



LOSS COSTS – IMPLEMENTATION

NOVEMBER 15, 2018

COMMERCIAL PROPERTY

LI-CF-2018-127

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

KEY MESSAGE

Revised advisory prospective loss costs reflecting a statewide loss cost level change of +5.4% to be implemented.

BACKGROUND

In circular [LI-CF-2018-105](#), we provided you with information about the Commercial Fire and Allied Lines loss cost level experience review.

ISO ACTION

We are implementing CF-2018-RLA1, which presents a review of Commercial Fire and Allied Lines loss cost experience. Refer to the attachment(s) for complete details.

SUPPLEMENTARY INFORMATION

We are including the following supplementary information:

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

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

EFFECTIVE DATE

We do not establish an effective date for Commercial Fire and Allied Lines loss cost revisions in this state. Each insurer that elects to utilize this revision is responsible for determining its own effective date.

IMPACT ON THE STATISTICAL REPORTING OF LOSS COST MULTIPLIER

For the purpose of reporting your company Loss Cost Multiplier under the CSP, as of May 1, 2019, the multiplier must be based on the relationship between your gross rates and the ISO advisory prospective loss costs contained in this circular.

COMPANY ACTION

ISO has not filed this revision.

You must independently determine the final rates you will use and the effective date of any rate change. You are NOT required to file anything with the Illinois Insurance Department and you must document your files in case the Insurance Department wishes to review the information at a later date. In all internal correspondence on this revision, you should refer to ISO Revision Designation Number CF-2018-RLA1, NOT this circular number.

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-2017-074](#) contains the ISO Guide To Renewals With Changed Conditions For Commercial Lines, which is available only as a guide to assist participating companies in complying with various conditional renewal statutes or regulations, for the major commercial lines of insurance serviced by ISO. The information in the Guide does not necessarily reflect all requirements or exceptions that may apply, and it is not intended as a substitute for your review of all applicable statutes and regulations concerning policyholder notification.

REVISION DISTRIBUTION INFORMATION

- **Manual And ISO Suite**

We will issue a Notice to Manualholders with an edition date of 5-19 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

- **ProMetrix**

Revised loss costs for specifically rated and class-rated properties contained in ProMetrix will be displayed as "Pending" beginning on December 17, 2018. On May 1, 2019, these loss costs will move to "Current" status. The previous "Current" becomes the most recent "Prior" and joins all previously displayed "Priors". With each subsequent loss cost revision, we will make an additional "Prior" available. Information in ProMetrix will distinguish between loss costs which reflect the effect of limit of insurance (LOI) relativities and pre-LOI loss costs.

- **Toll-free Telephone Service**

Revised loss costs for specifically rated and class-rated properties will be available by calling toll-free 1-800-444-4554 and requesting "Pending" from December 17, 2018 to May 1, 2019. On May 1, 2019, these loss costs will move to "Current" status. The previous "Current" becomes the most recent "Prior" and joins all previously displayed "Priors". With each subsequent loss cost revision, we will make an additional "Prior" available. Information available via toll-free telephone service will distinguish between loss costs which reflect the effect of limit of insurance (LOI) relativities and pre-LOI loss costs.

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

REFERENCE(S)

- [LI-CF-2018-105](#) (09/12/2018) Commercial Fire And Allied Lines Experience Level Indications Reviewed By ISO Staff
- [LI-CL-2017-074](#) (11/20/2017) Revised Lead Time Requirements Listing

ATTACHMENT(S)

- CF-2018-RLA1
- Actuarial Analysis Supplement
- Excel Workbook

FILES AVAILABLE FOR DOWNLOAD

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

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

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ACKNOWLEDGMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States" requires that an actuary issuing a Statement of Actuarial Opinion should include an acknowledgment with the opinion that he/she has met the qualification standards of the AAA. ISO considers this loss cost review 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.

XACTWARE SOLUTIONS, INC.

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

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

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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.

ILLINOIS

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

PURPOSE

This document:

- revises advisory prospective loss costs. These loss costs represent a +5.4% statewide change from the current ISO loss costs.
 - provides the analyses used to derive the prospective loss costs based on experience through calendar/accident year ending 09/30/2017, evaluated as of 12/31/2017.
-

DEFINITION
OF THE ISO
PROSPECTIVE
LOSS COST

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

LOSS COST
LEVEL
CHANGES

The statewide monoline prospective loss cost level changes are:

Coverage	Filed
Basic Group I	+5.8%
Basic Group II	+9.9%
Special Causes of Loss	-2.2%
Total	+5.4%

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

PRIOR ISO REVISIONS

The latest revisions in this state are:

<u>Reference Document or Filing</u>	CF-2017-RLA1	CF-2015-RLA1
<u>Rates/ Loss Costs</u>	Loss Costs	Loss Costs
<u>Dates Implemented</u>	5/1/2018	9/1/2016
<u>Changes</u>		
Basic Group I	-4.7%	+1.8%
Basic Group II	-2.2%	+16.0%
Special Causes of Loss	-6.6%	+2.0%
Total	-4.3%	+6.0%

HISTORICAL SOURCE DATA

The data used in this revision is:

- Voluntary experience for ISO reporting companies.
 - Five calendar/accident years ending 09/30/2017 for Basic Group I and Special Causes of Loss.
 - Ten calendar/accident years ending 09/30/2017 for Basic Group II.
-

DISTRIBUTION OF STATEWIDE MONOLINE LOSS COST CHANGES

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

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

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

TREND AND
OTHER
ADJUSTMENTS

Loss Trend

For trend purposes, the period of use for this revision is assumed to begin on 04/01/2019. To adjust the loss experience to the levels expected to prevail while the revised loss costs are in effect, trend factors have been applied to the historical incurred losses. These trend factors are based on:

- external cost indices published by the U.S. Government and information provided by Xactware Solutions, Inc.
- changes in multistate average claim costs through fourth quarter 2016.

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

<u>Coverage</u>	<u>Annual Rate of Change</u>
Buildings	2.7%
Contents	1.4%
Time Element	0.5%

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

<u>Line of Business</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Basic Group I	-0.4%	0.5%	2.5%
Basic Group II	0.5%	0.8%	2.2%
Special Causes of Loss	0.3%	0.5%	2.5%

This produces a total annual loss trend of:

<u>Line of Business</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
Basic Group I	2.3%	1.9%	3.0%
Basic Group II	3.2%	2.2%	2.7%
Special Causes of Loss	3.0%	1.9%	3.0%

Premium Trend

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

TREND AND
OTHER
ADJUSTMENTS
(cont'd)

In order to reflect this increase in revenue, ISO uses a premium trend procedure. The premium trend factors are based on observed changes in the annual amount of insurance written for BG I renewal policies for a group of selected companies. The selected annual trends in the amount of insurance are:

Buildings	2.0%
Contents	1.7%
Time Element	1.0%

Other Adjustments

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

TEN LARGEST
COMPANY
GROUPS IN
ISO DATA BASE

COMMERCIAL MULTIPERIL - NON-LIABILITY (ASLOB 51)

1. Travelers Indemnity Company
2. Country Mutual Insurance Company
3. Cincinnati Insurance Company
4. Hartford Accident and Indemnity Company
5. Tokio Marine Companies
6. Westfield Insurance Company
7. Zurich American Insurance Company
8. Firemans Fund Insurance Company
9. Allstate Insurance Company
10. Harleysville Insurance

Insurers are listed in descending order based on the percent of statewide written premium volume from Annual Statement Page 15 for year ending 12/31/2017 for Annual Statement Line of Business (ASLOB) 51, Commercial Multiperil - Non-liability.

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

SIZE OF ISO
DATA BASE

The market share of all insurers reporting to ISO in this state and included in the ratemaking experience underlying this review as measured by Annual Statement Page 15 written premium for year ending 12/31/2017 is:

Commercial Multi-peril - Non-liability (ASLOB 51) - 35.1%

COMPANY
DECISION

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

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

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

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**ILLINOIS
COMMERCIAL PROPERTY INSURANCE**

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ILLINOIS

TABLE 1 - SUMMARY OF MONOLINE PROSPECTIVE LOSS COST CHANGES (A)

COVERAGE	INDICATED	AGGREGATE LOSS COSTS AT CURRENT LEVEL
BASIC GROUP I	+5.8%	39,849,996
TERRITORY 01	+3.7%	
TERRITORY 08	+6.3%	
BASIC GROUP II	+9.9%	35,499,917
SPECIAL CAUSES OF LOSS	-2.2%	23,516,647
ALL COVERAGES COMBINED	+5.4%	98,866,560

TERRITORY DEFINITIONS

01 Chicago
08 Balance of State

(A) FOR TREND PURPOSES, THE PERIOD OF USE FOR THIS REVISION IS ASSUMED TO BEGIN ON 04/01/2019.

ILLINOIS

TABLE 2 - BASIC GROUP I PROSPECTIVE LOSS COST CHANGES
BY RATING GROUP AND TERRITORY (A)

RATING GROUP DESCRIPTION	Chicago	Balance of State (Illinois)
	INDICATED	INDICATED
01 APARTMENTS	+3.1%	+5.7%
02 OTHER HABITATIONAL	+1.7%	+4.2%
03 RESTAURANTS & BARS	+4.1%	+6.6%
04 OTHER MERCANTILE RISKS	+4.6%	+7.1%
05 PUBLIC BUILDINGS	+5.5%	+8.1%
06 CHURCHES	+5.1%	+7.7%
07 SCHOOLS	+4.0%	+6.5%
08 OFFICES AND BANKS	+2.1%	+4.6%
09 RECREATIONAL FACILITIES	+2.6%	+5.1%
10 HOTELS & MOTELS	+3.4%	+6.0%
11 HOSPITALS & NURSING HOMES	+4.9%	+7.5%
12 BLDGS UNDER CONSTRUCTION	+2.6%	+5.1%
13 MOTOR VEHICLE RISKS	+4.7%	+7.3%
14 OTHER NON-MANUFACTURING	+2.6%	+5.1%
15 STORAGE	+7.9%	+10.6%
17 FOOD MANUFACTURING	+4.3%	+6.8%
18 WOOD MANUFACTURING	+3.7%	+6.2%
19 WEARING APPAREL	+4.1%	+6.6%
20 CHEMICAL MANUFACTURING	+4.7%	+7.3%
21 METAL MANUFACTURING	+4.8%	+7.4%
22 OTHER MANUFACTURING	+0.5%	+3.0%
TOTAL	+3.7%	+6.3%

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

ILLINOIS

TABLE 3 - SPECIAL CAUSES OF LOSS PROSPECTIVE LOSS COST CHANGES BY CATEGORY

CATEGORY DESCRIPTION	ENTIRE STATE
-----	-----
01 BUILDINGS	+0.4%
02 RES. APTS. AND CONDOS	-14.9%
03 OFFICES	-11.3%
04 MERCANTILE - HIGH	-10.3%
05 MERCANTILE - MEDIUM	-6.8%
06 MERCANTILE - LOW	-1.4%
07 MOTELS AND HOTELS	-0.3%
08 INSTITUTIONAL - HIGH	-6.4%
09 INSTITUTIONAL - LOW	-25.3%
10 INDUST-PROC - HIGH	+1.1%
11 INDUST-PROC - LOW	+3.2%
12 SERVICE - HIGH	+8.6%
13 SERVICE - LOW	-7.2%
14 CONTRACTORS	+4.6%
STATEWIDE TOTAL	-2.2%

ILLINOIS
TABLE 4

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

(1)	(2)	(3)	(4)	
TYPE OF POLICY	BASIC GROUP I	BASIC GROUP II	SPECIAL CAUSES OF LOSS	
31	MOTEL/HOTEL	+5.9%	+9.9%	+0.3%
32	APARTMENT	+4.5%	+9.9%	-1.9%
33	OFFICE	+4.2%	+9.9%	-3.8%
34	MERCANTILE	+6.7%	+9.9%	-1.7%
35	INSTITUTIONAL	+6.5%	+9.9%	-5.1%
36	SERVICES	+5.7%	+9.9%	+1.4%
37	INDUST/PROCESSING	+5.8%	+9.9%	+1.3%
38	CONTRACTORS	+6.4%	+9.9%	+0.6%

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

ILLINOIS
COMMERCIAL PROPERTY INSURANCE

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OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

INTRODUCTION

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

STEP 1: DETERMINATION OF INDICATED STATEWIDE LOSS COST LEVEL CHANGE

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

STEP 2: DISTRIBUTION OF CHANGES

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

STEP 3: CALCULATION OF REVISED LOSS COSTS

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

COMMERCIAL PROPERTY INSURANCE
CALCULATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES IN TABLES 5, 6 AND 7

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

ILLINOIS
TABLE 5

STATEWIDE BASIC GROUP I
COVERAGE LOSS COST LEVEL EVALUATION

(1)	(2)	(3)	(4)	(5)
YEAR	AGGREGATE* LOSS COSTS	ADJUSTED** INCURRED LOSSES	EXPERIENCE RATIO (3) / (2)	WEIGHTS
2013	49,916,788	54,898,205	1.100	0.10
2014	48,269,558	63,484,077	1.315	0.15
2015	47,088,801	41,709,797	0.886	0.20
2016	43,048,129	46,154,438	1.072	0.25
2017	39,849,996	43,849,199	1.100	0.30

(6) WEIGHTED EXPERIENCE RATIO	= 1.082
(7) CREDIBILITY	= 0.454
(8) EXPECTED EXPERIENCE RATIO	= 1.004
(9) CREDIBILITY WEIGHTED EXPERIENCE RATIO (0.454 X 1.082) + (0.546 X 1.004)	= 1.039
(10) INDICATED COVERAGE LOSS COST CHANGE	= 1.039
	OR +3.9%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2019 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2020 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

ILLINOIS
TABLE 6

STATEWIDE BASIC GROUP II
COVERAGE LOSS COST LEVEL EVALUATION

(1) YEAR	(2) AGGREGATE* LOSS COSTS	(3) ADJUSTED** INCURRED LOSSES	(4) EXPERIENCE RATIO (3) / (2)
2008	42,919,920	43,921,549	1.023
2009	44,673,797	38,880,044	0.870
2010	44,688,847	38,425,007	0.860
2011	41,594,066	65,127,885	1.566
2012	40,557,168	55,928,069	1.379
2013	38,053,105	25,537,965	0.671
2014	38,455,132	59,474,696	1.547
2015	38,105,971	35,442,920	0.930
2016	35,759,072	35,757,268	1.000
2017	35,499,917	64,308,092	1.811

(5) WEIGHTED EXPERIENCE RATIO (EQUAL WEIGHTS)	= 1.166
(6) CREDIBILITY	= 0.671
(7) EXPECTED EXPERIENCE RATIO	= 1.011
(8) CREDIBILITY WEIGHTED EXPERIENCE RATIO (0.671 x 1.166) + (0.329 x 1.011)	= 1.115
(9) INDICATED COVERAGE LOSS COST CHANGE	= 1.115
	OR +11.5%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2019 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2020 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

ILLINOIS
TABLE 7

STATEWIDE SPECIAL CAUSES OF LOSS
COVERAGE LOSS COST LEVEL EVALUATION

(1) YEAR	(2) AGGREGATE* LOSS COSTS	(3) ADJUSTED** INCURRED LOSSES	(4) EXPERIENCE RATIO (3) / (2)	(5) WEIGHTS
2013	25,708,961	24,570,001	0.956	0.10
2014	25,699,175	36,124,470	1.406	0.15
2015	25,350,230	24,030,403	0.948	0.20
2016	23,793,742	15,968,868	0.671	0.25
2017	23,516,647	18,812,806	0.800	0.30

(6) WEIGHTED EXPERIENCE RATIO = 0.905

(7) CREDIBILITY = 0.458

(8) EXPECTED EXPERIENCE RATIO = 1.007

(9) CREDIBILITY WEIGHTED EXPERIENCE RATIO
(0.458 X 0.905) + (0.542 X 1.007) = 0.960

(10) INDICATED COVERAGE LOSS COST CHANGE = 0.960

OR -4.0%

* AGGREGATE LOSS COSTS ARE ADJUSTED TO CURRENT ISO LOSS COST LEVEL AND 10/01/2019 AMOUNT OF INSURANCE LEVELS.

