

RULES – IMPLEMENTATION

DECEMBER 13, 2019

COMMERCIAL MULTIPLE LINE

LI-ML-2019-039

OREGON COMMERCIAL PACKAGE POLICY REVISED PACKAGE MODIFICATION FACTOR REVISION TO BE IMPLEMENTED; EXCEL WORKBOOK NEWLY INCLUDED

KEY MESSAGE

Revised Commercial Package Policy package modification factors for an overall statewide change of 0.7% to be implemented.

BACKGROUND

In circular [LI-ML-2019-034](#), we provided you with information about the Commercial Package Policy modification factor experience review.

ISO ACTION

We are implementing ML-2019-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 written on or after June 1, 2020.

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.

In all correspondence with the Insurance Department on this revision, you should refer to ISO Filing Designation Number [ML-2019-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 6-20 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

REFERENCE(S)

- [LI-CL-2019-057](#) (12/10/2019) Revised Lead Time Requirements Listing
- [LI-ML-2019-034](#) (10/02/2019) Commercial Package Policy Experience Reviewed By Staff

ATTACHMENT(S)

- Filing [ML-2019-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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DATA QUALITY

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

ACKNOWLEDGMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "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.

CONTACT INFORMATION

If you have any questions concerning:

- The actuarial content of this circular, please contact:

Jeremy Nagle

Actuarial Operations

201-469-2101

Jeremy.Nagle@verisk.com

propertyactuarial@verisk.com

- The non-actuarial content of this circular, please contact:
Jeannette Schuff
Production Operations, Compliance and Product Services
201-469-2857
productionoperations@verisk.com
- Other issues for this circular, please contact Customer Support:
E-mail: info@verisk.com
Phone: 800-888-4476

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

OREGON
 ADVISORY PACKAGE MODIFICATION FACTOR REVIEW
 COMMERCIAL PACKAGE POLICY
 ML-2019-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.
-

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	-1.0%	0.0%	-0.7%
Office	-5.2%	+6.7%	+4.5%
Mercantile	-8.5%	+6.0%	-0.7%
Institutional	-6.0%	0.0%	-4.5%
Services	-1.0%	+2.0%	+0.8%
Indust./Proc.	-9.5%	0.0%	-3.5%
Contractors	<u>-5.2%</u>	<u>+5.6%</u>	<u>+5.0%</u>
Statewide	-5.6%	+4.0%	+0.7%

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.

OREGON
 ADVISORY PACKAGE MODIFICATION FACTOR REVIEW
 COMMERCIAL PACKAGE POLICY
 ML-2019-RLA1
 EXECUTIVE SUMMARY

HISTORICAL
 SOURCE DATA

The data used in this review is from ISO reporting companies for:

- Basic Group I: five fiscal accident years ending 06/30/18.
 - Basic Group II: ten fiscal accident years ending 06/30/18.
 - Special Causes of Loss: five fiscal accident years ending 06/30/18.
 - 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 06/30/18.
 - Manufacturers and Contractors: five fiscal accident years ending 06/30/18
 - Products: three calendar accident years ending 12/31/17.
 - Local Products and Completed Operations: three calendar accident years ending 12/31/17.
-

PRIOR ISO
 REVISIONS

The latest revisions in this state are:

<u>Filing</u>	ML-18-RLA1	ML-15-RLA1	ML-12-RLA1
<u>Dates</u>			
Implemented	5/1/2019	6/1/2016	10/1/2012
<u>Changes</u>			
Indicated	-0.1%	-0.1%	+5.7%
Filed	-0.1%	-0.1%	+4.3%
Implemented	-0.1%	-0.1%	+4.3%

OREGON

ADVISORY PACKAGE MODIFICATION FACTOR REVIEW

COMMERCIAL PACKAGE POLICY

ML-2019-RLA1

EXECUTIVE SUMMARY

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. Liberty Mutual Insurance Company
 2. Travelers Indemnity Company
 3. Tokio Marine Companies
 4. Cincinnati Insurance Company
 5. Continental Casualty Company
 6. American Hallmark Insurance Company Of Texas
 7. Hanover Insurance Company
 8. Hartford Accident & Indemnity Company
 9. Country Mutual Insurance Company
 10. California Capital 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). 57.4%.

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.

OREGON

ADVISORY PACKAGE MODIFICATION FACTOR REVIEW

COMMERCIAL PACKAGE POLICY

ML-2019-RLA1

EXECUTIVE SUMMARY

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 (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:

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

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

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

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

COLUMN (1)
(Cont'd)

SPECIAL CAUSES OF LOSS:

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

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

- TOP_i is the relativity for the i th Type of Policy;
- RG_j is the relativity for the j th Rating Group;
- CAT_j is the relativity for the j th Category;
- TER_k is the relativity for the k th Territory;
- W_{ijk} is the loss cost volume at current level for the i th Type of Policy, j th Rating Group or Category and k th Territory;
- R_{ijk} is the experience ratio relativity for the i th Type of Policy, j th Rating Group or Category and k th Territory;
- R_{ij} is the experience ratio relativity for the i th Type of Policy, j th Rating Group or Category;

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

COLUMN (1)
(Cont'd)

- m is the number of Types of Policy in the analysis;
- n is the number of Rating Groups or Categories in the analysis;
- t is the number of Territories in the analysis.

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

COLUMN (2)

CREDIBILITY

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

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

where P 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 \$55,000,000 for territory, \$40,000,000 for rating group, and \$100,000,000 for type of policy. For Special Causes of Loss, K equals an aggregate loss cost volume of \$15,000,000.

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.

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

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:

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

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 5

BASIC GROUP II RELATIVITY ANALYSIS

OBJECTIVE

The explanations which follow clarify Exhibit 5, 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.

COLUMN (1)

AGGREGATE LOSS COSTS

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

COLUMN (2)

10 - YEAR EXPERIENCE RATIO

These experience ratios are the ratio of the combined ten year CSP adjusted incurred losses (adjusted to current deductible and prospective cost levels including loss development, 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.

COLUMN (3)

FORMULA RELATIVITY

The formula relativities are the ratios of the ten year experience ratios for the type of policy (either monoline vs. multiline or individual multiline programs) to the average ten year experience ratio for monoline and multiline combined. These relativities represent how much better or worse than average the experience for a given type of policy is. Again, any totals which are shown are weighted averages and the display of a dash indicates that the resulting IPMF was capped.

EXPLANATORY NOTES TO EXHIBIT 5 (Cont'd)

COLUMN (3)
(Cont'd)

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

COLUMN (6)

BALANCED FORMULA RELATIVITY

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

EXPLANATORY NOTES TO EXHIBIT 5 (Cont'd)

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

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).

ADJUSTMENT
OF DATA

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.

RELATIVITY
ANALYSIS

For Inland Marine coverage, a multistate 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.

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 and territory (if applicable) relativities will serve to derive the relationship of the various classification and territories 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:

Manufacturers and Contractors -	type of policy and class group
Owners, Landlords and Tenants -	type of policy, territory 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:

$$TOP_i = \frac{\sum_j \sum_k W_{ijk} r_{ijk}}{\sum_j \sum_k W_{ijk} CG_j TER_k} \quad \text{where } 1 \leq i \leq m$$

$$CG_j = \frac{\sum_i \sum_k W_{ijk} r_{ijk}}{\sum_i \sum_k W_{ijk} TOP_i TER_k} \quad \text{where } 1 \leq j \leq n$$

$$TER_k = \frac{\sum_i \sum_j W_{ijk} r_{ijk}}{\sum_i \sum_j W_{ijk} TOP_i CG_j} \quad \text{where } 1 \leq k \leq p$$

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;

TER_k is the relative change for the k^{th} territory;

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

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

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

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

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 territories 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 and class group into the third formula to get a territory relativity. This result is then used with the class group relativity in the first formula to get a new type of policy relativity, which in turn is substituted along with the territory relativity into the second formula to get a new class group relativity. 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 $Z = \sqrt{P/18,000}$ for Owners, Landlords and Tenants, $Z = \sqrt{P/18,000}$ for Manufacturers and Contractors and $Z = \sqrt{P/20,000}$ 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 $Z = \sqrt{P/15,000}$ for type of policy and class group, and $Z = \sqrt{P/5,500}$ 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, territory, state or type of policy credibility;

R is the class group, territory, 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 and the class group, territory (if applicable) and state relativities which result from the aforementioned procedures are then used to generate indicated monoline classification loss cost changes. The multiline relativities are 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.

OREGON

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)	1.00	0.99	-1.0%	1.00	1.00	0.0%	-0.7%
OFFICE (33)	0.97	0.92	-5.2%	0.89	0.95	6.7%	4.5%
MERCANTILE (34)	0.94	0.86	-8.5%	0.83	0.88	6.0%	-0.7%
INSTITUTION(35)	1.00	0.94	-6.0%	1.00	1.00	0.0%	-4.5%
SERVICES (36)	0.98	0.97	-1.0%	0.98	1.00	2.0%	0.8%
IND/PROC (37)	0.84	0.76	-9.5%	0.88	0.88	0.0%	-3.5%
CONTRACTORS(38)	0.96	0.91	-5.2%	0.90	0.95	5.6%	5.0%
STATEWIDE			-5.6%			4.0%	0.7%

INSURANCE SERVICES OFFICE, INC.

