

RULES – IMPLEMENTATION

SEPTEMBER 18, 2020

COMMERCIAL MULTIPLE LINE

LI-ML-2020-045

CONNECTICUT COMMERCIAL PACKAGE POLICY REVISED PACKAGE MODIFICATION FACTOR REVISION TO BE IMPLEMENTED; EXHIBITS NEWLY PRESENTED IN EXCEL

KEY MESSAGE

Revised Commercial Package Policy package modification factors for an overall statewide change of +0.6% to be implemented.

BACKGROUND

In circular [LI-ML-2020-017](#), we provided you with information about the Commercial Package Policy modification factor experience review.

CONSIDERATION OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs or rating factors, which are based on historical experience (pre-COVID-19), to reflect the conditions in which these loss costs or rating factors will be effective (post-COVID-19). Commercial Package Policy Modification Factors are applied to separate underlying coverages that are then combined to create a package policy. Any adjustment that is made to the underlying coverage loss costs to reflect the potential impact of COVID-19 will, therefore, also be reflected in commercial package policy rating. While there will almost certainly be long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have negligible effects on Commercial Package Policy Modification Factors. Therefore, ISO is not making any explicit adjustment to those factors due to COVID-19.

ISO ACTION

We are implementing ML-2020-RLA1, which presents a review of Commercial Package Policy modification factors experience. Refer to the attachment(s) for complete details.

IMPORTANT NOTE

Change in Format

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

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

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

EFFECTIVE DATE

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

These changes are applicable to all policies effective on or after May 1, 2021.

COMPANY ACTION

If you have authorized us to file on your behalf and decide:

- To use our revision and effective date, you are not required to file anything with the Insurance Department.
- To use our revision with a different effective date, to use our revision with modification, or to not use our revision, you must make an appropriate submission with the Insurance Department.

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

WE WILL SUBMIT THIS REVISION TO THE INSURANCE DEPARTMENT ON FEBRUARY 1, 2021. IF STATE FILING REQUIREMENTS DICTATE THAT YOU MAKE A SUBMISSION WITH THE INSURANCE DEPARTMENT, DO NOT SUBMIT IT PRIOR TO THIS DATE.

In all correspondence with the Insurance Department on this revision, you should refer to ISO Filing Designation Number ML-2020-RLA1, NOT this circular number. Communications with the regulator concerning a filing affecting multiple lines of business (i.e., CL, PL, AL filing designation) should specify the line(s) of business that you are addressing.

RATING SOFTWARE IMPACT

No new attributes are being introduced with this revision.

POLICYHOLDER NOTIFICATION

If you decide to implement this revision, you should check all applicable laws for the state(s) to which this revision applies, to determine whether or not a specific policyholder notice requirement may apply. Please note that circular [LI-CL-2019-057](#) contains the ISO Guide To Renewals With Changed Conditions For Commercial Lines, which is available only as a guide to assist participating companies in complying with various conditional renewal statutes or regulations, for the major commercial lines of insurance serviced by ISO. The information in the Guide does not necessarily reflect all requirements or exceptions that may apply, and it is not intended as a substitute for your review of all applicable statutes and regulations concerning policyholder notification.

REVISION DISTRIBUTION

We will issue a Notice to Manualholders with an edition date of 5-21 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

REFERENCE(S)

- [LI-ML-2020-017](#) (04/01/2020) Commercial Package Policy Experience Reviewed By Staff
- [LI-CL-2019-057](#) (12/10/2019) Revised Lead Time Requirements Listing

ATTACHMENT(S)

- Filing [ML-2020-RLA1](#)
- Excel Workbook

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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ACKNOWLEDGMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "Qualification 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 this rule revision 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, Bei Zhou, am an Actuarial Product Director 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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CONNECTICUT
ADVISORY PACKAGE MODIFICATION FACTOR REVIEW
COMMERCIAL PACKAGE POLICY
ML-2020-RLA1
EXECUTIVE SUMMARY

PURPOSE

This document:

- presents a review of advisory Package Modification Factors (PMFs). PMFs are relativity factors used to adjust monoline loss costs as appropriate for multiline risks.
 - provides the analyses used to derive these advisory PMFs.
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CONSIDERATION
OF COVID-19

ISO has considered whether any adjustments need to be made to prospective loss costs or rating factors, which are based on historical experience (pre-COVID-19), to reflect the conditions in which these loss costs or rating factors will be effective (post-COVID-19). Commercial Package Policy Modification Factors are applied to separate underlying coverages that are then combined to create a package policy. Any adjustment that is made to the underlying coverage loss costs to reflect the potential impact of COVID-19 will therefore also be reflected in commercial package policy rating. While there will almost certainly be long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have negligible effects on Commercial Package Policy Modification Factors. Therefore, ISO is not making any explicit adjustment to those factors due to COVID-19.

PMF CHANGES

The proposed Commercial Package Policy (CPP) Package Modification Factor changes are:

<u>Type of Policy</u>	<u>Property</u>	<u>Liability</u>	<u>Prop. & Liab. Total</u>
Motel/Hotel	0.0%	0.0%	0.0%
Apartment	0.0%	6.6%	4.1%
Office	2.0%	2.6%	2.6%
Mercantile	1.0%	-2.1%	-0.7%
Institutional	-1.0%	-10.0%	-4.3%
Services	2.0%	-1.0%	0.6%
Indust./Proc.	-7.4%	8.8%	1.3%
Contractors	<u>0.0%</u>	<u>9.9%</u>	<u>8.9%</u>
Statewide	-0.1%	1.0%	0.6%

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INDICATED VS. CAPPED	Indicated PMF changes are based on standard ISO methodology. Differences between indicated and capped PMF changes are caused by rounding each indicated PMF to the nearest one percent and applying an upper cap of 1.00, where necessary.
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HISTORICAL SOURCE DATA	<p>The data used in this review is from ISO reporting companies for:</p> <ul style="list-style-type: none">• Basic Group I: five fiscal accident years ending 03/31/19.• Basic Group II: ten fiscal accident years ending 03/31/19.• Special Causes of Loss: five fiscal accident years ending 03/31/19.• Crime: calendar year ending 06/30/16.• Inland Marine: five calendar accident years ending 12/31/16.• Fidelity: policy year ending 12/31/15.• Owners, Landlords, and Tenants: five fiscal accident years ending 03/31/19.• Manufacturers and Contractors: five fiscal accident years ending 03/31/19.• Products: three calendar accident years ending 12/31/18.• Local Products and Completed Operations: three calendar accident years ending 12/31/18.
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PRIOR ISO REVISIONS	The latest revisions in this state are:
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<u>Filing</u>	ML-17-RLA1	ML-10-RLA1	ML-08-RLA1
<u>Dates</u>			
Implemented	2/1/2018	1/1/2011	3/1/2009
<u>Changes</u>			
Indicated	0.2%	1.2%	-0.8%
Filed	0.2%	1.2%	-0.7%
Implemented	0.2%	1.2%	-0.7%

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ADJUSTMENTS
TO REPORTED
EXPERIENCE

Standard actuarial procedures have been used in the reviews underlying the calculation of the PMFs, including adjusting the fire and liability losses to ultimate settlement level and, for all coverages, reflecting all loss adjustment expenses and trend. Specific procedures vary by subline.

TEN LARGEST
GROUPS IN
ISO DATA BASE

Insurers are listed in descending order based on the percent of statewide written premium volume from Annual Statement Page 15 for the year ending 12/31/18 for the Annual Statement Line of Business (ASLOB) indicated.

COMMERCIAL MULTI PERIL (ASLOB 51 & 52)

1. Travelers Indemnity Company
 2. Liberty Mutual Insurance Company
 3. Tokio Marine Companies
 4. Hartford Accident & Indemnity Company
 5. Hanover Insurance Company
 6. NGM Insurance Company
 7. American Alternative Insurance
 8. Vermont Mutual Insurance Company
 9. Continental Casualty Company
 10. Nationwide Mutual Insurance Company
-

SIZE OF ISO
DATA BASE

The market share of ISO participating insurers as measured by Annual Statement Page 15 written premium for the year ending 12/31/18 is:

Commercial Multi Peril (ASLOB 51 & 52). 70.4%.

ADDITIONAL
SUPPORTING
MATERIAL

Additional supporting material underlying the calculation of the experience review indications used in this PMF analysis may be found in the respective monoline experience review documents for each line.

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COMMERCIAL PACKAGE POLICY
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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 PMFs contained herein are appropriate for your 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 a 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 projection based on the aggregate data.

Some calculations included in this document involve areas of ISO staff judgment. Each company should carefully review and evaluate whether the ISO selected PMFs are appropriate for its use.

The material has been developed exclusively by the staff of Insurance Services Office, Inc.

COMMERCIAL PACKAGE POLICY

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COMMERCIAL PACKAGE POLICY METHODOLOGY OVERVIEW

OBJECTIVE

A Commercial Package Policy (CPP) is essentially a combination of monoline coverages. CPP pricing employs monoline loss costs modified by Package Modification Factors (PMFs). These factors vary by the eight CPP types of policy and are reviewed annually. Monoline and multiline experience are combined and reviewed via a monoline/multiline relativity analysis. The resulting indicated PMFs represent the loss cost for a CPP relative to that for monoline policies providing the same coverages.

STEP 1: THE RELATIVITY ANALYSES

Each line of insurance develops indicated changes to monoline and multiline aggregate loss costs based on an experience ratio relativity analysis for that coverage. The monoline indication represents the needed change to monoline loss costs. The multiline indication represents the needed change to multiline aggregate loss costs, which is implemented through changes to the PMFs. For this PMF analysis, multiline indications are developed for each line of insurance and Type of Policy. Relativity analyses are explained in Section B.

STEP 2: CALCULATION OF THE PMFs

The procedure described above generates indicated Implicit PMFs (IPMFs) which vary by the various lines of insurance and by type of policy. IPMFs represent what the PMF would be for the CPP risk if only a single coverage were written. For each Type of Policy, IPMFs are weighted by CPP aggregate loss costs to determine the indicated property and liability PMFs. These PMFs may be capped, or rounded to the nearest one percent, and certain component IPMFs appropriately adjusted for this change. These calculations are explained in the remainder of Section A.

EXPLANATORY NOTES TO EXHIBIT A2

CALCULATION OF REVISED PACKAGE MODIFICATION FACTORS

OBJECTIVE Commercial package policies were introduced in the 1960's as a convenient tool for both insurer and insured to have the many types of insurance needed by commercial risks packaged under one cover. Thus fire, extended coverage, crime, liability insurance, etc. could be written using a single policy instead of several. Today, virtually any type of monoline coverage can also be purchased as part of a package policy such as the CPP.

The types of insured which can be written under a CPP are generally categorized into the following Types of Policy:

- . Motels and Hotels (TOP 31)
- . Apartments (TOP 32)
- . Offices (TOP 33)
- . Mercantile Operations (TOP 34)
- . Institutions (TOP 35)
- . Service Operations (TOP 36)
- . Industrial and Processing Operations (TOP 37)
- . Contractors (TOP 38)

PRICING OF POLICIES Since a CPP is essentially a combination of monoline coverages, CPP pricing employs monoline loss costs modified by PMFs (Package Modification Factors). These factors vary by the categories shown above and are reviewed annually.

CPP PMF REVIEW PROCEDURE The CPP review of Package Modification Factors, which appears in Table 2 of this document, determines the appropriate PMF loss cost level for each of the eight CPP categories. This is done by combining the indications of the simultaneous reviews of monoline and multiline experience for the various lines (or coverages).

A detailed explanation of the calculation of the revised PMFs follows.

EXPLANATORY NOTES TO EXHIBIT A2 (Cont'd)

LINES OF INSURANCE (COVERAGES) INCLUDED

The CPP review reflects the contribution from each significant coverage which can be written on a CPP. Included are:

Property Coverages

- . Basic Group I (BGI) - the predominant property coverage included.
- . Basic Group II (BGII) - both Basic Group I and Basic Group II must be purchased under a CPP contract.
- . Special Causes of Loss (SCL) - typically a type of insurance which is purchased in addition to Basic Group I and Basic Group II in order to provide "all risk" property coverage for the insured.
- . Crime (CRIME) - Crime insurance is a commonly purchased CPP coverage.
- . Inland Marine (INL. MAR.) - A highly specialized line of property insurance, Inland Marine coverages can be purchased as part of a package policy.
- . Fidelity (FIDELITY) - Certain forms of fidelity insurance can be part of the CPP package. Various forms of employee dishonesty coverage are available.

