0533</b>	<b>Building (1)</b>	0.110	0.101	0.090	0.071	0.066
	<b>Contents (2)</b>	0.140	0.126	0.119	0.104	0.096
<b>0534</b>	<b>Building (1)</b>	0.153	0.138	0.125	0.101	0.093
	<b>Contents (2)</b>	0.146	0.132	0.125	0.110	0.103
<b>0535</b>	<b>Building (1)</b>	0.110	0.101	0.090	0.071	0.066
	<b>Contents (2)</b>	0.140	0.126	0.119	0.104	0.096
<b>0541</b>	<b>Building (1)</b>	0.215	0.194	0.174	0.139	0.131
	<b>Contents (2)</b>	0.230	0.206	0.195	0.174	0.161
<b>0545</b>	<b>Building (1)</b>	0.254	0.228	0.204	0.164	0.153
	<b>Contents (2)</b>	0.287	0.257	0.244	0.215	0.198
<b>0550</b>	<b>Building (1)</b>	0.082	0.074	0.066	0.054	0.050
	<b>Contents (2)</b>	0.144	0.130	0.125	0.109	0.102
<b>0561</b>	<b>Building (1)</b>	0.087	0.079	0.070	0.056	0.052
	<b>Contents (2)</b>	0.144	0.130	0.125	0.109	0.102
<b>0562</b>	<b>Building (1)</b>	0.101	0.090	0.079	0.065	0.060
	<b>Contents (2)</b>	0.161	0.144	0.136	0.120	0.113
<b>0563</b>	<b>Building (1)</b>	0.099	0.090	0.079	0.064	0.060
	<b>Contents (2)</b>	0.119	0.107	0.102	0.090	0.084
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0564</b>	Mercantile – Sole Occupancy Only – Furniture and Home Furnishings other than Appliances					
<b>0565</b>	Mercantile – Sole Occupancy Only – Jewelry					
<b>0566</b>	Mercantile – Sole Occupancy Only – Sporting Goods					
<b>0567</b>	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Moderate Susceptibility					
<b>0570</b>	Mercantile – Sole Occupancy Only – Not Otherwise Classified – High Susceptibility					
<b>0574</b>	Mercantile – Sole Occupancy Only – Cannabis containing Products Distributors or Retail Sales, Cannabis, NOC					
<b>0575</b>	Mercantile – Sole Occupancy Only – Cannabis - Growers other than Greenhouses					
<b>0580</b>	Greenhouses – Sole Occupancy Only					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0564</b>	<b>Building (1)</b>	0.136	0.122	0.109	0.090	0.082
	<b>Contents (2)</b>	0.212	0.188	0.179	0.158	0.146
<b>0565</b>	<b>Building (1)</b>	0.090	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.117	0.104	0.101	0.088	0.082
<b>0566</b>	<b>Building (1)</b>	0.102	0.092	0.082	0.066	0.062
	<b>Contents (2)</b>	0.158	0.143	0.135	0.119	0.112
<b>0567</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.135	0.120	0.113	0.102	0.094
<b>0570</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.142	0.127	0.119	0.105	0.101
<b>0574</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.135	0.120	0.113	0.102	0.094
<b>0575</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.142	0.127	0.119	0.105	0.101
<b>0580</b>	<b>Building (1)</b>	0.091	0.082	0.073	0.060	0.054
	<b>Contents (2)</b>	0.146	0.133	0.126	0.112	0.104
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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						
0581	Mercantile – Multiple Occupancy without 0564 Occupant					
0582	Mercantile – Multiple Occupancy with 0564 Occupant					
0585	Greenhouses – Sole Occupancy Only – Cannabis					
0701	Government Offices					
0702	Banks and Offices other than Governmental					
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)
0581	Building (1)	0.096	0.086	0.078	0.063	0.058
	Contents (2)					
	A	0.142	0.127	0.119	0.105	0.101
	B	0.172	0.153	0.146	0.128	0.120
0582	C	0.155	0.140	0.133	0.117	0.109
	Building (1)	0.107	0.095	0.085	0.070	0.064
	Contents (2)					
	A	0.126	0.113	0.107	0.094	0.088
0585	B	0.153	0.138	0.132	0.116	0.107
	C	0.140	0.126	0.119	0.104	0.096
	Building (1)	0.091	0.082	0.073	0.060	0.054
	Contents (2)	0.146	0.133	0.126	0.112	0.104
0701	Building (1)	0.072	0.066	0.058	0.048	0.044
	Contents (2)					
	A	0.081	0.072	0.069	0.061	0.058
	B	0.119	0.107	0.101	0.088	0.083
0702	C	0.093	0.083	0.079	0.070	0.065
	Building (1)	0.093	0.083	0.074	0.060	0.056
	Contents (2)					
	A	0.111	0.101	0.094	0.082	0.077
	B	0.152	0.137	0.130	0.115	0.107
	C	0.137	0.124	0.118	0.102	0.095
	Territory				Territorial Multiplier	
	Indianapolis				1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0742</b>	Motels and Hotels with Limited Cooking Restaurant – Up to 10 Units					
<b>0743</b>	Motels and Hotels with Limited Cooking Restaurant – 11 to 30 Units					
<b>0744</b>	Motels and Hotels with Limited Cooking Restaurant – Over 30 Units					
<b>0745</b>	Motels and Hotels without Restaurant – Up to 10 Units					
<b>0746</b>	Motels and Hotels without Restaurant – 11 to 30 Units					
<b>0747</b>	Motels and Hotels without Restaurant – Over 30 Units					
<b>0755</b>	Golf, Tennis and Similar Sport Facilities with Limited Cooking					
<b>0756</b>	Golf, Tennis and Similar Sport Facilities without Cooking					
<b>0757</b>	Clubs, Not Otherwise Classified, Including Fraternal and Union Halls					
<b>0831</b>	Motion Picture Studios					
<b>0832</b>	Theaters Excluding Drive-in Theaters					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0742</b>	<b>Building (1)</b>	0.429	0.386	0.344	0.277	0.259
	<b>Contents (2)</b>	0.472	0.425	0.401	0.355	0.331
<b>0743</b>	<b>Building (1)</b>	0.429	0.386	0.344	0.277	0.259
	<b>Contents (2)</b>	0.472	0.425	0.401	0.355	0.331
<b>0744</b>	<b>Building (1)</b>	0.429	0.386	0.344	0.277	0.259
	<b>Contents (2)</b>	0.472	0.425	0.401	0.355	0.331
<b>0745</b>	<b>Building (1)</b>	0.186	0.167	0.148	0.121	0.112
	<b>Contents (2)</b>	0.202	0.182	0.172	0.152	0.141
<b>0746</b>	<b>Building (1)</b>	0.186	0.167	0.148	0.121	0.112
	<b>Contents (2)</b>	0.202	0.182	0.172	0.152	0.141
<b>0747</b>	<b>Building (1)</b>	0.186	0.167	0.148	0.121	0.112
	<b>Contents (2)</b>	0.202	0.182	0.172	0.152	0.141
<b>0755</b>	<b>Building (1)</b>	0.289	0.260	0.232	0.189	0.175
	<b>Contents (2)</b>	0.334	0.302	0.283	0.249	0.233
<b>0756</b>	<b>Building (1)</b>	0.119	0.107	0.094	0.077	0.070
	<b>Contents (2)</b>	0.135	0.121	0.113	0.101	0.094
<b>0757</b>	<b>Building (1)</b>	0.128	0.113	0.101	0.083	0.077
	<b>Contents (2)</b>	0.135	0.121	0.113	0.101	0.094
<b>0831</b>	<b>Building (1)</b>	0.099	0.089	0.079	0.064	0.059
	<b>Contents (2)</b>	0.113	0.101	0.097	0.086	0.080
<b>0832</b>	<b>Building (1)</b>	0.126	0.113	0.101	0.083	0.076
	<b>Contents (2)</b>	0.135	0.121	0.113	0.101	0.094
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0833</b>	Drive-in Theaters					
<b>0834</b>	Skating Rinks – Roller Rinks					
<b>0841</b>	Bowling Alleys without Cooking					
<b>0843</b>	Halls and Auditoriums					
<b>0844</b>	Recreational Facilities, Not Otherwise Classified					
<b>0845</b>	Boys' and Girls' Camps					
<b>0846</b>	Dance Halls, Ballrooms and Discotheques					
<b>0851</b>	Hospitals					
<b>0852</b>	Nursing and Convalescent Homes					
<b>0900</b>	Churches and Synagogues					
<b>0911</b>	Dry Cleaners and Dyeing Plants, other than Self-Service					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0833</b>	<b>Building (1)</b>	0.107	0.097	0.086	0.070	0.064
	<b>Contents (2)</b>	0.124	0.113	0.107	0.094	0.087
<b>0834</b>	<b>Building (1)</b>	0.173	0.155	0.138	0.113	0.105
	<b>Contents (2)</b>	0.176	0.157	0.149	0.132	0.122
<b>0841</b>	<b>Building (1)</b>	0.176	0.157	0.140	0.113	0.106
	<b>Contents (2)</b>	0.182	0.165	0.156	0.137	0.128
<b>0843</b>	<b>Building (1)</b>	0.087	0.079	0.070	0.055	0.051
	<b>Contents (2)</b>	0.093	0.083	0.079	0.070	0.064
<b>0844</b>	<b>Building (1)</b>	0.119	0.107	0.094	0.077	0.070
	<b>Contents (2)</b>	0.130	0.116	0.112	0.098	0.090
<b>0845</b>	<b>Building (1)</b>	0.078	0.070	0.064	0.050	0.047
	<b>Contents (2)</b>	0.089	0.080	0.077	0.066	0.064
<b>0846</b>	<b>Building (1)</b>	0.162	0.146	0.130	0.107	0.098
	<b>Contents (2)</b>	0.160	0.143	0.137	0.119	0.113
<b>0851</b>	<b>Building (1)</b>	0.042	0.037	0.034	0.028	0.027
	<b>Contents (2)</b>	0.049	0.044	0.042	0.037	0.034
<b>0852</b>	<b>Building (1)</b>	0.043	0.039	0.035	0.029	0.027
	<b>Contents (2)</b>	0.049	0.046	0.043	0.037	0.036
<b>0900</b>	<b>Building (1)</b>	0.093	0.084	0.075	0.061	0.056
	<b>Contents (2)</b>	0.099	0.088	0.084	0.075	0.068
<b>0911</b>	<b>Building (1)</b>	0.152	0.138	0.123	0.100	0.093
	<b>Contents (2)</b>	0.180	0.163	0.154	0.136	0.127
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0912</b>	Laundries, other than Self-Service					
<b>0913</b>	Self-Service Laundries and Dry Cleaners					
<b>0921</b>	Light Hazard Service Occupancies					
<b>0922</b>	Service Occupancies, other than Light Hazard					
<b>0923</b>	Funeral Homes					
<b>0931</b>	Auto Parking Garages, Car Washes					
<b>0932</b>	Gasoline Service Stations					
<b>0933</b>	Motor Vehicle and Aircraft Repair, with or without Sales					
<b>0934</b>	Tire Recapping and Vulcanizing, with or without Sales					
<b>0940</b>	Aircraft Hangars without Repair					
<b>0951</b>	Gambling Casinos with Limited Cooking Restaurants					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0912</b>	<b>Building (1)</b>	0.202	0.182	0.162	0.131	0.121
	<b>Contents (2)</b>	0.251	0.225	0.211	0.187	0.174
<b>0913</b>	<b>Building (1)</b>	0.134	0.119	0.107	0.087	0.079
	<b>Contents (2)</b>	0.156	0.140	0.133	0.118	0.109
<b>0921</b>	<b>Building (1)</b>	0.079	0.071	0.064	0.052	0.047
	<b>Contents (2)</b>	0.095	0.086	0.080	0.071	0.066
<b>0922</b>	<b>Building (1)</b>	0.088	0.079	0.071	0.057	0.052
	<b>Contents (2)</b>	0.107	0.097	0.093	0.081	0.076
<b>0923</b>	<b>Building (1)</b>	0.058	0.052	0.046	0.038	0.035
	<b>Contents (2)</b>	0.063	0.056	0.053	0.046	0.045
<b>0931</b>	<b>Building (1)</b>	0.058	0.052	0.048	0.038	0.036
	<b>Contents (2)</b>	0.069	0.063	0.058	0.052	0.049
<b>0932</b>	<b>Building (1)</b>	0.083	0.075	0.067	0.054	0.051
	<b>Contents (2)</b>	0.103	0.092	0.086	0.077	0.072
<b>0933</b>	<b>Building (1)</b>	0.071	0.064	0.057	0.046	0.042
	<b>Contents (2)</b>	0.088	0.081	0.075	0.067	0.064
<b>0934</b>	<b>Building (1)</b>	0.092	0.082	0.074	0.060	0.056
	<b>Contents (2)</b>	0.109	0.099	0.092	0.082	0.077
<b>0940</b>	<b>Building (1)</b>	0.046	0.041	0.036	0.029	0.027
	<b>Contents (2)</b>	0.056	0.050	0.048	0.042	0.039
<b>0951</b>	<b>Building (1)</b>	0.338	0.304	0.271	0.220	0.204
	<b>Contents (2)</b>	0.373	0.336	0.317	0.280	0.261
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>0952</b>	Gambling Casinos without Restaurants					
<b>1000</b>	Penal Institutions					
<b>1051</b>	Museums, Libraries, Art Galleries (Non-Profit)					
<b>1052</b>	Schools, Academic					
<b>1070</b>	Fire Departments, Police, Sewage, Water Works and Other Public Buildings					
<b>1150</b>	Builders' Risk					
<b>1180</b>	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, 0585, 0742-0747, 0833, 0834, 0841, 0843, 0844, 0846, 0900, 0951, 0952, 1051 or 1052.					
<b>1211</b>	Freight Terminals					
<b>1212</b>	General Storage Warehouses – Bailee					
<b>1213</b>	Miscellaneous Products Storage – (Other Than Retail Or Wholesale Or Cold Storage)					
<b>1220</b>	Household Goods Storage					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>0952</b>	<b>Building (1)</b>	0.113	0.101	0.091	0.075	0.069
	<b>Contents (2)</b>	0.163	0.147	0.139	0.122	0.113
<b>1000</b>	<b>Building (1)</b>	0.071	0.064	0.058	0.046	0.042
	<b>Contents (2)</b>	0.062	0.057	0.053	0.047	0.044
<b>1051</b>	<b>Building (1)</b>	0.044	0.040	0.034	0.030	0.027
	<b>Contents (2)</b>	0.058	0.052	0.049	0.044	0.040
<b>1052</b>	<b>Building (1)</b>	0.028	0.025	0.021	0.017	0.016
	<b>Contents (2)</b>	0.032	0.028	0.027	0.024	0.021
<b>1070</b>	<b>Building (1)</b>	0.069	0.062	0.056	0.044	0.041
	<b>Contents (2)</b>	0.081	0.072	0.070	0.061	0.058
<b>1150</b>	<b>Building (1)</b>	0.048	0.044	0.039	0.031	0.029
<b>1211</b>	<b>Building (1)</b>	0.122	0.110	0.098	0.080	0.073
	<b>Contents (2)</b>	0.143	0.131	0.122	0.107	0.100
<b>1212</b>	<b>Building (1)</b>	0.095	0.088	0.078	0.063	0.058
	<b>Contents (2)</b>	0.119	0.107	0.100	0.089	0.083
<b>1213</b>	<b>Building (1)</b>	0.085	0.077	0.069	0.057	0.052
	<b>Contents (2)</b>	0.113	0.101	0.095	0.085	0.080
<b>1220</b>	<b>Building (1)</b>	0.101	0.093	0.081	0.066	0.060
	<b>Contents (2)</b>	0.124	0.111	0.106	0.094	0.088
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
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.