** INCURRED LOSSES ARE ADJUSTED TO 04/01/2020 COST LEVELS INCLUDING LOSS DEVELOPMENT AND ALL LOSS ADJUSTMENT EXPENSES.

EXPLANATORY NOTES TO TABLES 5, 6 AND 7

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

COLUMN (1)

EXPERIENCE PERIOD

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

COLUMN (2)

AGGREGATE LOSS COSTS

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

Extension of Exposures Approach

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

On-Level Approach

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

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

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

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

COLUMN (2)
(cont'd)

Current IPMF and Prospective Amount of Insurance Levels

Premiums are also adjusted to prospective amount of insurance levels by exposure trend factors to reflect the impact of inflation on the average amount of insurance written (Table 24). After multiline premiums are brought to current ISO monoline manual level, they are further adjusted to implicit package modification factor (IPMF) level by the application of Commercial Package Policy (CPP) IPMF's which vary by the eight CPP types of policy. (Both the adjustments to prospective amount of insurance level and to current IPMF level are done on an aggregate basis.) For a more complete description of the IPMF's and the other premium adjustments, refer to Tables 18 through 20 in the supporting material.

COLUMN (3)

ADJUSTED INCURRED LOSSES

In order to assure the adequacy of the proposed loss cost level, incurred losses are adjusted to reflect the effect of inflation and other trends on loss costs. The adjustment of past losses to prospective levels is accomplished on an individual loss basis by application of current cost factors, loss projection factors and loss trend adjustments (Tables 21 through 23). In addition to adjusting losses to prospective cost level, the effect of inflation on the deductible portion of the loss incurred is reflected.

For each subline, incurred losses are further adjusted by an excess loss procedure which smoothes fluctuations due to large loss occurrences. The procedure removes any losses determined to be excess from the total incurred losses, resulting in normal incurred losses. These normal incurred losses (total - excess) are then multiplied by excess loss factors to calculate adjusted incurred losses (Tables 29 through 32). The resulting adjusted incurred losses are then developed to their ultimate settlement value and loaded by a factor to include all loss adjustment expenses. Loss development factors can be found on Table 28, and loss adjustment expense factors on Table 41. Where appropriate, certain reported data elements have been adjusted prior to being used in the calculations.

COLUMN (4)

EXPERIENCE RATIO

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

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

COLUMN (5) - BG I, SCL WEIGHTS

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

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

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

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

The standards for 100% credibility are discussed in detail in Tables 33, 33A, and 34 for Basic Group I, Basic Group II, and Special Causes of Loss, respectively.

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

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

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

The credibility weighted experience ratio is a weighted average of the weighted experience ratio (line (6) for BG I and SCL; line (5) for BG II) and the expected experience ratio (line (8) for BG I and SCL; line (7) for BG II) using the credibility factor and its complement as respective weights. For more detailed information regarding the development of the credibility factors, refer to Tables 33, 33A, and 34.

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

The credibility weighted experience ratio yields the overall coverage loss cost level change for Basic Group I (see Table 5), Basic Group II (see Table 6), and Special Causes of Loss (see Table 7).

COMPOSITION OF THE RATEMAKING DATA BASE

DATA INCLUDED

BASIC GROUP I

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

BASIC GROUP II

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

SPECIAL CAUSES OF LOSS

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

NOTES ON DATA INCLUDED

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

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

COMPOSITION OF THE RATEMAKING DATA BASE (cont'd)

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

X indicates that experience is excluded.

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

OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

STEP 2 - DISTRIBUTION OF LOSS COST LEVEL CHANGES

OBJECTIVE

The objective of this procedure is to distribute the indicated statewide loss cost level change for Basic Group I, Basic Group II, and Special Causes of Loss among the various rating variables used in each subline. These procedures are used to answer the question: What percentage change for each rating variable must be made to the current ISO loss costs in order to achieve adequacy for the prospective conditions?

BASIC GROUP I

For Basic Group I, a consolidated simultaneous iterative procedure is used to calculate the type of policy, territory and rating group relativities. More detail on this procedure is given in Table 8. The type of policy relativities serve to price Commercial Package policies relative to monoline policies, via the Package Modification Factors (PMF), while the rating group and territory relativities serve to price the various rating groups and territories relative to one another.

The indicated monoline loss cost level changes shown on Table 2 are calculated for each rating group/territory combination by taking the product of the monoline type of policy relativity, the rating group relativity, the territory relativity and the statewide loss cost level change.

The overall monoline loss cost level change is a weighted average of the rating group/territory combination changes. In calculating this weighted average, the latest year aggregate monoline and multiline combined loss costs at current level are used as weights.

BASIC GROUP II

The purpose of the Basic Group II relativity analysis is to determine monoline loss cost level needs, to obtain marginal relativities displayed on Table 12 and to price CPP policies relative to monoline policies via the PMFs. Unlike the BG I and SCL relativity analyses, the BG II relativity analysis does not employ a simultaneous review procedure because the overall loss cost change is distributed across type of policy only. The indicated statewide monoline change is the product of the monoline type of policy relativity times the statewide loss cost level change.

OVERVIEW OF ISO ACTUARIAL PROCEDURES - COMMERCIAL PROPERTY

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

SPECIAL CAUSES
OF LOSS

For Special Causes of Loss, a simultaneous iterative procedure is used as for BG I to arrive at a set of type of policy and category relativities (as displayed on Table 9) that best represent the experience within each state. The type of policy relativities serve to price CPP policies relative to monoline policies via the PMFs, while the category relativities serve to price the various categories relative to one another.

The indicated monoline loss cost level changes are calculated for each category by taking the product of the monoline type of policy relativity, the category relativity and the statewide coverage loss cost change. See Table 9 for the monoline loss cost indications.

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

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TABLE 8 - BASIC GROUP I RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	STATEWIDE COVERAGE LOSS COST CHANGE OF 1.039 OR +3.9%
TOP	\$ LST SQ FORMULA RELATIVITY	CREDIBILITY Z	Z-WTD. RELATIVITY	BALANCED RELATIVITY	
10	1.079	0.221	1.017	1.018	
31	1.121	0.025	1.003	1.004	
32	1.064	0.285	1.018	1.019	
33	1.059	0.072	1.004	1.006	
34	0.971	0.289	0.992	0.993	
35	0.912	0.278	0.975	0.976	
36	1.020	0.226	1.004	1.006	
37	0.974	0.265	0.993	0.994	
38	0.908	0.048	0.995	0.997	

RATING GROUP					(5) INDICATED MONOLINE LOSS COST LEVEL LEVEL CHANGE
01	0.982	0.427	0.992	0.994	+4.8
02	0.921	0.273	0.978	0.980	+3.7
03	1.003	0.146	1.000	1.003	+5.8
04	1.011	0.511	1.006	1.008	+6.7
05	1.457	0.039	1.015	1.017	+8.0
06	1.033	0.339	1.011	1.013	+7.1
07	1.000	0.187	1.000	1.002	+6.2
08	0.945	0.328	0.982	0.984	+4.1
09	0.943	0.222	0.987	0.989	+4.8
10	0.926	0.065	0.995	0.997	+5.9
11	1.132	0.074	1.009	1.011	+7.1
13	1.035	0.189	1.007	1.009	+6.9
14	0.946	0.246	0.986	0.989	+4.7
15	1.262	0.159	1.038	1.040	+10.1
17	1.033	0.094	1.003	1.005	+6.2
18	0.963	0.079	0.997	0.999	+6.0
19	1.028	0.017	1.000	1.003	+5.6
20	1.292	0.027	1.007	1.009	+7.1
21	1.026	0.309	1.008	1.010	+7.0
22	0.838	0.189	0.967	0.969	+2.7
STATEWIDE MONOLINE LOSS COST LEVEL CHANGE					+5.8%

ILLINOIS

TABLE 8 - BASIC GROUP I RELATIVITY ANALYSIS

TERRITORY	(1) \$ LST SQ FORMULA RELATIVITY	(2) CREDIBILITY Z	(3) Z-WTD. RELATIVITY	(4) BALANCED RELATIVITY
Chicago	0.961	0.437	0.983	0.981
Balance of State (Illinois)	1.009	0.771	1.007	1.005

TERRITORY	(5) INDICATED MONOLINE LOSS COST LEVEL CHANGE
Chicago	+3.7
Balance of State (Illinois)	+6.3

LOSS COST CHANGES BY INDIVIDUAL TERRITORY AND RATING GROUP ARE SHOWN ON TABLE 2.

ILLINOIS

TABLE 8 - BASIC GROUP I RELATIVITY ANALYSIS

EXAMPLE OF AN INDIVIDUAL LOSS COST CHANGE CALCULATION
FOR Chicago

STATEWIDE COVERAGE LOSS COST LEVEL CHANGE	=	+3.9%
TERRITORIAL RELATIVITY	=	0.981
MONOLINE (TOP 10) RELATIVITY	=	1.018
RATING GROUP 01 RELATIVITY	=	0.994

INDICATED MONOLINE LOSS COST LEVEL CHANGE FOR RATING GROUP 01

$$= 1.039 \quad \times \quad 0.981 \quad \times \quad 1.018 \quad \times \quad 0.994 \quad = \quad 1.031$$

OR +3.1%

ILLINOIS

TABLE 8 - CALCULATION OF INDICATED TERRITORIAL MULTIPLIERS

(1)	(2)	(3)	(4)
TERRITORY	TERRITORY RELATIVITY	OFF-BALANCE FACTOR	CURRENT TERRITORIAL MULTIPLIER
Chicago	0.981	1.000	1.600
Balance of State (Illinois)	1.005	1.000	1.000

(5)	
INDICATED TERRITORIAL MULTIPLIER ((2)X(3)X(4) / (1.005 X 1.000))	
TERRITORY	
Chicago	1.562
Balance of State (Illinois)	1.000

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TABLE 9 - SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

	(1)	(2)	(3)	(4)	STATEWIDE COVERAGE LOSS COST CHANGE OF 0.960 OR -4.0%
TOP	\$ LST SQ FORMULA RELATIVITY	CREDIBILITY Z	Z-WTD. RELATIVITY	BALANCED RELATIVITY	
10	1.056	0.229	1.013	1.020	
31	1.066	0.023	1.001	1.009	
32	1.002	0.263	1.001	1.008	
33	1.068	0.132	1.009	1.016	
34	1.158	0.350	1.053	1.061	
35	0.864	0.488	0.931	0.938	
36	1.376	0.273	1.091	1.099	
37	0.731	0.229	0.931	0.938	
38	0.556	0.097	0.945	0.952	

CATEGORY					(5) INDICATED MONOLINE LOSS COST LEVEL CHANGE
01	1.035	0.842	1.029	1.025	+0.4
02	0.345	0.128	0.873	0.869	-14.9
03	0.588	0.178	0.910	0.906	-11.3
04	0.673	0.213	0.919	0.916	-10.3
05	0.724	0.139	0.956	0.952	-6.8
06	1.154	0.077	1.011	1.007	-1.4
07	5.224	0.013	1.022	1.018	-0.3
08	0.913	0.452	0.960	0.956	-6.4
09	0.344	0.250	0.766	0.763	-25.3
10	2.584	0.037	1.036	1.032	+1.1
11	1.269	0.236	1.058	1.054	+3.2
12	1.591	0.231	1.113	1.109	+8.6
13	0.632	0.107	0.952	0.948	-7.2
14	2.048	0.097	1.072	1.068	+4.6

OVERALL MONOLINE LOSS COST LEVEL CHANGE					-2.2%

ILLINOIS

TABLE 9 - SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

EXAMPLE OF A LOSS COST CHANGE CALCULATION

STATEWIDE COVERAGE LOSS COST LEVEL CHANGE = -4.0%

MONOLINE (TOP 10) RELATIVITY = 1.020

CATEGORY 01 RELATIVITY = 1.025

INDICATED MONOLINE LOSS COST LEVEL CHANGE FOR CATEGORY 01

= 0.960 X 1.020 X 1.025 = 1.004
OR +0.4%

EXPLANATORY NOTES TO TABLES 8 AND 9

BASIC GROUP I AND SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS

INTRODUCTION

The explanations which follow clarify Tables 8 and 9, the Basic Group I relativity analysis and the Special Causes of Loss relativity analysis, respectively. The purpose of these analyses is to:

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

COLUMN (1)

LEAST SQUARES FORMULA RELATIVITIES

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

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

EXPLANATORY NOTES TO TABLES 8 AND 9 (cont'd)

COLUMN (1)
(Cont'd)

The procedure follows an iterative technique to determine a set of marginal relativities by rating variable that is a best fit to the individual cell relativities, with each cell being defined as the cross-section of specific values of each rating variable. The process uses the relativity of the five year experience ratios by rating cell to the overall statewide experience ratio and the latest year aggregate loss costs for each rating cell. (This experience is shown in Table 10 for Basic Group I and Table 11 for Special Causes of Loss.) Specifically, the iteration procedure uses the following formulas:

BASIC GROUP I:

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

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

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

SPECIAL CAUSES OF LOSS:

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

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

EXPLANATORY NOTES TO TABLES 8 AND 9 (cont'd)

COLUMN (1)
(cont'd)

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

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

COLUMN (2)

CREDIBILITY

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

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

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

EXPLANATORY NOTES TO TABLES 8 AND 9 (cont'd)

COLUMN (3)

CREDIBILITY-WEIGHTED RELATIVITIES

Credibility-weighted relativities are calculated based on the formula

$$W = R^Z,$$

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

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

COLUMN (4)

BALANCED RELATIVITIES

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

COLUMN (5)

INDICATED MONOLINE LOSS COST LEVEL CHANGE

For Basic Group I, the indicated monoline loss cost changes are calculated for each rating group and territory by taking the product of the monoline type of policy (TOP 10) relativity, the territory relativity, the rating group relativity and the statewide loss cost level change. (An example of such a calculation appears on Table 8.)

The indicated monoline loss cost changes by rating group shown in Table 8 of this analysis are the aggregate loss cost weighted averages of the monoline loss cost changes for the rating group across all territories.

EXPLANATORY NOTES TO TABLES 8 AND 9 (cont'd)

COLUMN (5)
(cont'd)

Similarly, the indicated monoline loss cost changes by territory shown on the second page are aggregate loss cost-weighted averages of the monoline loss cost changes for the territory across all rating groups. The indicated overall statewide monoline loss cost level change shown at the bottom of the first page of Table 8 is the aggregate loss cost-weighted average of the individual rating group changes across all territories.

For Special Causes of Loss, the indicated monoline loss cost changes are calculated for each category by taking the product of the monoline type of policy (TOP 10) relativity, the category relativity, and the statewide loss cost level change. (An example of such a calculation is included in Table 9.) The indicated overall statewide loss cost level change shown at the bottom of Table 9 is the aggregate loss cost-weighted average of the individual category changes.

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

MULTILINE
CONSIDERATIONS

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

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

For each CPP type of policy, the indicated IPMF is subject to a minimum value of 0.50 and a maximum value of 1.50. If an indicated IPMF falls outside one of those limits, it is capped at that amount, the loss costs for that type of policy are adjusted to the capped IPMF level, and the entire relativity review as described above is re-performed to take this into account. If an IPMF has been capped, it is so noted at the bottom of Table 8 and Table 9.