Liability Coverages

- . Owners, Landlords and Tenants (OL&T) Liability - this is the prevalent type of Premises/Operations liability for CPP insureds.
- . Manufacturers and Contractors Liability (M&C) - this is the type of Premises/Operations liability insurance for risks whose liability exposure is more heavily off-premises than on.
- . Products/Completed Operations Liability (PROD) - this type of insurance protects against claims for damages arising from products/completed operations in conjunction with an insured's business. For review purposes, this line of insurance is split into the following two categories:
 - Products: experience for this category is reviewed on a multistate basis.
 - Local Products/ Completed Operations: experience for this category reflects an exposure to loss which is local in nature; therefore, individual state experience is used.

EXPLANATORY NOTES TO EXHIBIT A2 (Cont'd)

THE IMPLICIT PACKAGE MODIFICATION FACTOR

For each applicable coverage listed under each of the eight (8) CPP categories, a "current implicit PMF" is shown in column (2). The definition of this factor follows:

For a given CPP category (e.g., apartments) the published Package Modification Factor (PMF) represents the loss cost for a CPP relative to that for monoline policies providing the same coverages. Thus a property (liability) PMF of .80 represents a 20% lower aggregate loss cost for a CPP than for the comparable monoline policies. This PMF, however, represents the CPP "loss cost" for all property (liability) coverages combined. Based on CPP experience, it has been determined that this CPP "loss cost" can differ significantly if it is determined for each property (liability) coverage individually. The IPMF represents what the PMF would be for that CPP risk if only a single coverage were written. The use of the IPMF in monoline/multiline ratemaking and in the determination of revised CPP Package Modification Factors is significant in that it appropriately identifies how different the component parts of the multiline "loss cost" are.

THE MULTILINE INDICATION

Under the CPP ratemaking procedures, monoline and multiline experience are combined for each coverage. The results of these coverage analyses are indicated changes to monoline loss costs and also indicated CPP aggregate loss cost level changes. The CPP indications by coverage are then incorporated in the CPP PMF review. These indications (shown in column (3)) represent the needed adjustments to the IPMFs (shown in column (2)) described above.

The development of these indications is detailed in Section B.

THE INDICATED PMF

For each CPP category (and for property vs. liability), the indicated PMF is calculated as follows:

Each of the current IPMFs in column (2) is multiplied by the indicated percent change shown in column (3). A weighted average of the indicated IPMFs, using weights based on latest year aggregate loss costs at current ISO loss cost level (column (1) divided by column (2)), yields the indicated PMF at the bottom of column (4).

THE CAPPED PMF

The indicated PMF for each category (and for property vs. liability) shown at the bottom of column (4) is limited to a maximum of 1.00 in arriving at the proposed PMF (bottom of column (5)). All indicated PMFs which are below 1.00 are rounded to the nearest .01 in determining the proposed PMF. To the extent that any indicated PMFs are capped at 1.00, indicated PMFs below this value are adjusted in order to minimize any revenue changes which would result from capping.

In addition to the adjustments just described, the IPMFs (for property and liability) shown in column (4) are subject to minimum and maximum values and adjusted in column (5) so that they average to the proposed PMF shown at the bottom of column (5).

EXPLANATORY NOTES TO EXHIBITS B1 AND B2

BASIC GROUP I AND SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

OBJECTIVE

The explanations which follow clarify Exhibits B1 and B2, the Basic Group I Relativity Analysis and the Special Causes of Loss Relativity Analysis, respectively. The purpose of these analyses is to:

- (1) determine monoline classification 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 property CPP Package Modification Factors (PMFs) based on Basic Group I/Special Causes of Loss experience.

COLUMN (1)

LEAST SQUARES FORMULA RELATIVITIES

The Least Squares Formula Relativities are the marginal relativities which result from the application of the simultaneous review procedure to the raw experience (where marginal refers to the relativities for a given rating variable, e.g. type of policy, across all subsets of any other rating variables, i.e. rating group 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 PMF); a set of rating group 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, or 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 B1 AND B2 (Cont'd)

COLUMN (1)
(Cont'd)

The procedure uses 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 Exhibit B3 for Basic Group I and Exhibit B4 for Special Causes of Loss). Specifically, the iteration procedure uses the following formulas:

BASIC GROUP I:

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

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

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 B1 AND B2 (Cont'd)

COLUMN (1)
(Cont'd)

- . TOP_i is the relativity for the ith Type of Policy;
- . RG_j is the relativity for the jth Rating Group;
- . CAT_j is the relativity for the jth Category;
- . W_{ij} is the aggregate loss costs for the ith Type of Policy, jth Rating Group or Category;
- . R_{ij} is the experience ratio relativity for the ith Type of Policy, jth Rating Group or Category;
- . m is the number of Types of Policy in the analysis;
- . n is the number of Rating Groups or Categories in the analysis.

The procedure determines m Type of Policy relativities using the above formulas. Then, using those results, a set of n Rating Group or Category relativities are determined. These steps form an iterative process which continues until there is no appreciable difference in results from one iteration to the next.

COLUMN (2)

CREDIBILITY

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

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

where P is the 5-year adjusted aggregate 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 \$40,000,000 for rating group and \$100,000,000 for type of policy. For Special Causes of Loss, K equals an aggregate loss cost volume of \$15,000,000.

EXPLANATORY NOTES TO EXHIBITS B1 AND B2 (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.

MULTILINE
CONSIDERATIONS

The type of policy (TOP) relativities are used to generate multiline indications which apply to the current Implicit Package Modification Factors (IPMFs). The indicated IPMFs are calculated as follows:

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

EXPLANATORY NOTES TO EXHIBITS B1 AND B2 (Cont'd)

MULTILINE
CONSIDERATIONS
(Cont'd)

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 re-performed to take this into account. If an IPMF has been capped it is so noted at the bottom of Exhibits B1 and B2.

Loss cost changes for each TOP are calculated as described on Exhibits B1 and B2.

EXPLANATORY NOTES TO EXHIBITS B3 AND B4

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

INTRODUCTION The experience used in the relativity analysis and displayed in Exhibits B3 and B4 is the latest five years of accident year data as 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.

COLUMN (1) AGGREGATE LOSS COSTS

The latest year adjusted 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 formulae used in the simultaneous review procedure.

COLUMN (2) 5 - YEAR AGGREGATE LOSS COSTS

The combined five-year adjusted aggregate loss costs (adjusted as described above) are used to calculate the experience ratios in column (3).

COLUMN (3) FIVE-YEAR EXPERIENCE RATIOS

These are the ratio 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).

COLUMN (4) CREDIBILITY (Z) WEIGHTED EXPERIENCE RATIO

A credibility procedure is applied to the initial experience ratios in column (3) on a cell-by-cell basis prior to the simultaneous review procedure. The credibility values are calculated using an empirical Bayesian credibility procedure. In the following discussion, cell refers to an individual combination of TOP, rating group or category, and territory (where applicable).

EXPLANATORY NOTES TO EXHIBITS B3 AND B4 (Cont'd)

COLUMN (4)
(Cont'd)

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

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

The calculated credibility (Z) is then applied to the five-year experience ratio with the complement of credibility applied to the credibility-weighted average of the individual experience ratios of the group, where group refers to the specified TOP/territory group. In a non-territory state, K values would be determined for the three TOP groups on an entire state basis.

COLUMN (5)

WEIGHTED RELATIVITIES

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

EXPLANATORY NOTES TO EXHIBIT B5

BASIC GROUP II RELATIVITY ANALYSIS

OBJECTIVE

The explanations which follow clarify Exhibit B5, 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 property Commercial Package Policy (CPP) Package Modification Factors (PMFs) based on Basic Group II experience.

The BG II relativity analysis is based on non-hurricane loss experience only, as it is assumed that type of policy relativities are the same for both non-hurricane and hurricane perils. The resulting relativities apply to the total (hurricane plus non-hurricane) BG II loss costs.

COLUMN (1)

AGGREGATE LOSS COSTS

The latest fiscal 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)

10 - YEAR NON-HURRICANE EXPERIENCE RATIO

These experience ratios are the ratio of the combined ten year CSP adjusted incurred non-hurricane losses (adjusted to current deductible and prospective cost levels and also adjusted to reflect the BGII 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.

EXPLANATORY NOTES TO EXHIBIT B5 (Cont'd)

COLUMN (3)

FORMULA RELATIVITY

The formula relativities are the ratios of the ten year non-hurricane experience ratios for the type of policy (either monoline vs. multiline or individual multiline programs) to the average ten year non-hurricane 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 BGI and SCL relativity analyses, the BGII 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.

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 adjusted aggregate 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 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.

EXPLANATORY NOTES TO EXHIBIT B5 (Cont'd)

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 and the monoline balanced formula relativity, divided by the current IPMF.

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)

INDICATED LOSS COST CHANGES

The indicated multiline (by TOP) changes are calculated by taking the ratio of the TOP relativity (Column 7) to the monoline relativity.

For each 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.

CRIME AND FIDELITY

The reviews for Burglary and Theft and for Fidelity are done on a multistate basis, combining both multiline and monoline experience. However, unlike other coverages included in a Commercial Package Policy, there is no simultaneous review procedure for either Burglary and Theft or for Fidelity in which separate loss cost level changes can be determined for multiline and monoline experience. In the absence of a simultaneous review procedure, we are unable to determine Type of Policy relativities with which to price CPP policies relative to monoline policies and therefore have assumed a multiline change of 0.0% and thus no change to the historic Crime or Fidelity IPMFs.

EXPLANATORY NOTES TO EXHIBITS B6 AND B7

COMMERCIAL INLAND MARINE RELATIVITY ANALYSIS

EXPERIENCE BASE	<p>The Commercial Inland Marine IPMF review presented in the attached exhibits is based on a review of the latest available five years of monoline and multiline experience through accident year 2016 for all companies reporting data to Insurance Services Office under the Inland Marine Module of the Commercial Statistical Plan (CSP) and the Intermediate Level of the Commercial Minimum Statistical Plan (CMSP).</p>
ADJUSTMENT OF DATA	<p>Aggregate loss costs for each year in the review period have been adjusted to the levels which would have been earned had the current loss costs applied throughout the experience period. Reported premiums are adjusted to current level on an individual policy basis by applying a factor equal to all loss cost level changes that have been implemented subsequent to the policy being written. These adjusted premiums are then converted to a loss cost at current level. In order to eliminate the impact of company deviations from the manual level and individual risk modifications which were in effect at the time the policy was written, aggregate loss costs are further adjusted based on reported Rate Modification and Rate Departure Factors/Loss Cost Multipliers. Multiline aggregate loss costs are further adjusted to the level of the current Implicit Package Modification Factor (IPMF). Incurred losses are loaded for all loss adjustment expenses by applying a factor of 1.105.</p>
RELATIVITY ANALYSIS	<p>For Inland Marine coverage, a <u>multistate</u> IPMF level is determined via a two-way relativity analysis similar to the analysis used in Basic Group I. The experience for all reviewed classes is used to form class group relativities. These relativities for monoline and multiline (all programs combined) are determined through an iterative procedure. The ratio of the multiline relativity to the monoline relativity is multiplied by the current IPMF to yield the indicated IPMF. The indicated IPMF is subject to a minimum value of 0.500 and a maximum value of 1.500. If an indicated IPMF falls outside one of those limits, it is capped at that amount, the premiums for that Type of Policy (i.e., TOP 10 versus TOP 3X) are adjusted to the capped IPMF level, and the entire relativity review is performed again to take this into account.</p>

EXPLANATORY NOTES TO GENERAL LIABILITY

RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

OBJECTIVES

The objectives of this procedure are to:

- 1) determine monoline loss cost level needs for the appropriate rating variables;
- 2) determine indicated changes to the eight liability Commercial Package Policy (CPP) Package Modification Factors (PMFs) based on Premises/Operations and Products/Completed Operations data.

EXPERIENCE BASE

The experience used in this relativity analysis is the latest five (5) years of accident year data, as reported under the Commercial Statistical Plan with aggregate loss costs adjusted to current loss cost level (multiline aggregate loss costs adjusted additionally by the current Implicit Package Modification Factors). Losses have been trended and developed in the Relativity Analysis. ALCCL have been trended.

SIMULTANEOUS DETERMINATION OF RATING VARIABLE RELATIVITIES

Once the aggregate loss costs at current level and incurred losses used in the analysis have been appropriately adjusted, the 5-year experience ratios are calculated for each combination of the appropriate rating variables. From these ratios, relativities to the statewide 5-year experience ratio are calculated. These relativities are then used in a minimum bias iterative review procedure, which simultaneously determines the relativities for each rating variable.