<b>CSP Class Codes And Description</b>						
<b>1230</b>	Cold Storage Warehouses					
<b>1400</b>	Waste and Reclaimed Materials Including Yards					
<b>1650</b>	Building Supply Yards, Including Retail Lumberyards, Coal and Coke Yards					
<b>1700</b>	Mill Yards					
<b>1751</b>	Oil Distributing, Oil Terminals and LPG Tank Farms – Including Stock					
<b>1752</b>	Oil Distributing, Oil Terminals and LPG Tank Farms – Excluding Stock					
<b>2200</b>	Baking on Premises, Delivery to Outlets					
<b>2205</b>	Baking on Premises, Delivery to Outlets, and Food Products Manufacturing – Using Cannabis as an Ingredient					
<b>2350</b>	Beverage Bottlers Excluding Alcoholic Beverages					
<b>CSP Class Code</b>	<b>Coverage</b>	<b>Construction (Code)</b>				
		<b>Frame (1)</b>	<b>Joisted Masonry (2)</b>	<b>Non-Comb. (3)</b>	<b>Mas. Non-Comb. (4)</b>	<b>Mod. F.R. (5) Or Fire Res. (6)</b>
<b>1230</b>	<b>Building (1)</b>	0.088	0.080	0.071	0.058	0.053
	<b>Contents (2)</b>	0.120	0.107	0.101	0.091	0.084
<b>1400</b>	<b>Building (1)</b>	0.265	0.237	0.212	0.171	0.158
	<b>Contents (2)</b>	0.321	0.289	0.271	0.241	0.225
	<b>Yard</b>	0.399		0.042		
<b>1650</b>	<b>Building (1)</b>	0.158	0.143	0.125	0.101	0.094
	<b>Contents (2)</b>	0.200	0.179	0.171	0.149	0.140
	<b>Yard</b>	0.110		0.015		
<b>1700</b>	<b>Building (1)</b>	0.129	0.115	0.102	0.084	0.077
	<b>Contents (2)</b>	0.195	0.175	0.166	0.147	0.137
	<b>Yard</b>	0.107		0.014		
<b>1751</b>	<b>Building (1)</b>	0.082	0.074	0.066	0.053	0.050
	<b>Contents (2)</b>	0.107	0.095	0.093	0.081	0.075
<b>1752</b>	<b>Building (1)</b>	0.078	0.070	0.062	0.051	0.046
	<b>Contents (2)</b>	0.077	0.069	0.065	0.058	0.053
<b>2200</b>	<b>Building (1)</b>	0.230	0.208	0.186	0.151	0.139
	<b>Contents (2)</b>	0.275	0.248	0.234	0.205	0.193
<b>2205</b>	<b>Building (1)</b>	0.230	0.208	0.186	0.151	0.139
	<b>Contents (2)</b>	0.275	0.248	0.234	0.205	0.193
<b>2350</b>	<b>Building (1)</b>	0.149	0.135	0.120	0.097	0.089
	<b>Contents (2)</b>	0.176	0.157	0.149	0.131	0.124
<b>Territory</b>					<b>Territorial Multiplier</b>	
Indianapolis					1.555	
Balance of State (Indiana)					1.000	