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

Chicago

ILLINOIS
 BASIC GROUP I RELATIVITY ANALYSIS
 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
10 MONOLINE	01 APARTMENTS	211,546	814,818	0.708	0.662	0.605
	02 OTHER HABITATIONAL	14,882	75,326	0.000	0.554	0.506
	03 RESTAURANTS & BARS	23,177	68,257	0.000	0.554	0.506
	04 OTHER MERCANTILE RS	165,799	800,220	0.154	0.567	0.518
	06 CHURCHES	14,671	79,759	0.000	0.553	0.505
	07 SCHOOLS	25,207	91,922	0.072	0.564	0.516
	08 OFFICES AND BANKS	97,958	538,237	0.045	0.552	0.505
	09 REC. FACILITIES	33,115	161,882	0.715	0.662	0.605
	10 HOTELS AND MOTELS	695	711	0.000	0.555	0.507
	11 HOSPITALS/NURS HOME	1,100	11,782	6.644	1.554	1.420
	13 MOTOR VEHICLE RISKS	30,338	154,456	0.000	0.552	0.505
	14 OTHER NON-MANUF.	281,656	1,318,473	0.413	0.608	0.556
	15 STORAGE	57,543	292,572	5.847	1.475	1.348
	17 FOOD MANUFACTURING	6,549	34,966	0.000	0.554	0.506
	18 WOOD MANUFACTURING	5,069	65,858	0.000	0.554	0.506
	19 WEARING APPAREL	6,346	40,599	0.000	0.554	0.506
	20 CHEM. MANUFACTURING	1,053	6,856	0.000	0.555	0.507
	21 METAL MANUFACTURING	49,930	239,409	0.000	0.550	0.503
	22 OTHER MANUFACTURING	22,316	78,305	0.035	0.559	0.511
	TOTAL*	1,048,950	4,874,392	0.635	0.647	0.592
31 MULTILINE	10 HOTELS AND MOTELS	23,851	108,466	0.245	0.817	0.747
MOTEL/HOTEL	TOTAL*	23,851	108,466	0.245	0.817	0.747
32 MULTILINE	01 APARTMENTS	1,432,876	8,383,231	0.938	0.942	0.861
APARTMENT	02 OTHER HABITATIONAL	325,631	1,921,768	0.419	0.657	0.601
	TOTAL*	1,758,507	10,304,999	0.842	0.889	0.813
33 MULTILINE	08 OFFICES AND BANKS	226,544	1,257,708	0.288	0.642	0.587
OFFICE	TOTAL*	226,544	1,257,708	0.288	0.642	0.587
34 MULTILINE	03 RESTAURANTS & BARS	308,679	1,792,585	1.853	1.446	1.322
MERCANTILE	04 OTHER MERCANTILE RS	924,303	5,921,028	1.158	1.114	1.018
	08 OFFICES AND BANKS	28,526	217,069	0.151	0.768	0.702
	13 MOTOR VEHICLE RISKS	29,235	120,877	0.000	0.764	0.698
	14 OTHER NON-MANUF.	24,085	174,534	1.240	1.021	0.933
	15 STORAGE	139,934	829,800	0.080	0.611	0.559
	TOTAL*	1,454,762	9,055,893	1.160	1.121	1.024

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 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
35 MULTILINE	02 OTHER HABITATIONAL	8,375	63,559	15.232	3.564	3.258
INSTITUTIONAL	05 PUBLIC BUILDINGS	19,037	122,543	0.066	0.777	0.710
	06 CHURCHES	784,124	4,117,583	1.242	1.161	1.061
	07 SCHOOLS	197,104	1,020,743	0.764	0.875	0.800
	08 OFFICES AND BANKS	246,330	1,220,371	0.493	0.742	0.678
	09 REC. FACILITIES	59,745	379,658	0.008	0.687	0.628
	11 HOSPITALS/NURS HOME	79,005	315,860	0.123	0.735	0.672
	13 MOTOR VEHICLE RISKS	3,801	19,222	0.000	0.800	0.731
	14 OTHER NON-MANUF.	47,711	243,089	0.058	0.738	0.675
	TOTAL*	1,445,232	7,502,628	0.960	1.002	0.916
36 MULTILINE	03 RESTAURANTS & BARS	25,181	154,254	0.000	1.322	1.208
SERVICES	04 OTHER MERCANTILE RS	112,124	450,466	0.000	1.119	1.023
	08 OFFICES AND BANKS	99,498	657,118	4.898	2.961	2.707
	09 REC. FACILITIES	230,565	1,068,201	0.858	1.272	1.163
	13 MOTOR VEHICLE RISKS	141,847	873,976	1.678	1.679	1.535
	14 OTHER NON-MANUF.	101,589	550,772	4.845	2.840	2.596
	15 STORAGE	31,652	208,025	0.195	1.326	1.212
	21 METAL MANUFACTURING	2,288	11,088	0.000	1.450	1.325
	22 OTHER MANUFACTURING	24,947	175,193	0.159	1.341	1.226
	TOTAL*	769,691	4,149,093	1.852	1.757	1.606
37 MULTILINE	04 OTHER MERCANTILE RS	79,058	335,562	0.020	1.196	1.093
INDUST/PROCESS	08 OFFICES AND BANKS	12,140	76,339	0.251	1.432	1.309
	13 MOTOR VEHICLE RISKS	0	22,115	0.000	1.439	1.315
	14 OTHER NON-MANUF.	20,138	86,342	3.046	1.923	1.758
	15 STORAGE	24,963	160,400	0.000	1.317	1.204
	17 FOOD MANUFACTURING	142,094	1,202,672	0.728	1.184	1.082
	18 WOOD MANUFACTURING	43,914	267,844	0.000	1.236	1.130
	19 WEARING APPAREL	43,416	198,790	1.086	1.541	1.409
	20 CHEM. MANUFACTURING	14,587	71,033	0.000	1.393	1.273
	21 METAL MANUFACTURING	328,248	1,891,783	3.311	2.689	2.458
	22 OTHER MANUFACTURING	150,081	698,736	0.091	1.029	0.941
	TOTAL*	858,639	5,011,616	1.534	1.782	1.629

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 BASIC GROUP I RELATIVITY ANALYSIS
 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
38 MULTILINE	04 OTHER MERCANTILE RS	49,443	273,942	0.052	1.246	1.139
CONTRACTORS	08 OFFICES AND BANKS	17,953	84,230	0.000	1.382	1.263
	14 OTHER NON-MANUF.	8,054	43,207	0.000	1.419	1.297
	TOTAL*	75,450	401,379	0.034	1.297	1.185
TOTAL ALL TOPS*	01 APARTMENTS	1,644,422	9,198,049	0.908	0.906	0.828
	02 OTHER HABITATIONAL	348,888	2,060,653	0.757	0.722	0.660
	03 RESTAURANTS & BARS	357,037	2,015,096	1.602	1.379	1.261
	04 OTHER MERCANTILE RS	1,330,727	7,781,218	0.827	1.056	0.965
	05 PUBLIC BUILDINGS	19,037	122,527	0.066	0.777	0.710
	06 CHURCHES	798,795	4,197,342	1.219	1.150	1.051
	07 SCHOOLS	222,311	1,112,665	0.686	0.840	0.768
	08 OFFICES AND BANKS	728,949	4,051,072	0.941	1.017	0.929
	09 REC. FACILITIES	323,425	1,609,741	0.686	1.102	1.007
	10 HOTELS AND MOTELS	24,546	109,177	0.238	0.809	0.740
	11 HOSPITALS/NURS HOME	80,105	327,642	0.213	0.747	0.682
	13 MOTOR VEHICLE RISKS	205,221	1,190,646	1.160	1.366	1.248
	14 OTHER NON-MANUF.	483,233	2,416,417	1.454	1.179	1.078
	15 STORAGE	254,092	1,490,797	1.392	0.965	0.882
	17 FOOD MANUFACTURING	148,643	1,237,638	0.696	1.156	1.057
	18 WOOD MANUFACTURING	48,983	333,702	0.000	1.166	1.065
	19 WEARING APPAREL	49,762	239,389	0.948	1.415	1.294
	20 CHEM. MANUFACTURING	15,640	77,889	0.000	1.337	1.222
	21 METAL MANUFACTURING	380,466	2,142,280	2.857	2.401	2.195
	22 OTHER MANUFACTURING	197,344	952,234	0.093	1.015	0.928
	TOTAL*	7,661,626	42,666,174	1.049	1.105	1.010

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

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 BASIC GROUP I RELATIVITY ANALYSIS
 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
10 MONOLINE	01 APARTMENTS	337,815	2,228,569	1.599	1.286	1.176
	02 OTHER HABITATIONAL	295,786	1,648,788	0.676	1.126	1.029
	03 RESTAURANTS & BARS	79,378	409,237	1.223	1.219	1.114
	04 OTHER MERCANTILE RS	870,508	4,684,010	1.429	1.262	1.154
	05 PUBLIC BUILDINGS	59,622	401,563	0.423	1.095	1.001
	06 CHURCHES	39,493	235,274	4.564	1.730	1.581
	07 SCHOOLS	29,570	190,919	6.980	2.097	1.917
	08 OFFICES AND BANKS	366,331	1,967,172	0.810	1.147	1.048
	09 REC. FACILITIES	257,343	1,312,401	2.142	1.372	1.254
	10 HOTELS AND MOTELS	44,311	235,771	0.276	1.074	0.982
	11 HOSPITALS/NURS HOME	82,556	749,400	1.576	1.275	1.165
	13 MOTOR VEHICLE RISKS	179,434	958,947	4.094	1.684	1.539
	14 OTHER NON-MANUF.	838,082	4,300,802	0.696	1.113	1.017
	15 STORAGE	239,606	1,206,644	0.807	1.150	1.051
	17 FOOD MANUFACTURING	41,731	258,270	0.000	1.031	0.942
	18 WOOD MANUFACTURING	37,059	226,254	0.003	1.032	0.943
	19 WEARING APPAREL	2,402	9,337	0.000	1.035	0.946
	20 CHEM. MANUFACTURING	31,346	192,123	0.195	1.062	0.971
	21 METAL MANUFACTURING	293,915	1,514,819	0.345	1.071	0.979
	22 OTHER MANUFACTURING	118,313	757,696	0.079	1.036	0.947
	TOTAL*	4,244,601	23,487,996	1.204	1.213	1.109
31 MULTILINE MOTEL/HOTEL	10 HOTELS AND MOTELS	522,893	2,416,363	1.309	1.132	1.035
	TOTAL*	522,893	2,416,363	1.309	1.132	1.035
32 MULTILINE APARTMENT	01 APARTMENTS	2,811,858	18,377,390	1.321	1.175	1.074
	02 OTHER HABITATIONAL	1,335,168	11,229,224	1.079	1.087	0.994
	TOTAL*	4,147,026	29,606,614	1.243	1.146	1.048
33 MULTILINE OFFICE	08 OFFICES AND BANKS	1,361,936	6,550,246	1.139	1.102	1.007
	TOTAL*	1,361,936	6,550,246	1.139	1.102	1.007
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS	683,631	4,083,851	0.566	0.977	0.893
	04 OTHER MERCANTILE RS	3,708,358	20,909,939	1.021	1.063	0.972
	08 OFFICES AND BANKS	190,284	1,198,905	1.067	1.086	0.993
	13 MOTOR VEHICLE RISKS	415,735	1,823,353	0.930	1.060	0.969
	14 OTHER NON-MANUF.	165,786	863,217	0.907	1.059	0.968
	15 STORAGE	519,113	2,799,835	2.859	1.440	1.316
	TOTAL*	5,682,907	31,679,100	1.126	1.088	0.994

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TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL	14,798	90,203	0.000	0.916	0.837
	05 PUBLIC BUILDINGS	240,255	1,111,865	3.423	1.497	1.368
	06 CHURCHES	2,713,763	16,036,096	0.868	1.013	0.926
	07 SCHOOLS	1,378,133	7,923,764	0.728	0.995	0.910
	08 OFFICES AND BANKS	298,914	1,783,333	0.471	0.976	0.892
	09 REC. FACILITIES	127,019	717,402	0.078	0.919	0.840
	11 HOSPITALS/NURS HOME	473,265	2,115,532	1.337	1.137	1.039
	13 MOTOR VEHICLE RISKS	4,402	24,769	0.000	0.917	0.838
	14 OTHER NON-MANUF.	237,901	1,278,178	0.612	1.005	0.919
	TOTAL*	5,488,450	31,081,142	0.931	1.035	0.947
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	56,607	319,964	1.327	1.088	0.995
	04 OTHER MERCANTILE RS	479,814	2,574,586	1.152	1.068	0.976
	08 OFFICES AND BANKS	457,755	2,673,552	0.558	0.964	0.881
	09 REC. FACILITIES	1,505,414	7,743,753	0.995	1.036	0.947
	13 MOTOR VEHICLE RISKS	870,473	5,287,910	1.401	1.125	1.028
	14 OTHER NON-MANUF.	631,879	3,210,328	1.213	1.080	0.987
	15 STORAGE	397,084	1,798,707	3.507	1.445	1.321
	21 METAL MANUFACTURING	65,119	329,684	0.000	0.907	0.829
	22 OTHER MANUFACTURING	154,799	1,043,773	1.301	1.087	0.994
	TOTAL*	4,618,944	24,982,257	1.291	1.091	0.997
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	390,095	2,221,382	0.631	0.980	0.896
	08 OFFICES AND BANKS	61,862	486,654	0.906	1.030	0.941
	13 MOTOR VEHICLE RISKS	1,755	21,220	0.000	0.913	0.835
	14 OTHER NON-MANUF.	131,909	730,657	1.384	1.098	1.004
	15 STORAGE	59,705	246,001	0.000	0.909	0.831
	17 FOOD MANUFACTURING	425,609	2,654,406	1.245	1.084	0.991
	18 WOOD MANUFACTURING	490,762	2,890,856	0.886	1.021	0.933
	19 WEARING APPAREL	69,349	443,838	0.037	0.910	0.832
	20 CHEM. MANUFACTURING	152,102	839,820	3.409	1.392	1.272
	21 METAL MANUFACTURING	2,269,559	13,893,938	1.077	1.059	0.968
	22 OTHER MANUFACTURING	1,162,183	6,598,488	0.332	0.883	0.807
	TOTAL*	5,214,890	31,027,260	0.921	1.019	0.931

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 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
38 MULTILINE	04 OTHER MERCANTILE RS	702,033	3,579,686	0.759	0.995	0.910
CONTRACTORS	08 OFFICES AND BANKS	159,444	828,793	0.736	1.005	0.919
	14 OTHER NON-MANUF.	45,246	267,641	0.330	0.953	0.871
	TOTAL*	906,723	4,676,120	0.734	0.995	0.909
TOTAL ALL TOPS*	01 APARTMENTS	3,149,673	20,605,959	1.351	1.187	1.085
	02 OTHER HABITATIONAL	1,645,752	12,968,215	0.997	1.092	0.999
	03 RESTAURANTS & BARS	819,616	4,813,052	0.682	1.008	0.921
	04 OTHER MERCANTILE RS	6,150,808	33,969,603	1.034	1.079	0.986
	05 PUBLIC BUILDINGS	299,877	1,513,428	2.827	1.417	1.295
	06 CHURCHES	2,753,256	16,271,370	0.921	1.023	0.935
	07 SCHOOLS	1,407,703	8,114,683	0.859	1.018	0.931
	08 OFFICES AND BANKS	2,896,526	15,488,655	0.905	1.065	0.973
	09 REC. FACILITIES	1,889,776	9,773,556	1.090	1.074	0.982
	10 HOTELS AND MOTELS	567,204	2,652,134	1.228	1.128	1.031
	11 HOSPITALS/NURS HOME	555,821	2,864,932	1.373	1.157	1.058
	13 MOTOR VEHICLE RISKS	1,471,799	8,116,199	1.590	1.174	1.073
	14 OTHER NON-MANUF.	2,050,803	10,650,823	0.899	1.081	0.989
	15 STORAGE	1,215,508	6,051,187	2.526	1.359	1.242
	17 FOOD MANUFACTURING	467,340	2,912,676	1.134	1.079	0.987
	18 WOOD MANUFACTURING	527,821	3,117,110	0.824	1.022	0.934
	19 WEARING APPAREL	71,751	453,175	0.036	0.914	0.836
	20 CHEM. MANUFACTURING	183,448	1,031,943	2.860	1.335	1.221
	21 METAL MANUFACTURING	2,628,593	15,738,441	0.968	1.056	0.966
	22 OTHER MANUFACTURING	1,435,295	8,399,957	0.416	0.918	0.839
	TOTAL*	32,188,370	185,507,098	1.101	1.091	0.997