The purpose of a simultaneous review procedure is to arrive at a set of relativities for each rating variable that best represent the experience. For example, the type of policy relativities will serve to derive the relationship of CPP policies relative to monoline policies, via the PMF, while the class group relativities will serve to derive the relationship of the various classifications relative to one another. An iterative technique is used to derive relativities for each rating variable. This procedure is in contrast to a one-way type of review, wherein relativities for each rating variable would each be reviewed separately.

Such one-way types of review do not take into account differing percentages of experience of each rating variable within the other rating variables. The simultaneous review procedure accounts for these different distributions in generating relativities for each rating variable.

RATING VARIABLES USED

For Premises/Operations and Products/Completed Operations, the rating variables used in the relativity analysis are as follows:

Owners, Landlords and Tenants -	type of policy and class group
Manufacturers and Contractors -	type of policy and class group
Products -	type of policy and class group
Local Products/Completed Operations-	type of policy, state and class group

EXPLANATORY NOTES TO GENERAL LIABILITY
RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

ITERATIVE
PROCEDURE

The iterative technique referred to in the previous paragraph solves for a set of relativities for each rating variable based on the experience for the cells; that is, based on the experience ratio and latest year adjusted aggregate loss cost volume for each combination of rating variables relative to the experience ratio and adjusted aggregate loss cost volume for all combinations of rating variables combined. Specifically, the iterative procedure uses the following formulas:

For Owners, Landlords and Tenants:

$$TOP_i = \frac{\sum_j W_{ij} r_{ij}}{\sum_j W_{ij} CG_j} \quad \text{where } 1 \leq i \leq m$$
$$CG_j = \frac{\sum_i W_{ij} r_{ij}}{\sum_i W_{ij} TOP_i} \quad \text{where } 1 \leq j \leq n$$

TOP_i is the relative change for the i^{th} type of policy;

CG_j is the relative change for the j^{th} class group;

W_{ij} is the aggregate loss costs at current level for the i^{th}

type of policy and j^{th} class group;

r_{ij} is the relative change for the i^{th} type of policy

and j^{th} class group;

m is the number of types of policy in the analysis;

n is the number of class groups in the analysis;

EXPLANATORY NOTES TO GENERAL LIABILITY
RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

For Manufacturers and Contractors, and Products:

$$TOP_i = \frac{\sum_j W_{ij} r_{ij}}{\sum_j W_{ij} CG_j} \quad \text{where } 1 \leq i \leq m$$
$$CG_j = \frac{\sum_i W_{ij} r_{ij}}{\sum_i W_{ij} TOP_i} \quad \text{where } 1 \leq j \leq n$$

TOP_i is the relative change for the i^{th} type of policy;

CG_j is the relative change for the j^{th} class group;

W_{ij} is the aggregate loss costs at current level for the i^{th}

type of policy and j^{th} class group;

r_{ij} is the relative change for the i^{th} type of policy

and j^{th} class group;

m is the number of types of policy in the analysis;

n is the number of class groups in the analysis;

EXPLANATORY NOTES TO GENERAL LIABILITY
RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

For Local Products/Completed Operations:

$$TOP_i = \frac{\sum_j \sum_k W_{ijk} r_{ijk}}{\sum_j \sum_k W_{ijk} CG_j ST_k} \quad \text{where } 1 \leq i \leq m$$
$$CG_j = \frac{\sum_i \sum_k W_{ijk} r_{ijk}}{\sum_i \sum_k W_{ijk} TOP_i ST_k} \quad \text{where } 1 \leq j \leq n$$
$$ST_k = \frac{\sum_i \sum_j W_{ijk} r_{ijk}}{\sum_i \sum_j W_{ijk} TOP_i CG_j} \quad \text{where } 1 \leq k \leq p$$

TOP_i is the relative change for the i^{th} type of policy;

CG_j is the relative change for the j^{th} class group;

ST_k is the relative change for the k^{th} state;

W_{ijk} is the aggregate loss costs at current level for the i^{th}

type of policy, j^{th} class group and k^{th} state;

r_{ijk} is the relative change for the i^{th} type of policy,

j^{th} class group and k^{th} state;

m is the number of types of policy in the analysis;

n is the number of class groups in the analysis;

p is the number of states in the analysis;

EXPLANATORY NOTES TO GENERAL LIABILITY
RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

ITERATIVE
PROCEDURE
(Cont'd)

For example, for Owners, Landlords and Tenants, the procedure starts by inserting the actual relativities for type of policy into the second formula to get a class group relativity. The resultant class group relativities then produce a new set of type of policy relativities. The process continues on in that fashion until there is no appreciable difference from one iteration to the next.

APPLICATION OF
CREDIBILITY

Consideration is then given to the credibility of the experience for each rating variable. The credibility of each of these categories is based on the formula

$$Z = \sqrt{P/18,000} \text{ for Owners, Landlords and Tenants, } Z = \sqrt{P/18,000} \text{ for}$$

$$\text{Manufacturers and Contractors and } Z = \sqrt{P/20,000} \text{ for Products, where P}$$

is the 5 year occurrence total for a given class group, territory or type of policy. For Local Products/Completed Operations, separate formulas are used to calculate the credibility of the experience for each type of policy and class group versus the credibility of the experience for each state, namely Z

$$= \sqrt{P/15,000} \text{ for type of policy and class group, and } Z = \sqrt{P/5,500} \text{ for}$$

state(in this case, P is the 5 year occurrence total for a given state).

Credibility-weighted relativities are then calculated as follows:

$$W = R^Z \quad \text{where:}$$

Z is the class group, state or type of policy credibility;

R is the class group, state or type of policy relativity;

W is the credibility-weighted relativity.

The resulting credibility-weighted relativities are then balanced to assure that the average relativity remains at unity.

EXPLANATORY NOTES TO GENERAL LIABILITY
RELATIVITY ANALYSIS - EXHIBITS B8 THROUGH B17.

MULTILINE
CONSIDERATIONS

The monoline relativities, the class group and state relativities which result from the aforementioned procedures are then used to generate indicated monoline classification loss cost changes. The multiline relativities, the class group and state relativities which result from the aforementioned procedures are then used to generate multiline indications that apply to the current Implicit Package Modification Factors. The indicated IPMFs are calculated as follows:

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

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 re-performed to take this into account.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

COMMERCIAL PACKAGE POLICY
SUMMARY OF THIS REVIEW

TYPE OF POLICY	PROPERTY PMFS			LIABILITY PMFS			PROP. & LIAB. TOTAL
	CURRENT	CAPPED	% CHANGE	CURRENT	CAPPED	% CHANGE	% CHANGE
MOTEL/HOTEL(31)	1.00	1.00	0.0%	1.00	1.00	0.0%	0.0%
APARTMENT (32)	0.99	0.99	0.0%	0.76	0.81	6.6%	4.1%
OFFICE (33)	0.98	1.00	2.0%	0.76	0.78	2.6%	2.6%
MERCANTILE (34)	0.98	0.99	1.0%	0.97	0.95	-2.1%	-0.7%
INSTITUTION(35)	0.98	0.97	-1.0%	1.00	0.90	-10.0%	-4.3%
SERVICES (36)	0.98	1.00	2.0%	1.00	0.99	-1.0%	0.6%
IND/PROC (37)	0.94	0.87	-7.4%	0.91	0.99	8.8%	1.3%
CONTRACTORS(38)	1.00	1.00	0.0%	0.91	1.00	9.9%	8.9%
STATEWIDE			-0.1%			1.0%	0.6%

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL PACKAGE POLICY
CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

MOTEL/HOTEL(31) *****	(1) AGGREGATE LOSS <u>COSTS</u>	(2) CURRENT IMPLICIT <u>PMF</u>	(3) NET <u>INDICATION</u>	(4) INDIC. <u>PMF</u>	(5) CAPPED <u>PMF</u>
COVERAGE					
PROPERTY-					
BASIC GRP I	166,370	1.202	0.7%	1.210	1.162
BASIC GRP II	143,813	0.724	14.2%	0.827	0.793
SP CAUSE/LOSS	256,472	1.144	-1.2%	1.130	1.085
* CRIME	1,847	0.910	0.0%	0.910	0.910
* INL. MAR.	1,075	0.910	0.0%	0.910	0.910
* FIDELITY	4,585	1.000	0.0%	1.000	1.000
TOTAL	574,162	1.000	4.2%	1.042	1.000
LIABILITY-					
OL&T	930,336	1.000	-1.0%	0.990	1.000
TOTAL	930,336	1.000	-1.0%	0.990	1.000

PROP. & LIAB. TOTAL	1,504,498		1.0%		0.0%

APARTMENT (32) *****	(1) AGGREGATE LOSS <u>COSTS</u>	(2) CURRENT IMPLICIT <u>PMF</u>	(3) NET <u>INDICATION</u>	(4) INDIC. <u>PMF</u>	(5) CAPPED <u>PMF</u>
COVERAGE					
PROPERTY-					
BASIC GRP I	2,860,445	0.963	-1.2%	0.951	0.952
BASIC GRP II	681,611	0.668	8.3%	0.723	0.724
SP CAUSE/LOSS	1,653,153	1.378	-3.9%	1.324	1.325
* CRIME	278	0.910	0.0%	0.910	0.910
* INL. MAR.	21	0.910	0.0%	0.910	0.910
* FIDELITY	11,492	1.000	0.0%	1.000	1.000
TOTAL	5,207,000	0.990	0.3%	0.993	0.990
LIABILITY-					
OL&T	8,618,628	0.763	6.1%	0.810	0.813
TOTAL	8,618,628	0.760	6.5%	0.810	0.810

PROP. & LIAB. TOTAL	13,825,628		4.2%		4.1%

* indicates coverage for which reviews are on a MULTISTATE basis.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL PACKAGE POLICY
CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

OFFICE (33) *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
COVERAGE					
PROPERTY-					
BASIC GRP I	251,673	1.415	0.5%	1.422	1.417
BASIC GRP II	173,432	0.671	12.8%	0.757	0.754
SP CAUSE/LOSS	333,884	1.001	-2.8%	0.973	0.970
* CRIME	2,203	0.910	0.0%	0.910	0.910
* INL. MAR.	2,739	0.910	0.0%	0.910	0.910
* FIDELITY	16,438	1.000	0.0%	1.000	1.000
TOTAL	780,369	0.980	2.4%	1.003	1.000
LIABILITY-					
OL&T	7,332,470	0.756	2.3%	0.773	0.777
M&C	210,233	0.995	3.8%	1.033	1.038
TOTAL	7,542,703	0.760	2.5%	0.779	0.780

PROP. & LIAB. TOTAL	8,323,072		2.5%		2.6%

MERCANTILE (34) *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
COVERAGE					
PROPERTY-					
BASIC GRP I	3,357,629	1.218	2.6%	1.250	1.251
BASIC GRP II	2,168,336	0.932	7.3%	1.000	1.001
SP CAUSE/LOSS	2,250,857	0.774	-5.3%	0.733	0.733
* CRIME	17,721	0.910	0.0%	0.910	0.910
* INL. MAR.	59,766	0.910	0.0%	0.910	0.910
* FIDELITY	159,466	1.000	0.0%	1.000	1.000
TOTAL	8,013,775	0.980	0.9%	0.988	0.990
LIABILITY-					
OL&T	8,293,605	0.970	-3.6%	0.935	0.940
M&C	1,236,984	1.135	-2.9%	1.102	1.107
LOCAL PRODUCT	242,397	0.986	-0.8%	0.978	0.983
* MULTI PRODUCT	721,595	0.831	4.6%	0.870	0.870
TOTAL	10,494,580	0.970	-2.3%	0.948	0.950

PROP. & LIAB. TOTAL	18,508,355		-0.9%		-0.7%

* indicates coverage for which reviews are on a MULTISTATE basis.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL PACKAGE POLICY
CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

INSTITUTION(35) *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
COVERAGE					
PROPERTY-					
BASIC GRP I	1,447,980	1.115	0.7%	1.123	1.124
BASIC GRP II	1,672,459	0.878	-3.7%	0.846	0.846
SP CAUSE/LOSS	2,038,290	0.973	1.3%	0.986	0.986
* CRIME	20,769	0.910	0.0%	0.910	0.910
* INL. MAR.	6,878	0.910	0.0%	0.910	0.910
* FIDELITY	160,105	1.000	0.0%	1.000	1.000
TOTAL	5,346,481	0.980	-1.1%	0.969	0.970
LIABILITY-					
OL&T	2,693,425	1.008	-7.0%	0.937	0.942
M&C	355,826	0.672	2.3%	0.687	0.691
TOTAL	3,049,251	1.000	-10.4%	0.896	0.900