All rates are subject to protection class and territorial multipliers.

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## 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 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 Property Claims Services, please see "Persons to Contact" in the circular cover letter.



Indiana  
Commercial Property

The following events have been identified as catastrophes by ISO's Property Claims Services.

<u>From</u>	<u>To</u>	<u>Perils</u>
5/14/90	5/17/90	Wind, Hail, Tornadoes, Flooding
6/1/90	6/3/90	Wind, Hail, Tornadoes
6/6/90	6/8/90	Wind, Hail, Tornadoes, Flooding
8/28/90	8/30/90	Wind, Hail, Tornadoes, Flooding
11/27/90	11/28/90	Wind, Hail, Tornadoes, Flooding
12/27/90	12/30/90	Wind, Freezing, Flooding
3/11/91	3/12/91	Wind, Hail, Tornadoes, Weight of Ice, Snow
3/21/91	3/23/91	Wind, Hail, Tornadoes, Flooding
3/26/91	3/28/91	Wind, Hail, Tornadoes, Flooding
5/15/91	5/18/91	Wind, Hail, Tornadoes, Flooding
7/7/91	7/8/91	Wind, Hail, Tornadoes, Flooding
6/14/92	6/19/92	Wind, Hail, Tornadoes, Flooding
7/2/92	7/3/92	Wind, Hail, Tornadoes, Flooding
7/6/92	7/15/92	Wind, Hail, Tornadoes, Flooding
11/21/92	11/23/92	Wind, Hail, Tornadoes, Flooding
6/2/93	6/5/93	Wind, Hail, Tornadoes, Flooding
6/7/93	6/9/93	Wind, Hail, Tornadoes, Flooding
6/27/93	7/3/93	Wind, Hail, Tornadoes, Flooding
1/14/94	1/16/94	Wind, Snow, Ice, Freezing
1/17/94	1/20/94	Wind, Snow, Ice, Freezing
4/25/94	4/27/94	Wind, Hail, Tornadoes, Flooding
5/13/95	5/15/95	Wind, Hail, Tornadoes, Flooding
5/16/95	5/19/95	Wind, Hail, Tornadoes, Flooding
1/6/96	1/9/96	Wind, Snow, Ice, Freezing, Flooding
1/31/96	2/6/96	Wind, Snow, Ice, Tornadoes, Flooding
3/16/96	3/21/96	Wind, Hail, Tornadoes, Flooding
4/12/96	4/16/96	Wind, Hail, Tornadoes, Flooding
4/19/96	4/22/96	Wind, Hail, Tornadoes, Flooding
4/27/96	4/30/96	Wind, Hail, Tornadoes, Flooding
5/3/96	5/9/96	Wind, Hail, Tornadoes, Flooding
5/24/96	5/29/96	Wind, Hail, Tornadoes, Flooding
7/16/96	7/18/96	Wind, Flooding
10/29/96	10/30/96	Wind, Hail
3/28/97	3/29/97	Wind, Hail, Tornadoes, Snow, Flooding
7/1/97	7/3/97	Wind, Hail, Tornadoes, Flooding
8/15/97	8/17/97	Wind, Hail, Tornadoes, Flooding
3/27/98	3/30/98	Hail, Wind, Tornadoes
6/11/98	6/15/98	Hail, Wind, Flooding, Tornadoes
6/18/98	6/19/98	Hail, Wind, Flooding, Tornadoes
6/24/98	6/30/98	Hail, Wind, Flooding, Tornadoes
7/19/98	7/21/98	Hail, Wind, Flooding
8/5/98	8/8/98	Wind, Flooding
8/22/98	8/25/98	Hail, Wind, Tornadoes
11/9/98	11/11/98	Hail, Wind, Flooding, Tornadoes
1/1/99	1/4/99	Hail, Snow, Wind, Flooding, Freezing
1/13/99	1/16/99	Ice, Hail, Snow, Wind, Flooding, Freezing
4/8/99	4/10/99	Hail, Wind, Tornadoes
5/3/99	5/7/99	Hail, Wind, Flooding, Tornadoes
5/16/99	5/17/99	Hail, Wind, Flooding, Tornadoes

Indiana  
Commercial Property

The following events have been identified as catastrophes by ISO's Property Claims Services.