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

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 BASIC GROUP I RELATIVITY ANALYSIS
 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
10 MONOLINE	01 APARTMENTS	549,361	3,043,387	1.256	1.046	0.956
	02 OTHER HABITATIONAL	310,668	1,724,114	0.644	1.098	1.004
	03 RESTAURANTS & BARS	102,555	477,494	0.947	1.069	0.977
	04 OTHER MERCANTILE RS	1,036,307	5,484,230	1.225	1.150	1.052
	05 PUBLIC BUILDINGS	59,622	401,547	0.423	1.095	1.001
	06 CHURCHES	54,164	315,033	3.328	1.411	1.290
	07 SCHOOLS	54,777	282,841	3.801	1.391	1.272
	08 OFFICES AND BANKS	464,289	2,505,409	0.649	1.022	0.934
	09 REC. FACILITIES	290,458	1,474,283	1.979	1.291	1.180
	10 HOTELS AND MOTELS	45,006	236,482	0.272	1.066	0.974
	11 HOSPITALS/NURS HOME	83,656	761,182	1.643	1.279	1.169
	13 MOTOR VEHICLE RISKS	209,772	1,113,403	3.502	1.521	1.390
	14 OTHER NON-MANUF.	1,119,738	5,619,275	0.625	0.986	0.901
	15 STORAGE	297,149	1,499,216	1.783	1.213	1.109
	17 FOOD MANUFACTURING	48,280	293,236	0.000	0.967	0.883
	18 WOOD MANUFACTURING	42,128	292,112	0.003	0.975	0.891
	19 WEARING APPAREL	8,748	49,936	0.000	0.686	0.627
	20 CHEM. MANUFACTURING	32,399	198,979	0.189	1.046	0.956
	21 METAL MANUFACTURING	343,845	1,754,228	0.295	0.995	0.910
	22 OTHER MANUFACTURING	140,629	836,001	0.072	0.961	0.878
	TOTAL*	5,293,551	28,362,388	1.091	1.101	1.006
31 MULTILINE MOTEL/HOTEL	10 HOTELS AND MOTELS	546,744	2,524,829	1.263	1.118	1.022
	TOTAL*	546,744	2,524,829	1.263	1.118	1.022
32 MULTILINE APARTMENT	01 APARTMENTS	4,244,734	26,760,621	1.192	1.096	1.002
	02 OTHER HABITATIONAL	1,660,799	13,150,992	0.950	1.002	0.917
	TOTAL*	5,905,533	39,911,613	1.124	1.070	0.978
33 MULTILINE OFFICE	08 OFFICES AND BANKS	1,588,480	7,807,954	1.018	1.036	0.947
	TOTAL*	1,588,480	7,807,954	1.018	1.036	0.947
34 MULTILINE MERCANTILE	03 RESTAURANTS & BARS	992,310	5,876,436	0.966	1.123	1.026
	04 OTHER MERCANTILE RS	4,632,661	26,830,967	1.048	1.073	0.981
	08 OFFICES AND BANKS	218,810	1,415,974	0.948	1.044	0.955
	13 MOTOR VEHICLE RISKS	444,970	1,944,230	0.869	1.041	0.951
	14 OTHER NON-MANUF.	189,871	1,037,751	0.949	1.054	0.964
	15 STORAGE	659,047	3,629,635	2.269	1.264	1.155
	TOTAL*	7,137,669	40,734,993	1.133	1.094	1.000

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 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
35 MULTILINE INSTITUTIONAL	02 OTHER HABITATIONAL	23,173	153,762	5.505	1.873	1.712
	05 PUBLIC BUILDINGS	259,292	1,234,408	3.177	1.444	1.320
	06 CHURCHES	3,497,887	20,153,679	0.952	1.046	0.956
	07 SCHOOLS	1,575,237	8,944,507	0.733	0.980	0.896
	08 OFFICES AND BANKS	545,244	3,003,704	0.481	0.870	0.796
	09 REC. FACILITIES	186,764	1,097,060	0.056	0.845	0.772
	11 HOSPITALS/NURS HOME	552,270	2,431,392	1.163	1.079	0.987
	13 MOTOR VEHICLE RISKS	8,203	43,991	0.000	0.863	0.789
	14 OTHER NON-MANUF.	285,612	1,521,267	0.519	0.961	0.878
	TOTAL*	6,933,682	38,583,770	0.937	1.028	0.940
36 MULTILINE SERVICES	03 RESTAURANTS & BARS	81,788	474,218	0.918	1.160	1.060
	04 OTHER MERCANTILE RS	591,938	3,025,052	0.934	1.077	0.985
	08 OFFICES AND BANKS	557,253	3,330,670	1.333	1.321	1.207
	09 REC. FACILITIES	1,735,979	8,811,954	0.977	1.068	0.976
	13 MOTOR VEHICLE RISKS	1,012,320	6,161,886	1.440	1.203	1.099
	14 OTHER NON-MANUF.	733,468	3,761,100	1.716	1.324	1.210
	15 STORAGE	428,736	2,006,732	3.262	1.436	1.313
	21 METAL MANUFACTURING	67,407	340,772	0.000	0.925	0.846
	22 OTHER MANUFACTURING	179,746	1,218,966	1.143	1.122	1.026
	TOTAL*	5,388,635	29,131,350	1.371	1.186	1.084
37 MULTILINE INDUST/PROCESS	04 OTHER MERCANTILE RS	469,153	2,556,944	0.528	1.016	0.929
	08 OFFICES AND BANKS	74,002	562,993	0.799	1.096	1.002
	13 MOTOR VEHICLE RISKS	1,755	43,335	0.000	0.913	0.835
	14 OTHER NON-MANUF.	152,047	816,999	1.604	1.207	1.104
	15 STORAGE	84,668	406,401	0.000	1.029	0.941
	17 FOOD MANUFACTURING	567,703	3,857,078	1.116	1.109	1.014
	18 WOOD MANUFACTURING	534,676	3,158,700	0.813	1.038	0.949
	19 WEARING APPAREL	112,765	642,628	0.441	1.153	1.054
	20 CHEM. MANUFACTURING	166,689	910,853	3.111	1.392	1.272
	21 METAL MANUFACTURING	2,597,807	15,785,721	1.359	1.265	1.156
	22 OTHER MANUFACTURING	1,312,264	7,297,224	0.304	0.900	0.822
	TOTAL*	6,073,529	36,038,876	1.007	1.127	1.030

ENTIRE STATE

ILLINOIS
 BASIC GROUP I RELATIVITY ANALYSIS
 TABLE 10 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1) ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	(2) 5 - YEAR AGGREGATE LOSS COSTS	(3) 5 - YEAR EXPERIENCE RATIO	(4) Z-WEIGHTED EXPERIENCE RATIO	(5) Z-WEIGHTED RELATIVITY
38 MULTILINE	04 OTHER MERCANTILE RS	751,476	3,853,628	0.712	1.012	0.925
CONTRACTORS	08 OFFICES AND BANKS	177,397	913,023	0.662	1.043	0.954
	14 OTHER NON-MANUF.	53,300	310,848	0.280	1.023	0.935
	TOTAL*	982,173	5,077,499	0.680	1.018	0.930
TOTAL ALL TOPS*	01 APARTMENTS	4,794,095	29,804,008	1.199	1.090	0.997
	02 OTHER HABITATIONAL	1,994,640	15,028,868	0.955	1.027	0.939
	03 RESTAURANTS & BARS	1,176,653	6,828,148	0.961	1.121	1.024
	04 OTHER MERCANTILE RS	7,481,535	41,750,821	0.997	1.075	0.982
	05 PUBLIC BUILDINGS	318,914	1,635,955	2.662	1.379	1.260
	06 CHURCHES	3,552,051	20,468,712	0.988	1.052	0.961
	07 SCHOOLS	1,630,014	9,227,348	0.836	0.994	0.908
	08 OFFICES AND BANKS	3,625,475	19,539,727	0.912	1.055	0.965
	09 REC. FACILITIES	2,213,201	11,383,297	1.031	1.078	0.985
	10 HOTELS AND MOTELS	591,750	2,761,311	1.187	1.114	1.019
	11 HOSPITALS/NURS HOME	635,926	3,192,574	1.226	1.105	1.011
	13 MOTOR VEHICLE RISKS	1,677,020	9,306,845	1.538	1.198	1.095
	14 OTHER NON-MANUF.	2,534,036	13,067,240	1.005	1.100	1.006
	15 STORAGE	1,469,600	7,541,984	2.330	1.291	1.180
	17 FOOD MANUFACTURING	615,983	4,150,314	1.028	1.098	1.004
	18 WOOD MANUFACTURING	576,804	3,450,812	0.754	1.034	0.945
	19 WEARING APPAREL	121,513	692,564	0.409	1.119	1.023
	20 CHEM. MANUFACTURING	199,088	1,109,832	2.635	1.336	1.221
	21 METAL MANUFACTURING	3,009,059	17,880,721	1.207	1.226	1.121
	22 OTHER MANUFACTURING	1,632,639	9,352,191	0.377	0.930	0.850
	TOTAL*	39,849,996	228,173,272	1.091	1.094	1.000

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

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SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
 TABLE 11 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	
		ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	
10 MONOLINE	01 BUILDINGS	1,451,697	7,681,181	1.062	1.111	
	02 RES. APTS. AND COND	17,553	83,727	1.009	1.055	
	03 OFFICES	161,106	826,885	0.505	0.528	
	04 MERCANTILE - HIGH	198,029	1,063,170	0.691	0.723	
	05 MERCANTILE - MEDIUM	49,932	245,098	0.603	0.631	
	06 MERCANTILE - LOW	40,850	234,434	1.093	1.143	
	07 MOTELS AND HOTELS	2,918	12,448	0.822	0.860	
	08 INSTITUTIONAL - HIG	32,960	210,597	0.769	0.804	
	09 INSTITUTIONAL - LOW	24,440	146,764	2.081	2.177	
	10 INDUST-PROC - HIGH	14,605	55,728	1.968	2.059	
	11 INDUST-PROC - LOW	114,923	594,478	0.380	0.397	
	12 SERVICE - HIGH	49,748	252,784	0.272	0.285	
	13 SERVICE - LOW	83,836	423,357	0.523	0.547	
	14 CONTRACTORS	5,881	28,789	0.833	0.871	
	TOTAL*	2,248,478	11,859,440	0.919	0.961	
31 MULTILINE MOTEL/HOTEL	01 BUILDINGS	204,463	766,241	1.056	1.105	
	07 MOTELS AND HOTELS	37,759	188,501	5.380	5.628	
		TOTAL*	242,222	954,742	1.730	1.810
32 MULTILINE APARTMENT	01 BUILDINGS	2,084,236	12,146,532	0.997	1.043	
	02 RES. APTS. AND COND	370,876	2,115,877	0.331	0.346	
		TOTAL*	2,455,112	14,262,409	0.896	0.937
33 MULTILINE OFFICE	01 BUILDINGS	797,739	3,949,628	1.061	1.110	
	03 OFFICES	443,603	2,142,068	0.614	0.642	
	04 MERCANTILE - HIGH	2	713	0.000	0.000	
	08 INSTITUTIONAL - HIG	874	3,260	0.000	0.000	
	11 INDUST-PROC - LOW	30	89	0.000	0.000	
	12 SERVICE - HIGH	646	1,887	0.000	0.000	
	14 CONTRACTORS	66	346	0.000	0.000	
		TOTAL*	1,242,960	6,097,991	0.900	0.941

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SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
 TABLE 11 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	
		ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	
4 MULTILINE MERCANTILE	01 BUILDINGS	2,943,121	15,442,902	1.153	1.206	
	03 OFFICES	9,417	50,896	0.084	0.088	
	04 MERCANTILE - HIGH	490,823	2,681,854	0.740	0.774	
	05 MERCANTILE - MEDIUM	371,598	2,162,043	0.808	0.845	
	06 MERCANTILE - LOW	179,937	938,414	1.287	1.346	
	08 INSTITUTIONAL - HIG	84	573	0.000	0.000	
	10 INDUST-PROC - HIGH	0	38	0.000	0.000	
	11 INDUST-PROC - LOW	1,296	3,150	0.000	0.000	
	12 SERVICE - HIGH	20,358	126,661	1.524	1.594	
	13 SERVICE - LOW	17,221	90,839	0.556	0.582	
	14 CONTRACTORS	6,541	29,114	0.000	0.000	
	TOTAL*	4,040,396	21,526,484	1.072	1.121	
	35 MULTILINE INSTITUTIONAL	01 BUILDINGS	4,213,641	21,164,233	0.860	0.900
		03 OFFICES	17,290	62,061	1.252	1.310
04 MERCANTILE - HIGH		50	205	0.000	0.000	
08 INSTITUTIONAL - HIG		2,121,667	12,058,559	0.759	0.794	
09 INSTITUTIONAL - LOW		990,440	4,787,682	0.285	0.298	
12 SERVICE - HIGH		7,356	35,364	0.000	0.000	
13 SERVICE - LOW		3,640	12,344	0.000	0.000	
14 CONTRACTORS		2,366	12,900	0.000	0.000	
TOTAL*		7,356,450	38,133,348	0.753	0.788	
36 MULTILINE SERVICES		01 BUILDINGS	1,856,698	9,310,292	1.368	1.431
	03 OFFICES	17,785	57,288	0.305	0.319	
	04 MERCANTILE - HIGH	22,963	87,840	1.512	1.582	
	05 MERCANTILE - MEDIUM	1,340	8,121	4.560	4.770	
	06 MERCANTILE - LOW	2,236	6,793	0.688	0.720	
	08 INSTITUTIONAL - HIG	16,896	87,725	0.000	0.000	
	09 INSTITUTIONAL - LOW	15,289	61,343	0.000	0.000	
	10 INDUST-PROC - HIGH	259	2,853	0.000	0.000	
	11 INDUST-PROC - LOW	3,640	16,397	0.000	0.000	
	12 SERVICE - HIGH	699,412	4,092,022	2.110	2.207	
	13 SERVICE - LOW	250,277	1,267,145	0.847	0.886	
	14 CONTRACTORS	9,223	46,085	0.000	0.000	
	TOTAL*	2,896,018	15,043,904	1.476	1.544	

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SPECIAL CAUSES OF LOSS RELATIVITY ANALYSIS
TABLE 11 - SUMMARY OF EXPERIENCE USED IN SIMULTANEOUS REVIEW

TYPE OF POLICY	CATEGORY	(1)	(2)	(3)	(4)	
		ACCIDENT YEAR ENDING 09/30/17 AGGREGATE LOSS COSTS	5 - YEAR AGGREGATE LOSS COSTS	5 - YEAR EXPERIENCE RATIO	RELATIVITY	
37 MULTILINE INDUST/PROC	01 BUILDINGS	1,370,386	7,297,618	0.716	0.749	
	03 OFFICES	2,800	11,287	0.318	0.333	
	04 MERCANTILE - HIGH	8,392	34,134	0.972	1.017	
	05 MERCANTILE - MEDIUM	477	2,076	0.000	0.000	
	06 MERCANTILE - LOW	533	929	0.000	0.000	
	09 INSTITUTIONAL - LOW	25	92	0.000	0.000	
	10 INDUST-PROC - HIGH	93,179	517,845	1.840	1.925	
	11 INDUST-PROC - LOW	737,375	4,008,376	0.924	0.967	
	12 SERVICE - HIGH	734	2,891	0.000	0.000	
	13 SERVICE - LOW	376	2,196	0.000	0.000	
	14 CONTRACTORS	917	1,294	0.000	0.000	
	TOTAL*	2,215,194	11,878,738	0.832	0.870	
	38 MULTILINE CONTRACTORS	01 BUILDINGS	474,606	2,428,046	0.533	0.558
		03 OFFICES	23,173	101,865	1.898	1.985
04 MERCANTILE - HIGH		52,636	202,699	1.587	1.660	
05 MERCANTILE - MEDIUM		1,039	6,688	12.316	12.883	
06 MERCANTILE - LOW		15,571	63,458	1.250	1.308	
08 INSTITUTIONAL - HIGH		67	71	0.000	0.000	
11 INDUST-PROC - LOW		1,085	2,122	2.819	2.949	
12 SERVICE - HIGH		1,009	2,990	0.000	0.000	
13 SERVICE - LOW		915	3,261	0.000	0.000	
14 CONTRACTORS		249,716	1,500,499	1.109	1.160	
TOTAL*		819,817	4,311,699	0.845	0.884	
TOTAL ALL TOPS*		01 BUILDINGS	15,396,587	80,186,673	1.005	1.051
		02 RES. APTS. AND COND	388,429	2,199,604	0.362	0.379
		03 OFFICES	675,174	3,252,350	0.632	0.661
	04 MERCANTILE - HIGH	772,895	4,070,615	0.811	0.848	
	05 MERCANTILE - MEDIUM	424,386	2,424,026	0.823	0.861	
	06 MERCANTILE - LOW	239,127	1,244,028	1.243	1.300	
	07 MOTELS AND HOTELS	40,677	200,949	5.053	5.286	
	08 INSTITUTIONAL - HIGH	2,172,548	12,360,785	0.753	0.788	
	09 INSTITUTIONAL - LOW	1,030,194	4,995,881	0.323	0.338	
	10 INDUST-PROC - HIGH	108,043	576,464	1.853	1.938	
	11 INDUST-PROC - LOW	858,349	4,624,612	0.848	0.887	
	12 SERVICE - HIGH	779,263	4,514,599	1.951	2.041	
	13 SERVICE - LOW	356,265	1,799,142	0.745	0.779	
	14 CONTRACTORS	274,710	1,619,027	1.026	1.073	
TOTAL*	23,516,647	124,068,755	0.956	1.000		