PROP. & LIAB. TOTAL	8,395,732		-4.5%		-4.3%

SERVICES (36) *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
COVERAGE					
PROPERTY-					
BASIC GRP I	1,955,413	1.270	0.4%	1.275	1.215
BASIC GRP II	1,509,032	0.919	26.4%	1.162	1.107
SP CAUSE/LOSS	1,487,715	0.787	-2.1%	0.770	0.734
* CRIME	13,279	0.910	0.0%	0.910	0.910
* INL. MAR.	30,619	0.910	0.0%	0.910	0.910
* FIDELITY	122,398	1.000	0.0%	1.000	1.000
TOTAL	5,118,456	0.980	6.9%	1.048	1.000
LIABILITY-					
OL&T	2,850,121	0.932	-6.1%	0.875	0.928
M&C	1,587,688	1.048	-3.5%	1.011	1.072
LOCAL PRODUCT	343,456	1.217	-1.1%	1.204	1.276
* MULTI PRODUCT	22,118	0.899	5.8%	0.951	0.951
TOTAL	4,803,383	1.000	-6.3%	0.937	0.990

PROP. & LIAB. TOTAL	9,921,839		0.5%		0.6%

* indicates coverage for which reviews are on a MULTISTATE basis.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL PACKAGE POLICY
CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

IND/PROC (37) *****	(1) AGGREGATE LOSS <u>COSTS</u>	(2) CURRENT IMPLICIT <u>PMF</u>	(3) NET <u>INDICATION</u>	(4) INDIC. <u>PMF</u>	(5) CAPPED <u>PMF</u>
COVERAGE					
PROPERTY-					
BASIC GRP I	1,204,992	1.500	0.0%	1.500	1.500
BASIC GRP II	740,432	0.684	3.6%	0.709	0.709
SP CAUSE/LOSS	1,068,597	0.776	-18.5%	0.632	0.633
* CRIME	7,887	0.910	0.0%	0.910	0.910
* INL. MAR.	2,279	0.910	0.0%	0.910	0.910
* FIDELITY	72,325	1.000	0.0%	1.000	1.000
TOTAL	3,096,512	0.940	-7.0%	0.874	0.870
LIABILITY-					
M&C	2,672,790	0.929	8.0%	1.003	1.008
LOCAL PRODUCT	67,830	0.788	2.9%	0.811	0.815
* MULTI PRODUCT	895,223	0.884	6.1%	0.938	0.938
TOTAL	3,635,843	0.910	8.0%	0.983	0.990

PROP. & LIAB.	6,732,355		1.1%		1.3%
TOTAL					

CONTRACTORS(38) *****	(1) AGGREGATE LOSS <u>COSTS</u>	(2) CURRENT IMPLICIT <u>PMF</u>	(3) NET <u>INDICATION</u>	(4) INDIC. <u>PMF</u>	(5) CAPPED <u>PMF</u>
COVERAGE					
PROPERTY-					
BASIC GRP I	229,071	0.683	0.9%	0.689	0.699
BASIC GRP II	301,835	1.101	5.8%	1.165	1.181
SP CAUSE/LOSS	500,655	1.216	-8.7%	1.110	1.126
* CRIME	3,754	0.910	0.0%	0.910	0.910
* INL. MAR.	1,090	0.910	0.0%	0.910	0.910
* FIDELITY	45,146	1.000	0.0%	1.000	1.000
TOTAL	1,081,551	1.000	-1.3%	0.987	1.000
LIABILITY-					
M&C	7,016,973	0.941	13.6%	1.069	1.049
LOCAL PRODUCT	2,190,471	0.844	3.7%	0.875	0.859
TOTAL	9,207,444	0.910	12.0%	1.019	1.000

PROP. & LIAB.	10,288,995		10.6%		8.9%
TOTAL					

* indicates coverage for which reviews are on a MULTISTATE basis.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL PACKAGE POLICY
CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

STATEWIDE *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
COVERAGE					
PROPERTY-					
BASIC GRP I	11,473,573	1.145	0.7%	1.153	1.143
BASIC GRP II	7,390,950	0.849	8.6%	0.922	0.912
SP CAUSE/LOSS	9,589,623	0.919	-4.6%	0.877	0.870
* CRIME	67,738	0.910	0.0%	0.910	0.910
* INL. MAR.	104,467	0.910	0.0%	0.910	0.910
* FIDELITY	591,955	1.000	0.0%	1.000	1.000
<hr/> TOTAL	<hr/> 29,218,306	<hr/> 0.977	<hr/> 0.8%	<hr/> 0.985	<hr/> 0.976
LIABILITY-					
OL&T	30,718,585	0.848	0.1%	0.849	0.858
M&C	13,080,494	0.956	8.4%	1.036	1.034
LOCAL PRODUCT	2,844,153	0.886	2.7%	0.910	0.904
* MULTI PRODUCT	1,638,936	0.860	5.5%	0.907	0.907
<hr/> TOTAL	<hr/> 48,282,168	<hr/> 0.897	<hr/> 0.5%	<hr/> 0.901	<hr/> 0.906

PROP. & LIAB.	77,500,474		0.6%		0.6%
TOTAL					

* indicates coverage for which reviews are on a MULTISTATE basis.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
 COMMERCIAL PACKAGE POLICY
 CALCULATION OF REVISED CPP PACKAGE MODIFICATION FACTORS(PMF)

COMBINED PMFs

TYPE OF POLICY	CURRENT COMBINED	INDICATED COMBINED	CAPPED COMBINED
MOTEL/HOTEL(31)	1.000	1.010	1.000
APARTMENT (32)	0.880	0.867	0.870
OFFICE (33)	0.780	0.796	0.800
MERCANTILE (34)	0.970	0.965	0.970
INSTITUTION(35)	0.980	0.942	0.940
SERVICES (36)	0.990	0.994	1.000
IND/PROC (37)	0.920	0.933	0.940
CONTRACTORS(38)	0.920	1.016	1.000

NOTE: Combined PMFs are provided for informational purposes only.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

BASIC GROUP I RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	(5)
	LEAST SQUARES		CREDIBILITY		
TYPE OF	FORMULA		WEIGHTED	BALANCED	INDICATED
POLICY	RELATIVITY	CREDIBILITY	RELATIVITY	RELATIVITY	CHANGE
10	0.945	0.034	0.998	0.994	
31	1.129	0.009	1.001	1.001	0.7%
32	0.872	0.137	0.981	0.982	-1.2%
33	0.924	0.014	0.999	0.999	0.5%
34	1.138	0.149	1.019	1.020	2.6%
35	1.006	0.079	1.000	1.001	0.7%
36	0.974	0.095	0.998	0.998	0.4%
37 *	-----	-----	0.994	0.994	0.0%
38	1.185	0.014	1.002	1.003	0.9%
RATING GROUP					
1	1.009	0.232	1.002	1.004	
2	1.147	0.103	1.014	1.016	
3	0.804	0.094	0.980	0.982	
4	0.959	0.269	0.989	0.991	
5	0.921	0.008	0.999	1.001	
6	0.933	0.105	0.993	0.995	
7	1.011	0.034	1.000	1.002	
8	0.907	0.094	0.991	0.993	
9	1.228	0.090	1.019	1.021	
10	0.989	0.023	1.000	1.002	
11	1.144	0.011	1.001	1.004	
13	1.021	0.097	1.002	1.004	
14	0.783	0.058	0.986	0.988	
15	0.760	0.048	0.987	0.989	
17	1.511	0.021	1.009	1.011	
18	0.928	0.029	0.998	1.000	
19	0.953	0.007	1.000	1.002	
21	1.439	0.076	1.028	1.030	
22	1.032	0.065	1.002	1.004	

* - TOP 37 IMPLICIT PMF CAPPED AT 1.500.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	(5)
	LEAST SQUARES		CREDIBILITY		
TYPE OF	FORMULA		WEIGHTED	BALANCED	INDICATED
POLICY	RELATIVITY	CREDIBILITY	RELATIVITY	RELATIVITY	CHANGE
10	1.467	0.091	1.035	1.045	
31	1.907	0.034	1.022	1.032	-1.2%
32	0.973	0.188	0.995	1.004	-3.9%
33	1.139	0.046	1.006	1.016	-2.8%
34	0.919	0.229	0.981	0.990	-5.3%
35	1.226	0.233	1.049	1.059	1.3%
36	1.079	0.167	1.013	1.023	-2.1%
37	0.341	0.158	0.844	0.852	-18.5%
38	0.465	0.074	0.945	0.954	-8.7%
CATEGORY					
1	0.977	0.707	0.984	0.995	
2	0.797	0.187	0.958	0.969	
3	0.636	0.053	0.976	0.987	
4	0.938	0.106	0.993	1.005	
5	1.078	0.120	1.009	1.021	
6	1.017	0.042	1.001	1.012	
7	0.536	0.029	0.982	0.993	
8	0.891	0.143	0.984	0.995	
9	0.817	0.192	0.962	0.973	
10	2.218	0.030	1.024	1.036	
11	1.689	0.162	1.089	1.101	
12	0.993	0.113	0.999	1.011	
13	0.892	0.055	0.994	1.005	
14	1.560	0.106	1.048	1.060	

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1) ACCIDENT YEAR ENDING 03/31/19 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) CREDIBILITY WEIGHTED EXPERIENCE RATIO	(5) CREDIBILITY WEIGHTED RELATIVITY
TYPE OF POLICY	CATEGORY					
10 MONOLINE	01 APARTMENTS	33,192	440,816	0.433	0.557	0.627
	02 OTHER HABITATIONAL	44,065	241,797	1.953	0.838	0.944
	03 RESTAURANTS & BARS	40,693	200,275	0.846	0.634	0.714
	04 OTHER MERCANTILE RS	184,337	884,210	0.101	0.470	0.529
	05 PUBLIC BUILDINGS	1,023	19,172	1.286	0.700	0.788
	06 CHURCHES	10,520	39,910	0.790	0.621	0.699
	07 SCHOOLS	3,505	67,533	1.437	0.728	0.820
	08 OFFICES AND BANKS	59,502	355,671	1.469	0.760	0.856
	09 REC. FACILITIES	87,439	481,874	0.391	0.547	0.616
	10 HOTELS AND MOTELS	11,645	57,505	0.098	0.508	0.572
	11 HOSPITALS/NURS HOME	1,315	20,183	8.485	1.852	2.086
	13 MOTOR VEHICLE RISKS	27,453	153,068	0.607	0.592	0.667
	14 OTHER NON-MANUF.	16,623	222,796	0.039	0.489	0.551
	15 STORAGE	30,461	141,696	0.000	0.487	0.548
	17 FOOD MANUFACTURING	519	7,918	0.000	0.495	0.557
	18 WOOD MANUFACTURING	5,553	38,478	0.000	0.493	0.555
	19 WEARING APPAREL	388	5,597	0.000	0.495	0.557
	21 METAL MANUFACTURING	20,403	81,018	0.000	0.490	0.552
	22 OTHER MANUFACTURING	6,672	49,903	0.000	0.492	0.554
	TOTAL*	585,308	3,509,420	0.546	0.572	0.644
31 MULTILINE MOTEL/HOTEL	10 HOTELS AND MOTELS	166,370	869,194	1.592	0.997	1.123
	TOTAL*	166,370	869,194	1.592	0.997	1.123
32 MULTILINE APARTMENT	01 APARTMENTS	2,082,160	11,663,834	0.645	0.786	0.885
	02 OTHER HABITATIONAL	778,285	4,271,285	0.970	0.893	1.006
	TOTAL*	2,860,445	15,935,119	0.733	0.815	0.918
33 MULTILINE OFFICE	08 OFFICES AND BANKS	251,673	1,370,709	0.238	0.749	0.843
	TOTAL*	251,673	1,370,709	0.238	0.749	0.843
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS	705,946	3,580,038	0.646	0.816	0.919
	04 OTHER MERCANTILE RS	1,944,156	10,885,980	1.165	0.974	1.097
	08 OFFICES AND BANKS	115,465	461,536	0.212	0.757	0.852
	13 MOTOR VEHICLE RISKS	264,911	982,637	2.098	1.090	1.227
	14 OTHER NON-MANUF.	59,301	415,015	1.141	0.914	1.029
	15 STORAGE	267,850	1,243,368	0.332	0.768	0.865
	TOTAL*	3,357,629	17,568,574	1.030	0.925	1.042