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

MOTEL/HOTEL(31) *****	(1) AGGREGATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
<u>COVERAGE</u>					
PROPERTY-					
BASIC GRP I	258,857	0.875	-4.4%	0.837	0.850
BASIC GRP II	125,289	1.482	1.3%	1.501	1.500
SP CAUSE/LOSS	183,465	1.058	-5.6%	0.999	1.015
* CRIME	2,068	0.908	0.0%	0.908	0.908
* INL. MAR.	3,978	0.910	7.1%	0.975	0.975
* FIDELITY	5,170	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>578,827</u>	<u>1.000</u>	<u>-1.2%</u>	<u>0.988</u>	<u>1.000</u>
LIABILITY-					
OL&T	1,241,838	1.000	8.9%	1.089	1.000
<u>TOTAL</u>	<u>1,241,838</u>	<u>1.000</u>	<u>8.9%</u>	<u>1.089</u>	<u>1.000</u>

PROP. & LIAB. TOTAL	1,820,665		5.7%		

APARTMENT (32) *****	(1) AGGREG- ATE LOSS COSTS	(2) CURRENT IMPLICIT PMF	(3) NET INDICATION	(4) INDIC. PMF	(5) CAPPED PMF
<u>COVERAGE</u>					
PROPERTY-					
BASIC GRP I	1,273,559	1.046	-2.9%	1.016	1.051
BASIC GRP II	299,150	0.873	-6.2%	0.819	0.848
SP CAUSE/LOSS	711,738	0.980	-4.9%	0.932	0.965
* CRIME	2,808	0.908	0.0%	0.908	0.908
* INL. MAR.	635	0.910	7.1%	0.975	0.975
* FIDELITY	13,640	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>2,301,530</u>	<u>1.000</u>	<u>-4.0%</u>	<u>0.960</u>	<u>0.990</u>
LIABILITY-					
OL&T	1,027,610	1.000	7.5%	1.075	1.000
<u>TOTAL</u>	<u>1,027,610</u>	<u>1.000</u>	<u>7.5%</u>	<u>1.075</u>	<u>1.000</u>

PROP. & LIAB. TOTAL	3,329,140		-0.5%		

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

INSURANCE SERVICES OFFICE, INC.

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

OFFICE (33) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	337,484	1.010	-5.0%	0.960	0.959
BASIC GRP II	107,230	0.860	-6.8%	0.802	0.802
SP CAUSE/LOSS	310,215	0.978	-5.7%	0.922	0.922
* CRIME	4,613	0.908	0.0%	0.908	0.908
* INL. MAR.	9,673	0.910	7.1%	0.975	0.975
* FIDELITY	18,120	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>787,335</u>	<u>0.970</u>	<u>-5.0%</u>	<u>0.922</u>	<u>0.920</u>
LIABILITY-					
OL&T	3,011,681	0.905	6.7%	0.966	0.969
M&C	335,227	0.786	3.2%	0.811	0.814
<u>TOTAL</u>	<u>3,346,908</u>	<u>0.890</u>	<u>6.5%</u>	<u>0.948</u>	<u>0.950</u>

PROP. & LIAB.	4,134,243		4.3%		
TOTAL					

MERCANTILE (34) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	2,883,120	1.067	-9.8%	0.962	0.962
BASIC GRP II	642,560	0.963	-6.3%	0.902	0.902
SP CAUSE/LOSS	1,323,267	0.732	-9.0%	0.666	0.666
* CRIME	19,036	0.908	0.0%	0.908	0.908
* INL. MAR.	272,498	0.910	7.1%	0.975	0.975
* FIDELITY	217,395	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>5,357,876</u>	<u>0.940</u>	<u>-8.1%</u>	<u>0.864</u>	<u>0.860</u>
LIABILITY-					
OL&T	4,014,090	0.758	9.4%	0.829	0.832
M&C	957,485	0.998	0.3%	1.001	1.005
LOCAL PRODUCT	527,438	1.261	0.5%	1.267	1.272
* MULTI PRODUCT	778,681	0.862	-1.1%	0.853	0.853
<u>TOTAL</u>	<u>6,277,695</u>	<u>0.830</u>	<u>5.8%</u>	<u>0.878</u>	<u>0.880</u>

PROP. & LIAB.	11,635,571		-0.6%		
TOTAL					

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

INSURANCE SERVICES OFFICE, INC.

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

INSTITUTION(35) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	1,858,439	1.230	-6.4%	1.151	1.158
BASIC GRP II	445,624	0.888	-7.4%	0.822	0.827
SP CAUSE/LOSS	784,929	0.718	-4.6%	0.685	0.689
* CRIME	16,401	0.908	0.0%	0.908	0.908
* INL. MAR.	3,643	0.910	7.1%	0.975	0.975
* FIDELITY	136,794	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>3,245,830</u>	<u>1.000</u>	<u>-6.3%</u>	<u>0.937</u>	<u>0.940</u>
LIABILITY-					
OL&T	1,034,174	1.021	1.1%	1.032	1.017
M&C	42,473	0.713	2.2%	0.729	0.718
<u>TOTAL</u>	<u>1,076,646</u>	<u>1.000</u>	<u>1.5%</u>	<u>1.015</u>	<u>1.000</u>

PROP. & LIAB.	4,322,476		-4.4%		
TOTAL					

SERVICES (36) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	1,752,855	1.190	-2.8%	1.157	1.193
BASIC GRP II	449,816	1.086	-6.4%	1.016	1.049
SP CAUSE/LOSS	733,079	0.643	-3.6%	0.620	0.639
* CRIME	7,990	0.908	0.0%	0.908	0.908
* INL. MAR.	25,091	0.910	7.1%	0.975	0.975
* FIDELITY	116,481	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>3,085,312</u>	<u>0.980</u>	<u>-4.3%</u>	<u>0.938</u>	<u>0.970</u>
LIABILITY-					
OL&T	1,837,466	0.866	6.9%	0.926	0.912
M&C	1,541,744	0.941	0.7%	0.948	0.934
LOCAL PRODUCT	958,218	1.500	2.1%	1.532	1.470
* MULTI PRODUCT	70,501	0.914	0.2%	0.916	0.916
<u>TOTAL</u>	<u>4,407,929</u>	<u>0.980</u>	<u>4.1%</u>	<u>1.020</u>	<u>1.000</u>

PROP. & LIAB.	7,493,241		0.6%		
TOTAL					

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

INSURANCE SERVICES OFFICE, INC.

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

IND/PROC (37) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	1,838,129	1.073	-7.4%	0.994	0.994
BASIC GRP II	227,787	0.557	-2.4%	0.544	0.544
SP CAUSE/LOSS	788,015	0.595	-13.3%	0.516	0.516
* CRIME	5,758	0.908	0.0%	0.908	0.908
* INL. MAR.	3,833	0.910	7.1%	0.975	0.975
* FIDELITY	75,362	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>2,938,884</u>	<u>0.840</u>	<u>-9.2%</u>	<u>0.763</u>	<u>0.760</u>
LIABILITY-					
M&C	3,193,265	0.896	-0.1%	0.895	0.898
LOCAL PRODUCT	124,729	0.816	2.1%	0.833	0.836
* MULTI PRODUCT	1,845,176	0.860	0.4%	0.863	0.863
<u>TOTAL</u>	<u>5,163,169</u>	<u>0.880</u>	<u>0.2%</u>	<u>0.882</u>	<u>0.880</u>

PROP. & LIAB.	8,102,053		-3.2%		
TOTAL					

CONTRACTORS(38) *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	339,419	0.876	-4.2%	0.839	0.839
BASIC GRP II	106,787	1.174	-5.9%	1.105	1.105
SP CAUSE/LOSS	342,231	0.990	-7.2%	0.919	0.919
* CRIME	1,442	0.908	0.0%	0.908	0.908
* INL. MAR.	2,756	0.910	7.1%	0.975	0.975
* FIDELITY	40,225	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>832,860</u>	<u>0.960</u>	<u>-5.6%</u>	<u>0.906</u>	<u>0.910</u>
LIABILITY-					
M&C	6,582,337	0.894	4.5%	0.934	0.938
LOCAL PRODUCT	7,744,401	0.908	5.0%	0.953	0.957
<u>TOTAL</u>	<u>14,326,738</u>	<u>0.900</u>	<u>4.9%</u>	<u>0.944</u>	<u>0.950</u>

PROP. & LIAB.	15,159,598		4.4%		
TOTAL					

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

INSURANCE SERVICES OFFICE, INC.

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

STATEWIDE *****	(1)	(2)	(3)	(4)	(5)
	AGGREGATE	CURRENT	NET	INDIC.	CAPPED
COVERAGE	<u>LOSS COSTS</u>	<u>IMPLICIT</u>	<u>INDICATION</u>	<u>PMF</u>	<u>PMF</u>
PROPERTY-					
BASIC GRP I	10,541,862	1.094	-6.3%	1.025	1.037
BASIC GRP II	2,404,243	0.912	-5.7%	0.860	0.870
SP CAUSE/LOSS	5,176,939	0.747	-7.2%	0.693	0.701
* CRIME	60,116	0.908	0.0%	0.908	0.908
* INL. MAR.	322,107	0.910	7.1%	0.975	0.975
* FIDELITY	623,187	1.000	0.0%	1.000	1.000
<u>TOTAL</u>	<u>19,128,454</u>	<u>0.951</u>	<u>-6.6%</u>	<u>0.888</u>	<u>0.897</u>
LIABILITY-					
OL&T	12,166,859	0.867	7.4%	0.931	0.917
M&C	12,652,530	0.903	2.5%	0.926	0.927
LOCAL PRODUCT	9,354,786	0.961	4.4%	1.003	1.002
* MULTI PRODUCT	<u>2,694,358</u>	<u>0.862</u>	<u>0.0%</u>	<u>0.862</u>	<u>0.862</u>
<u>TOTAL</u>	<u>36,868,533</u>	<u>0.901</u>	<u>4.5%</u>	<u>0.942</u>	<u>0.937</u>

PROP. & LIAB.	55,996,987		0.7%		
TOTAL					

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

INSURANCE SERVICES OFFICE, INC.