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

EXPLANATORY NOTES TO TABLES 10 AND 11

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

INTRODUCTION	<p>The experience used in the relativity analysis and displayed on Tables 10 and 11 is the latest five accident years of data reported under the Commercial Statistical Plan. As in the overall review, loss costs have been adjusted to current ISO loss cost and prospective amount of insurance levels (with multiline aggregate loss costs adjusted additionally by the current implicit package modification factors). Incurred losses are adjusted to prospective cost levels, and are further adjusted by the Basic Group I large loss procedure and the Special Causes of Loss excess procedure. Losses have also been developed to their ultimate settlement value by application of loss development factors.</p>
COLUMN (1)	<p><u>2017 AGGREGATE LOSS COSTS</u></p> <p>The latest accident year aggregate loss costs (adjusted as described above) are used as weights both in the calculation of any totals shown in this table and in the iterative formulas used in the simultaneous review procedure.</p>
COLUMN (2)	<p><u>2013-2017 AGGREGATE LOSS COSTS</u></p> <p>The combined five-year adjusted aggregate loss costs (adjusted as described above) are used to calculate the experience ratios in column (3).</p>
COLUMN (3)	<p><u>FIVE-YEAR EXPERIENCE RATIOS</u></p> <p>These are the ratios of the combined five-year adjusted incurred losses (adjusted as described above) to the combined five-year adjusted aggregate loss costs as shown in column (2). Any totals which are shown are weighted averages using the adjusted aggregate loss costs in column (1).</p>
COLUMN (4)	<p><u>CREDIBILITY (Z) WEIGHTED EXPERIENCE RATIO</u></p> <p>A credibility procedure is applied to the initial experience ratios in column (3) on a cell-by-cell basis prior to the simultaneous review procedure. The credibility values are calculated using an empirical Bayesian credibility procedure. In the following discussion, cell refers to an individual combination of TOP, rating group or category, and territory (where applicable).</p>

EXPLANATORY NOTES TO TABLES 10 AND 11 (cont'd)

COLUMN (4)
(cont'd)

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

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

COLUMN (5)

WEIGHTED RELATIVITIES

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

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TABLE 12 - BASIC GROUP II RELATIVITY ANALYSIS

INDICATED LOSS COST ADJUSTMENT: +11.5%

	(1) ACCIDENT YEAR ENDING 09/30/17 AGGR. LOSS COSTS AT CURRENT IMPLICIT PMF	(2) ACCIDENT YEARS 2008-2017 EXPER. RATIO AT CURRENT PMF A	(3) FORMULA RELATIVITY (2) / 1.149	(4) CREDI- BILITY Z C	(5) Z WEIGHTED RELA- TIVITY D	(6) BALANCED FORMULA RELA- TIVITY E	(7) NORMALIZED FORMULA RELA- TIVITY F	(8) CURRENT IMPLICIT PMF	(9) INDICATED IMPLICIT PMF G	(10) INDIC. LOSS COST ADJUST
MONOLINE	3,831,686	1.118	0.973	0.469	0.987	0.987	0.9857			+9.9%
MULTILINE	31,668,231	1.153	1.003	0.889	1.003	1.003	1.0015			+11.7%
COVERAGE	35,499,917	1.149	1.000			1.0013 B	0.9998			+11.5%
MULTILINE TOP										
31 MOTEL/HOTEL	317,278	1.596	1.389	0.058	1.023	1.026	1.0247	1.106	1.150	+14.3%
32 APARTMENT	4,290,376	1.346	1.171	0.536	1.092	1.095	1.0936	1.247	1.384	+21.9%
33 OFFICE	1,484,897	0.992	0.863	0.253	0.965	0.968	0.9667	0.725	0.711	+7.8%
34 MERCANTILE	6,678,589	1.258	1.095	0.623	1.059	1.062	1.0606	1.103	1.187	+18.3%
35 INSTITUTIONAL	9,924,154	1.039	0.904	0.725	0.930	0.933	0.9318	1.038	0.981	+3.9%
36 SERVICES	4,610,653	1.181	1.028	0.520	1.015	1.018	1.0167	1.043	1.076	+13.4%
37 INDUST/PROCESS	3,232,548	1.077	0.937	0.448	0.972	0.975	0.9737	0.732	0.723	+8.6%
38 CONTRACTORS	1,129,736	0.993	0.864	0.218	0.970	0.973	0.9717	1.058	1.043	+8.3%
	31,668,231	1.153 B	1.003		1.000 B	1.003 B	1.0015 B			+11.7%

B - AVERAGE WEIGHTED BY COLUMN (1)

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

D - (5) = (3) * (4) + (1.000 - (4))

E - (6) = (5) * (1.003/1.000)

F - (7) = (6) / 1.0013

G - (9) = (7) * (8) / (0.9857)

EXPLANATORY NOTES TO TABLE 12

BASIC GROUP II RELATIVITY ANALYSIS

INTRODUCTION

The explanations which follow clarify Table 12, the Basic Group II (BG II) relativity analysis. The purpose of this analysis is to:

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

COLUMN (1)

2017 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)

2008 - 2017 EXPERIENCE RATIO

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

COLUMN (3)

FORMULA RELATIVITY

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

EXPLANATORY NOTES TO TABLE 12 (cont'd)

COLUMN (4)

CREDIBILITY

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

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

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

COLUMN (5)

Z - WEIGHTED RELATIVITY

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

COLUMN (6)

BALANCED FORMULA RELATIVITY

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

COLUMN (7)

NORMALIZED FORMULA RELATIVITY

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

COLUMN (8)

CURRENT IMPLICIT PMF

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

EXPLANATORY NOTES TO TABLE 12 (cont'd)

COLUMN (9)

INDICATED IMPLICIT PMF

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

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

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

COLUMN (10)

INDICATED LOSS COST CHANGES

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

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

MULTILINE
CONSIDERATIONS

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

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COMMERCIAL PROPERTY INSURANCE

SECTION C - SUPPORTING MATERIAL

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Loss Cost/Rate Level Histories (Tables 13 - 17)	C4-13
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Credibility (Tables 33, 33A, and 34)	C61-66

OVERVIEW

AGGREGATE LOSS COSTS AT CURRENT LEVEL

Tables 13, 14 and 15 provide the overall loss cost/rate level histories for Basic Group I, Basic Group II, and Special Causes of Loss respectively. These tables, along with Tables 16 and 17, provide information on the on-level factors needed to bring collected aggregate loss costs to current loss cost level.

Table 16 provides rate level/loss cost level histories by rating id (class vs. specific), rating group, and territory (where applicable) for Basic Group I, while Table 17 provides rate level/loss cost level histories by category for Special Causes of Loss. These tables can be used to develop on-level factors appropriate to bring collected aggregate loss costs up to current loss cost level. Factors based on these tables are more appropriate for company use than the overall factors shown on Tables 13 and 15 if the company's mix of business differs substantially from the industrywide average. For example, if a company's business is very heavily concentrated in a single class or territory, it is more appropriate to use the rate level/loss cost history for that class rather than the overall average to develop on-level factors.

Tables 18, 19 and 20 provide the current implicit package modification factors (IPMFs) and IPMF caps for Basic Group I, Basic Group II and Special Causes of Loss.

ADJUSTMENTS TO LOSSES

The loss projection factors, current cost factors, and loss trend adjustments shown on Tables 21, 22 and 23 reflect the combined impact of all economic influences on Commercial Property underwriting results and are used to project past underwriting results to future loss levels. They are intended to reflect the impact of inflation on loss payments, the impact of higher costs due to repairs done on an "emergency" basis, the impact of coinsurance and relative insurance to value on loss payments, and any other economic influences which can affect underwriting losses but for which specific provisions are not made. Losses have also been developed to their ultimate settlement value using factors shown on Table 28.

CREDIBILITY

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

Z = credibility

C = final estimate

R = estimate based on the most recent data

N = net trend

OVERVIEW (cont'd)

CREDIBILITY (cont'd)

Credibility may range from 0 to 1, where $Z=1$ is full credibility and $Z=0$ is no credibility. The actual numerical value of Z is calculated by considering how the state's volume of experience compares with the full credibility standard. Credibility is capped at 25% if the credibility calculated is less than 25%. See Tables 33, 33A, and 34 for a complete explanation of the credibility standards for Basic Group I, Basic Group II, and Special Causes of Loss.

LOSS COST/RATE LEVEL HISTORY

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

ILLINOIS

TABLE 13

BASIC GROUP I

HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-12-01	-4.2	0.958	0.448	0.085
2001-09-01	15.9	1.110	0.386	0.334
2002-09-01	-2.8	1.079	0.398	0.334
2003-12-01	6.6	1.150	0.373	0.085
2005-01-01	-0.6	1.144	0.375	1.000
2006-04-01	2.9	1.177	0.364	0.753
2007-03-01	-28.0	0.847	0.506	0.838
2008-04-01	-22.2	0.659	0.651	0.751
2009-03-01	-21.7	0.516	0.831	0.838
2010-04-01	-9.6	0.467	0.919	0.753
2012-04-01	-4.2	0.447	0.960	0.751
2015-04-01	-1.1	0.442	0.971	0.753
2016-09-01	1.8	0.450	0.953	0.333
2018-05-01	-4.7	0.429	1.000	0.671

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-13.1	0.869	1.000	0.753

* WEIGHT DENOTES THE PORTION OF THE EFFECTIVE YEAR FOR WHICH THE ADJUSTMENT FACTORS APPLY.

ILLINOIS

TABLE 14

BASIC GROUP II

HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-12-01	10.3	1.103	1.172	0.085
2001-09-01	-1.5	1.086	1.191	0.334
2002-09-01	-8.3	0.996	1.298	0.334
2003-12-01	13.3	1.129	1.145	0.085
2005-01-01	4.2	1.176	1.099	1.000
2006-04-01	30.0	1.529	0.846	0.753
2007-03-01	-10.0	1.376	0.940	0.838
2008-04-01	-9.2	1.250	1.034	0.751
2009-03-01	-6.6	1.167	1.108	0.838
2010-04-01	0.5	1.173	1.102	0.753
2012-04-01	0.0	1.173	1.102	0.751
2015-04-01	-2.8	1.140	1.134	0.753
2016-09-01	16.0	1.322	0.978	0.333
2018-05-01	-2.2	1.293	1.000	0.671

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-13.3	0.867	1.000	0.753

* WEIGHT DENOTES THE PORTION OF THE EFFECTIVE YEAR FOR WHICH THE ADJUSTMENT FACTORS APPLY.

ILLINOIS

TABLE 15

SPECIAL CAUSES OF LOSS

HISTORY OF STATEWIDE LOSS COST/RATE LEVEL CHANGES

LOSS COST/RATE LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2000-12-01	-10.6	0.894	0.874	0.085
2001-09-01	6.8	0.955	0.818	0.334
2002-09-01	7.1	1.023	0.763	0.334
2003-12-01	-10.5	0.915	0.854	0.085
2005-01-01	-3.7	0.881	0.886	1.000
2006-04-01	-6.4	0.825	0.947	0.753
2007-03-01	-13.6	0.713	1.095	0.838
2008-04-01	-6.8	0.664	1.176	0.751
2009-03-01	13.5	0.754	1.036	0.838
2010-04-01	15.5	0.871	0.897	0.753
2012-04-01	-2.3	0.851	0.918	0.751
2015-04-01	-3.7	0.819	0.954	0.753
2016-09-01	2.0	0.836	0.934	0.333
2018-05-01	-6.6	0.781	1.000	0.671

TIME ELEMENT ONLY LOSS COST LEVEL HISTORY				
(1)	(2)	(3)	(4)	(5)
EFFECTIVE DATE	LOSS COST/RATE LEVEL CHANGE (%)	LOSS COST/RATE LEVEL INDEX	ADJUSTMENT FACTOR	WEIGHT*
2013-04-01	-25.0	0.750	1.000	0.753

* WEIGHT DENOTES THE PORTION OF THE EFFECTIVE YEAR FOR WHICH THE ADJUSTMENT FACTORS APPLY.

EXPLANATORY NOTES TO TABLES 13, 14 AND 15

LOSS COST/RATE LEVEL HISTORIES

COLUMN (1)

EFFECTIVE DATE

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

COLUMN (2)

LOSS COST/RATE LEVEL CHANGE

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

COLUMN (3)

LOSS COST/RATE LEVEL INDEX

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

COLUMN (4)

WRITTEN ADJUSTMENT (ON LEVEL) FACTORS

The factors are used to bring individual policies with inception dates prior to the effective date up to current loss cost level. For Basic Group II these are the actual factors used. However, the loss cost/rate changes for Basic Group I vary by rating group and territory (where applicable), while the loss cost/rate level changes for Special Causes of Loss vary by category. Consequently, for these coverages the on-level factors represent average factors and are not the factors actually used to adjust the aggregate loss costs on an individual policy basis. For complete loss cost/rate level histories by rating group and territory (where applicable) for Basic Group I and by category for Special Causes of Loss refer to Tables 16 and 17.