<u>From</u>	<u>To</u>	<u>Perils</u>
5/31/99	6/1/99	Hail, Wind, Flooding, Tornadoes
6/4/99	6/7/99	Hail, Wind, Flooding, Tornadoes
6/10/99	6/14/99	Hail, Wind, Flooding, Tornadoes
1/2/00	1/4/00	Hail, Wind, Flooding, Tornadoes
5/8/00	5/11/00	Hail, Wind, Flooding, Tornadoes
5/12/00	5/14/00	Hail, Wind, Flooding, Tornadoes
5/17/00	5/19/00	Hail, Wind, Flooding, Tornadoes
9/10/00	9/12/00	Hail, Wind, Flooding, Tornadoes
9/20/00	9/21/00	Hail, Wind, Flooding, Tornadoes
12/11/00	12/12/00	Snow, Wind, Freezing
4/6/01	4/12/01	Hail, Wind, Flooding, Tornadoes
6/9/01	6/12/01	Hail, Wind, Flooding, Tornadoes
10/12/01	10/16/01	Hail, Wind, Flooding, Tornadoes
10/23/01	10/24/01	Hail, Wind, Flooding, Tornadoes
1/30/02	2/1/02	Flooding, Freezing, Hail, Snow, Wind
3/8/02	3/10/02	Hail, Tornadoes, Wind
4/27/02	5/3/02	Flooding, Hail, Tornadoes, Wind
9/20/02	9/20/02	Flooding, Hail, Tornadoes, Wind
4/4/03	4/8/03	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
5/1/03	5/1/03	Flooding, Hail, Tornadoes, Wind
5/2/03	5/11/03	Flooding, Hail, Tornadoes, Wind
7/4/03	7/10/03	Flooding, Hail, Tornadoes, Wind
7/21/03	7/23/03	Flooding, Hail, Tornadoes, Wind
8/31/03	9/3/03	Flooding, Hail, Tornadoes, Wind
11/12/03	11/14/03	Flooding, Hail, Tornadoes, Wind
4/20/04	4/22/04	Flooding, Hail, Tornadoes, Wind
5/17/04	5/19/04	Flooding, Hail, Tornadoes, Wind
5/21/04	5/27/04	Flooding, Hail, Tornadoes, Wind
5/29/04	6/2/04	Flooding, Hail, Tornadoes, Wind
7/12/04	7/14/04	Flooding, Hail, Tornadoes, Wind
12/22/04	12/25/04	Freezing, Ice, Snow, Wind
1/4/05	1/6/05	Flooding, Freezing, Ice, Snow, Wind
4/20/05	4/24/05	Flooding, Hail, Tornadoes, Wind
5/6/05	5/12/05	Flooding, Hail, Tornadoes, Wind
8/18/05	8/20/05	Hail, Tornadoes, Wind
11/6/05	11/6/05	Hail, Tornadoes, Wind
3/11/06	3/13/06	Flooding, Hail, Tornadoes, Wind
4/2/06	4/3/06	Hail, Tornadoes, Wind
4/6/06	4/8/06	Hail, Tornadoes, Wind
4/13/06	4/15/06	Hail, Tornadoes, Wind
6/18/06	6/22/06	Flooding, Hail, Tornadoes, Wind
8/23/06	8/25/06	Flooding, Hail, Tornadoes, Wind
10/2/06	10/4/06	Flooding, Hail, Tornadoes, Wind
11/30/06	12/3/06	Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/4/08	1/9/08	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/29/08	1/30/08	Hail, Tornadoes, Wind
2/5/08	2/6/08	Flooding, Hail, Tornadoes, Wind
5/29/08	6/1/08	Flooding, Hail, Tornadoes, Wind
6/2/08	6/4/08	Flooding, Hail, Tornadoes, Wind

Indiana  
Commercial Property

The following events have been identified as catastrophes by ISO's Property Claims Services.

<u>From</u>	<u>To</u>	<u>Perils</u>
6/5/08	6/8/08	Flooding, Hail, Tornadoes, Wind
6/15/08	6/16/08	Flooding, Hail, Wind
7/19/08	7/22/08	Flooding, Hail, Tornadoes, Wind
8/4/08	8/5/08	Flooding, Hail, Tornadoes, Wind
9/12/08	9/14/08	Hurricane Ike - Flooding, Tornadoes, Wind
1/26/09	1/28/09	Flooding, Freezing, Ice, Snow
3/7/09	3/8/09	Flooding, Hail, Tornadoes, Wind
5/13/09	5/14/09	Flooding, Hail, Tornadoes, Wind
6/2/09	6/6/09	Flooding, Hail, Wind
8/4/09	8/4/09	Flooding, Hail, Wind
4/4/10	4/6/10	Flooding, Hail, Tornadoes, Wind
6/4/10	6/6/10	Flooding, Hail, Tornadoes, Wind
6/10/10	6/16/10	Flooding, Hail, Tornadoes, Wind
6/17/10	6/20/10	Flooding, Hail, Tornadoes, Wind
6/21/10	6/24/10	Flooding, Hail, Tornadoes, Wind
10/26/10	10/28/10	Flooding, Hail, Tornadoes, Wind
1/31/11	2/3/11	Flooding, Freezing, Ice, Snow, Wind
2/27/11	2/28/11	Flooding, Hail, Tornadoes, Wind
4/19/11	4/21/11	Hail, Tornadoes, Wind
5/20/11	5/27/11	Flooding, Hail, Tornadoes, Wind
6/16/11	6/22/11	Flooding, Hail, Tornadoes, Wind
3/2/12	3/3/12	Flooding, Hail, Tornadoes, Wind
3/18/12	3/25/12	Flooding, Hail, Tornadoes, Wind
4/28/12	4/29/12	Hail, Tornadoes, Wind
6/28/12	7/2/12	Flooding, Hail, Tornadoes, Wind
8/9/12	8/10/12	Flooding, Hail, Wind
9/21/12	9/22/12	Hail, Wind
4/7/13	4/11/13	Flooding, Hail, Ice, Snow, Tornadoes, Wind
4/16/13	4/19/13	Flooding, Hail, Wind
5/28/13	5/31/13	Flooding, Hail, Tornadoes, Wind
6/12/13	6/14/13	Flooding, Hail, Wind
6/24/13	6/27/13	Flooding, Hail, Tornadoes, Wind
11/17/13	11/18/13	Flooding, Hail, Tornadoes, Wind
12/20/13	12/23/13	Freezing, Ice, Snow, Wind
1/5/14	1/8/14	Freezing, Ice, Snow, Wind
5/10/14	5/14/14	Flooding, Hail, Tornadoes, Wind
5/18/14	5/23/14	Flooding, Hail, Wind
6/29/14	7/1/14	Flooding, Hail, Tornadoes, Wind
2/1/15	2/4/15	Freezing, Ice, Snow, Wind
4/7/15	4/10/15	Flooding, Hail, Tornadoes, Wind
7/12/15	7/14/15	Flooding, Hail, Tornadoes, Wind
7/17/15	7/20/15	Flooding, Hail, Tornadoes, Wind
12/23/15	12/24/15	Flooding, Hail, Tornadoes, Wind
12/26/15	12/28/15	Flooding, Hail, Tornadoes, Wind
3/27/16	3/27/16	Hail, Wind
4/2/16	4/3/16	Hail, Wind
4/25/16	4/28/16	Flooding, Hail, Tornadoes, Wind
4/29/16	5/3/16	Flooding, Hail, Tornadoes, Wind
6/22/16	6/23/16	Flooding, Hail, Tornadoes, Wind

Indiana  
Commercial Property

The following events have been identified as catastrophes by ISO's Property Claims Services.