OREGON
 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	1.058	1.000
APARTMENT (32)	1.000	0.995	1.000
OFFICE (33)	0.900	0.943	0.950
MERCANTILE (34)	0.880	0.872	0.870
INSTITUTION(35)	1.000	0.956	0.960
SERVICES (36)	0.980	0.986	0.990
IND/PROC (37)	0.870	0.837	0.840
CONTRACTORS(38)	0.910	0.943	0.950

NOTE: Combined PMFs are provided for informational purposes only.

INSURANCE SERVICES OFFICE, INC.

OREGON
BASIC GROUP I RELATIVITY ANALYSIS

TYPE OF POLICY	(1)	(2)	(3)	(4)	(5)
	LEAST SQUARES FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	2.324	0.054	1.047	1.061	
31	0.990	0.017	1.000	1.014	-4.4%
32	1.240	0.070	1.015	1.030	-2.9%
33	0.732	0.018	0.994	1.008	-5.0%
34	0.636	0.128	0.944	0.957	-9.8%
35	0.774	0.081	0.979	0.993	-6.4%
36	1.204	0.088	1.016	1.031	-2.8%
37	0.704	0.092	0.968	0.982	-7.4%
38	1.114	0.017	1.002	1.016	-4.2%
RATING GROUP					
1	1.400	0.113	1.039	1.043	
2	0.689	0.072	0.974	0.978	
3	0.974	0.056	0.999	1.003	
4	0.957	0.277	0.988	0.992	
6	0.573	0.099	0.946	0.950	
7	1.745	0.033	1.019	1.023	
8	0.872	0.119	0.984	0.988	
9	1.232	0.103	1.022	1.026	
10	0.941	0.045	0.997	1.002	
11	0.829	0.020	0.996	1.001	
13	0.923	0.067	0.995	0.999	
14	1.137	0.065	1.008	1.013	
15	0.975	0.059	0.999	1.003	
17	0.995	0.049	1.000	1.004	
18	0.980	0.051	0.999	1.003	
19	1.140	0.008	1.001	1.005	
21	1.012	0.062	1.001	1.005	
22	1.138	0.055	1.007	1.012	
TERRITORY					
Portland	1.420	0.114	1.041	1.064	
Balance of State	0.940	0.499	0.970	0.991	

INSURANCE SERVICES OFFICE, INC.

OREGON

SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

TYPE OF POLICY	(1)	(2)	(3)	(4)	(5)
	LEAST SQUARES FORMULA RELATIVITY	CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	1.706	0.106	1.058	1.066	
31	0.947	0.026	0.999	1.006	-5.6%
32	1.070	0.094	1.006	1.014	-4.9%
33	0.935	0.045	0.997	1.005	-5.7%
34	0.765	0.141	0.963	0.970	-9.0%
35	1.113	0.088	1.009	1.017	-4.6%
36	1.250	0.089	1.020	1.028	-3.6%
37	0.406	0.096	0.917	0.924	-13.3%
38	0.677	0.048	0.981	0.989	-7.2%
CATEGORY					
1	1.049	0.567	1.027	1.013	
2	0.722	0.067	0.978	0.965	
3	0.726	0.064	0.980	0.966	
4	0.737	0.086	0.974	0.961	
5	1.109	0.061	1.006	0.993	
6	1.205	0.033	1.006	0.992	
7	1.049	0.020	1.001	0.987	
8	0.811	0.061	0.987	0.974	
9	1.018	0.081	1.001	0.988	
10	1.438	0.047	1.017	1.003	
11	1.065	0.099	1.006	0.992	
12	0.644	0.060	0.974	0.961	
13	0.793	0.046	0.989	0.976	
14	0.888	0.073	0.991	0.978	

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1) ACCIDENT YEAR ENDING 06/30/18 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	88,701	377,735	6.742	3.180	3.015
	02 OTHER HABITATIONAL	35,470	186,288	2.222	2.607	2.472
	03 RESTAURANTS & BARS	34,735	127,601	0.000	2.211	2.096
	04 OTHER MERCANTILE RS	269,648	1,713,655	0.962	2.550	2.417
	06 CHURCHES	17,953	87,688	0.314	2.956	2.802
	07 SCHOOLS	14,994	93,582	13.117	5.300	5.023
	08 OFFICES AND BANKS	108,819	593,485	1.414	2.664	2.526
	09 REC. FACILITIES	101,426	564,472	0.632	2.626	2.489
	10 HOTELS AND MOTELS	24,777	113,155	1.208	2.085	1.976
	11 HOSPITALS/NURS HOME	23,020	78,603	0.000	2.158	2.046
	13 MOTOR VEHICLE RISKS	24,606	173,918	28.583	7.186	6.812
	14 OTHER NON-MANUF.	64,501	356,268	4.023	2.852	2.703
	15 STORAGE	64,465	256,923	0.110	2.171	2.058
	17 FOOD MANUFACTURING	77,645	276,714	3.860	2.608	2.472
	18 WOOD MANUFACTURING	20,745	172,270	0.085	2.002	1.898
	19 WEARING APPAREL	5,756	6,454	0.000	1.895	1.796
	21 METAL MANUFACTURING	46,552	300,235	0.268	2.581	2.447
	22 OTHER MANUFACTURING	36,066	228,936	1.183	2.188	2.074
	TOTAL*	1,059,879	5,707,982	2.560	2.721	2.579
31 MULTILINE MOTEL/HOTEL	10 HOTELS AND MOTELS	258,857	1,766,366	1.664	1.104	1.046
	TOTAL*	258,857	1,766,366	1.664	1.104	1.046
32 MULTILINE APARTMENT	01 APARTMENTS	697,514	4,727,116	2.324	1.746	1.656
	02 OTHER HABITATIONAL	576,045	2,845,431	1.181	0.985	0.934
	TOTAL*	1,273,559	7,572,547	1.807	1.402	1.329
33 MULTILINE OFFICE	08 OFFICES AND BANKS	337,484	1,845,761	0.321	0.652	0.618
	TOTAL*	337,484	1,845,761	0.321	0.652	0.618
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS	422,603	2,078,457	0.539	0.713	0.677
	04 OTHER MERCANTILE RS	1,906,692	10,060,189	0.528	0.613	0.581
	08 OFFICES AND BANKS	66,267	376,685	0.202	0.754	0.715
	13 MOTOR VEHICLE RISKS	137,842	502,421	0.077	0.662	0.628
	14 OTHER NON-MANUF.	58,952	259,105	0.018	0.782	0.742
	15 STORAGE	290,764	1,447,643	0.372	0.682	0.647
	TOTAL*	2,883,120	14,724,500	0.474	0.644	0.610

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 06/30/18 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	CREDIBILITY WEIGHTED EXPERIENCE RATIO	CREDIBILITY WEIGHTED RELATIVITY
TYPE OF POLICY	CATEGORY					
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL	23,275	81,203	0.000	0.689	0.653
	06 CHURCHES	729,059	4,331,779	0.159	0.458	0.434
	07 SCHOOLS	318,035	1,260,616	2.453	1.431	1.357
	08 OFFICES AND BANKS	280,412	1,086,455	0.174	0.677	0.641
	09 REC. FACILITIES	150,061	702,063	2.035	1.224	1.159
	11 HOSPITALS/NURS HOME	220,224	722,679	0.115	0.694	0.658
	13 MOTOR VEHICLE RISKS	769	1,991	0.000	0.674	0.639
	14 OTHER NON-MANUF.	136,604	593,197	0.302	0.749	0.710
	TOTAL*	1,858,439	8,779,983	0.709	0.772	0.731
	36 MULTILINE SERVICES	03 RESTAURANTS & BARS	27,165	156,238	0.869	0.971
04 OTHER MERCANTILE RS		136,878	960,766	0.816	0.919	0.871
08 OFFICES AND BANKS		156,214	891,012	1.090	0.924	0.876
09 REC. FACILITIES		647,661	3,345,846	1.879	1.401	1.328
13 MOTOR VEHICLE RISKS		406,782	2,187,912	1.092	1.027	0.973
14 OTHER NON-MANUF.		204,397	1,083,133	2.494	1.401	1.328
15 STORAGE		135,311	792,430	1.505	1.093	1.036
21 METAL MANUFACTURING		12,680	95,500	0.412	0.876	0.830
22 OTHER MANUFACTURING		25,767	172,763	0.016	0.822	0.780
TOTAL*		1,752,855	9,685,600	1.532	1.191	1.129
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	223,040	1,222,268	0.125	0.702	0.665
	08 OFFICES AND BANKS	53,419	274,857	0.577	0.868	0.822
	13 MOTOR VEHICLE RISKS	99	5,142	0.000	0.802	0.760
	14 OTHER NON-MANUF.	33,634	391,335	0.000	0.769	0.729
	15 STORAGE	1,467	30,127	0.000	0.811	0.769
	17 FOOD MANUFACTURING	390,810	1,778,799	0.027	0.644	0.611
	18 WOOD MANUFACTURING	371,761	1,955,238	0.180	0.679	0.643
	19 WEARING APPAREL	40,511	299,854	0.270	0.820	0.777
	21 METAL MANUFACTURING	373,853	2,227,837	0.289	0.720	0.683
	22 OTHER MANUFACTURING	349,535	1,945,139	1.129	0.883	0.837
TOTAL*	1,838,129	10,130,596	0.354	0.732	0.694	
38 MULTILINE CONTRACTORS	04 OTHER MERCANTILE RS	262,444	1,341,377	1.162	1.017	0.964
	08 OFFICES AND BANKS	62,103	309,626	0.326	0.827	0.784
	14 OTHER NON-MANUF.	14,872	83,036	4.470	1.471	1.394
	TOTAL*	339,419	1,734,039	1.154	1.002	0.949

INSURANCE SERVICES OFFICE, INC.