COLUMN (5)

WEIGHT

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

ILLINOIS
TABLE 16

HISTORY OF BASIC GROUP I

LOSS COST CHANGES BY TERRITORY, RATING ID AND RATING GROUP

TERRITORY: Chicago

EFFECTIVE DATE	RATING ID	RATING GROUP																				
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
04-01-2006	SPEC.	-20.0	-7.2	17.0	15.3	5.7	-8.2	4.0	-1.2	14.5	6.0	4.8	5.0	16.8	4.3	7.7	5.5	7.9	4.2	5.4	14.0	10.1
	CLASS	-20.0	-17.2	4.5	3.0	-5.5	-18.0	-7.0	-11.7	2.3	-5.2	-6.4	-6.2	4.3	-6.8	-3.8	-5.7	7.9	-6.9	5.4	14.0	-1.7
03-01-2007	SPEC.	-38.8	-31.8	-36.9	-37.8	-32.8	-28.6	-30.1	-37.0	-28.9	-34.3	-32.9	-34.1	-32.2	-25.7	-35.1	-33.5	-32.6	-32.5	-33.5	-35.8	-30.8
	CLASS	-27.1	-18.7	-24.8	-25.9	-19.9	-14.9	-16.7	-24.9	-15.3	-21.7	-20.0	-21.5	-19.2	-11.4	-22.7	-20.8	-32.6	-19.6	-33.5	-35.8	-17.5
04-01-2008	SPEC.	-21.5	-15.3	-21.8	-19.7	-16.7	-13.8	-15.5	-17.9	-13.1	-17.3	-16.2	-17.5	-23.7	-9.0	-22.3	-11.3	-16.8	-17.0	-16.5	-16.3	-10.4
	CLASS	-28.8	-23.1	-29.1	-27.1	-24.4	-21.8	-23.3	-25.5	-21.1	-24.9	-24.0	-25.2	-30.8	-17.4	-29.5	-19.5	-16.8	-24.7	-16.5	-16.3	-18.6
03-01-2009	SPEC.	-13.0	-9.1	-19.3	-8.8	-10.7	-8.9	-18.6	-9.6	-11.8	-8.8	-10.2	-10.8	-15.1	-6.6	-16.7	-9.2	-9.0	-10.4	-10.4	-7.5	-8.1
	CLASS	-22.5	-19.0	-28.2	-18.8	-20.5	-18.9	-27.5	-19.5	-21.4	-18.8	-20.0	-20.6	-24.4	-16.8	-25.8	-19.1	-9.0	-20.2	-10.4	-7.5	-18.2
04-01-2010	SPEC.	-7.1	-6.7	-10.4	-3.6	-5.8	-4.7	-11.1	-3.8	-5.9	-6.3	-5.0	-5.8	-8.1	-3.5	-9.9	-5.3	-5.4	-5.7	-5.8	-2.2	-5.2
	CLASS	-9.3	-8.9	-12.5	-5.9	-8.1	-7.0	-13.2	-6.1	-8.2	-8.5	-7.3	-8.0	-10.3	-5.8	-12.0	-7.5	-5.4	-7.9	-5.8	-2.2	-7.4
04-01-2012	SPEC.	-1.0	-0.5	-4.0	5.8	0.4	0.0	2.0	0.7	4.5	0.9	1.7	0.9	-4.2	-1.4	-5.8	0.6	1.4	1.1	0.6	6.5	-0.5
	CLASS	-3.6	-3.2	-6.6	3.0	-2.3	-2.7	-0.7	-2.0	1.7	-1.8	-1.0	-1.8	-6.8	-4.0	-8.3	-2.1	1.4	-1.6	0.6	6.5	-3.2
04-01-2015	SPEC.	-14.4	-8.9	-18.8	-13.5	-9.2	5.8	-4.0	-10.4	-9.3	-11.7	-9.1	-11.8	-9.8	-11.8	-12.8	-12.9	-10.4	-10.2	-10.2	-10.7	-10.5
	CLASS	-10.1	-4.3	-14.7	-9.1	-4.6	11.1	0.8	-5.8	-4.7	-7.2	-4.5	-7.3	-5.3	-7.3	-8.5	-8.6	-10.4	-5.7	-10.2	-10.7	-6.0
09-01-2016	SPEC.	1.5	5.8	-11.1	5.6	7.5	17.3	5.3	7.9	7.4	4.6	6.5	5.1	7.1	5.1	3.3	5.2	5.1	5.8	5.7	8.8	4.9
	CLASS	-3.3	0.8	-15.4	0.6	2.4	11.8	0.3	2.7	2.3	-0.4	1.4	0.1	2.0	0.1	-1.6	0.2	5.1	0.8	5.7	8.8	-0.1
05-01-2018	SPEC.	-8.7	-8.1	-14.2	-13.4	-9.2	-9.1	-10.2	-12.6	-13.4	-11.0	-9.9	-11.9	-9.8	-11.9	-9.7	-11.1	-11.4	-10.5	-10.2	-8.4	-13.5
	CLASS	-8.7	-8.1	-14.2	-13.4	-9.2	-9.1	-10.2	-12.6	-13.4	-11.0	-9.9	-11.9	-9.8	-11.9	-9.7	-11.1	-11.4	-10.5	-10.2	-8.4	-13.5

ILLINOIS
TABLE 16

HISTORY OF BASIC GROUP I

LOSS COST CHANGES BY TERRITORY, RATING ID AND RATING GROUP

TERRITORY: Balance of State (Illinois)

EFFECTIVE DATE	RATING ID	RATING GROUP																				
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	17	18	19	20	21	22
04-01-2006	SPEC.	-18.5	-5.4	19.2	17.5	7.8	-6.4	6.0	0.7	16.7	8.1	6.8	7.0	19.0	6.3	9.8	7.5	10.0	6.2	7.4	16.2	12.1
	CLASS	-18.5	-15.6	6.5	5.0	-3.8	-16.5	-5.3	-10.0	4.3	-3.5	-4.6	-4.5	6.3	-5.0	-2.0	-4.0	10.0	-5.1	7.4	16.2	0.2
03-01-2007	SPEC.	-38.1	-30.9	-36.1	-37.1	-32.0	-27.7	-29.3	-36.2	-28.0	-33.5	-32.1	-33.3	-31.3	-24.8	-34.3	-32.7	-31.8	-31.7	-32.7	-35.0	-30.0
	CLASS	-26.2	-17.7	-23.9	-25.0	-19.0	-13.8	-15.7	-24.0	-14.2	-20.8	-19.1	-20.6	-18.2	-10.3	-21.7	-19.8	-31.8	-18.6	-32.7	-35.0	-16.5
04-01-2008	SPEC.	-22.9	-16.8	-23.2	-21.1	-18.2	-15.4	-17.0	-19.3	-14.6	-18.8	-17.7	-19.0	-25.1	-10.6	-23.7	-12.9	-18.3	-18.5	-17.9	-17.8	-11.9
	CLASS	-30.0	-24.5	-30.3	-28.4	-25.8	-23.2	-24.7	-26.8	-22.5	-26.3	-25.3	-26.5	-32.0	-18.8	-30.8	-21.0	-18.3	-26.0	-17.9	-17.8	-20.1
03-01-2009	SPEC.	-20.6	-17.0	-26.4	-16.8	-18.5	-16.9	-25.7	-17.5	-19.5	-16.8	-18.0	-18.6	-22.5	-14.7	-23.9	-17.1	-16.9	-18.2	-18.2	-15.6	-16.1
	CLASS	-29.3	-26.1	-34.4	-25.9	-27.4	-26.0	-33.9	-26.5	-28.3	-25.9	-27.0	-27.5	-31.0	-24.1	-32.3	-26.2	-16.9	-27.2	-18.2	-15.6	-25.3
04-01-2010	SPEC.	-10.9	-10.6	-14.1	-7.6	-9.8	-8.7	-14.8	-7.8	-9.8	-10.2	-8.9	-9.7	-11.9	-7.5	-13.6	-9.2	-9.3	-9.6	-9.7	-6.2	-9.1
	CLASS	-13.0	-12.7	-16.1	-9.8	-11.9	-10.8	-16.8	-10.0	-12.0	-12.3	-11.1	-11.8	-14.0	-9.7	-15.7	-11.4	-9.3	-11.7	-9.7	-6.2	-11.3
04-01-2012	SPEC.	-6.4	-6.0	-9.3	0.0	-5.2	-5.6	-3.7	-4.9	-1.3	-4.7	-3.9	-4.7	-9.5	-6.8	-11.0	-5.0	-4.2	-4.5	-5.0	0.6	-6.0
	CLASS	-8.9	-8.6	-11.7	-2.7	-7.7	-8.1	-6.2	-7.4	-3.9	-7.3	-6.5	-7.3	-11.9	-9.3	-13.4	-7.5	-4.2	-7.1	-5.0	0.6	-8.6
04-01-2015	SPEC.	-5.9	0.1	-10.8	-4.9	-0.2	16.3	5.5	-1.5	-0.3	-2.9	-0.1	-3.0	-0.9	-3.0	-4.2	-4.3	-1.5	-1.3	-1.3	-1.8	-1.7
	CLASS	-1.1	5.2	-6.3	-0.1	4.8	22.1	10.8	3.5	4.7	2.0	4.9	1.9	4.1	1.9	0.6	0.5	-1.5	3.7	-1.3	-1.8	3.3
09-01-2016	SPEC.	0.4	4.7	-12.1	4.5	6.4	16.1	4.2	6.7	6.3	3.4	5.3	4.0	5.9	4.0	2.2	4.1	4.0	4.7	4.6	7.6	3.8
	CLASS	-4.4	-0.3	-16.3	-0.5	1.3	10.5	-0.8	1.6	1.2	-1.5	0.3	-1.0	0.9	-1.0	-2.7	-0.9	4.0	-0.3	4.6	7.6	-1.2
05-01-2018	SPEC.	-0.5	0.1	-6.4	-5.6	-1.0	-0.9	-2.2	-4.7	-5.6	-3.0	-1.8	-3.9	-1.7	-3.9	-1.6	-3.1	-3.4	-2.5	-2.1	-0.1	-5.8
	CLASS	-0.5	0.1	-6.4	-5.6	-1.0	-0.9	-2.2	-4.7	-5.6	-3.0	-1.8	-3.9	-1.7	-3.9	-1.6	-3.1	-3.4	-2.5	-2.1	-0.1	-5.8

EXPLANATORY NOTES TO TABLE 16

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

TERRITORY

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

EFFECTIVE DATE

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

LOSS COST/RATE LEVEL CHANGES

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

ILLINOIS
TABLE 17

SPECIAL CAUSES OF LOSS

HISTORY OF LOSS COST/RATE LEVEL CHANGES BY CATEGORY

(1) EFFECTIVE DATE	(2) CATEGORY													
	01	02	03	04	05	06	07	08	09	10	11	12	13	14
12-01-1998	-12.9	-12.7	-6.4	-28.9	-34.4									
12-01-1999	-22.8	-25.0	8.9	-28.0	-23.9									
12-01-2000	-6.8	-17.2	-17.1	-10.9	-20.6									
09-01-2001	6.9	-3.7	0.0	20.1	-3.1									
09-01-2002	11.0	-5.0	1.2	5.0	-7.4									
12-01-2003	-8.6	-22.7	-8.3	-16.9	-14.0									
01-01-2005	-2.8	-13.6	-4.8	-8.7	-2.1									
04-01-2006	-5.5	-22.5	-15.5	-13.1	0.1									
03-01-2007	-12.1	-26.9	-22.2	-23.8	-10.6									
04-01-2008	-7.7	-15.7	-7.6	-7.6	5.1									
03-01-2009	13.1	5.9	16.8	23.0	5.0									
04-01-2010	13.7	7.3	23.2	22.4	26.1									
04-01-2012	-6.6	-1.7	-2.4	10.0	0.4	2.9	0.6	-3.1	-2.4	11.4	20.7	15.8	6.1	-2.9
04-01-2015	0.9	-2.2	-2.4	-1.9	-0.5	-0.6	-3.1	-29.3	-14.7	-0.5	3.2	5.8	-3.2	1.3
09-01-2016	5.0	2.0	2.5	-2.4	2.3	2.7	1.8	-16.3	-6.3	4.2	8.6	8.0	0.0	5.5
05-01-2018	-4.8	-10.8	-7.9	-12.3	-11.4	-8.4	-7.3	-14.0	-15.6	-5.7	-1.0	-1.0	-9.3	-3.8

EXPLANATORY NOTES TO TABLE 17

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

COLUMN (1)

EFFECTIVE DATE

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

COLUMN (2)

LOSS COST/RATE LEVEL CHANGES BY CATEGORY

Loss cost/rate changes are shown in percent form for each category. Refer to Table 37 for definitions of the current 14 categories.

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

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

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

IMPLICIT PACKAGE
MODIFICATION
FACTORS

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

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

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

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

IPMF CAPS

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

ILLINOIS
 TABLE 18
 BASIC GROUP I IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP

31	MOTEL/HOTEL	0.868	0.500	1.500
32	APARTMENT	0.830	0.500	1.500
33	OFFICE	0.999	0.500	1.500
34	MERCANTILE	0.957	0.500	1.500
35	INSTITUTIONAL	0.691	0.500	1.500
36	SERVICES	0.981	0.500	1.500
37	INDUST/PROCESSING	1.125	0.500	1.500
38	CONTRACTORS	0.866	0.500	1.500

ILLINOIS
 TABLE 19
 BASIC GROUP II IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP
31	MOTEL/HOTEL	1.106	0.500	1.500
32	APARTMENT	1.247	0.500	1.500
33	OFFICE	0.725	0.500	1.500
34	MERCANTILE	1.103	0.500	1.500
35	INSTITUTIONAL	1.038	0.500	1.500
36	SERVICES	1.043	0.500	1.500
37	INDUST/PROCESSING	0.732	0.500	1.500
38	CONTRACTORS	1.058	0.500	1.500

ILLINOIS
 TABLE 20
 SPECIAL CAUSES OF LOSS IMPLICIT PACKAGE
 MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

CPP IMPLICIT PACKAGE MODIFICATION FACTORS (IPMFS) AND IPMF CAPS

TOP	DESCRIPTION	IPMF	LOW CAP	HIGH CAP

31	MOTEL/HOTEL	1.349	0.500	1.500
32	APARTMENT	1.257	0.500	1.500
33	OFFICE	0.907	0.500	1.500
34	MERCANTILE	0.960	0.500	1.500
35	INSTITUTIONAL	1.500	0.500	1.500
36	SERVICES	0.982	0.500	1.500
37	INDUST/PROCESSING	0.631	0.500	1.500
38	CONTRACTORS	1.131	0.500	1.500

EXPLANATORY NOTES TO TABLES 18, 19, AND 20

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

TABLES 18, 19,
AND 20

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

TREND PROCEDURE

INTRODUCTION

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

LOSS TREND

EXTERNAL LOSS DATA

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

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

The CCF's adjust losses for actual inflationary changes which have taken place between the accident date and the midpoint of the latest period of external trend information, i.e. May 15, 2018 for property damage and time element. The LPF's adjust losses for projected inflationary changes from the midpoint of the latest period of external trend information to the anticipated average date of accident for policies written under the proposed loss costs (assumed to be 12 months after the assumed revision date based on all one-year policies).

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

TREND PROCEDURE (cont'd)

LOSS TREND (cont'd)

LOSS TREND ADJUSTMENT - SEVERITY

An evaluation of the latest Commercial Property insurance data shows that the cost levels inherent in the property damage coverages are increasing at a different rate than those measured by the external indices. Therefore, to insure adequate prospective loss cost levels during the period for which loss costs are to be determined, loss trend adjustments (LTA's) have been applied. These factors were developed by comparing the annual rate of change in average claim costs to the annual rate of change in the external indices. (Refer to Table 23 for the calculations.)

LOSS TREND ADJUSTMENT - FREQUENCY

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

AMOUNT-OF-
INSURANCE
TREND

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

The application and development of these factors parallels loss trend factors in that separate factors are developed for buildings, contents, and time element, and the adjustment to prospective amount of insurance levels is done in two steps. The current written factors adjust loss costs to the amount of insurance level for the midpoint of the latest period of renewal information, i.e. July 1, 2017. Total amount of insurance trend factors are then calculated by projecting these current factors to the average date of writing (i.e. to the amount of insurance level six months beyond the assumed effective date).

TABLE 21

Development of Current Cost Factors and Loss Projection Factors
For Commercial Property Building and Contents Experience
 Period ending June 30, 2018

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

Building Loss Projection Factors - Xactware Commercial Index (XCI) (Base: 2009 = 100.0)
 Contents - Producer Price Index (PPI) - U.S. Dept. of Labor (Finished Goods Less Energy) (Base: 2009 = 100.0)
 Time Element Combined Index - Weighted average of IMSEP and RSALES indices ^(a)

<u>Quarter</u>	<u>XCI</u>	<u>PPI</u>	<u>IMSEP</u>	<u>RSALES</u>	<u>Time Element Combined Index</u>
Q3-2015	109.5	114.0	1.032	0.972	0.990
Q4-2015	110.0	113.9	1.031	0.961	0.982
Q1-2016	110.5	114.4	1.026	0.950	0.973
Q2-2016	110.7	114.3	1.032	0.955	0.978
Q3-2016	111.3	114.3	1.029	0.953	0.976
Q4-2016	111.9	114.6	1.033	0.956	0.979
Q1-2017	112.7	115.5	1.038	0.963	0.986
Q2-2017	114.0	116.5	1.036	0.957	0.981
Q3-2017	115.0	116.3	1.042	0.959	0.984
Q4-2017	115.5	117.1	1.044	0.965	0.989
Q1-2018	116.6	117.6	1.048	0.971	0.994
Q2-2018	117.5	118.1	1.056	0.974	0.999

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

$$\text{Annual Rate of Change} = 0.0266 = 2.7\% \qquad R^2 = 0.975$$

$$\text{Loss Projection Factor for Buildings} = 1.02566^{22.5/12 (b)} = 1.0505$$

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

$$\text{Annual Rate of Change} = 0.0140 = 1.4\% \qquad R^2 = 0.921$$

$$\text{Loss Projection Factor for Contents} = 1.0140^{22.5/12 (b)} = 1.0264$$

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

$$\text{Annual Rate of Change} = 0.0053 = 0.53\% \qquad R^2 = 0.371$$

$$\text{Loss Projection Factor for Time Element} = 1.0053^{22.5/12 (b)} = 1.0100$$

- (a) 30% weight for IMSEP and 70% weight for RSALES. IMSEP & RSALES indices were rescaled to a 2009 year base.
- (b) Assuming a rate or loss cost revision date of April 1 2019, and all one year policies, the time interval between the midpoint of the latest period (05/15/2018) and the average date of accident (04/01/2020) would be 22.5 months.