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1) ACCIDENT YEAR ENDING 03/31/19 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) CREDIBILITY WEIGHTED EXPERIENCE RATIO	(5) CREDIBILITY WEIGHTED RELATIVITY
TYPE OF POLICY	CATEGORY					
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL	13,726	80,885	0.041	0.736	0.829
	05 PUBLIC BUILDINGS	66,681	309,250	0.618	0.827	0.931
	06 CHURCHES	733,882	4,642,451	0.751	0.838	0.944
	07 SCHOOLS	215,287	1,354,035	1.082	0.908	1.023
	08 OFFICES AND BANKS	174,905	893,097	1.058	0.902	1.016
	09 REC. FACILITIES	76,383	462,352	0.064	0.732	0.824
	11 HOSPITALS/NURS HOME	88,960	432,080	1.815	1.027	1.157
	13 MOTOR VEHICLE RISKS	2,421	34,854	0.000	0.730	0.822
	14 OTHER NON-MANUF.	75,735	367,934	0.354	0.782	0.881
	TOTAL*	1,447,980	8,576,938	0.832	0.858	0.966
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	57,124	389,479	0.288	0.877	0.988
	04 OTHER MERCANTILE RS	230,312	1,195,968	0.920	0.969	1.091
	08 OFFICES AND BANKS	143,037	754,795	0.343	0.878	0.989
	09 REC. FACILITIES	558,445	3,031,501	1.421	1.078	1.214
	13 MOTOR VEHICLE RISKS	594,788	3,138,793	0.874	0.956	1.077
	14 OTHER NON-MANUF.	225,993	1,157,347	0.125	0.833	0.938
	15 STORAGE	100,418	589,849	0.128	0.848	0.955
	21 METAL MANUFACTURING	14,099	83,683	0.000	0.843	0.949
	22 OTHER MANUFACTURING	31,197	187,459	0.171	0.864	0.973
	TOTAL*	1,955,413	10,528,874	0.837	0.962	1.084
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	75,262	541,171	0.049	0.837	0.943
	08 OFFICES AND BANKS	19,524	119,525	0.000	0.842	0.948
	13 MOTOR VEHICLE RISKS	-	2,620	0.000	0.846	0.953
	14 OTHER NON-MANUF.	50,953	264,937	0.028	0.842	0.948
	15 STORAGE	14,463	20,982	0.000	0.845	0.952
	17 FOOD MANUFACTURING	131,910	839,502	2.632	1.248	1.405
	18 WOOD MANUFACTURING	133,448	1,155,823	0.046	0.819	0.922
	19 WEARING APPAREL	23,455	293,302	0.000	0.837	0.943
	21 METAL MANUFACTURING	378,586	3,119,582	1.972	1.204	1.356
	22 OTHER MANUFACTURING	377,391	2,560,053	0.588	0.897	1.010
	TOTAL*	1,204,992	8,917,497	1.101	1.014	1.142
38 MULTILINE CONTRACTORS	04 OTHER MERCANTILE RS	193,294	1,222,870	1.341	1.042	1.173
	08 OFFICES AND BANKS	26,192	175,487	0.218	0.871	0.981
	14 OTHER NON-MANUF.	9,585	52,588	1.198	1.010	1.137
	TOTAL*	229,071	1,450,945	1.207	1.021	1.150

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1) ACCIDENT YEAR ENDING 03/31/19 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) CREDIBILITY WEIGHTED EXPERIENCE RATIO	(5) CREDIBILITY WEIGHTED RELATIVITY
TYPE OF POLICY	CATEGORY					
TOTAL ALL TOPS*	01 APARTMENTS	2,115,352	12,104,650	0.642	0.783	0.881
	02 OTHER HABITATIONAL	836,076	4,593,967	1.007	0.888	0.999
	03 RESTAURANTS & BARS	803,763	4,169,792	0.631	0.811	0.913
	04 OTHER MERCANTILE RS	2,627,361	14,730,199	1.050	0.939	1.058
	05 PUBLIC BUILDINGS	67,704	328,422	0.628	0.825	0.929
	06 CHURCHES	744,402	4,682,361	0.752	0.835	0.940
	07 SCHOOLS	218,792	1,421,568	1.088	0.905	1.019
	08 OFFICES AND BANKS	790,298	4,130,820	0.521	0.814	0.917
	09 REC. FACILITIES	722,267	3,975,727	1.153	0.977	1.100
	10 HOTELS AND MOTELS	178,015	926,699	1.494	0.965	1.087
	11 HOSPITALS/NURS HOME	90,275	452,263	1.912	1.039	1.170
	13 MOTOR VEHICLE RISKS	889,573	4,311,972	1.228	0.984	1.108
	14 OTHER NON-MANUF.	438,190	2,480,617	0.311	0.827	0.931
	15 STORAGE	413,192	1,995,895	0.246	0.769	0.866
	17 FOOD MANUFACTURING	132,429	847,420	2.622	1.245	1.402
	18 WOOD MANUFACTURING	139,001	1,194,301	0.044	0.806	0.908
	19 WEARING APPAREL	23,843	298,899	0.000	0.831	0.936
	21 METAL MANUFACTURING	413,088	3,284,283	1.807	1.156	1.302
	22 OTHER MANUFACTURING	415,260	2,797,415	0.547	0.888	1.000
	TOTAL*	12,058,881	68,727,270	0.883	0.888	1.000

* TOTALS IN COLUMNS (3), (4) & (5) ARE AVERAGES USING COLUMN (1) AS WEIGHTS.

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 03/31/19 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) CREDIBILITY WEIGHTED EXPERIENCE RATIO	(5) CREDIBILITY WEIGHTED RELATIVITY
10 MONOLINE	01 BUILDINGS	448,893	2,520,129	1.559	1.547	1.563
	02 RES. APTS. AND COND	9,959	44,005	1.212	1.203	1.215
	03 OFFICES	46,183	265,365	0.128	0.375	0.379
	04 MERCANTILE - HIGH	78,402	335,022	0.075	0.294	0.297
	05 MERCANTILE - MEDIUM	23,753	128,129	0.751	0.913	0.922
	06 MERCANTILE - LOW	12,478	70,079	0.000	0.576	0.582
	07 MOTELS AND HOTELS	5,499	29,733	1.697	1.387	1.401
	08 INSTITUTIONAL - HIG	20,420	104,528	0.214	0.611	0.617
	09 INSTITUTIONAL - LOW	23,887	132,121	0.979	1.057	1.068
	10 INDUST-PROC - HIGH	1,716	18,794	0.392	0.932	0.941
	11 INDUST-PROC - LOW	20,257	110,833	0.171	0.574	0.580
	12 SERVICE - HIGH	14,472	88,685	0.000	0.522	0.527
	13 SERVICE - LOW	22,391	139,942	2.789	2.236	2.259
	14 CONTRACTORS	4,209	17,988	1.897	1.423	1.437
	TOTAL*	732,519	4,005,353	1.165	1.226	1.238
31 MULTILINE MOTEL/HOTEL	01 BUILDINGS	180,338	982,907	5.187	1.948	1.968
	07 MOTELS AND HOTELS	76,134	421,016	0.956	1.066	1.077
	TOTAL*	256,472	1,403,923	3.931	1.686	1.703
32 MULTILINE APARTMENT	01 BUILDINGS	1,001,662	5,860,061	0.899	0.994	1.004
	02 RES. APTS. AND COND	651,491	3,401,892	0.363	0.811	0.819
	TOTAL*	1,653,153	9,261,953	0.688	0.922	0.931
33 MULTILINE OFFICE	01 BUILDINGS	250,589	1,403,867	1.330	1.146	1.158
	03 OFFICES	79,256	507,731	0.664	1.016	1.026
	08 INSTITUTIONAL - HIG	3,811	26,277	0.620	1.033	1.043
	12 SERVICE - HIGH	-	2,534	0.000	1.000	1.000
	14 CONTRACTORS	228	929	0.000	0.965	0.975
	TOTAL*	333,884	1,941,338	1.163	1.114	1.125

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 03/31/19 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	1,581,016	7,896,715	0.813	0.934	0.943
	03 OFFICES	2,320	9,235	0.000	0.964	0.974
	04 MERCANTILE - HIGH	227,538	1,422,550	1.214	1.118	1.129
	05 MERCANTILE - MEDIUM	321,239	1,914,845	0.933	1.042	1.053
	06 MERCANTILE - LOW	106,845	561,494	0.573	0.999	1.009
	08 INSTITUTIONAL - HIG	173	800	0.000	0.965	0.975
	11 INDUST-PROC - LOW	210	845	0.000	0.965	0.975
	12 SERVICE - HIGH	4,077	34,322	0.125	0.976	0.986
	13 SERVICE - LOW	2,022	16,683	0.069	0.971	0.981
	14 CONTRACTORS	5,417	34,562	0.000	0.961	0.971
	TOTAL*	2,250,857	11,892,051	0.854	0.971	0.981
35 MULTILINE INSTITUTIONAL	01 BUILDINGS	1,112,919	6,528,676	1.407	1.251	1.264
	03 OFFICES	9,794	34,877	0.223	0.987	0.997
	04 MERCANTILE - HIGH	323	1,185	0.000	0.965	0.975
	08 INSTITUTIONAL - HIG	392,899	2,282,863	1.274	1.145	1.157
	09 INSTITUTIONAL - LOW	518,013	3,298,298	0.982	1.047	1.058
	12 SERVICE - HIGH	389	3,717	0.000	0.965	0.975
	13 SERVICE - LOW	2,596	13,147	0.000	0.964	0.974
	14 CONTRACTORS	1,357	4,665	0.000	0.965	0.975
	TOTAL*	2,038,290	12,167,428	1.264	1.177	1.189
36 MULTILINE SERVICES	01 BUILDINGS	981,406	5,254,283	1.121	1.103	1.114
	03 OFFICES	1,584	13,432	2.167	0.945	0.955
	04 MERCANTILE - HIGH	2,926	11,657	0.154	0.670	0.677
	05 MERCANTILE - MEDIUM	1,481	5,936	0.000	0.662	0.669
	06 MERCANTILE - LOW	4,067	11,353	0.000	0.650	0.657
	08 INSTITUTIONAL - HIG	19,968	80,728	0.000	0.534	0.539
	09 INSTITUTIONAL - LOW	21,691	132,830	0.000	0.471	0.476
	10 INDUST-PROC - HIGH	-	1,356	0.000	1.000	1.000
	11 INDUST-PROC - LOW	712	4,106	0.000	0.666	0.673
	12 SERVICE - HIGH	309,064	1,773,689	1.180	1.123	1.134
	13 SERVICE - LOW	134,475	701,461	1.057	0.973	0.983
	14 CONTRACTORS	10,341	43,570	0.029	0.597	0.603
	TOTAL*	1,487,715	8,034,401	1.083	1.072	1.083

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 03/31/19 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) CREDIBILITY WEIGHTED EXPERIENCE RATIO	(5) CREDIBILITY WEIGHTED RELATIVITY
-----	-----	-----	-----	-----	-----	-----
37 MULTILINE INDUST/PROC	01 BUILDINGS	605,292	4,259,780	0.304	0.331	0.334
	03 OFFICES	208	1,296	0.000	0.672	0.679
	04 MERCANTILE - HIGH	293	666	0.000	0.673	0.680
	10 INDUST-PROC - HIGH	64,864	448,319	0.824	0.797	0.805
	11 INDUST-PROC - LOW	397,769	2,781,168	0.612	0.624	0.630
	12 SERVICE - HIGH	-	460	0.000	1.000	1.000
	13 SERVICE - LOW	-	1,186	0.000	1.000	1.000
	14 CONTRACTORS	171	1,200	5.485	1.236	1.248
	TOTAL*	1,068,597	7,494,075	0.451	0.469	0.473
38 MULTILINE CONTRACTORS	01 BUILDINGS	233,952	1,464,111	0.411	0.464	0.469
	03 OFFICES	995	12,383	0.750	0.749	0.757
	04 MERCANTILE - HIGH	2,544	15,616	0.000	0.642	0.648
	05 MERCANTILE - MEDIUM	135	296	0.000	0.674	0.681
	06 MERCANTILE - LOW	212	14,463	0.710	0.743	0.751
	08 INSTITUTIONAL - HIG	696	2,183	0.000	0.670	0.677
	11 INDUST-PROC - LOW	64	374	0.000	0.674	0.681
	12 SERVICE - HIGH	1,408	9,961	0.000	0.653	0.660
	13 SERVICE - LOW	374	709	0.000	0.673	0.680
	14 CONTRACTORS	260,275	1,674,527	0.766	0.764	0.772
	TOTAL*	500,655	3,194,623	0.592	0.622	0.629
TOTAL ALL TOPS*	01 BUILDINGS	6,396,067	36,170,529	1.110	1.030	1.041
	02 RES. APTS. AND COND	661,450	3,445,897	0.376	0.817	0.825
	03 OFFICES	140,340	844,319	0.462	0.799	0.807
	04 MERCANTILE - HIGH	312,026	1,786,696	0.906	0.902	0.911
	05 MERCANTILE - MEDIUM	346,608	2,049,206	0.916	1.032	1.042
	06 MERCANTILE - LOW	123,602	657,389	0.497	0.944	0.954
	07 MOTELS AND HOTELS	81,633	450,749	1.006	1.087	1.099
	08 INSTITUTIONAL - HIG	437,967	2,497,379	1.158	1.090	1.101
	09 INSTITUTIONAL - LOW	563,591	3,563,249	0.944	1.025	1.036
	10 INDUST-PROC - HIGH	66,580	468,469	0.813	0.800	0.809
	11 INDUST-PROC - LOW	419,012	2,897,326	0.589	0.622	0.628
	12 SERVICE - HIGH	329,410	1,913,368	1.109	1.092	1.104
	13 SERVICE - LOW	161,858	873,128	1.265	1.147	1.158
	14 CONTRACTORS	281,998	1,777,441	0.740	0.773	0.781
	TOTAL*	10,322,142	59,395,145	0.996	0.990	1.000