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

ENTIRE STATE		(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 06/30/18 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	CREDIBILITY WEIGHTED EXPERIENCE RATIO	CREDIBILITY WEIGHTED RELATIVITY
TYPE OF POLICY	CATEGORY					
-----	-----	-----	-----	-----	-----	-----
TOTAL ALL TOPS*	01 APARTMENTS	786,215	5,104,851	2.823	1.908	1.809
	02 OTHER HABITATIONAL	634,790	3,112,922	1.196	1.065	1.009
	03 RESTAURANTS & BARS	484,503	2,362,296	0.519	0.835	0.792
	04 OTHER MERCANTILE RS	2,798,702	15,298,255	0.611	0.859	0.815
	06 CHURCHES	747,012	4,419,467	0.163	0.518	0.491
	07 SCHOOLS	333,029	1,354,198	2.934	1.606	1.522
	08 OFFICES AND BANKS	1,064,718	5,377,881	0.513	0.932	0.883
	09 REC. FACILITIES	899,148	4,612,381	1.764	1.510	1.431
	10 HOTELS AND MOTELS	283,634	1,879,521	1.625	1.190	1.127
	11 HOSPITALS/NURS HOME	243,244	801,282	0.104	0.833	0.789
	13 MOTOR VEHICLE RISKS	570,098	2,871,384	2.031	1.204	1.141
	14 OTHER NON-MANUF.	512,960	2,766,074	1.712	1.299	1.231
	15 STORAGE	492,007	2,527,123	0.648	0.991	0.939
	17 FOOD MANUFACTURING	468,455	2,055,513	0.663	0.970	0.919
	18 WOOD MANUFACTURING	392,506	2,127,508	0.175	0.749	0.709
	19 WEARING APPAREL	46,267	306,308	0.237	0.954	0.904
	21 METAL MANUFACTURING	433,085	2,623,572	0.291	0.925	0.877
	22 OTHER MANUFACTURING	411,368	2,346,838	1.064	0.994	0.942
	TOTAL*	11,601,741	61,947,374	1.031	1.055	1.000

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

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 06/30/18 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	473,526	2,644,217	1.952	1.911	1.870
	02 RES. APTS. AND COND	9,578	46,262	0.700	1.272	1.245
	03 OFFICES	52,440	345,763	1.107	1.274	1.247
	04 MERCANTILE - HIGH	72,774	466,552	0.606	0.922	0.902
	05 MERCANTILE - MEDIUM	26,222	134,290	0.265	0.986	0.965
	06 MERCANTILE - LOW	16,708	87,061	0.569	1.173	1.148
	07 MOTELS AND HOTELS	7,661	38,919	0.000	1.080	1.057
	08 INSTITUTIONAL - HIC	22,972	109,414	0.323	1.047	1.024
	09 INSTITUTIONAL - LOW	37,775	143,105	0.034	0.873	0.854
	10 INDUST-PROC - HIGH	20,907	89,759	1.040	1.343	1.314
	11 INDUST-PROC - LOW	44,306	295,687	0.274	0.815	0.797
	12 SERVICE - HIGH	16,109	98,757	6.930	3.584	3.507
	13 SERVICE - LOW	33,385	193,996	1.257	1.392	1.362
	14 CONTRACTORS	12,618	59,904	2.343	1.788	1.750
	TOTAL*	846,981	4,753,686	1.506	1.597	1.563
31 MULTILINE MOTEL/HOTEL	01 BUILDINGS	139,497	803,564	1.106	1.040	1.018
	07 MOTELS AND HOTELS	43,968	265,782	1.397	1.088	1.065
	TOTAL*	183,465	1,069,346	1.176	1.052	1.029
32 MULTILINE APARTMENT	01 BUILDINGS	518,739	3,109,162	1.266	1.180	1.155
	02 RES. APTS. AND COND	192,999	1,023,124	0.571	0.812	0.795
	TOTAL*	711,738	4,132,286	1.078	1.080	1.057
33 MULTILINE OFFICE	01 BUILDINGS	199,477	1,218,457	1.063	1.029	1.007
	03 OFFICES	104,833	641,069	0.209	0.726	0.710
	04 MERCANTILE - HIGH	1,787	13,874	0.000	0.888	0.869
	08 INSTITUTIONAL - HIC	947	4,222	0.000	0.893	0.874
	11 INDUST-PROC - LOW	390	8,078	0.000	0.891	0.872
	12 SERVICE - HIGH	1,373	6,539	1.788	1.083	1.060
	14 CONTRACTORS	1,408	5,116	1.119	1.011	0.989
	TOTAL*	310,215	1,897,355	0.767	0.925	0.905

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 06/30/18 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	CREDIBILITY WEIGHTED EXPERIENCE RATIO	CREDIBILITY WEIGHTED RELATIVITY
34 MULTILINE MERCANTILE	01 BUILDINGS	886,312	4,337,429	0.780	0.836	0.818
	03 OFFICES	1,309	2,827	0.000	0.894	0.875
	04 MERCANTILE - HIGH	150,454	874,420	0.514	0.803	0.786
	05 MERCANTILE - MEDIUM	171,116	844,859	0.860	0.944	0.924
	06 MERCANTILE - LOW	92,340	413,357	1.153	1.041	1.019
	08 INSTITUTIONAL - HIC	18	153	0.000	0.895	0.876
	11 INDUST-PROC - LOW	723	3,147	0.000	0.894	0.875
	12 SERVICE - HIGH	9,864	49,340	0.164	0.892	0.873
	13 SERVICE - LOW	8,430	46,432	2.546	1.195	1.169
	14 CONTRACTORS	2,701	13,449	0.327	0.925	0.905
	TOTAL*	1,323,267	6,585,413	0.791	0.863	0.845
35 MULTILINE INSTITUTIONAL	01 BUILDINGS	442,339	1,980,978	1.368	1.214	1.188
	03 OFFICES	-	90	0.000	1.000	1.000
	04 MERCANTILE - HIGH	796	4,409	0.000	0.893	0.874
	08 INSTITUTIONAL - HIC	148,936	792,832	0.927	0.971	0.950
	09 INSTITUTIONAL - LOW	187,128	1,078,815	1.582	1.260	1.233
	12 SERVICE - HIGH	1,422	5,783	0.000	0.892	0.873
	13 SERVICE - LOW	2,990	9,386	0.000	0.891	0.872
	14 CONTRACTORS	1,318	7,570	0.000	0.892	0.873
	TOTAL*	784,929	3,879,863	1.324	1.176	1.151
36 MULTILINE SERVICES	01 BUILDINGS	445,097	2,374,532	1.412	1.383	1.353
	03 OFFICES	1,601	5,526	0.000	0.686	0.671
	04 MERCANTILE - HIGH	8,075	45,829	0.045	0.544	0.532
	05 MERCANTILE - MEDIUM	644	1,067	0.000	0.709	0.694
	06 MERCANTILE - LOW	950	3,607	0.174	0.717	0.702
	08 INSTITUTIONAL - HIC	14,969	74,039	0.000	0.456	0.446
	09 INSTITUTIONAL - LOW	17,739	91,420	0.000	0.420	0.411
	10 INDUST-PROC - HIGH	3,019	8,732	0.000	0.670	0.656
	11 INDUST-PROC - LOW	273	2,499	0.000	0.701	0.686
	12 SERVICE - HIGH	143,291	796,894	0.804	0.803	0.786
	13 SERVICE - LOW	89,699	473,030	1.104	1.044	1.022
	14 CONTRACTORS	7,722	34,944	0.000	0.564	0.552
	TOTAL*	733,079	3,912,119	1.150	1.162	1.137

INSURANCE SERVICES OFFICE, INC.