TABLE 21

Development of Current Cost Factors and Loss Projection Factors

Part E: Calculation of Current Cost Factors (CCF)

<u>Year</u>	<u>Calendar Year Averages</u>			<u>Current Cost Factors Based on Average Index Values for Period ending June 30, 2018</u>		
	<u>XCI</u>	<u>PPI</u>	<u>Time Element Index</u>	<u>Buildings</u>	<u>Contents</u>	<u>Time Element</u>
2007	92.6	94.5	0.931	117.5/ 92.6 = 1.269	118.1 / 94.5 = 1.250	0.999 / 0.931 = 1.073
2008	97.0	98.5	0.948	117.5/ 97.0 = 1.211	118.1 / 98.5 = 1.199	0.999 / 0.948 = 1.054
2009	100.0	100.0	0.940	117.5/ 100 = 1.175	118.1 / 100.0 = 1.181	0.999 / 0.940 = 1.063
2010	99.3	101.8	0.953	117.5/ 99.3 = 1.183	118.1 / 101.8 = 1.160	0.999 / 0.953 = 1.048
2011	100.0	105.2	0.985	117.5/ 100.0 = 1.175	118.1 / 105.2 = 1.123	0.999 / 0.985 = 1.014
2012	101.0	108.0	1.000	117.5/ 101.0 = 1.163	118.1 / 108.0 = 1.094	0.999 / 1.000 = 0.999
2013	102.7	109.8	1.003	117.5/ 102.7 = 1.144	118.1 / 109.8 = 1.076	0.999 / 1.003 = 0.996
2014	104.7	112.5	1.006	117.5/ 104.7 = 1.122	118.1 / 112.5 = 1.050	0.999 / 1.006 = 0.993
2015	109.1	113.8	0.987	117.5/ 109.1 = 1.077	118.1 / 113.8 = 1.038	0.999 / 0.987 = 1.012
2016	111.1	114.4	0.977	117.5/ 111.1 = 1.058	118.1 / 114.4 = 1.032	0.999 / 0.977 = 1.023
2017	114.3	116.4	0.985	117.5/ 114.3 = 1.028	118.1 / 116.4 = 1.015	0.999 / 0.985 = 1.014

EXPLANATORY NOTES TO TABLE 21

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

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

EXPLANATORY NOTES TO TABLE 21 (cont'd)

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

LOSS PROJECTION
FACTOR

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

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

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

CALENDAR YEAR
AVERAGES

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

CURRENT COST
FACTORS

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

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

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

TABLE 22

SUMMARY OF LOSS TREND ADJUSTMENTS (LTA'S)

<u>BUILDINGS</u>	<u>5 YEAR INCURRED LOSSES</u>	<u>LTA'S*</u>
BASIC GROUP I	2,963,900,922	-0.4
BASIC GROUP II	3,110,504,121	0.5
SPECIAL CAUSES OF LOSS	1,645,968,334	0.3
TOTAL	7,720,373,377	0.1
<u>CONTENTS</u>		
BASIC GROUP I	930,719,601	0.5
BASIC GROUP II	303,611,682	0.8
SPECIAL CAUSES OF LOSS	677,516,051	0.5
TOTAL	1,911,847,334	0.5
<u>TIME ELEMENT</u>		
BASIC GROUP I	335,351,732	2.5
BASIC GROUP II	80,288,943	2.2
SPECIAL CAUSES OF LOSS	112,591,087	2.5
TOTAL	528,231,762	2.5
GRAND TOTAL	10,160,452,473	0.3

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

EXPLANATORY NOTES TO TABLE 22

SUMMARY OF LOSS TREND ADJUSTMENTS (LTA'S)

COLUMN (1)

COVERAGE

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

COLUMN (2)

FIVE-YEAR INCURRED LOSSES

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

COLUMN (3)

ANNUAL LTA's

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

OVERVIEW

DEVELOPMENT OF LOSS TREND ADJUSTMENTS

INTRODUCTION

In order to supplement the external indices reflected in CCF's and LPF's, loss trend adjustments (LTA's) have been developed based on internal loss data. This is necessary because the external indices alone have been insufficient in reflecting cost level and claim frequency changes in Commercial Property Insurance. The following tables show the calculations used to develop these LTA's. Please note the development of the LTA's for the 2018 COMFAL reviews is based on internal commercial property experience through 12/31/2016 and external cost indices through 12/31/2016. Therefore, the CCF's and LPF's shown on Table 23 will not necessarily match those shown on Table 21. ISO has determined that the selected LTAs are appropriate to be used with the latest external indices shown on Table 21.

TABLE 23
DEVELOPMENT OF LTA'S

I. EXTERNAL RATE OF CHANGE^a

Calendar Year	(1) Buildings Current Cost Factor	(2) Contents Current Cost Factor	(3) Time Element Cost Factor	(4) Basic Group I (BGI)& Special Causes of Loss (SCL) Weights	(5) Basic Group II (BGII) Weights
2007	1.208	1.213	1.053		0.10
2008	1.154	1.163	1.033		0.10
2009	1.119	1.146	1.041		0.10
2010	1.127	1.126	1.026		0.10
2011	1.119	1.089	0.993		0.10
2012	1.108	1.062	0.978	0.10	0.10
2013	1.090	1.044	0.976	0.15	0.10
2014	1.069	1.018	0.974	0.20	0.10
2015	1.025	1.007	0.990	0.25	0.10
2016	1.007	1.001	1.002	0.30	0.10

(6) AVERAGE CURRENT COST FACTORS

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss (Weighted on Column (4))	1.047	1.019	0.987
Basic Group II (Weighted on Column (5))	1.103	1.087	1.007

(7) LOSS PROJECTION FACTORS

	Buildings	Contents	Time Element
Annual Rate of Change	0.030	0.008	-0.013
Loss Projection Factor: ^b $(1.0 + \text{Annual Rate of Change})^{(X/12)}$	1.081	1.022	0.967

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

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss	1.132	1.042	0.954
Basic Group II	1.193	1.111	0.974

(9) EXTERNAL ANNUAL RATE OF CHANGE^c

	Buildings	Contents	Time Element
Basic Group I and Special Causes of Loss: $(\text{Total Trend Factor})^{12/54}$	1.028	1.009	0.990
Basic Group II: $(\text{Total Trend Factor})^{12/90}$	1.024	1.014	0.996

- (a) The Current Cost Factors and Loss Projection Factors on this exhibit are based on external economic indices through December 31, 2016 for Buildings, Contents and Time Element.
- (b) Assuming a loss cost revision date of July 1, 2018, the time interval between the midpoint of the latest period of external trend information (November 15, 2016) and the prospective average date of loss (July 1, 2019) is 31.5 months for Buildings, Contents and Time Element.
- (c) The time interval from the weighted midpoint of the experience period to the prospective average date of loss (July 1, 2019) is 54 months for BG I and SCL, and 90 months for BG II. The weighted midpoint is January 1, 2015 for BG I and SCL, and January 1, 2012 for BG II.

TABLE 23
DEVELOPMENT OF LTA'S

II. INTERNAL ANNUAL RATES OF CHANGE:

(10) SELECTED COMFAL

	Buildings	Contents	Time Element
Basic Group I (BGI)	1.040	1.050	1.040
Basic Group II (BGII)	1.035	1.030	1.040
Special Causes of Loss	1.035	1.030	1.040

III. LTA CALCULATION:

CALCULATION OF LTAs - BUILDINGS

	(11) External Rate of Change ^d	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA ^e	(15) Frequency Effect	(16) Final LTA ^f
Basic Group I (BGI)	1.028	1.040	1.2	0.6	-1.0	-0.4
Basic Group II (BGII)	1.024	1.035	1.1	0.5	0.0	0.5
Special Causes of Loss	1.028	1.035	0.7	0.3	0.0	0.3

CALCULATION OF LTAs - CONTENTS

	(11) External Rate of Change ^d	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA ^e	(15) Frequency Effect	(16) Final LTA ^f
Basic Group I (BGI)	1.009	1.050	4.1	2.0	-1.5	0.5
Basic Group II (BGII)	1.014	1.030	1.6	0.8	0.0	0.8
Special Causes of Loss	1.009	1.030	2.1	1.0	-0.5	0.5

CALCULATION OF LTAs - TIME ELEMENT

	(11) External Rate of Change ^d	(12) Internal Rate of Change	(13) Indicated Severity LTA [(12)/(11)-1.0]	(14) Formula Severity LTA ^e	(15) Frequency Effect	(16) Final LTA ^f
Basic Group I (BGI)	0.990	1.040	5.1	2.5	0.0	2.5
Basic Group II (BGII)	0.996	1.040	4.4	2.2	0.0	2.2
Special Causes of Loss	0.990	1.040	5.1	2.5	0.0	2.5

(d) The external rates of change are based on external economic indices through December 31, 2016 for Buildings, Contents and Time Element.

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

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

EXPLANATORY NOTES TO TABLE 23

DEVELOPMENT OF LOSS TREND ADJUSTMENTS (LTA'S)

I. EXTERNAL RATE OF CHANGE

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

CURRENT COST FACTORS

The CCF's underlying the LTA analysis are based on external cost indices through 12/31/2016 for buildings, contents and time element.

COLUMNS (4)
AND (5)

WEIGHTS

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

LINES (6)

AVERAGE CURRENT COST FACTORS

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

LINE (7)

LOSS PROJECTION FACTORS

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

LINE (8)

TOTAL TREND

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

LINE (9)

EXTERNAL ANNUAL RATE OF CHANGE

The total trend is converted to an annual basis by raising it to the reciprocal of the number of years between the weighted midpoint of the experience period and the anticipated average accident date. For BG I and SCL the weighted midpoint of the experience period is 1/1/2015, for BG II it is 1/1/2012. Accordingly, there are 54 and 90 months, respectively, to the anticipated average accident date of 7/1/2019.

II. INTERNAL ANNUAL RATES OF CHANGES

LINE (10)

SELECTED COMFAL

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

EXPLANATORY NOTES TO TABLE 23 (cont'd)

III. LTA CALCULATION

COLUMN (11)

ANNUAL EXTERNAL

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

COLUMN (12)

ANNUAL INTERNAL

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

COLUMN (13)

INDICATED SEVERITY LTA

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

COLUMN (14)

FORMULA SEVERITY LTA

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

COLUMN (15)

FREQUENCY EFFECT

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

COLUMN (16)

FINAL LTA

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

TABLE 24A

EXPOSURE TREND
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

Year	Buildings				Contents			
	(1) ^a Annual Written Increase	(2) ^a 07-01-2017 Written Factors	(3) ^b 10-01-2019 Projected Factors	(4) ^c 10-01-2019 Earned Factors	(5) ^a Annual Written Increase	(6) ^a 07-01-2017 Written Factors	(7) ^b 10-01-2019 Projected Factors	(8) ^c 10-01-2019 Earned Factors
2005	3.4%	1.393	1.456	1.493	2.1%	1.267	1.316	1.337
2006	3.8%	1.342	1.403	1.443	2.1%	1.241	1.289	1.309
2007	3.9%	1.292	1.351	1.390	2.4%	1.212	1.259	1.281
2008	3.5%	1.248	1.305	1.340	2.4%	1.184	1.230	1.252
2009	3.3%	1.208	1.263	1.295	2.2%	1.159	1.204	1.224
2010	2.5%	1.179	1.233	1.256	1.7%	1.140	1.184	1.199
2011	2.5%	1.150	1.202	1.225	1.8%	1.120	1.163	1.179
2012	2.7%	1.120	1.171	1.194	1.8%	1.100	1.143	1.158
2013	2.6%	1.092	1.142	1.164	2.1%	1.077	1.119	1.137
2014	2.5%	1.065	1.114	1.135	2.1%	1.055	1.096	1.113
2015	2.3%	1.041	1.088	1.108	1.9%	1.035	1.075	1.091
2016	2.1%	1.020	1.066	1.083	1.8%	1.017	1.056	1.070
2017	2.0%	1.000	1.046	1.061	1.7%	1.000	1.039	1.052

Notes

a The percentages in columns (1) and (5) represent the change in written exposures from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written exposures for each year relative to the latest year.

b The selected average annual changes in Amount of Insurance for projection purposes are 2.0% and 1.7% for Buildings and Contents, respectively. Consequently, the written factors at 07/01/2017 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/01/2019 (i.e., 6 months beyond an assumed revision date of 04/01/2019), by applying a factor of $(1.020)^{27/12}$ for Buildings and $(1.017)^{27/12}$ for Contents.

c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factors used to adjust earned exposures for the period from 10/01/2016 to 09/30/2017 to the projected level are 1.061 for Buildings and 1.052 for Contents.

TABLE 24A (cont'd)

EXPOSURE TREND
DEVELOPMENT OF CURRENT AND PROJECTED EARNED EXPOSURE FACTORS

	Time Element			
	(1) ^a Annual Written <u>Year</u> <u>Increase</u>	(2) ^a 07-01-2017 Written <u>Factors</u>	(3) ^b 10-01-2019 Projected <u>Factors</u>	(4) ^c 10-01-2019 Earned <u>Factors</u>
2005	1.3%	1.127	1.153	1.164
2006	1.4%	1.111	1.136	1.149
2007	1.3%	1.097	1.122	1.133
2008	1.3%	1.083	1.108	1.119
2009	0.8%	1.074	1.098	1.106
2010	0.7%	1.067	1.091	1.096
2011	0.8%	1.059	1.083	1.089
2012	0.8%	1.051	1.075	1.081
2013	0.9%	1.042	1.066	1.073
2014	1.0%	1.032	1.055	1.063
2015	1.1%	1.021	1.044	1.052
2016	1.1%	1.010	1.033	1.041
2017	1.0%	1.000	1.023	1.031

Notes

a The percentage in column (1) represents the change in written exposures from 07/01/n-1 to 07/01/n. Column (2) is the cumulative change in written exposures for each year relative to the latest year.

b The selected average annual change in Net Income (Time Element exposure) for projection purposes is 1.0%. Consequently, the written factors at 07/01/2017 levels in column (2) are brought to the level of the average date of writing in the effective period, 10/01/2019 (i.e., 6 months beyond an assumed revision date of 04/01/2019), by applying a factor of $(1.010)^{27/12}$ for Time Element.

c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factor used to adjust earned exposures for the period from 10/01/2016 to 09/30/2016 to the projected level is 1.031.