<u>From</u>	<u>To</u>	<u>Perils</u>
8/24/16	8/25/16	Flooding, Hail, Tornadoes, Wind
2/28/17	3/2/17	Flooding, Hail, Tornadoes, Wind
4/10/17	4/11/17	Flooding, Hail, Tornadoes, Wind
4/28/17	5/1/17	Flooding, Hail, Tornadoes, Wind
6/16/17	6/19/17	Flooding, Hail, Tornadoes, Wind
2/19/18	2/22/18	Flooding, Freezing, Hail, Ice, Wind
4/3/18	4/5/18	Flooding, Hail, Tornadoes, Wind
4/28/18	5/5/18	Flooding, Hail, Tornadoes, Wind
5/12/18	5/16/18	Flooding, Hail, Tornadoes, Wind
7/19/18	7/22/18	Flooding, Hail, Tornadoes, Wind
11/14/18	11/16/18	Flooding, Freezing, Ice, Snow, Wind
1/29/19	2/1/19	Freezing, Ice, Snow, Wind
2/23/19	2/26/19	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
5/16/19	5/17/19	Flooding, Hail, Tornadoes, Wind
5/20/19	5/22/19	Flooding, Hail, Tornadoes, Wind
5/26/19	5/29/19	Flooding, Hail, Tornadoes, Wind
6/15/19	6/16/19	Flooding, Hail, Tornadoes, Wind
8/17/19	8/18/19	Flooding, Hail, Wind
11/26/19	11/28/19	Flooding, Wind
1/10/20	1/12/20	Flooding, Hail, Tornadoes, Wind
3/17/20	3/20/20	Flooding, Hail, Tornadoes, Wind
3/27/20	3/30/20	Flooding, Hail, Tornadoes, Wind
4/7/20	4/9/20	Flooding, Hail, Tornadoes, Wind
5/13/20	5/15/20	Flooding, Hail, Tornadoes, Wind
5/20/20	5/24/20	Flooding, Hail, Wind
5/26/20	6/8/20	Riot; Civil Disorder
6/5/20	6/11/20	Flooding, Hail, Tornadoes, Wind
7/10/20	7/12/20	Flooding, Hail, Tornadoes, Wind
8/8/20	8/11/20	Flooding, Hail, Tornadoes, Wind
3/27/21	3/29/21	Flooding, Hail, Tornadoes, Wind
6/11/21	6/14/21	Flooding, Hail, Tornadoes, Wind
6/17/21	6/20/21	Flooding, Hail, Tornadoes, Wind
6/24/21	7/1/21	Flooding, Hail, Tornadoes, Wind
7/28/21	7/29/21	Flooding, Hail, Tornadoes, Wind
8/10/21	8/13/21	Flooding, Hail, Tornadoes, Wind
12/10/21	12/12/21	Flooding, Hail, Tornadoes, Wind
3/5/22	3/7/22	Flooding, Hail, Tornadoes, Wind
3/29/22	4/1/22	Flooding, Hail, Tornadoes, Wind
4/10/22	4/14/22	Flooding, Hail, Tornadoes, Wind
5/17/22	5/19/22	Flooding, Hail, Tornadoes, Wind
6/4/22	6/8/22	Flooding, Hail, Tornadoes, Wind
6/11/22	6/17/22	Flooding, Hail, Tornadoes, Wind
7/2/22	7/6/22	Flooding, Hail, Tornadoes, Wind
7/21/22	7/25/22	Flooding, Hail, Tornadoes, Wind
8/27/22	8/29/22	Flooding, Hail, Tornadoes, Wind
12/21/22	12/25/22	Flooding, Freezing, Ice, Power Outage, Snow, Wind
2/7/2023	2/9/2023	Flooding, Hail, Tornadoes, Wind
3/1/2023	3/4/2023	Flooding, Hail, Tornadoes, Wind
3/30/2023	4/1/2023	Flooding, Hail, Power Outage, Tornadoes, Wind

Indiana  
Commercial Property

The following events have been identified as catastrophes by ISO's Property Claims Services.

<u>From</u>	<u>To</u>	<u>Perils</u>
4/3/2023	4/7/2023	Flooding, Hail, Tornadoes, Wind
5/2/2023	5/9/2023	Flooding, Hail, Tornadoes, Wind
6/21/2023	6/27/2023	Flooding, Hail, Tornadoes, Wind
6/28/2023	7/4/2023	Flooding, Hail, Tornadoes, Wind
7/27/2023	7/31/2023	Flooding, Hail, Tornadoes, Wind

## INDIANA

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

<u>Rating Group</u>	<u>Description</u>	<u>Indianapolis</u>	<u>Balance Of State (Indiana)</u>
01	Apartments	-25.5%	-15.8%
02	Other Habitational	-22.5%	-12.4%
03	Restaurants & Bars	-18.2%	-7.6%
04	Other Mercantile Risks	-27.2%	-17.7%
05	Public Buildings	-23.2%	-13.2%
06	Churches	-25.0%	-15.2%
07	Schools	-19.1%	-8.6%
08	Offices And Banks	-28.2%	-18.9%
09	Recreational Facilities	-26.0%	-16.3%
10	Hotels & Motels	-24.3%	-14.5%
11	Hospitals & Nursing Homes	-24.0%	-14.1%
12	Buildings Under Construction	-20.0%	-9.6%
13	Motor Vehicle Risks	-23.2%	-13.2%
14	Other Non-Manufacturing	-20.0%	-9.6%
15	Storage	-25.3%	-15.6%
17	Food Manufacturing	-25.6%	-15.9%
18	Wood Manufacturing	-24.1%	-14.2%
19	Wearing Apparel	-24.6%	-14.8%
20	Chemical Manufacturing	-24.1%	-14.2%
21	Metal Manufacturing	-27.5%	-18.0%
22	Other Manufacturing	-26.0%	-16.4%
	Total	-25.4%	-15.2%

(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 I RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	Statewide Coverage Loss Cost Change Of	0.965 -3.5%
<u>TOP</u>	<u>\$ Lst Sq Formula Relativity</u>	<u>Credibility Z</u>	<u>Credibility Weighted Relativity</u>	<u>Balanced Relativity</u>	<u>Or</u>	
10	0.522	0.234	0.859	0.862		
31	0.862	0.031	0.995	0.999		
32	1.322	0.276	1.080	1.084		
33	0.984	0.116	0.998	1.002		
34	1.106	0.305	1.031	1.035		
35	0.900	0.253	0.974	0.978		
36	1.142	0.207	1.028	1.032		
37	1.008	0.236	1.002	1.006		
38	1.058	0.067	1.004	1.008		
Rating Group						
1	0.964	0.451	0.984	0.994		
2	1.122	0.203	1.024	1.034		
3	1.506	0.189	1.080	1.091		
4	0.927	0.511	0.962	0.972		
5	1.103	0.151	1.015	1.025		
6	0.958	0.200	0.991	1.001		
7	1.238	0.307	1.068	1.079		
8	0.867	0.375	0.948	0.958		
9	0.901	0.213	0.978	0.988		
10	1.006	0.076	1.000	1.010		
11	1.098	0.047	1.004	1.014		
13	1.101	0.157	1.015	1.025		
14	1.314	0.202	1.057	1.068		
15	0.937	0.197	0.987	0.997		
17	0.783	0.069	0.983	0.993		
18	1.046	0.062	1.003	1.013		
19	0.850	0.023	0.996	1.006		
20	1.115	0.027	1.003	1.013		
21	0.865	0.297	0.958	0.968		
22	0.835	0.129	0.977	0.987		
Territory						
Indianapolis	0.780	0.366	0.913	0.901	Indicated Monoline Loss Cost Level Change	-25.1%
Bal. Of State (Indiana)	1.040	0.780	1.031	1.018		-15.3%

INDIANA  
BASIC GROUP I RELATIVITY ANALYSIS

Sample Loss Cost Level Change Calculation for Indianapolis:

Statewide Coverage Loss Cost Change	=	0.965
Territorial Relativity	=	0.901
Monoline (TOP 10) Relativity	=	0.862
Rating Group 01 Relativity	=	0.994
Indicated Monoline Loss Cost Level Change		
= 0.965 x 0.901 x 0.862 x 0.994	=	0.745
	or	-25.5%