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

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	(5)
		ACCIDENT YEAR ENDING 06/30/18 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	CREDIBILITY WEIGHTED EXPERIENCE RATIO	CREDIBILITY WEIGHTED RELATIVITY
37 MULTILINE INDUST/PROC	01 BUILDINGS	437,592	2,266,220	0.362	0.383	0.375
	03 OFFICES	146	868	0.000	0.710	0.695
	04 MERCANTILE - HIGH	186	1,479	0.000	0.707	0.692
	10 INDUST-PROC - HIGH	116,527	641,437	0.781	0.783	0.766
	11 INDUST-PROC - LOW	232,815	1,318,486	0.606	0.621	0.608
	12 SERVICE - HIGH	295	1,992	0.000	0.704	0.689
	13 SERVICE - LOW	-	85	0.000	1.000	1.000
	14 CONTRACTORS	454	2,106	0.000	0.703	0.688
	TOTAL*	788,015	4,232,673	0.496	0.513	0.502
38 MULTILINE CONTRACTORS	01 BUILDINGS	147,452	896,329	0.741	0.747	0.731
	03 OFFICES	4,491	26,651	0.792	0.794	0.777
	04 MERCANTILE - HIGH	243	1,501	24.601	3.408	3.335
	05 MERCANTILE - MEDIUM	-	230	0.000	1.000	1.000
	08 INSTITUTIONAL - HIC	516	1,512	0.000	0.707	0.692
	11 INDUST-PROC - LOW	2,392	11,534	0.000	0.657	0.643
	12 SERVICE - HIGH	715	5,084	6.447	1.549	1.516
	13 SERVICE - LOW	422	2,379	2.269	0.965	0.944
	14 CONTRACTORS	186,000	1,061,182	0.614	0.632	0.618
TOTAL*	342,231	2,006,402	0.697	0.688	0.673	
TOTAL ALL TOPS*	01 BUILDINGS	3,690,031	19,630,888	1.122	1.094	1.071
	02 RES. APTS. AND COND	202,577	1,069,386	0.577	0.834	0.816
	03 OFFICES	164,820	1,022,794	0.507	0.903	0.884
	04 MERCANTILE - HIGH	234,315	1,408,064	0.545	0.834	0.817
	05 MERCANTILE - MEDIUM	197,982	980,446	0.778	0.948	0.928
	06 MERCANTILE - LOW	109,998	504,025	1.056	1.059	1.035
	07 MOTELS AND HOTELS	51,629	304,701	1.190	1.086	1.063
	08 INSTITUTIONAL - HIC	188,358	982,172	0.772	0.938	0.918
	09 INSTITUTIONAL - LOW	242,642	1,313,340	1.225	1.138	1.114
	10 INDUST-PROC - HIGH	140,453	739,928	0.803	0.864	0.845
	11 INDUST-PROC - LOW	280,899	1,639,431	0.545	0.653	0.639
	12 SERVICE - HIGH	173,069	964,389	1.361	1.073	1.050
	13 SERVICE - LOW	134,926	725,308	1.211	1.136	1.111
	14 CONTRACTORS	212,221	1,184,271	0.689	0.706	0.691
TOTAL*	6,023,920	32,469,143	1.005	1.022	1.000	

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

INSURANCE SERVICES OFFICE, INC.

OREGON

BASIC GROUP II RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ACCIDENT YEAR ENDING 06/30/18 AGGR. LOSS COSTS AT CURRENT IMPLICIT PMF	ACCIDENT YEARS 2009-2018 EXPER. RATIO AT CURRENT PMF A	FORMULA RELATIVITY (2)/ 1.167	CREDIBILITY C	CREDIBILITY WEIGHTED RELATIVITY	BALANCED FORMULA RELATIVITY	NORMALIZED FORMULA RELATIVITY	INDICATED CHANGE
	-----	-----	-----	-----	-----	-----	-----	-----
MONOLINE	339,995	1.6130	1.3820	0.0970	1.037	1.0370	1.0534	
MULTILINE	2,404,243	1.0760	0.9220	0.3370	0.974	0.9770	0.9925	
	-----	-----	-----	-----	-----	-----	-----	
COVERAGE	2,744,238	1.1670	1.0000			0.9844	1.0000	
MULTILINE TOP								
31 MOTEL/HOTEL	125,289	*****	*****	*****	*****	1.0500	1.0666	1.3%
32 APARTMENT	299,150	1.0310	0.8830	0.0710	0.992	0.9730	0.9884	-6.2%
33 OFFICE	107,230	0.4900	0.4200	0.0260	0.985	0.9660	0.9813	-6.8%
34 MERCANTILE	642,560	1.0730	0.9190	0.1160	0.991	0.9720	0.9874	-6.3%
35 INSTITUTIONAL	445,624	0.8920	0.7640	0.0880	0.979	0.9600	0.9752	-7.4%
36 SERVICES	449,816	1.0440	0.8950	0.0940	0.990	0.9710	0.9864	-6.4%
37 INDUST/PROCESS	227,787	1.9360	1.6590	0.0480	1.032	1.0120	1.0280	-2.4%
38 CONTRACTORS	106,787	0.8860	0.7590	0.0220	0.995	0.9760	0.9915	-5.9%
	-----	-----	-----	-----	-----	-----	-----	
	2,404,243	1.0760	0.9220		0.9930	0.9770	0.9930	

A - TOP 31 IMPLICIT PMF CAPPED AT 1.500.

FOR COLUMNS (2) THROUGH (5), MONOLINE INCLUDES TOPS 31 AT THESE CAPPED LEVELS AND MULTILINE EXCLUDES TOPS 31

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

INSURANCE SERVICES OFFICE, INC.

OREGON

COMMERCIAL I.M. RELATIVITY ANALYSIS

(1)	(2)	(3)	(4)	(5)
TOP	BALANCED RELATIVITY	CURRENT IPMF	INDICATED IPMF	SELECTED IPMF
10	1.000	0.850	0.910	0.910
3X & 7X	1.071			

CLASSIFICATION

150	0.922
191	1.085
192	0.77
220	0.771
221	0.736
234	1.226
235	1.069
240	0.77
241	0.695
327	0.738
328	0.913
340	0.629
341	0.738
342	0.733
343	0.748
403	0.63
451	0.928
452	0.761
453	0.794
454	0.7
460	0.485
482	0.876
510	0.646
514	0.612
530	0.627
534	0.738

INSURANCE SERVICES OFFICE, INC.

OREGON

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

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)
		2016 AGGREGATE LOSS COSTS	2012 - 2016 AGGREGATE LOSS COSTS	FIVE-YEAR EXP RATIO	RELATIVITY
MONOLINE 10	150	311,633	1,898,096	1.151	1.317
	191	5,446,492	15,816,054	1.032	1.181
	192	862,002	2,760,886	0.627	0.717
	220	5,112	87,903	5.716	6.540
	221	1,491	2,853	1.199	1.372
	234	5,224,155	20,144,072	0.600	0.686
	235	8,439,000	24,407,283	0.761	0.871
	240	928,183	3,685,254	0.656	0.751
	241	15,553	114,739	0.053	0.061
	327	18,917	91,546	0.000	0.000
	328	2,319,887	11,908,665	0.792	0.906
	340	40,688	87,993	0.000	0.000
	341	0	0	0.000	0.000
	342	19,188	65,375	0.555	0.635
	343	589	3,417	343.665	537.374
	403	1,600,852	5,771,545	0.345	0.395
	451	3,309,677	12,953,836	0.855	0.978
	452	34,702	137,467	1.628	1.863
	453	45,575	212,456	3.203	3.665
	454	164,836	745,300	0.734	0.840
	460	790,198	3,687,530	0.415	0.475
	482	839,364	2,841,134	0.986	1.128
	510	3,252	39,977	0.020	0.023
	514	446,469	1,612,361	0.339	0.388
	530	504,434	2,697,004	0.489	0.559
	534	0	0	0.000	0.000
	TOTAL#	31,372,249	111,772,746	0.785	0.898

INSURANCE SERVICES OFFICE, INC.

OREGON

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

TYPE OF POLICY	RATING GROUP	(1)	(2)	(3)	(4)
		2016 AGGREGATE LOSS COSTS	2012 - 2016 AGGREGATE LOSS COSTS	FIVE-YEAR EXP RATIO	RELATIVITY
MULTILINE ##	150	672,616	3,113,454	0.851	0.974
3X & 7X	191	563,797	2,525,777	0.829	0.949
	192	189,431	731,833	0.885	1.013
	220	6,015	26,632	1.634	1.870
	221	5,236	25,229	0.276	0.316
	234	11,834,095	49,066,751	1.244	1.423
	235	446,644	2,223,407	3.082	3.526
	240	10,883	56,101	2.123	2.429
	241	4,696	14,357	0.021	0.024
	327	2,748	17,618	0.000	0.000
	328	370	2,570	180.609	206.646
	340	30,664	123,865	0.017	0.019
	341	0	0	0.000	0.000
	342	5,681	28,532	0.000	0.000
	343	2,213	7,469	0.000	0.000
	403	448,230	2,257,894	0.791	0.905
	451	89,055	409,714	0.386	0.442
	452	35,584	193,026	0.573	0.656
	453	32,109	98,037	0.158	0.181
	454	213,119	919,292	0.293	0.335
	460	3,375,538	14,121,292	0.340	0.389
	482	119,090	710,788	0.742	0.849
	510	21,754	113,808	0.000	0.000
	514	59,004	281,029	0.078	0.089
	530	1,055,097	4,464,828	0.443	0.507
	534	0	0	0.000	0.000
	TOTAL#	19,223,669	81,533,303	1.019	1.166

INSURANCE SERVICES OFFICE, INC.