* TOTALS IN COLUMNS (3), (4) & (5) ARE AVERAGES USING COLUMN (1) AS WEIGHTS.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

BASIC GROUP II RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ACCIDENT YEAR ENDING 03/31/19 AGGR. LOSS COSTS AT CURRENT IMPLICIT PMF	ACCIDENT YEARS 2010 - 2019 EXPER. RATIO AT CURRENT PMF	FORMULA RELATIVITY (2)/ 0.671	CREDIBILITY C	CREDIBILITY WEIGHTED RELATIVITY	BALANCED FORMULA RELATIVITY	NORMALIZED FORMULA RELATIVITY	INDICATED CHANGE
	-----	-----	-----	-----	-----	-----	-----	-----
MONOLINE	669,982	0.3990	0.5950	0.1380	0.944	0.9440	0.9270	
MULTILINE	7,390,950	0.6960	1.0370	0.6660	1.025	1.0250	1.0070	
	-----	-----	-----	-----	-----	-----	-----	
COVERAGE	8,060,932	0.6710	1.0000			1.0183	1.0004	
MULTILINE TOP								
31 MOTEL/HOTEL	143,813	1.7060	2.5420	0.0320	1.049	1.0780	1.0586	14.2%
32 APARTMENT	681,611	0.6430	0.9580	0.1460	0.994	1.0220	1.0036	8.3%
33 OFFICE	173,432	1.1660	1.7380	0.0490	1.036	1.0650	1.0459	12.8%
34 MERCANTILE	2,168,336	0.6420	0.9570	0.3380	0.985	1.0130	0.9948	7.3%
35 INSTITUTIONAL	1,672,459	0.4420	0.6590	0.3390	0.884	0.9090	0.8927	-3.7%
36 SERVICES	1,509,032	1.0710	1.5960	0.2680	1.160	1.1930	1.1716	26.4%
37 INDUST/PROCESS	740,432	0.5060	0.7540	0.1980	0.951	0.9780	0.9604	3.6%
38 CONTRACTORS	301,835	0.4610	0.6870	0.0890	0.972	0.9990	0.9810	5.8%
	-----	-----	-----	-----	-----	-----	-----	
	7,390,950	0.6960	1.0380		0.9970	1.0250	1.0070	

C - CREDIBILITY = $P/(P+K)$ WHERE P REPRESENTS THE TOTAL 10 YEAR ADJUSTED LOSS COSTS AND K = 45,000,000

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

COMMERCIAL I.M. RELATIVITY ANALYSIS

(1)	(2)	(3)	(4)	(5)
	BALANCED	CURRENT	INDICATED	SELECTED
TOP	RELATIVITY	IPMF	IPMF	IPMF
10	1.000	0.910	0.910	0.910
3X & 7X	1.000			

CLASSIFICATION

150	0.923
191	1.100
192	0.785
220	0.789
221	0.755
234	1.202
235	1.088
240	0.789
241	0.715
327	0.757
328	0.932
340	0.646
341	0.757
342	0.751
343	0.767
403	0.640
451	0.946
452	0.778
453	0.811
454	0.713
460	0.479
482	0.889
510	0.662
514	0.631
530	0.628
534	0.757

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

COMMERCIAL INLAND MARINE RELATIVITY ANALYSISSUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1) 2016 AGGREGATE LOSS COSTS	(2) 2012 - 2016 AGGREGATE LOSS COSTS	(3) FIVE-YEAR EXP RATIO	(4) RELATIVITY
MONOLINE 10	150	311,633	1,898,096	1.151	1.353
	191	5,446,492	15,816,054	1.032	1.213
	192	862,002	2,760,886	0.627	0.737
	220	5,112	87,903	5.716	6.717
	221	1,491	2,853	1.199	1.409
	234	5,224,155	20,144,072	0.600	0.705
	235	8,439,000	24,407,283	0.761	0.894
	240	928,183	3,685,254	0.656	0.771
	241	15,553	114,739	0.053	0.062
	327	18,917	91,546	0.000	0.000
	328	2,319,887	11,908,665	0.792	0.931
	340	40,688	87,993	0.000	0.000
	341	0	0	0.000	0.000
	342	19,188	65,375	0.555	0.652
	343	589	3,417	343.665	578.925
	403	1,600,852	5,771,545	0.345	0.405
	451	3,309,677	12,953,836	0.855	1.005
	452	34,702	137,467	1.628	1.913
	453	45,575	212,456	3.203	3.764
	454	164,836	745,300	0.734	0.863
	460	790,198	3,687,530	0.415	0.488
	482	839,364	2,841,134	0.986	1.159
	510	3,252	39,977	0.020	0.024
	514	446,469	1,612,361	0.339	0.398
	530	504,434	2,697,004	0.489	0.575
	534	0	0	0.000	0.000
	TOTAL#	31,372,249	111,772,746	0.785	0.922

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL INLAND MARINE RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1) 2016 AGGREGATE LOSS COSTS	(2) 2012 - 2016 AGGREGATE LOSS COSTS	(3) FIVE-YEAR EXP RATIO	(4) RELATIVITY
MULTILINE ##	150	720,095	3,333,227	0.795	0.934
3X & 7X	191	603,595	2,704,067	0.774	0.910
	192	202,803	783,492	0.826	0.971
	220	6,439	28,512	1.526	1.793
	221	5,606	27,010	0.258	0.303
	234	12,669,443	52,530,286	1.162	1.365
	235	478,171	2,380,353	2.879	3.383
	240	11,651	60,061	1.983	2.330
	241	5,028	15,371	0.019	0.022
	327	2,942	18,862	0.000	0.000
	328	396	2,751	168.726	198.268
	340	32,828	132,609	0.016	0.019
	341	0	0	0.000	0.000
	342	6,082	30,546	0.000	0.000
	343	2,369	7,996	0.000	0.000
	403	479,869	2,417,275	0.739	0.868
	451	95,342	438,635	0.360	0.423
	452	38,096	206,651	0.535	0.629
	453	34,375	104,958	0.147	0.173
	454	228,162	984,183	0.274	0.322
	460	3,613,811	15,118,089	0.318	0.374
	482	127,496	760,961	0.693	0.814
	510	23,290	121,842	0.000	0.000
	514	63,169	300,866	0.073	0.086
	530	1,129,574	4,779,992	0.414	0.486
	534	0	0	0.000	0.000
	TOTAL#	20,580,632	87,288,595	0.952	1.119

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
COMMERCIAL INLAND MARINE RELATIVITY ANALYSIS
SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	RATING GROUP	(1) 2016 AGGREGATE LOSS COSTS	(2) 2012 - 2016 AGGREGATE LOSS COSTS	(3) FIVE-YEAR EXP RATIO	(4) RELATIVITY
TOTAL ALL TOPS#	150	1,031,728	5,231,323	0.903	1.061
	191	6,050,087	18,520,121	1.006	1.182
	192	1,064,805	3,544,378	0.665	0.781
	220	11,551	116,415	3.380	3.972
	221	7,097	29,863	0.456	0.536
	234	17,893,598	72,674,358	0.998	1.173
	235	8,917,171	26,787,636	0.875	1.028
	240	939,834	3,745,315	0.672	0.790
	241	20,581	130,110	0.045	0.053
	327	21,859	110,408	0.000	0.000
	328	2,320,283	11,911,416	0.821	0.965
	340	73,516	220,602	0.007	0.008
	341	0	0	0.000	0.000
	342	25,270	95,921	0.421	0.495
	343	2,958	11,413	267.552	314.397
	403	2,080,721	8,188,820	0.436	0.512
	451	3,405,019	13,392,471	0.841	0.988
	452	72,798	344,118	1.056	1.241
	453	79,950	317,414	1.889	2.220
	454	392,998	1,729,483	0.467	0.549
	460	4,404,009	18,805,619	0.335	0.394
	482	966,860	3,602,095	0.947	1.113
	510	26,542	161,819	0.002	0.002
	514	509,638	1,913,227	0.306	0.360
	530	1,634,008	7,476,996	0.437	0.514
	534	0	0	0.000	0.000
	TOTAL#	51,952,881	199,061,341	0.851	1.000

TOTAL IN COLUMN (3) IS AN AVERAGE USING COLUMN (1) AS WEIGHTS.

REFLECTS CURRENT IPMF OF 0.910.

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
OWNERS, LANDLORDS AND TENANTS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	(1) BAILEY FORMULA RELATIVITY	(2) CREDIBILITY CREDIBILITY	(3) WEIGHTED RELATIVITY	(4) BALANCED RELATIVITY	(5) INDICATED CHANGE
10	1.004	0.280	1.001	1.002	
31	0.901	0.093	0.990	0.992	-1.0%
32	1.371	0.190	1.062	1.063	6.1%
33	1.128	0.194	1.024	1.025	2.3%
34	0.836	0.201	0.965	0.966	-3.6%
35	0.576	0.131	0.930	0.932	-7.0%
36	0.615	0.128	0.940	0.941	-6.1%
CLASS GROUP					
1	0.790	0.096	0.978	0.984	
2	0.707	0.139	0.953	0.959	
3	1.230	0.092	1.019	1.025	
4	0.676	0.018	0.993	0.999	
5	0.413	0.036	0.969	0.976	
6	1.000	0.056	1.000	1.006	
7	1.331	0.128	1.037	1.044	
8	1.842	0.064	1.040	1.046	
9	1.284	0.119	1.030	1.037	
10	1.459	0.136	1.053	1.059	
11	0.956	0.184	0.992	0.998	
12	0.940	0.318	0.981	0.987	
13	2.532	0.062	1.059	1.066	
16	0.352	0.028	0.971	0.978	
TERRITORY					
501	0.774	0.113	0.971	0.975	
503	1.366	0.109	1.035	1.038	
504	1.033	0.191	1.006	1.010	
505	1.128	0.098	1.012	1.016	
506	1.255	0.126	1.029	1.033	
507	0.976	0.360	0.991	0.995	
508	0.806	0.118	0.975	0.979	

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

MANUFACTURERS AND CONTRACTORS

BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1)	(2)	(3)	(4)	(5)
	BAILEY		CREDIBILITY		
TYPE OF	FORMULA		WEIGHTED	BALANCED	INDICATED
POLICY	RELATIVITY	CREDIBILITY	RELATIVITY	RELATIVITY	CHANGE
10	0.824	0.187	0.964	0.955	
33	1.021	0.028	1.001	0.991	3.8%
34	0.404	0.074	0.935	0.927	-2.9%
35	0.252	0.011	0.985	0.977	2.3%
36	0.435	0.086	0.931	0.922	-3.5%
37	1.710	0.076	1.042	1.031	8.0%
38	1.542	0.213	1.097	1.085	13.6%
CLASS GROUP					
30	0.790	0.105	0.976	0.975	
31	0.942	0.141	0.992	0.991	
32	1.024	0.192	1.005	1.004	
33	0.752	0.094	0.974	0.973	
34	3.039	0.105	1.124	1.123	
35	0.334	0.024	0.974	0.975	
36	0.336	0.054	0.943	0.942	
37	0.425	0.043	0.964	0.964	
38	1.228	0.080	1.017	1.016	