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

<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss <u>Costs</u>	(2) 5 - Year Aggregate Loss <u>Costs</u>	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Indianapolis	TOP 10: Monoline						
		1 Apartments	94,859	453,253	0.000	0.081	0.093
		2 Other Habitational	80,082	449,063	0.469	0.409	0.471
		3 Restaurants & Bars	82,097	243,072	0.000	0.115	0.132
		4 Other Mercantile Risks	223,391	953,528	0.674	0.603	0.694
		5 Public Buildings	3,226	6,839	0.000	0.222	0.255
		6 Churches	236	7,585	0.000	0.222	0.255
		7 Schools	3,811	18,206	0.000	0.213	0.245
		8 Offices and Banks	115,046	492,286	0.074	0.129	0.148
		9 Recreational Facilities	34,078	209,321	0.351	0.313	0.360
		10 Hotels and Motels	477	17,095	0.000	0.214	0.246
		11 Hospitals and Nursing Homes	18,154	35,837	0.000	0.200	0.230
		13 Motor Vehicle Risks	34,208	122,591	0.000	0.153	0.176
		14 Other Non-Manufacturing	56,315	285,106	0.045	0.133	0.153
		15 Storage	39,733	235,768	0.007	0.121	0.139
		17 Food Manufacturing	381	2,263	0.000	0.227	0.261
		18 Wood Manufacturing	4,219	16,971	0.000	0.214	0.246
		19 Wearing Apparel	1,309	5,591	5.176	1.097	1.262
		20 Chemical Manufacturing	4	32	0.000	0.229	0.264
		21 Metal Manufacturing	32,209	159,380	0.000	0.139	0.160
		22 Other Manufacturing	10,246	28,196	0.000	0.205	0.236
		TOTAL	834,081	3,741,983	0.262	0.290	0.334
Indianapolis	TOP 31: Multiline Hotels/Motels						
		10 Hotels and Motels	114,286	633,119	0.177	0.474	0.545
		TOTAL	114,286	633,119	0.177	0.474	0.545
Indianapolis	TOP 32: Multiline Apartment						
		1 Apartments	1,723,781	6,652,262	1.005	0.914	1.052
		2 Other Habitational	150,282	978,253	0.951	0.747	0.860
		TOTAL	1,874,063	7,630,515	1.001	0.901	1.037

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

<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Indianapolis	TOP 33: Multiline Office	8 Offices and Banks	577,331	2,600,065	0.092	0.312	0.359
		TOTAL	577,331	2,600,065	0.092	0.312	0.359
Indianapolis	TOP 34: Multiline Mercantile	3 Restaurants & Bars	350,520	1,279,140	0.429	0.535	0.616
		4 Other Mercantile Risks	837,295	4,491,001	0.573	0.586	0.674
		8 Offices and Banks	52,850	263,729	0.427	0.572	0.658
		13 Motor Vehicle Risks	23,373	177,649	0.000	0.486	0.559
		14 Other Non-Manufacturing	22,161	129,382	0.000	0.495	0.570
		15 Storage	172,797	606,599	0.419	0.554	0.638
		TOTAL	1,458,996	6,947,500	0.497	0.566	0.652
Indianapolis	TOP 35: Multiline Institutional	2 Other Habitational	4,154	25,014	0.000	0.514	0.591
		5 Public Buildings	16,628	100,512	0.000	0.500	0.575
		6 Churches	224,483	1,204,663	0.531	0.580	0.667
		7 Schools	24,107	302,137	0.395	0.562	0.647
		8 Offices and Banks	30,129	155,743	0.000	0.490	0.564
		9 Recreational Facilities	11,354	68,234	0.000	0.506	0.582
		11 Hospitals and Nursing Homes	5,840	99,515	0.000	0.500	0.575
		13 Motor Vehicle Risks	474	863	0.000	0.519	0.597
		14 Other Non-Manufacturing	8,311	36,281	0.000	0.512	0.589
		TOTAL	325,480	1,992,962	0.395	0.560	0.644
Indianapolis	TOP 36: Multiline Services	3 Restaurants & Bars	32,686	107,263	1.393	1.273	1.465
		4 Other Mercantile Risks	59,214	330,582	0.000	1.084	1.247
		8 Offices and Banks	140,537	794,882	0.077	1.086	1.250
		9 Recreational Facilities	221,102	1,080,330	0.195	1.099	1.265
		13 Motor Vehicle Risks	131,732	879,578	1.257	1.255	1.444
		14 Other Non-Manufacturing	92,296	507,777	4.889	1.757	2.022
		15 Storage	48,606	290,546	3.167	1.513	1.741
		21 Metal Manufacturing	7,355	37,125	0.000	1.090	1.254
		22 Other Manufacturing	14,528	57,397	0.910	1.209	1.391
		TOTAL	748,056	4,085,480	1.181	1.241	1.428
Indianapolis	TOP 37: Multiline Industrial/Processing	4 Other Mercantile Risks	51,909	247,340	0.064	1.095	1.260
		8 Offices and Banks	31,446	147,203	0.000	1.088	1.252
		13 Motor Vehicle Risks	1,588	10,914	0.000	1.091	1.255
		14 Other Non-Manufacturing	6,733	59,301	0.960	1.216	1.399
		15 Storage	2,656	244,514	0.000	1.086	1.250
		17 Food Manufacturing	51,815	163,792	0.000	1.088	1.252
		18 Wood Manufacturing	24,979	174,578	0.000	1.087	1.251
		19 Wearing Apparel	10,258	29,150	0.000	1.090	1.254
		20 Chemical Manufacturing	10,729	112,380	0.000	1.089	1.253
		21 Metal Manufacturing	229,145	1,150,025	2.378	1.421	1.635
		22 Other Manufacturing	83,540	425,050	4.120	1.647	1.895
		TOTAL	504,798	2,764,247	1.781	1.334	1.535

INDIANA  
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		(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
<u>Territory</u>	<u>Type of</u>	<u>Rating Group</u>				
Indianapolis	TOP 38: Multiline Contractors					
		4 Other Mercantile Risks	148,571	0.510	1.148	1.321
		8 Offices and Banks	78,594	0.189	1.109	1.276
		14 Other Non-Manufacturing	13,349	2.771	1.454	1.673
		TOTAL	240,514	0.531	1.152	1.326
Indianapolis	TOP: All TOPS					
		1 Apartments	1,818,640	0.953	0.871	1.002
		2 Other Habitational	234,518	0.770	0.627	0.722
		3 Restaurants & Bars	465,303	0.421	0.513	0.590
		4 Other Mercantile Risks	1,320,380	0.537	0.694	0.799
		5 Public Buildings	19,854	0.000	0.455	0.523
		6 Churches	224,719	0.530	0.580	0.667
		7 Schools	27,918	0.341	0.514	0.592
		8 Offices and Banks	1,025,933	0.107	0.501	0.576
		9 Recreational Facilities	266,534	0.207	0.973	1.120
		10 Hotels and Motels	114,763	0.176	0.473	0.544
		11 Hospitals and Nursing Homes	23,994	0.000	0.273	0.314
		13 Motor Vehicle Risks	191,375	0.865	0.961	1.106
		14 Other Non-Manufacturing	199,165	2.497	1.067	1.228
		15 Storage	263,792	0.859	0.671	0.772
		17 Food Manufacturing	52,196	0.000	1.082	1.245
		18 Wood Manufacturing	29,198	0.000	0.961	1.106
		19 Wearing Apparel	11,567	0.586	1.091	1.255
		20 Chemical Manufacturing	10,733	0.000	1.089	1.253
		21 Metal Manufacturing	268,709	2.028	1.258	1.448
		22 Other Manufacturing	108,314	3.300	1.452	1.670
		TOTAL	6,677,605	0.738	0.756	0.870
Balance of State	TOP 10: Monoline					
		1 Apartments	687,698	0.358	0.461	0.530
		2 Other Habitational	219,428	0.534	0.504	0.580
		3 Restaurants & Bars	126,476	0.204	0.445	0.512
		4 Other Mercantile Risks	1,095,143	0.663	0.547	0.629
		5 Public Buildings	875,483	0.414	0.472	0.543
		6 Churches	13,813	0.243	0.456	0.525
		7 Schools	1,448,417	0.683	0.551	0.634
		8 Offices and Banks	420,112	0.884	0.586	0.674
		9 Recreational Facilities	414,990	0.653	0.531	0.611
		10 Hotels and Motels	15,167	0.000	0.420	0.483
		11 Hospitals and Nursing Homes	175,906	0.446	0.486	0.559
		13 Motor Vehicle Risks	220,065	0.048	0.411	0.473
		14 Other Non-Manufacturing	315,133	0.161	0.419	0.482
		15 Storage	355,119	0.232	0.438	0.504
		17 Food Manufacturing	248,035	0.011	0.415	0.478
		18 Wood Manufacturing	87,105	0.000	0.417	0.480
		19 Wearing Apparel	108,779	0.000	0.414	0.476
		20 Chemical Manufacturing	80,040	0.000	0.415	0.478
		21 Metal Manufacturing	218,731	0.349	0.465	0.535
		22 Other Manufacturing	36,416	4.155	1.077	1.239
		TOTAL	7,162,056	0.498	0.502	0.578