OREGON

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

TYPE OF POLICY TOTAL ALL TOPS#	RATING GROUP	(1)	(2)	(3)	(4)
		2016 AGGREGATE LOSS COSTS	2012 - 2016 AGGREGATE LOSS COSTS	FIVE-YEAR EXP RATIO	RELATIVITY
150		984,249	5,011,550	0.946	1.082
191		6,010,289	18,341,831	1.013	1.159
192		1,051,433	3,492,719	0.673	0.770
220		11,127	114,535	3.509	4.015
221		6,727	28,082	0.481	0.550
234		17,058,250	69,210,823	1.047	1.198
235		8,885,644	26,630,690	0.878	1.005
240		939,066	3,741,355	0.673	0.770
241		20,249	129,096	0.046	0.053
327		21,665	109,164	0.000	0.000
328		2,320,257	11,911,235	0.821	0.939
340		71,352	211,858	0.007	0.008
341		0	0	0.000	0.000
342		24,869	93,907	0.428	0.490
343		2,802	10,886	282.448	323.167
403		2,049,082	8,029,439	0.443	0.507
451		3,398,732	13,363,550	0.843	0.965
452		70,286	330,493	1.094	1.252
453		77,684	310,493	1.944	2.224
454		377,955	1,664,592	0.485	0.555
460		4,165,736	17,808,822	0.354	0.405
482		958,454	3,551,922	0.956	1.094
510		25,006	153,785	0.003	0.003
514		505,473	1,893,390	0.309	0.354
530		1,559,531	7,161,832	0.458	0.524
534		0	0	0.000	0.000
TOTAL#		50,595,918	193,306,049	0.874	1.000

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

REFLECTS CURRENT IPMF OF 0.850.

INSURANCE SERVICES OFFICE, INC.

OREGON
OWNERS, LANDLORDS AND TENANTS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1)	(2)	(3)	(4)	(5)
TYPE OF POLICY	BAILEY FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	0.763	0.197	0.948	0.950	
31	1.339	0.110	1.033	1.035	8.9%
32	1.216	0.094	1.019	1.021	7.5%
33	1.085	0.147	1.012	1.014	6.7%
34	1.202	0.196	1.037	1.039	9.4%
35	0.717	0.130	0.958	0.960	1.1%
36	1.126	0.116	1.014	1.016	6.9%
CLASS GROUP					
1	0.661	0.075	0.969	0.975	
2	0.912	0.153	0.986	0.992	
3	0.844	0.088	0.985	0.991	
4	1.320	0.030	1.008	1.014	
5	0.376	0.032	0.969	0.976	
6	0.690	0.080	0.971	0.977	
7	1.708	0.108	1.060	1.066	
8	1.965	0.039	1.027	1.033	
9	0.774	0.139	0.965	0.971	
10	1.494	0.128	1.053	1.059	
11	1.385	0.102	1.034	1.040	
12	0.862	0.204	0.970	0.976	
13	0.772	0.062	0.984	0.990	
16	0.288	0.013	0.984	0.991	
TERRITORY					
501	0.841	0.200	0.966	0.964	
502	1.093	0.331	1.030	1.027	

INSURANCE SERVICES OFFICE, INC.

OREGON

MANUFACTURERS AND CONTRACTORS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	(1)	(2)	(3)	(4)	(5)
	BAILEY FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	0.934	0.190	0.987	0.985	
33	1.594	0.042	1.020	1.017	3.2%
34	0.882	0.073	0.991	0.988	0.3%
35	1.550	0.021	1.009	1.007	2.2%
36	0.957	0.115	0.995	0.992	0.7%
37	0.877	0.101	0.987	0.984	-0.1%
38	1.162	0.209	1.032	1.029	4.5%
CLASS GROUP					
30	1.485	0.091	1.037	1.036	
31	1.318	0.157	1.044	1.044	
32	0.983	0.211	0.996	0.996	
33	0.730	0.072	0.978	0.977	
34	0.957	0.101	0.996	0.995	
35	0.781	0.044	0.989	0.989	
36	0.871	0.076	0.990	0.989	
37	0.266	0.041	0.947	0.948	
38	1.048	0.091	1.004	1.004	

INSURANCE SERVICES OFFICE, INC.

OREGON
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. 06/30/18 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	01 FOOD&BEV.(RETAIL)	\$77,521	\$285,122	0.338		17	
	02 RESTAURANTS	\$253,014	\$750,738	0.602		38	
	03 STORES	\$118,852	\$453,421	0.817		24	
	04 VENDING & RENTAL	\$17,676	\$73,669	1.38		6	
	05 FOOD & BEV. DIST.	\$65,749	\$228,171	0.234		6	
	06 NON-FOOD&BEV.DIST	\$86,881	\$503,950	0.974		81	
	07 CLUBS,AMSMT&SPRTS	\$250,729	\$1,185,582	1.279		88	
	08 HEALTH CARE FACIL	\$8,832	\$41,813	3.137		2	
	09 HOTELS AND MOTELS	\$458,597	\$1,750,853	0.789		89	
	10 SCHLS & CHURCHES	\$139,484	\$657,793	1.414		58	
	11 APARTMENTS	\$560,104	\$1,745,962	1.048		60	
	12 BUILDINGS&OFFICES	\$971,361	\$4,945,157	0.878		210	
	13 MISC. PREMISES	\$119,604	\$688,119	0.377		22	
	TOTAL *	\$3,128,404	\$13,310,350	0.892		701	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$752,629	\$3,738,576	1.261		218	
	TOTAL *	\$752,629	\$3,738,576	1.261		218	
32 MULT APARTMENT	11 APARTMENTS	\$476,253	\$2,356,447	2.055		129	
	12 BUILDINGS&OFFICES	\$146,541	\$514,956	0.685		30	
	TOTAL *	\$622,794	\$2,871,403	1.733		159	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$1,810,116	\$8,611,045	1.074		389	
	13 MISC. PREMISES	\$15,145	\$72,726	0.153		1	
	TOTAL *	\$1,825,261	\$8,683,771	1.066		390	
34 MULT MERCANTILE	01 FOOD&BEV.(RETAIL)	\$286,612	\$1,442,051	1.042		85	
	02 RESTAURANTS	\$1,199,864	\$5,460,899	1.315		382	
	03 STORES	\$379,933	\$1,578,735	1.361		98	
	04 VENDING & RENTAL	\$6,726	\$30,596	0		0	
	05 FOOD & BEV. DIST.	\$48,387	\$233,513	0.627		12	
	06 NON-FOOD&BEV.DIST	\$188,307	\$917,306	0.807		33	
	12 BUILDINGS&OFFICES	\$322,915	\$1,528,916	0.905		79	
	13 MISC. PREMISES	\$38	\$233	0		0	
	TOTAL *	\$2,432,782	\$11,192,249	1.179		689	

INSURANCE SERVICES OFFICE, INC.

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

TERRITORY ALL	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 06/30/18 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
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS	\$204,594	\$751,401	1.613		31	
	08 HEALTH CARE FACIL	\$80,883	\$449,262	1.574		26	
	10 SCHLS & CHURCHES	\$303,161	\$1,557,060	1.271		239	
	12 BUILDINGS&OFFICES	\$4,735	\$24,767	0.491		3	
	16 GOVT SUBDIVISIONS	\$33,399	\$220,857	0.202		3	
	TOTAL *	\$626,772	\$3,003,347	1.359		302	
36 MULT SERVICES	03 STORES	\$91,410	\$423,516	0.385		16	
	04 VENDING & RENTAL	\$23,722	\$113,286	2.027		10	
	07 CLUBS,AMSMT&SPRTS	\$398,591	\$1,718,355	2.511		92	
	08 HEALTH CARE FACIL	\$544	\$2,593	0		0	
	09 HOTELS AND MOTELS	\$365,028	\$1,056,581	0.946		41	
	10 SCHLS & CHURCHES	\$7,185	\$23,757	0		0	
	12 BUILDINGS&OFFICES	\$92,622	\$424,728	1.278		37	
	13 MISC. PREMISES	\$134,514	\$663,325	1.413		46	
	TOTAL *	\$1,113,616	\$4,426,141	1.561		242	
TOTAL ALL TOP	01 FOOD&BEV.(RETAIL)	\$364,133	\$1,727,173	0.892		102	
	02 RESTAURANTS	\$1,452,878	\$6,211,637	1.191		420	
	03 STORES	\$590,195	\$2,455,672	1.1		138	
	04 VENDING & RENTAL	\$48,124	\$217,551	1.506		16	
	05 FOOD & BEV. DIST.	\$114,136	\$461,684	0.4		18	
	06 NON-FOOD&BEV.DIST	\$275,188	\$1,421,256	0.86		114	
	07 CLUBS,AMSMT&SPRTS	\$853,914	\$3,655,338	1.934		211	
	08 HEALTH CARE FACIL	\$90,259	\$493,668	1.717		28	
	09 HOTELS AND MOTELS	\$1,576,254	\$6,546,010	1.051		348	
	10 SCHLS & CHURCHES	\$449,830	\$2,238,610	1.295		297	
	11 APARTMENTS	\$1,036,357	\$4,102,409	1.511		189	
	12 BUILDINGS&OFFICES	\$3,348,290	\$16,049,569	0.988		748	
	13 MISC. PREMISES	\$269,301	\$1,424,403	0.882		69	
	16 GOVT SUBDIVISIONS	\$33,399	\$220,857	0.202		3	
	TOTAL *	\$10,502,258	\$47,225,837	1.164		2,701	

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

INSURANCE SERVICES OFFICE, INC.