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
OWNERS, LANDLORDS, AND TENANTS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TERRITORY ALL		(1)	(2)	(3)	(4)	(5)	(6)
TYPE OF POLICY	CLASS GROUP	CALENDAR A.Y.E. 03/31/19 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2015-2019 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIVITY	NUMBER OF OCCURRENCES	BAL CELL RELATIVITY
10 MONOLINE	01 FOOD&BEV.(RETAIL)	\$280,444	\$1,127,160	0.738		32	
	02 RESTAURANTS	\$224,599	\$1,375,057	0.667		36	
	03 STORES	\$119,155	\$667,989	2.388		45	
	04 VENDING & RENTAL	\$3,791	\$31,871	0		0	
	05 FOOD & BEV. DIST.	\$195,051	\$662,437	0.214		9	
	06 NON-FOOD&BEV.DIST	\$105,796	\$679,994	0.951		20	
	07 CLUBS,AMSMT&SPRTS	\$709,073	\$3,698,212	2.097		164	
	08 HEALTH CARE FACIL	\$70,848	\$345,931	2.16		22	
	09 HOTELS AND MOTELS	\$233,190	\$1,592,161	1.555		101	
	10 SCHLS & CHURCHES	\$406,629	\$2,345,878	1.584		80	
	11 APARTMENTS	\$2,033,568	\$8,264,347	1.231		240	
	12 BUILDINGS&OFFICES	\$4,212,385	\$21,875,212	1.029		612	
	13 MISC. PREMISES	\$70,781	\$456,126	2.22		36	
	16 GOVT SUBDIVISIONS	\$43,560	\$152,654	0.062		10	
	TOTAL *	\$8,708,870	\$43,275,029	1.198		1,407	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$563,840	\$2,933,359	1.377		155	
	TOTAL *	\$563,840	\$2,933,359	1.377		155	
32 MULT APARTMENT	11 APARTMENTS	\$2,533,069	\$11,908,995	1.463		369	
	12 BUILDINGS&OFFICES	\$2,690,342	\$7,994,293	1.648		280	
	TOTAL *	\$5,223,411	\$19,903,288	1.558		649	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$4,434,148	\$21,430,474	1.271		676	
	13 MISC. PREMISES	\$9,773	\$49,101	8.54		2	
	TOTAL *	\$4,443,921	\$21,479,575	1.287		678	
34 MULT MERCANTILE	01 FOOD&BEV.(RETAIL)	\$633,321	\$4,219,581	0.861		135	
	02 RESTAURANTS	\$2,311,593	\$11,702,221	0.733		314	
	03 STORES	\$580,816	\$2,788,263	0.981		90	
	04 VENDING & RENTAL	\$12,879	\$45,572	0		0	
	05 FOOD & BEV. DIST.	\$118,711	\$607,216	0.862		14	
	06 NON-FOOD&BEV.DIST	\$352,883	\$1,785,438	1.107		37	
	12 BUILDINGS&OFFICES	\$1,015,992	\$4,654,318	0.908		138	
	13 MISC. PREMISES	\$232	\$1,160	0		0	
	TOTAL *	\$5,026,427	\$25,803,769	0.841		728	
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS	\$101,296	\$248,189	0.195		3	
	08 HEALTH CARE FACIL	\$492,417	\$1,989,870	1.288		51	
	10 SCHLS & CHURCHES	\$939,965	\$5,457,442	1.08		252	
	12 BUILDINGS&OFFICES	\$32,141	\$134,889	0.048		1	
	13 MISC. PREMISES	\$164	\$2,675	0		0	
	16 GOVT SUBDIVISIONS	\$66,396	\$693,973	0.413		4	
	TOTAL *	\$1,632,379	\$8,527,038	1.04		311	

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
OWNERS, LANDLORDS, AND TENANTS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TERRITORY ALL		(1)	(2)	(3)	(4)	(5)	(6)
TYPE OF POLICY	CLASS GROUP	CALENDAR A.Y.E.	CALENDAR A.Y.E.	FIVE YEAR	RELATIVITY	NUMBER OF	BAL CELL
		03/31/19 AGGREGATE LOSS COSTS AT CURRENT LEVEL	2015-2019 AGG LOSS COST CURRENT LEVEL	EXPERIENCE RATIO			
36 MULT SERVICES	03 STORES	\$81,122	\$367,560	1.36		17	
	04 VENDING & RENTAL	\$48,589	\$195,067	0.764		6	
	07 CLUBS,AMSMT&SPRTS	\$922,167	\$4,549,781	0.658		129	
	08 HEALTH CARE FACIL	\$2,542	\$21,139	0		0	
	09 HOTELS AND MOTELS	\$5,440	\$26,743	0		0	
	10 SCHLS & CHURCHES	\$7,885	\$33,572	0		0	
	12 BUILDINGS&OFFICES	\$510,525	\$2,156,801	1.18		113	
	13 MISC. PREMISES	\$149,076	\$674,936	1.867		32	
	TOTAL *	\$1,727,346	\$8,025,599	0.946		297	
TOTAL ALL TOP	01 FOOD&BEV.(RETAIL)	\$913,765	\$5,346,741	0.824		167	
	02 RESTAURANTS	\$2,536,192	\$13,077,278	0.727		350	
	03 STORES	\$781,093	\$3,823,812	1.235		152	
	04 VENDING & RENTAL	\$65,259	\$272,510	0.569		6	
	05 FOOD & BEV. DIST.	\$313,762	\$1,269,653	0.459		23	
	06 NON-FOOD&BEV.DIST	\$458,679	\$2,465,432	1.071		57	
	07 CLUBS,AMSMT&SPRTS	\$1,732,536	\$8,496,182	1.22		296	
	08 HEALTH CARE FACIL	\$565,807	\$2,356,940	1.391		73	
	09 HOTELS AND MOTELS	\$802,470	\$4,552,263	1.42		256	
	10 SCHLS & CHURCHES	\$1,354,479	\$7,836,892	1.225		332	
	11 APARTMENTS	\$4,566,637	\$20,173,342	1.36		609	
	12 BUILDINGS&OFFICES	\$12,895,533	\$58,245,987	1.235		1,820	
	13 MISC. PREMISES	\$230,026	\$1,183,998	2.256		70	
	16 GOVT SUBDIVISIONS	\$109,956	\$846,627	0.274		14	
	TOTAL *	\$27,326,194	\$129,947,657	1.194		4,225	

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

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
MANUFACTURERS AND CONTRACTORS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 03/31/19 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2015-2019 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIVITY	NUMBER OF OCCURRENCES	BAL CELL RELATIVITY
10 MONOLINE	30 SERVICE	\$529,611	\$2,325,815	0.308	0.289	34	0.931
	31 LIGHT CONTRACTING	\$498,909	\$2,412,841	0.589	0.553	75	0.946
	32 MEDIUM CONTRACTING	\$3,272,456	\$15,234,975	0.947	0.89	363	0.959
	33 HEAVY CONTRACTING	\$799,115	\$4,117,408	0.637	0.599	44	0.929
	34 DEALER OR DISTRIB	\$150,930	\$658,476	3.263	3.067	39	1.073
	35 LGT. MANUFACTURER	\$180,988	\$375,649	0.037	0.035	1	0.931
	36 MED. MANUFACTURER	\$195,429	\$1,229,982	0.485	0.456	10	0.9
	37 HVY. MANUFACTURER	\$94,823	\$508,710	1.067	1.002	8	0.921
	38 MISC. OPERATION	\$286,414	\$1,337,391	1.187	1.116	58	0.97
	TOTAL *	\$6,008,675	\$28,201,247	0.849		632	
33 MULT OFFICE	31 LIGHT CONTRACTING	\$4,743	\$53,462	0	0	0	0.982
	32 MEDIUM CONTRACTING	\$11,748	\$46,716	0	0	0	0.995
	33 HEAVY CONTRACTING	\$63,160	\$331,149	0.588	0.553	2	0.964
	38 MISC. OPERATION	\$47,763	\$300,990	2.01	1.889	12	1.007
	TOTAL *	\$127,414	\$732,317	1.045		14	
34 MULT MERCANTILE	30 SERVICE	\$36,692	\$167,630	0.047	0.044	0	0.904
	32 MEDIUM CONTRACTING	\$91,406	\$358,738	0.912	0.857	5	0.93
	34 DEALER OR DISTRIB	\$576,016	\$2,881,708	1.147	1.078	83	1.041
	38 MISC. OPERATION	\$45,573	\$215,751	1.811	1.702	10	0.942
	TOTAL *	\$749,687	\$3,623,827	1.105		98	
35 MULT INSTITUT.	31 LIGHT CONTRACTING	\$24,776	\$126,081	0	0	0	0.968
	32 MEDIUM CONTRACTING	\$190,876	\$497,896	0.307	0.289	2	0.98
	TOTAL *	\$215,652	\$623,977	0.272		2	
36 MULT SERVICES	30 SERVICE	\$45,003	\$267,267	0.508	0.478	18	0.899
	31 LIGHT CONTRACTING	\$83,777	\$990,683	0.163	0.153	8	0.914
	32 MEDIUM CONTRACTING	\$52,537	\$220,827	0	0	0	0.926
	33 HEAVY CONTRACTING	\$45,132	\$199,796	0.03	0.028	0	0.898
	34 DEALER OR DISTRIB	\$525,445	\$2,110,935	1.439	1.352	74	1.036
	36 MED. MANUFACTURER	\$5,603	\$21,755	1.079	1.014	2	0.869
	38 MISC. OPERATION	\$204,738	\$914,092	0.727	0.684	31	0.937
	TOTAL *	\$962,235	\$4,725,355	0.986		133	
37 MULT INDUST/PROC	31 LIGHT CONTRACTING	\$732	\$3,359	0	0	0	1.022
	32 MEDIUM CONTRACTING	\$70,494	\$331,808	3.264	3.067	15	1.035
	33 HEAVY CONTRACTING	\$82,403	\$357,924	0.505	0.474	6	1.003
	34 DEALER OR DISTRIB	\$11,908	\$51,098	4.098	3.851	3	1.158
	35 LGT. MANUFACTURER	\$197,165	\$821,991	0.843	0.792	9	1.005
	36 MED. MANUFACTURER	\$779,690	\$4,009,040	0.557	0.523	41	0.971
	37 HVY. MANUFACTURER	\$447,512	\$2,255,532	0.627	0.589	25	0.994
	38 MISC. OPERATION	\$29,969	\$133,368	3.99	3.75	4	1.047
	TOTAL *	\$1,619,873	\$7,964,120	0.815		103	

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
MANUFACTURERS AND CONTRACTORS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 03/31/19 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2015-2019 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIVITY	NUMBER OF OCCURRENCES	BAL CELL RELATIVITY
38 MULT CONTRACTORS	30 SERVICE	\$814,910	\$3,816,638	1.553	1.459	147	1.058
	31 LIGHT CONTRACTING	\$1,189,960	\$5,354,744	1.676	1.575	277	1.076
	32 MEDIUM CONTRCTING	\$1,535,159	\$7,814,195	1.503	1.412	282	1.09
	33 HEAVY CONTRACTING	\$603,647	\$3,305,067	1.428	1.342	106	1.056
	38 MISC. OPERATION	\$109,035	\$297,407	0.107	0.1	1	1.103
	TOTAL *	\$4,252,711	\$20,588,051	1.514		813	
TOTAL ALL TOP	30 SERVICE	\$1,426,216	\$6,577,350	1.019		199	
	31 LIGHT CONTRACTING	\$1,802,897	\$8,941,170	1.276		360	
	32 MEDIUM CONTRCTING	\$5,224,676	\$24,505,155	1.106		667	
	33 HEAVY CONTRACTING	\$1,593,457	\$8,311,344	0.911		158	
	34 DEALER OR DISTRIB	\$1,264,299	\$5,702,217	1.549		199	
	35 LGT. MANUFACTURER	\$378,153	\$1,197,640	0.458		10	
	36 MED. MANUFACTURER	\$980,722	\$5,260,777	0.546		53	
	37 HVY. MANUFACTURER	\$542,335	\$2,764,242	0.703		33	
	38 MISC. OPERATION	\$723,492	\$3,198,999	1.104		116	
	TOTAL *	\$13,936,247	\$66,458,894	1.064		1,795	

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

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
PRODUCTS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	(1) BAILEY FORMULA RELATIVITY	(2) CREDIBILITY	(3) CREDIBILITY WEIGHTED RELATIVITY	(4) BALANCED RELATIVITY	(5) INDICATED CHANGE
10	0.881	0.317	0.961	0.956	
34	0.979	0.343	0.993	0.987	3.2%
36	1.029	0.185	1.005	1.000	4.6%
37	1.086	0.477	1.040	1.035	8.3%
CLASS GROUP					
3	0.867	0.447	0.938	0.942	
4	1.109	0.384	1.041	1.044	
5	1.079	0.130	1.010	1.014	
6	0.977	0.310	0.993	0.996	
7	0.998	0.143	1.000	1.003	

NOTE: THE INDICATED CHANGES BY TOP WERE FURTHER ADJUSTED BY THE FOLLOWING
DIFFERENTIALS: TOP 34: 1.014
TOP 36: 1.011
TOP 37: 0.980

INSURANCE SERVICES OFFICE, INC.