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

<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Balance of State	TOP 31: Multiline Hotels/Motels	10 Hotels and Motels TOTAL	416,917	2,574,615	0.466	0.792	0.911
Balance of State	TOP 32: Multiline Apartment	1 Apartments 2 Other Habitational TOTAL	5,011,264 1,251,343 6,262,607	23,222,713 7,256,539 30,479,252	1.179 1.553 1.254	1.150 1.346 1.189	1.323 1.549 1.368
Balance of State	TOP 33: Multiline Office	8 Offices and Banks TOTAL	2,030,472	10,490,013	0.686	0.789	0.908
Balance of State	TOP 34: Multiline Mercantile	3 Restaurants & Bars 4 Other Mercantile Risks 8 Offices and Banks 13 Motor Vehicle Risks 14 Other Non-Manufacturing 15 Storage TOTAL	1,384,303 4,324,080 200,799 140,650 143,701 970,366 7,163,899	6,392,981 23,399,652 1,017,540 973,433 911,702 4,291,161 36,986,469	1.928 0.912 0.197 0.100 2.677 0.830 1.097	1.552 0.930 0.789 0.766 1.459 0.922 1.053	1.786 1.070 0.908 0.881 1.679 1.061 1.211
Balance of State	TOP 35: Multiline Institutional	2 Other Habitational 5 Public Buildings 6 Churches 7 Schools 8 Offices and Banks 9 Recreational Facilities 11 Hospitals and Nursing Homes 13 Motor Vehicle Risks 14 Other Non-Manufacturing TOTAL	22,415 673,165 1,452,187 522,634 155,529 224,552 233,625 5,870 414,195 3,704,172	111,785 3,596,724 8,613,258 13,751,136 1,095,986 1,196,195 981,024 60,422 2,412,866 31,819,396	0.000 0.869 0.653 1.212 0.259 0.175 0.613 0.430 0.263 0.675	0.841 0.947 0.780 1.161 0.800 0.768 0.906 0.919 0.718 0.866	0.968 1.090 0.898 1.336 0.921 0.884 1.043 1.058 0.826 0.997
Balance of State	TOP 36: Multiline Services	3 Restaurants & Bars 4 Other Mercantile Risks 8 Offices and Banks 9 Recreational Facilities 13 Motor Vehicle Risks 14 Other Non-Manufacturing 15 Storage 21 Metal Manufacturing 22 Other Manufacturing TOTAL	192,579 383,538 496,588 1,274,783 707,480 519,384 378,351 61,969 61,852 4,076,524	814,844 2,060,799 2,449,770 6,684,888 4,309,752 2,823,537 2,296,274 271,135 334,299 22,045,298	0.446 0.085 0.300 0.919 1.607 3.262 1.584 3.934 0.083 1.256	0.832 0.716 0.757 0.917 1.146 1.561 1.084 1.359 0.791 1.017	0.957 0.824 0.871 1.055 1.319 1.796 1.247 1.564 0.910 1.170

INDIANA  
BASIC GROUP I RELATIVITY ANALYSIS  
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<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Balance of State	TOP 37: Multiline Industrial/Processing						
		4 Other Mercantile Risks	346,482	1,781,094	0.677	0.861	0.991
		8 Offices and Banks	132,444	523,121	2.744	1.211	1.394
		13 Motor Vehicle Risks	10,390	57,301	0.000	0.793	0.913
		14 Other Non-Manufacturing	115,050	696,928	0.703	0.879	1.012
		15 Storage	39,763	231,036	0.025	0.787	0.906
		17 Food Manufacturing	524,757	2,474,504	0.107	0.706	0.812
		18 Wood Manufacturing	431,119	2,246,176	1.078	0.956	1.100
		19 Wearing Apparel	96,237	604,724	0.000	0.764	0.879
		20 Chemical Manufacturing	125,553	726,838	1.631	1.039	1.196
		21 Metal Manufacturing	2,393,163	13,944,641	0.679	0.783	0.901
		22 Other Manufacturing	985,508	4,871,068	0.464	0.756	0.870
		TOTAL	5,200,466	28,157,431	0.671	0.809	0.930
Balance of State	TOP 38: Multiline Contractors						
		4 Other Mercantile Risks	666,804	3,779,782	0.709	0.851	0.979
		8 Offices and Banks	326,538	1,678,882	0.877	0.907	1.044
		14 Other Non-Manufacturing	48,341	368,164	0.377	0.834	0.960
		TOTAL	1,041,683	5,826,828	0.746	0.868	0.998
Balance of State	TOP: All TOPS						
		1 Apartments	5,698,962	25,701,511	1.080	1.067	1.227
		2 Other Habitational	1,493,186	8,725,818	1.380	1.215	1.398
		3 Restaurants & Bars	1,703,358	7,713,623	1.632	1.388	1.598
		4 Other Mercantile Risks	6,816,047	34,938,555	0.794	0.845	0.972
		5 Public Buildings	1,548,648	7,028,002	0.612	0.678	0.781
		6 Churches	1,466,000	8,763,911	0.649	0.777	0.894
		7 Schools	1,971,051	17,426,415	0.823	0.713	0.820
		8 Offices and Banks	3,762,482	19,138,268	0.702	0.788	0.906
		9 Recreational Facilities	1,914,325	9,492,228	0.774	0.816	0.939
		10 Hotels and Motels	432,084	2,651,824	0.450	0.779	0.896
		11 Hospitals and Nursing Homes	409,531	1,824,125	0.541	0.726	0.835
		13 Motor Vehicle Risks	1,084,455	6,257,547	1.073	0.943	1.085
		14 Other Non-Manufacturing	1,555,804	9,016,476	1.503	1.023	1.177
		15 Storage	1,743,599	8,409,627	0.853	0.855	0.984
		17 Food Manufacturing	772,792	2,809,616	0.076	0.613	0.705
		18 Wood Manufacturing	518,224	2,449,589	0.897	0.865	0.996
		19 Wearing Apparel	205,016	913,507	0.000	0.578	0.665
		20 Chemical Manufacturing	205,593	1,011,751	0.996	0.796	0.916
		21 Metal Manufacturing	2,673,863	15,562,272	0.727	0.770	0.886
		22 Other Manufacturing	1,083,776	5,389,141	0.566	0.769	0.885
		TOTAL	37,058,796	195,223,806	0.884	0.890	1.024