OREGON
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. 06/30/18 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	30 SERVICE	\$263,874	\$908,611	1.722	1.85	26	1.02
	31 LIGHT CONTRACTING	\$527,196	\$2,354,186	0.645	0.693	130	1.028
	32 MEDIUM CONTRACTING	\$2,396,491	\$10,971,441	0.823	0.884	340	0.981
	33 HEAVY CONTRACTING	\$545,272	\$2,162,157	0.87	0.935	32	0.962
	34 DEALER OR DISTRIB	\$266,604	\$1,112,279	1.381	1.483	36	0.98
	35 LGT. MANUFACTURER	\$131,165	\$768,254	0.424	0.456	11	0.974
	36 MED. MANUFACTURER	\$227,482	\$1,134,431	0.875	0.94	24	0.974
	37 HVY. MANUFACTURER	\$268,004	\$1,391,174	0.129	0.139	7	0.934
	38 MISC. OPERATION	\$362,300	\$1,636,046	0.872	0.937	46	0.989
	TOTAL *	\$4,988,388	\$22,438,579	0.845		652	
33 MULT OFFICE	31 LIGHT CONTRACTING	\$10,844	\$102,887	0.172	0.185	2	1.062
	32 MEDIUM CONTRACTING	\$1,926	\$9,869	0	0	0	1.013
	33 HEAVY CONTRACTING	\$76,559	\$312,757	1.098	1.179	13	0.994
	38 MISC. OPERATION	\$113,839	\$451,070	1.74	1.87	17	1.021
	TOTAL *	\$203,168	\$876,583	1.398		32	
34 MULT MERCANTILE	30 SERVICE	\$30,895	\$141,653	1.245	1.338	10	1.024
	32 MEDIUM CONTRACTING	\$32,133	\$122,414	0.414	0.444	10	0.985
	34 DEALER OR DISTRIB	\$454,195	\$2,008,867	0.705	0.757	59	0.984
	36 MED. MANUFACTURER	\$14,918	\$86,962	0	0	0	0.978
	38 MISC. OPERATION	\$48,153	\$176,927	2.086	2.242	16	0.992
	TOTAL *	\$580,294	\$2,536,823	0.814		95	
35 MULT INSTITUT.	31 LIGHT CONTRACTING	\$891	\$6,010	10.791	11.595	2	1.051
	32 MEDIUM CONTRACTING	\$24,850	\$145,770	1.099	1.181	6	1.003
	TOTAL *	\$25,741	\$151,780	1.435		8	
36 MULT SERVICES	30 SERVICE	\$22,557	\$117,183	3.595	3.863	17	1.028
	31 LIGHT CONTRACTING	\$120,734	\$851,000	1.317	1.415	56	1.036
	32 MEDIUM CONTRACTING	\$53,199	\$362,274	1.672	1.796	8	0.989
	33 HEAVY CONTRACTING	\$13,261	\$141,446	0.298	0.32	2	0.97
	34 DEALER OR DISTRIB	\$490,447	\$1,754,832	0.648	0.697	84	0.988
	36 MED. MANUFACTURER	\$7,552	\$55,614	0.639	0.686	2	0.982
	38 MISC. OPERATION	\$226,640	\$1,012,146	0.912	0.98	68	0.996
	TOTAL *	\$934,390	\$4,294,495	0.923		237	

INSURANCE SERVICES OFFICE, INC.

OREGON
 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. 06/30/18 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
37 MULT INDUST/PROC	31 LIGHT CONTRACTING	\$547	\$2,460	0	0	0	1.028
	32 MEDIUM CONTRACTING	\$620,119	\$3,062,602	0.775	0.833	46	0.981
	33 HEAVY CONTRACTING	\$34,225	\$125,168	0.178	0.191	4	0.962
	34 DEALER OR DISTRIB	\$27,465	\$143,955	0.439	0.471	5	0.98
	35 LGT. MANUFACTURER	\$206,744	\$910,592	0.8	0.859	24	0.973
	36 MED. MANUFACTURER	\$611,842	\$2,749,271	0.686	0.737	78	0.974
	37 HVY. MANUFACTURER	\$426,801	\$2,317,455	0.281	0.302	23	0.933
	38 MISC. OPERATION	\$7,569	\$30,736	0.235	0.252	2	0.988
	TOTAL *	\$1,935,312	\$9,342,239	0.623		182	
38 MULT CONTRACTORS	30 SERVICE	\$489,889	\$2,270,507	1.268	1.362	96	1.066
	31 LIGHT CONTRACTING	\$886,480	\$3,262,394	1.717	1.844	254	1.074
	32 MEDIUM CONTRACTING	\$2,094,491	\$9,664,011	1.098	1.18	394	1.025
	33 HEAVY CONTRACTING	\$465,423	\$2,262,552	0.552	0.593	43	1.006
	38 MISC. OPERATION	\$53,012	\$183,030	0.075	0.08	1	1.033
	TOTAL *	\$3,989,295	\$17,642,494	1.179		788	
TOTAL ALL TOP	30 SERVICE	\$807,215	\$3,437,954	1.48		149	
	31 LIGHT CONTRACTING	\$1,546,692	\$6,578,937	1.314		444	
	32 MEDIUM CONTRACTING	\$5,223,209	\$24,338,381	0.935		804	
	33 HEAVY CONTRACTING	\$1,134,740	\$5,004,080	0.728		94	
	34 DEALER OR DISTRIB	\$1,238,711	\$5,019,933	0.822		184	
	35 LGT. MANUFACTURER	\$337,909	\$1,678,846	0.654		35	
	36 MED. MANUFACTURER	\$861,794	\$4,026,278	0.724		104	
	37 HVY. MANUFACTURER	\$694,805	\$3,708,629	0.222		30	
	38 MISC. OPERATION	\$811,513	\$3,489,955	1.019		150	
TOTAL *	\$12,656,588	\$57,282,993	0.931		1,994		

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

INSURANCE SERVICES OFFICE, INC.

OREGON
PRODUCTS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1)	(2)	(3)	(4)	(5)
TYPE OF POLICY	BAILEY FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	0.988	0.373	0.996	0.996	
34	1.036	0.372	1.013	1.014	1.8%
36	1.005	0.187	1.001	1.002	0.6%
37	0.988	0.507	0.994	0.994	-0.2%
CLASS GROUP					
3	0.924	0.501	0.961	0.965	
4	1.048	0.407	1.019	1.024	
5	1.107	0.133	1.014	1.018	
6	1.007	0.320	1.002	1.006	
7	1.006	0.182	1.001	1.005	

NOTE: THE INDICATED CHANGES BY TOP WERE FURTHER ADJUSTED BY THE FOLLOWING DIFFERENTIALS: TOP 34: 0.972
TOP 36: 0.996
TOP 37: 1.006

INSURANCE SERVICES OFFICE, INC.

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

		(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2017 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2013 - 2017 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIVITY	NUMBER OF OCCURRENCES	BAL CELL RELATIVITY
TYPE OF POLICY	CLASS GROUP						
10 MONOLINE	03 MAN,DLR,DSTFD/DRG	18,227,491	79,500,211	0.856	0.869	1,461	0.961
	04 DLR,DST-NOTFD/DRG	9,616,743	42,155,667	1.119	1.136	640	1.019
	05 MAN.NTFD/DRG(LOW)	1,605,615	6,748,634	1.039	1.055	84	1.014
	06 MAN.NTFD/DRG(MED)	9,640,686	42,498,903	0.958	0.972	466	1.002
	07 MAN.NTFD/DRG(HGH)	2,568,561	11,286,663	1.018	1.033	129	1.001
	TOTAL *	41,659,096	182,190,078	0.957		2,780	
34 MULT MERCANTILE	03 MAN,DLR,DSTFD/DRG	5,166,155	25,851,441	1.131	1.148	791	0.979
	04 DLR,DST-NOTFD/DRG	29,011,611	140,165,685	1.037	1.052	1,972	1.038
	06 MAN.NTFD/DRG(MED)	7,625	57,567	0.000	0.000	-	1.020
	TOTAL *	34,185,391	166,074,693	1.051		2,763	
36 MULT SERVICES	04 DLR,DST-NOTFD/DRG	3,197,904	14,609,890	1.041	1.057	699	1.025
	06 MAN.NTFD/DRG(MED)	54,898	258,512	0.781	0.793	1	1.008
	TOTAL *	3,252,802	14,868,402	1.037		700	
37 MULT INDUST/PROC.	03 MAN,DLR,DSTFD/DRG	16,474,514	81,117,947	0.888	0.901	2,761	0.960
	05 MAN.NTFD/DRG(LOW)	4,070,679	20,897,437	1.092	1.108	269	1.012
	06 MAN.NTFD/DRG(MED)	28,248,516	131,744,418	0.987	1.002	1,582	1.001
	07 MAN.NTFD/DRG(HGH)	7,346,721	36,933,393	0.965	0.980	537	1.000
	TOTAL *	56,140,430	270,693,195	0.963		5,149	
TOTAL ALL TOF	03 MAN,DLR,DSTFD/DRG	39,868,160	186,469,599	0.905		5,013	
	04 DLR,DST-NOTFD/DRG	41,826,258	196,931,242	1.056		3,311	
	05 MAN.NTFD/DRG(LOW)	5,676,294	27,646,071	1.077		353	
	06 MAN.NTFD/DRG(MED)	37,951,725	174,559,400	0.979		2,049	
	07 MAN.NTFD/DRG(HGH)	9,915,282	48,220,056	0.979		666	
	TOTAL *	135,237,719	633,826,368	0.985		11,392	

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

INSURANCE SERVICES OFFICE, INC.