MULTISTATE
PRODUCTS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIVITY	NUMBER OF OCCURRENCES	BAL CELL RELATIVITY
10 MONOLINE	03 MAN,DLR,DSTFD/DRG	8,093,332	39,443,822	0.784	0.712	920	0.900
	04 DLR,DST-NOTFD/DRG	7,050,350	31,300,283	1.139	1.034	465	0.998
	05 MAN.NTFD/DRG(LOW)	1,674,016	6,525,174	0.980	0.890	84	0.969
	06 MAN.NTFD/DRG(MED)	8,719,673	39,390,154	1.006	0.914	462	0.952
	07 MAN.NTFD/DRG(HGH)	2,487,754	10,123,703	0.821	0.745	82	0.959
	TOTAL *	28,025,125	126,783,136	0.957		2,013	
34 MULT MERCANTILE	03 MAN,DLR,DSTFD/DRG	4,331,883	21,396,487	1.047	0.951	564	0.930
	04 DLR,DST-NOTFD/DRG	25,139,034	121,279,202	1.176	1.068	1,794	1.031
	06 MAN.NTFD/DRG(MED)	3,108	19,331	0.000	0.000	-	0.984
	TOTAL *	29,474,025	142,695,020	1.157		2,358	
36 MULT SERVICES	04 DLR,DST-NOTFD/DRG	2,760,971	12,384,922	1.274	1.157	688	1.044
	06 MAN.NTFD/DRG(MED)	42,893	205,196	0.000	0.000	-	0.996
	TOTAL *	2,803,864	12,590,118	1.254		688	
37 MULT INDUST/PROC.	03 MAN,DLR,DSTFD/DRG	13,380,685	63,881,777	1.035	0.940	2,512	0.974
	05 MAN.NTFD/DRG(LOW)	3,488,504	18,393,950	1.322	1.200	254	1.048
	06 MAN.NTFD/DRG(MED)	24,557,849	115,549,330	1.149	1.043	1,462	1.031
	07 MAN.NTFD/DRG(HGH)	5,784,533	29,451,053	1.257	1.141	329	1.038
	TOTAL *	47,211,571	227,276,110	1.143		4,557	
TOTAL ALL TOP	03 MAN,DLR,DSTFD/DRG	25,805,900	124,722,086	0.959		3,996	
	04 DLR,DST-NOTFD/DRG	34,950,355	164,964,407	1.176		2,947	
	05 MAN.NTFD/DRG(LOW)	5,162,520	24,919,124	1.211		338	
	06 MAN.NTFD/DRG(MED)	33,323,523	155,164,011	1.110		1,924	
	07 MAN.NTFD/DRG(HGH)	8,272,287	39,574,756	1.126		411	
	TOTAL *	107,514,585	509,344,384	1.101		9,616	

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

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT

LOCAL PRODUCTS/COMPLETED OPERATIONS

BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	(1) BAILEY FORMULA	(2)	(3) CREDIBILITY WEIGHTED	(4) BALANCED	(5) INDICATED
	RELATIVITY	CREDIBILITY	RELATIVITY	RELATIVITY	CHANGE
10	0.978	0.722	0.984	0.982	
34	0.954	0.510	0.976	0.974	-0.8%
36	0.950	0.521	0.974	0.971	-1.1%
37	1.093	0.137	1.012	1.010	2.9%
38	1.021	0.965	1.020	1.018	3.7%
CLASS GROUP					
1	0.925	0.511	0.961	0.958	
2	1.076	0.497	1.037	1.034	
11	1.085	0.347	1.029	1.025	
12	1.008	1.000	1.008	1.004	
13	0.835	0.264	0.954	0.950	

MULTISTATE
LOCAL PRODUCTS/COMPLETED OPERATIONS
BASIC LIMIT RELATIVE CHANGE ANALYSIS *

STATE	(1)	(2)	(3)	(4)
	BAILEY	CREDIBILITY	CREDIBILITY	
	FORMULA		WEIGHTED	BALANCED
	RELATIVITY	RELATIVITY	RELATIVITY	RELATIVITY
CONNECTICUT	2.002	0.233	1.176	1.177
	1.227	0.389	1.083	1.084
	1.165	0.453	1.071	1.072
	1.172	0.356	1.058	1.059
	1.202	0.253	1.048	1.049
	1.070	0.618	1.043	1.044
	1.204	0.212	1.040	1.041
	1.108	0.366	1.038	1.039
	1.350	0.112	1.034	1.035
	1.265	0.136	1.033	1.034
	1.211	0.158	1.031	1.032
	1.172	0.187	1.030	1.031
	1.085	0.361	1.030	1.031
	1.131	0.234	1.029	1.030
	1.115	0.256	1.028	1.029
	1.065	0.429	1.028	1.029
	1.140	0.182	1.024	1.025
	1.104	0.243	1.024	1.025
	1.190	0.130	1.023	1.024
	1.024	0.365	1.009	1.010
	1.030	0.310	1.009	1.010
	1.057	0.148	1.008	1.009
	1.014	0.557	1.008	1.009
	1.020	0.391	1.008	1.009
	1.015	0.251	1.004	1.005
	0.996	0.453	0.998	0.999
	0.899	0.095	0.990	0.991
	0.980	0.489	0.990	0.991
	0.976	0.455	0.989	0.990
	0.930	0.183	0.987	0.988
	0.958	0.334	0.986	0.987
	0.886	0.134	0.984	0.985
	0.907	0.222	0.979	0.980
	0.955	0.471	0.979	0.980
	0.921	0.285	0.977	0.978
	0.926	0.299	0.977	0.978
	0.929	0.313	0.977	0.978
	0.839	0.164	0.972	0.973
	0.833	0.156	0.972	0.973
	0.921	0.378	0.969	0.970
	0.538	0.066	0.960	0.961
	0.793	0.215	0.951	0.952
	0.891	0.451	0.949	0.950
	0.902	0.570	0.943	0.944
	0.852	0.416	0.936	0.937
	0.464	0.087	0.935	0.936
	0.683	0.179	0.934	0.935
	0.776	0.288	0.930	0.930
	0.619	0.154	0.929	0.930
	0.773	0.304	0.925	0.925
	0.843	0.553	0.910	0.911
	0.558	0.170	0.906	0.907

* Sorted by balanced relative change

INSURANCE SERVICES OFFICE, INC.

CONNECTICUT
LOCAL PRODUCTS/COMPLETED OPERATIONS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/18 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2014-2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	\$17,169	\$48,153	3.669	3.192	2	0.968
	02 RET.STRS-NTFD/DRG	\$9,218	\$43,829	1.808	1.574	7	1.045
	11 COMP. OPS. (LOW)	\$37,630	\$165,166	0.592	0.515	1	1.036
	12 COMP. OPS. (MED)	\$1,106,212	\$4,965,749	0.384	0.334	51	1.015
	13 COMP. OPS. (HGH)	\$61,759	\$412,324	0.46	0.4	4	0.961
	TOTAL *	\$1,231,988	\$5,635,221	0.45		65	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	\$75,954	\$357,153	1.565	1.361	52	0.96
	02 RET.STRS-NTFD/DRG	\$46,609	\$232,490	2.07	1.801	7	1.036
	12 COMP. OPS. (MED)	\$21,979	\$82,498	0.449	0.391	3	1.007
	TOTAL *	\$144,542	\$672,141	1.558		62	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	\$7,833	\$33,705	2.529	2.201	1	0.958
	02 RET.STRS-NTFD/DRG	\$129,154	\$514,439	1.881	1.637	33	1.034
	11 COMP. OPS. (LOW)	\$36,184	\$179,051	1.825	1.588	9	1.025
	12 COMP. OPS. (MED)	\$23,446	\$188,664	5.063	4.406	12	1.004
	13 COMP. OPS. (HGH)	\$8,187	\$45,746	0	0	0	0.95
	TOTAL *	\$204,804	\$961,605	2.185		55	
37 MULT INDUST/PROC	11 COMP. OPS. (LOW)	\$466	\$1,526	0	0	0	1.066
	12 COMP. OPS. (MED)	\$39,981	\$174,819	1.464	1.274	3	1.044
	TOTAL *	\$40,447	\$176,345	1.447		3	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	\$65,482	\$271,155	0.105	0.091	2	1.074
	12 COMP. OPS. (MED)	\$1,181,468	\$5,877,932	1.991	1.732	169	1.052
	13 COMP. OPS. (HGH)	\$59,234	\$352,288	1.873	1.63	7	0.996
	TOTAL *	\$1,306,184	\$6,501,375	1.891		178	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	\$100,956	\$439,011	1.997		55	
	02 RET.STRS-NTFD/DRG	\$184,981	\$790,758	1.925		47	
	11 COMP. OPS. (LOW)	\$139,762	\$616,898	0.681		12	
	12 COMP. OPS. (MED)	\$2,373,086	\$11,289,662	1.249		238	
	13 COMP. OPS. (HGH)	\$129,180	\$810,358	1.079		11	
	TOTAL *	\$2,927,965	\$13,946,687	1.283		363	

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

INSURANCE SERVICES OFFICE, INC.

MULTISTATE
LOCAL PRODUCTS/COMPLETED OPERATIONS
SUMMARY OF EXPERIENCE USED IN BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	2,151,747	9,207,997	0.954		570	
	02 RET.STRS-NTFD/DRG	2,295,068	11,448,808	1.305		473	
	11 COMP. OPS. (LOW)	3,892,639	18,163,511	1.628		651	
	12 COMP. OPS. (MED)	83,135,280	371,618,514	1.130		5,859	
	13 COMP. OPS. (HGH)	7,417,394	33,727,804	0.856		270	
	TOTAL *	98,892,128	444,166,634	1.129		7,823	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	7,352,885	34,702,053	1.022		3,165	
	02 RET.STRS-NTFD/DRG	4,646,377	21,875,704	1.065		619	
	12 COMP. OPS. (MED)	2,019,660	9,688,586	1.284		128	
	TOTAL *	14,018,922	66,266,343	1.074		3,912	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	731,049	3,411,977	1.191		192	
	02 RET.STRS-NTFD/DRG	11,441,919	45,533,065	1.209		2,628	
	11 COMP. OPS. (LOW)	3,036,648	13,947,197	1.001		463	
	12 COMP. OPS. (MED)	3,960,968	19,706,711	1.159		722	
	13 COMP. OPS. (HGH)	1,087,876	5,580,338	0.595		73	
	TOTAL *	20,258,460	88,179,288	1.134		4,078	
37 MULT INDUST/PROC.	01 RET.STRS-FOOD/DRG	9,799	70,370	0.699		1	
	11 COMP. OPS. (LOW)	114,111	543,328	0.930		18	
	12 COMP. OPS. (MED)	3,276,550	16,096,832	1.264		263	
	13 COMP. OPS. (HGH)	46,427	271,366	0.786		0	
	TOTAL *	3,446,887	16,981,896	1.245		282	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	8,262,574	39,057,672	1.157		683	
	12 COMP. OPS. (MED)	143,843,747	687,120,222	1.178		12,596	
	13 COMP. OPS. (HGH)	13,690,731	64,062,049	1.058		709	
	TOTAL *	165,797,052	790,239,943	1.167		13,988	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	10,245,480	47,392,397	1.020		3,928	
	02 RET.STRS-NTFD/DRG	18,383,364	78,857,577	1.185		3,720	
	11 COMP. OPS. (LOW)	15,305,972	71,711,708	1.244		1,815	
	12 COMP. OPS. (MED)	236,236,205	1,104,230,865	1.163		19,568	
	13 COMP. OPS. (HGH)	22,242,428	103,641,557	0.967		1,052	
	TOTAL *	302,413,449	1,405,834,104	1.149		30,083	

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

COMMERCIAL PACKAGE POLICY

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SECTION C - REVISED CLM DIVISION NINE

Commercial Package Policy Package Modification Factors (Revised MLCP-PMF-1) C-2

**COMMERCIAL LINES MANUAL
DIVISION NINE – MULTIPLE LINE
COMMERCIAL PACKAGE POLICY
PACKAGE MODIFICATION FACTORS**

CONNECTICUT (06)

PACKAGE MODIFICATION FACTORS

Package Modification Assignment (PMA)	Premium From CLM Division			
	Two	Three, Four, Five, Eight Property	Four, Six Liability	All Other Divisions
Apartment House	.90	.99	.81	1.00
Contractors	.90	1.00	1.00	1.00
Industrial & Processing	.90	.87	.99	1.00
Institutional	.90	.97	.90	1.00
Mercantile	.90	.99	.95	1.00
Motel/Hotel	.90	1.00	1.00	1.00
Office	.90	1.00	.78	1.00
Service	.90	1.00	.99	1.00

Table 1. Package Modification Factors