INDIANA  
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<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Entire State	TOP 10: Monoline						
		1 Apartments	782,557	2,932,051	0.315	0.415	0.477
		2 Other Habitational	299,510	1,806,557	0.517	0.479	0.551
		3 Restaurants & Bars	208,573	748,870	0.124	0.315	0.362
		4 Other Mercantile Risks	1,318,534	4,870,756	0.665	0.556	0.640
		5 Public Buildings	878,709	3,438,117	0.412	0.471	0.542
		6 Churches	14,049	158,238	0.239	0.452	0.520
		7 Schools	1,452,228	3,693,485	0.681	0.550	0.633
		8 Offices and Banks	535,158	2,375,242	0.710	0.488	0.561
		9 Recreational Facilities	449,068	1,820,466	0.630	0.514	0.592
		10 Hotels and Motels	15,644	94,304	0.000	0.414	0.476
		11 Hospitals and Nursing Homes	194,060	878,938	0.404	0.459	0.528
		13 Motor Vehicle Risks	254,273	979,230	0.042	0.376	0.433
		14 Other Non-Manufacturing	371,448	2,088,385	0.143	0.376	0.432
		15 Storage	394,852	1,826,924	0.209	0.406	0.467
		17 Food Manufacturing	248,416	337,375	0.011	0.415	0.478
		18 Wood Manufacturing	91,324	220,384	0.000	0.408	0.469
		19 Wearing Apparel	110,088	314,374	0.062	0.422	0.485
		20 Chemical Manufacturing	80,044	284,945	0.000	0.415	0.478
		21 Metal Manufacturing	250,940	1,505,876	0.304	0.423	0.487
		22 Other Manufacturing	46,662	211,970	3.243	0.886	1.019
		TOTAL	7,996,137	30,586,487	0.473	0.480	0.552
Entire State	TOP 31: Multiline Hotels/Motels						
		10 Hotels and Motels	531,203	3,207,734	0.404	0.724	0.832
		TOTAL	531,203	3,207,734	0.404	0.724	0.832
Entire State	TOP 32: Multiline Apartment						
		1 Apartments	6,735,045	29,874,975	1.134	1.090	1.254
		2 Other Habitational	1,401,625	8,234,792	1.488	1.282	1.475
		TOTAL	8,136,670	38,109,767	1.195	1.123	1.292
Entire State	TOP 33: Multiline Office						
		8 Offices and Banks	2,607,803	13,090,078	0.554	0.683	0.786
		TOTAL	2,607,803	13,090,078	0.554	0.683	0.786
Entire State	TOP 34: Multiline Mercantile						
		3 Restaurants & Bars	1,734,823	7,672,121	1.625	1.347	1.550
		4 Other Mercantile Risks	5,161,375	27,890,653	0.857	0.874	1.006
		8 Offices and Banks	253,649	1,281,269	0.245	0.744	0.856
		13 Motor Vehicle Risks	164,023	1,151,082	0.086	0.726	0.835
		14 Other Non-Manufacturing	165,862	1,041,084	2.319	1.330	1.531
		15 Storage	1,143,163	4,897,760	0.768	0.866	0.997
		TOTAL	8,622,895	43,933,969	0.995	0.970	1.116

INDIANA  
BASIC GROUP I RELATIVITY ANALYSIS  
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<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Entire State	TOP 35: Multiline Institutional	2 Other Habitational	26,569	136,799	0.000	0.790	0.909
		5 Public Buildings	689,793	3,697,236	0.848	0.936	1.078
		6 Churches	1,676,670	9,817,921	0.637	0.753	0.867
		7 Schools	546,741	14,053,273	1.176	1.135	1.306
		8 Offices and Banks	185,658	1,251,729	0.217	0.750	0.863
		9 Recreational Facilities	235,906	1,264,429	0.167	0.755	0.869
		11 Hospitals and Nursing Homes	239,465	1,080,539	0.598	0.896	1.032
		13 Motor Vehicle Risks	6,344	61,285	0.398	0.889	1.024
		14 Other Non-Manufacturing	422,506	2,449,147	0.258	0.714	0.821
		TOTAL	4,029,652	33,812,358	0.653	0.841	0.968
Entire State	TOP 36: Multiline Services	3 Restaurants & Bars	225,265	922,107	0.583	0.896	1.031
		4 Other Mercantile Risks	442,752	2,391,381	0.074	0.765	0.881
		8 Offices and Banks	637,125	3,244,652	0.251	0.830	0.955
		9 Recreational Facilities	1,495,885	7,765,218	0.812	0.944	1.086
		13 Motor Vehicle Risks	839,212	5,189,330	1.552	1.163	1.339
		14 Other Non-Manufacturing	611,680	3,331,314	3.507	1.591	1.830
		15 Storage	426,957	2,586,820	1.764	1.133	1.303
		21 Metal Manufacturing	69,324	308,260	3.517	1.330	1.531
		22 Other Manufacturing	76,380	391,696	0.240	0.871	1.001
		TOTAL	4,824,580	26,130,778	1.244	1.051	1.210
Entire State	TOP 37: Multiline Industrial/Processing	4 Other Mercantile Risks	398,391	2,028,434	0.597	0.891	1.026
		8 Offices and Banks	163,890	670,324	2.218	1.187	1.367
		13 Motor Vehicle Risks	11,978	68,215	0.000	0.833	0.958
		14 Other Non-Manufacturing	121,783	756,229	0.717	0.898	1.033
		15 Storage	42,419	475,550	0.023	0.806	0.928
		17 Food Manufacturing	576,572	2,638,296	0.097	0.740	0.852
		18 Wood Manufacturing	456,098	2,420,754	1.019	0.963	1.108
		19 Wearing Apparel	106,495	633,874	0.000	0.795	0.915
		20 Chemical Manufacturing	136,282	839,218	1.503	1.043	1.200
		21 Metal Manufacturing	2,622,308	15,094,666	0.827	0.839	0.965
		22 Other Manufacturing	1,069,048	5,296,118	0.750	0.826	0.950
		TOTAL	5,705,264	30,921,678	0.769	0.855	0.984
Entire State	TOP 38: Multiline Contractors	4 Other Mercantile Risks	815,375	4,606,222	0.673	0.905	1.041
		8 Offices and Banks	405,132	2,089,595	0.744	0.946	1.089
		14 Other Non-Manufacturing	61,690	437,361	0.895	0.968	1.114
		TOTAL	1,282,197	7,133,178	0.706	0.921	1.060

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BASIC GROUP I RELATIVITY ANALYSIS  
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<u>Territory</u>	<u>Type of Policy</u>	<u>Rating Group</u>	(1) Accident Year Ending 09/30/2022 Aggregate Loss Costs	(2) 5 - Year Aggregate Loss Costs	(3) 5 - Year Experience Ratio	(4) Credibility Weighted Experience Ratio	(5) Credibility Weighted Relativity
Entire State	TOP: All TOPS						
		1 Apartments	7,517,602	32,807,026	1.049	1.019	1.173
		2 Other Habitational	1,727,704	10,178,148	1.297	1.135	1.306
		3 Restaurants & Bars	2,168,661	9,343,098	1.373	1.201	1.382
		4 Other Mercantile Risks	8,136,427	41,787,446	0.752	0.821	0.944
		5 Public Buildings	1,568,502	7,135,353	0.604	0.676	0.778
		6 Churches	1,690,719	9,976,159	0.633	0.751	0.864
		7 Schools	1,998,969	17,746,758	0.817	0.710	0.817
		8 Offices and Banks	4,788,415	24,002,889	0.575	0.726	0.836
		9 Recreational Facilities	2,180,859	10,850,113	0.705	0.835	0.961
		10 Hotels and Motels	546,847	3,302,038	0.392	0.715	0.822
		11 Hospitals and Nursing Homes	433,525	1,959,477	0.511	0.701	0.806
		13 Motor Vehicle Risks	1,275,830	7,449,142	1.042	0.946	1.088
		14 Other Non-Manufacturing	1,754,969	10,103,520	1.615	1.028	1.183
		15 Storage	2,007,391	9,787,054	0.854	0.831	0.957
		17 Food Manufacturing	824,988	2,975,671	0.071	0.642	0.739
		18 Wood Manufacturing	547,422	2,641,138	0.849	0.870	1.002
		19 Wearing Apparel	216,583	948,248	0.031	0.606	0.697
		20 Chemical Manufacturing	216,326	1,124,163	0.947	0.811	0.933
		21 Metal Manufacturing	2,942,572	16,908,802	0.846	0.815	0.938
		22 Other Manufacturing	1,192,090	5,899,784	0.815	0.831	0.956
		TOTAL	43,736,401	226,926,027	0.861	0.869	1.000