OREGON
LOCAL PRODUCTS/COMPLETED OPERATIONS
BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1)	(2)	(3)	(4)	(5)
TYPE OF POLICY	BAILEY FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY	INDICATED CHANGE
10	0.966	0.748	0.974	0.972	
34	0.964	0.540	0.980	0.977	0.5%
36	0.992	0.515	0.996	0.992	2.1%
37	0.964	0.137	0.995	0.992	2.1%
38	1.026	0.954	1.025	1.021	5.0%
CLASS GROUP					
1	0.916	0.549	0.953	0.948	
2	1.035	0.493	1.017	1.012	
11	1.102	0.352	1.035	1.029	
12	1.015	1.000	1.015	1.009	
13	0.793	0.264	0.941	0.935	

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

STATE	(1)	(2)	(3)	(4)
	BAILEY FORMULA RELATIVITY	CREDIBILITY CREDIBILITY	CREDIBILITY WEIGHTED RELATIVITY	BALANCED RELATIVITY
	1.422	0.386	1.146	1.145
	1.207	0.623	1.124	1.124
	1.428	0.229	1.085	1.085
	1.148	0.427	1.061	1.061
	1.417	0.160	1.057	1.057
	1.441	0.153	1.057	1.057
	1.212	0.263	1.052	1.052
	1.099	0.505	1.049	1.049
	1.138	0.345	1.046	1.046
	1.125	0.368	1.044	1.044
	1.194	0.231	1.042	1.042
	1.131	0.326	1.041	1.041
	1.176	0.239	1.040	1.039
	1.152	0.224	1.032	1.032
	1.067	0.435	1.029	1.029
	1.055	0.453	1.024	1.024
OREGON	1.261	0.100	1.023	1.023
	1.092	0.227	1.020	1.020
	1.051	0.369	1.018	1.018
	1.103	0.187	1.019	1.018
	1.093	0.192	1.017	1.017
	1.040	0.307	1.012	1.012
	1.021	0.449	1.010	1.009
	1.029	0.143	1.004	1.004
	1.004	0.494	1.002	1.002
	1.006	0.131	1.001	1.001
	0.999	0.377	1.000	0.999
	0.996	0.097	1.000	0.999
	0.995	0.402	0.998	0.998
	0.978	0.190	0.996	0.996
	0.967	0.458	0.985	0.985
	0.927	0.241	0.982	0.982
	0.941	0.349	0.979	0.979
	0.898	0.260	0.972	0.972
	0.894	0.285	0.969	0.969
	0.696	0.104	0.963	0.963
	0.791	0.160	0.963	0.963
	0.891	0.364	0.959	0.959
	0.761	0.154	0.959	0.959
	0.845	0.288	0.953	0.953
	0.722	0.158	0.950	0.950
	0.769	0.195	0.950	0.950
	0.909	0.547	0.949	0.949
	0.795	0.238	0.947	0.947
	0.513	0.084	0.945	0.945
	0.640	0.136	0.941	0.941
	0.815	0.308	0.939	0.939
	0.848	0.470	0.925	0.925
	0.758	0.321	0.915	0.915
	0.604	0.179	0.914	0.913
	0.818	0.527	0.899	0.899
	0.806	0.575	0.884	0.883

* Sorted by balanced relative change

INSURANCE SERVICES OFFICE, INC.

OREGON
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. 12/31/17 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2013-2017 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	\$16,584	\$51,965	3.262	3.018	4	0.902
	02 RET.STRS-NTFD/DRG	\$14,793	\$100,653	1.339	1.239	16	0.962
	11 COMP. OPS. (LOW)	\$96,226	\$422,219	0.613	0.567	9	0.979
	12 COMP. OPS. (MED)	\$2,319,016	\$9,569,211	0.756	0.7	133	0.96
	13 COMP. OPS. (HGH)	\$157,641	\$694,808	1.227	1.135	4	0.89
	TOTAL *	\$2,604,260	\$10,838,856	0.799		166	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	\$166,785	\$692,022	0.743	0.688	33	0.907
	02 RET.STRS-NTFD/DRG	\$108,994	\$429,632	1.492	1.38	20	0.968
	12 COMP. OPS. (MED)	\$38,734	\$178,340	2.615	2.42	6	0.966
	TOTAL *	\$314,513	\$1,299,994	1.233		59	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	\$13,751	\$49,083	0.642	0.594	5	0.921
	02 RET.STRS-NTFD/DRG	\$347,984	\$1,131,377	1.006	0.931	57	0.983
	11 COMP. OPS. (LOW)	\$38,581	\$198,107	0.162	0.15	1	1
	12 COMP. OPS. (MED)	\$148,079	\$524,818	1.747	1.617	11	0.981
	13 COMP. OPS. (HGH)	\$22,993	\$126,492	0.739	0.684	4	0.909
	TOTAL *	\$571,388	\$2,029,877	1.122		78	
37 MULT INDUST/PROC	01 RET.STRS-FOOD/DI	\$632	\$2,840	0	0	0	0.92
	11 COMP. OPS. (LOW)	\$1,386	\$7,847	0.011	0.01	1	0.999
	12 COMP. OPS. (MED)	\$72,358	\$377,231	2.32	2.147	7	0.98
	TOTAL *	\$74,376	\$387,918	2.258		8	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	\$232,056	\$970,075	1.09	1.009	20	1.029
	12 COMP. OPS. (MED)	\$4,131,569	\$18,355,404	1.137	1.052	331	1.009
	13 COMP. OPS. (HGH)	\$254,384	\$1,219,025	0.619	0.573	10	0.935
	TOTAL *	\$4,618,009	\$20,544,504	1.106		361	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	\$197,752	\$795,910	0.945		42	
	02 RET.STRS-NTFD/DRG	\$471,771	\$1,661,662	1.129		93	
	11 COMP. OPS. (LOW)	\$368,249	\$1,598,248	0.864		31	
	12 COMP. OPS. (MED)	\$6,709,756	\$29,005,004	1.04		488	
	13 COMP. OPS. (HGH)	\$435,018	\$2,040,325	0.846		18	
	TOTAL *	\$8,182,546	\$35,101,149	1.025		672	

* 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. 12/31/2017 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2013 - 2017 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	2,565,927	10,980,064	0.980		762	
	02 RET.STRS-NTFD/DRG	2,610,173	11,610,218	1.215		490	
	11 COMP. OPS. (LOW)	3,985,620	17,948,273	1.339		705	
	12 COMP. OPS. (MED)	81,183,051	360,572,009	1.070		6,178	
	13 COMP. OPS. (HGH)	7,740,701	39,136,832	0.707		280	
	TOTAL *	98,085,472	440,247,396	1.054		8,415	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	7,831,998	36,819,520	0.941		3,576	
	02 RET.STRS-NTFD/DRG	5,162,530	23,225,919	1.001		661	
	12 COMP. OPS. (MED)	2,015,614	9,977,474	1.199		139	
	TOTAL *	15,010,142	70,022,913	0.996		4,376	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	727,613	3,418,235	1.031		196	
	02 RET.STRS-NTFD/DRG	12,212,353	48,251,774	1.091		2,506	
	11 COMP. OPS. (LOW)	3,092,023	14,000,322	1.112		510	
	12 COMP. OPS. (MED)	4,435,477	20,928,020	0.944		693	
	13 COMP. OPS. (HGH)	989,025	5,060,530	1.199		87	
	TOTAL *	21,456,491	91,658,881	1.066		3,992	
37 MULT INDUST/PROC.	01 RET.STRS-FOOD/DRG	26,825	90,444	2.392		1	
	11 COMP. OPS. (LOW)	114,357	528,705	1.231		19	
	12 COMP. OPS. (MED)	3,455,498	16,903,775	1.021		263	
	13 COMP. OPS. (HGH)	40,479	307,358	0.581		0	
	TOTAL *	3,637,159	17,830,282	1.033		283	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	7,992,454	36,921,895	1.158		627	
	12 COMP. OPS. (MED)	139,682,161	659,850,085	1.123		12,364	
	13 COMP. OPS. (HGH)	14,266,724	66,209,562	0.927		683	
	TOTAL *	161,941,339	762,981,542	1.108		13,674	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	11,152,363	51,308,263	0.959		4,535	
	02 RET.STRS-NTFD/DRG	19,985,056	83,087,911	1.084		3,657	
	11 COMP. OPS. (LOW)	15,184,454	69,399,195	1.197		1,861	
	12 COMP. OPS. (MED)	230,771,801	1,068,231,363	1.100		19,637	
	13 COMP. OPS. (HGH)	23,036,929	110,714,282	0.864		1,050	
	TOTAL *	300,130,603	1,382,741,014	1.081		30,740	

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

COMMERCIAL PACKAGE POLICY

TABLE OF CONTENTS

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**

OREGON (36)

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	1.00	1.00
Contractors	.90	.91	.95	1.00
Industrial & Processing	.90	.76	.88	1.00
Institutional	.90	.94	1.00	1.00
Mercantile	.90	.86	.88	1.00
Motel/Hotel	.90	1.00	1.00	1.00
Office	.90	.92	.95	1.00
Service	.90	.97	1.00	1.00

Table 1. Package Modification Factors