TABLE 24B

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

<u>Year</u>	<u>Buildings</u>				<u>Contents</u>			
	<u>(1)^a</u> <u>Annual</u> <u>Written</u> <u>Increase</u>	<u>(2)^a</u> <u>07-01-2017</u> <u>Written</u> <u>Factors</u>	<u>(3)^b</u> <u>10-01-2019</u> <u>Projected</u> <u>Factors</u>	<u>(4)^c</u> <u>10-01-2019</u> <u>Earned</u> <u>Factors</u>	<u>(5)^a</u> <u>Annual</u> <u>Written</u> <u>Increase</u>	<u>(6)^a</u> <u>07-01-2017</u> <u>Written</u> <u>Factors</u>	<u>(7)^b</u> <u>10-01-2019</u> <u>Projected</u> <u>Factors</u>	<u>(8)^c</u> <u>10-01-2019</u> <u>Earned</u> <u>Factors</u>
2005	2.7%	1.308	1.356	1.383	1.8%	1.219	1.258	1.275
2006	3.1%	1.269	1.315	1.346	1.8%	1.197	1.235	1.252
2007	3.1%	1.231	1.276	1.305	2.0%	1.174	1.211	1.229
2008	2.8%	1.197	1.241	1.267	2.0%	1.151	1.188	1.205
2009	2.7%	1.166	1.208	1.233	1.8%	1.131	1.167	1.183
2010	2.0%	1.143	1.185	1.203	1.4%	1.115	1.150	1.163
2011	2.0%	1.121	1.162	1.179	1.5%	1.099	1.134	1.146
2012	2.2%	1.097	1.137	1.156	1.5%	1.083	1.117	1.130
2013	2.1%	1.074	1.113	1.131	1.8%	1.064	1.098	1.112
2014	2.0%	1.053	1.091	1.108	1.8%	1.045	1.078	1.093
2015	1.9%	1.033	1.071	1.086	1.6%	1.029	1.062	1.074
2016	1.7%	1.016	1.053	1.067	1.5%	1.014	1.046	1.058
2017	1.6%	1.000	1.036	1.049	1.4%	1.000	1.032	1.043

Notes

a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.

b The average annual changes in Premium for projection purposes are 1.6% and 1.4% for Buildings and Contents, respectively. Consequently, the written factors at 07/01/2017 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/01/2019 (i.e., 6 months beyond an assumed revision date of 04/01/2019), by applying a factor of $(1.016)^{27/12}$ for Buildings and $(1.014)^{27/12}$ for Contents.

c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factors used to adjust earned premium for the period from 10/01/2016 to 09/30/2016 to the projected level are 1.049 for Buildings and 1.043 for Contents.

TABLE 24C

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

	<u>Buildings</u>				<u>Contents</u>			
	(1) ^a Annual Written <u>Increase</u>	(2) ^a 07-01-2017 Written <u>Factors</u>	(3) ^b 07-01-2019 Projected <u>Factors</u>	(4) ^c 07-01-2019 Earned <u>Factors</u>	(5) ^a Annual Written <u>Increase</u>	(6) ^a 07-01-2017 Written <u>Factors</u>	(7) ^b 07-01-2019 Projected <u>Factors</u>	(8) ^c 07-01-2019 Earned <u>Factors</u>
2005	2.5%	1.283	1.327	1.352	1.6%	1.198	1.233	1.248
2006	2.8%	1.248	1.291	1.318	1.6%	1.179	1.214	1.228
2007	2.9%	1.213	1.254	1.282	1.8%	1.158	1.192	1.208
2008	2.6%	1.182	1.222	1.246	1.8%	1.138	1.172	1.187
2009	2.4%	1.154	1.193	1.215	1.7%	1.119	1.152	1.167
2010	1.9%	1.132	1.171	1.188	1.3%	1.105	1.138	1.149
2011	1.9%	1.111	1.149	1.166	1.4%	1.090	1.122	1.134
2012	2.0%	1.089	1.126	1.143	1.4%	1.075	1.107	1.118
2013	1.9%	1.069	1.105	1.121	1.6%	1.058	1.089	1.102
2014	1.9%	1.049	1.085	1.100	1.6%	1.041	1.072	1.085
2015	1.7%	1.031	1.066	1.080	1.4%	1.027	1.057	1.068
2016	1.6%	1.015	1.050	1.062	1.4%	1.013	1.043	1.054
2017	1.5%	1.000	1.034	1.046	1.3%	1.000	1.029	1.040

Notes

a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.

b The average annual changes in Premium for projection purposes are 1.5% and 1.3% for Buildings and Contents, respectively. Consequently, the written factors at 07/01/2017 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/01/2019 (i.e., 6 months beyond an assumed revision date of 04/01/2019), by applying a factor of $(1.015)^{27/12}$ for Buildings and $(1.013)^{27/12}$ for Contents.

c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factors used to adjust earned premium for the period from 10/01/2016 to 09/30/2017 to the projected level are 1.046 for Buildings and 1.040 for Contents.

TABLE 24D

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

Year	Buildings				Contents			
	(1) ^a Annual Written Increase	(2) ^a 07-01-2017 Written Factors	(3) ^b 07-01-2019 Projected Factors	(4) ^c 07-01-2019 Earned Factors	(5) ^a Annual Written Increase	(6) ^a 07-01-2017 Written Factors	(7) ^b 07-01-2019 Projected Factors	(8) ^c 07-01-2019 Earned Factors
2005	2.6%	1.291	1.335	1.361	1.4%	1.169	1.198	1.211
2006	2.9%	1.255	1.298	1.326	1.4%	1.153	1.182	1.194
2007	3.0%	1.218	1.259	1.288	1.6%	1.135	1.163	1.177
2008	2.7%	1.186	1.226	1.251	1.6%	1.117	1.145	1.159
2009	2.5%	1.157	1.196	1.219	1.4%	1.102	1.129	1.141
2010	1.9%	1.135	1.174	1.191	1.1%	1.090	1.117	1.126
2011	1.9%	1.114	1.152	1.169	1.2%	1.077	1.104	1.114
2012	2.1%	1.091	1.128	1.146	1.2%	1.064	1.091	1.101
2013	2.0%	1.070	1.106	1.123	1.4%	1.049	1.075	1.087
2014	1.9%	1.050	1.086	1.101	1.4%	1.035	1.061	1.072
2015	1.8%	1.031	1.066	1.081	1.2%	1.023	1.048	1.058
2016	1.6%	1.015	1.050	1.062	1.2%	1.011	1.036	1.045
2017	1.5%	1.000	1.034	1.046	1.1%	1.000	1.025	1.033

Notes

a The percentages in columns (1) and (5) represent the change in written premium (reflecting the combined effect of change in exposures and limit of insurance factors) from 07/01/n-1 to 07/01/n. Columns (2) and (6) contain the cumulative changes in written premiums for each year relative to the latest year.

b The average annual changes in Premium for projection purposes are 1.5% and 1.1% for Buildings and Contents, respectively. Consequently, the written factors at 07/01/2017 levels in column (2) and column (6) are brought to the level of the average date of writing in the effective period, 10/01/2019 (i.e., 6 months beyond an assumed revision date of 04/01/2019), by applying a factor of $(1.015)^{27/12}$ for Buildings and $(1.011)^{27/12}$ for Contents.

c Written factors are earned into each accident year ending 12/31 using the following factors which assume all one year policies:

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

For example, the factors used to adjust earned premium for the period from 10/01/2016 to 09/30/2017 to the projected level are 1.046 for Buildings and 1.033 for Contents.

EXPLANATORY NOTES TO TABLES 24A - 24D
EXPOSURE AND PREMIUM TREND FACTORS

Table 24A contains Exposure trend factors.

Tables 24B, 24C and 24D contain Premium trend factors for Basic Group I, Basic Group II and Special Causes of Loss respectively, building and contents. As annual written exposures increase (decrease), the resulting limit of insurance factors used for rating decrease (increase) and the combined effect should be reflected when trending premiums to future level. There are separate premium trend factor tables for Basic Group I, Basic Group II and Special Causes of Loss since there are separate limit of insurance curves for BG I, BG II and SCL.

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

COLUMNS (1)
AND (5)

ANNUAL WRITTEN INCREASE

The annual written increases for buildings, contents, and time element are calculated from the actual changes in amount of insurance from one year to the next for a sample of renewal policies (based on BG I experience). The change in amount of insurance for each policy in the sample was weighted with its prior year's premiums to obtain a weighted average change for each year. The Annual Written Increase in Premiums (Tables 24B, 24C and 24D) are calculated as the Annual Written Increase in Exposure tempered by the change in Limit of Insurance factor.

COLUMNS (2)
AND (6)

07-01-2017 WRITTEN FACTORS

The written factors for a given year are the product of the written annual changes for all years subsequent to that year. Although the 2017 written changes are based on two quarters of data, the consistency of this experience allows for the assumption that written changes for the first half of 2017 are applicable for the entire year.

COLUMNS (3)
AND (7)

10-01-2019 PROJECTED FACTORS

The 10-01-2019 factors are calculated by applying a factor to adjust the 07-01-2017 written factors to the amount of insurance level at the average date of writing, 10-01-2019. This is done using the selected annual changes in exposure or premium.

COLUMNS (4)
AND (8)

10-01-2019 EARNED EXPOSURES/PREMIUM FACTORS

The projected earned factors at the 10-01-2019 level (where 10-01-2019 is the average date of writing in the effective period) are calculated by earning the written factors assuming all one-year policies. The earning factors are shown in footnote (c).

ILLINOIS
TABLE 25

BASIC GROUP I

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		TIME ELEMENT
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT %		
				BUILDINGS	CONTENTS	
2013	44,519,845	56,103,521	1.260	73.1%	22.8%	4.1%
2014	48,112,123	59,213,814	1.231	72.4%	22.4%	5.2%
2015	29,992,430	35,288,399	1.177	75.3%	20.4%	4.3%
2016	58,740,579	67,240,641	1.145	53.8%	35.8%	10.4%
2017	36,338,463	40,407,521	1.112	66.8%	24.8%	8.4%

ILLINOIS
TABLE 26

BASIC GROUP II

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		TIME ELEMENT
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT %		
				BUILDINGS	CONTENTS	
2008	24,025,612	32,835,466	1.367	81.6%	12.5%	5.9%
2009	31,884,817	42,053,261	1.319	89.0%	8.9%	2.1%
2010	36,411,950	47,378,183	1.301	91.1%	7.9%	1.0%
2011	58,479,190	75,542,692	1.292	92.9%	6.0%	1.1%
2012	48,817,858	61,854,466	1.267	95.1%	4.5%	0.4%
2013	15,303,213	19,092,027	1.248	87.9%	10.6%	1.5%
2014	39,921,324	48,990,771	1.227	95.0%	4.2%	0.8%
2015	22,580,312	26,053,981	1.154	83.1%	12.1%	4.8%
2016	22,643,738	25,852,908	1.142	94.3%	5.3%	0.4%
2017	40,221,054	44,432,822	1.105	89.8%	9.1%	1.1%

ILLINOIS
TABLE 27

SPECIAL CAUSES OF LOSS

ADDITIONAL INFORMATION ON TREND ADJUSTMENTS

YEAR	(1)	(2)	(3)	(4)		TIME ELEMENT
	UNADJUSTED INCURRED LOSSES	TRENDED INCURRED LOSSES	AVERAGE TOTAL LOSS TREND FACTOR (2) / (1)	SPLIT %		
				BUILDINGS	CONTENTS	
2013	20,551,154	25,195,632	1.226	79.4%	19.7%	0.9%
2014	31,464,260	38,126,062	1.212	84.5%	11.6%	3.9%
2015	19,171,194	21,768,313	1.135	75.7%	22.5%	1.8%
2016	11,796,073	13,364,831	1.133	71.0%	25.1%	3.9%
2017	14,387,712	15,764,075	1.096	82.8%	15.7%	1.5%

EXPLANATORY NOTES TO TABLES 25, 26 AND 27

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

COLUMN (1) UNADJUSTED INCURRED LOSSES

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

COLUMN (2) TRENDED INCURRED LOSSES

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

COLUMN (3) AVERAGE TREND FACTOR

The average trend factors are the trended incurred losses in column (2) divided by the unadjusted incurred losses in column (1). Although average factors could be calculated from the information contained in Tables 21 through 23, they would differ from the factors shown in this table for the following reasons:

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

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

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

LOSS DEVELOPMENT

INTRODUCTION

For Commercial Property, losses are evaluated as of December 31, 2017, three months after the end of the latest experience year used in the review. In order to account for development of losses beyond fifteen months and to reflect overall loss development patterns, loss development was incorporated into the adjustment process of incurred losses to their ultimate settlement value.

LOSS DEVELOPMENT PROCEDURES

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

The incurred losses underlying the statewide loss cost level indications were evaluated as of December 31, 2017.

Accident year ended September 30, 2017 includes all losses paid on accidents from October 1, 2016 to September 30, 2017 and all losses outstanding on those accidents as of December 31, 2017, fifteen months after the inception of the accident year. Similarly, accident years ended September 30, 2016, 2015, 2014 and 2013 include all losses paid and outstanding as of 27, 39, 51 and 63 months, respectively, after the inception of the accident year.

Thus, the immature experience reported as of 15, 27, 39 or 51 months must be adjusted to an ultimate settlement basis. This adjustment is accomplished through the use of loss development factors based on the historic multistate Basic Group I, Basic Group II, and Special Causes of Loss incurred losses as shown in Table 28.

TABLE 28
 BASIC GROUP I
 INCURRED LOSSES
 LOSS YEARS 2008-2017
 EVALUATED AS OF 12/2017

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2008	936,192,754	904,397,469	886,339,192	886,382,593	883,204,680
9/30/2009	986,660,702	973,566,273	967,107,017	959,667,510	958,095,353
9/30/2010	885,977,270	872,602,980	856,748,592	846,760,240	833,100,151
9/30/2011	923,115,836	911,332,751	892,019,295	883,814,035	883,210,304
9/30/2012	789,642,193	772,756,941	760,724,433	754,436,868	752,119,559
9/30/2013	903,455,107	886,902,045	883,373,919	873,693,457	862,155,324
9/30/2014	886,346,643	877,452,812	866,375,314	857,137,620	
9/30/2015	822,902,718	802,519,667	797,729,002		
9/30/2016	798,342,375	789,306,227			
9/30/2017	934,549,620				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2008	0.966	0.98	1	0.996
9/30/2009	0.987	0.993	0.992	0.998
9/30/2010	0.985	0.982	0.988	0.984
9/30/2011	0.987	0.979	0.991	0.999
9/30/2012	0.979	0.984	0.992	0.997
9/30/2013	0.982	0.996	0.989	0.987
9/30/2014	0.99	0.987	0.989	
9/30/2015	0.975	0.994		
9/30/2016	0.989			
5 POINT AVERAGE	0.983	0.988	0.990	0.993

DEVELOPMENT FACTORS TO ULTIMATE

15 MONTHS TO ULTIMATE = $0.983 \times 0.988 \times 0.990 \times 0.993 = 0.955$
 27 MONTHS TO ULTIMATE = $0.988 \times 0.990 \times 0.993 = 0.971$
 39 MONTHS TO ULTIMATE = $0.990 \times 0.993 = 0.983$
 51 MONTHS TO ULTIMATE = $0.993 = 0.993$

TABLE 28
 BASIC GROUP II
 INCURRED LOSSES
 LOSS YEARS 2008-2017
 EVALUATED AS OF 12/2017

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2008	803,777,068	803,998,685	806,479,380	809,564,889	810,043,871
9/30/2009	541,086,830	575,291,991	579,127,209	582,223,635	583,872,959
9/30/2010	566,663,364	576,988,368	577,881,115	578,972,755	580,213,587
9/30/2011	1,305,433,575	1,353,091,398	1,363,337,233	1,377,676,434	1,391,565,328
9/30/2012	792,617,225	838,423,470	859,935,590	868,153,219	874,835,475
9/30/2013	780,917,745	802,150,505	812,330,151	821,421,260	829,000,643
9/30/2014	593,275,931	612,923,170	626,382,859	639,106,198	
9/30/2015	428,011,830	456,064,840	462,523,057		
9/30/2016	689,210,918	721,590,846			
9/30/2017	763,647,044				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2008	1.000	1.003	1.004	1.001
9/30/2009	1.063	1.007	1.005	1.003
9/30/2010	1.018	1.002	1.002	1.002
9/30/2011	1.037	1.008	1.011	1.010
9/30/2012	1.058	1.026	1.010	1.008
9/30/2013	1.027	1.013	1.011	1.009
9/30/2014	1.033	1.022	1.020	
9/30/2015	1.066	1.014		
9/30/2016	1.047			
5 POINT AVERAGE	1.046	1.017	1.011	1.006

DEVELOPMENT FACTORS TO ULTIMATE

15 MONTHS TO ULTIMATE = 1.046 X 1.017 X 1.011 X 1.006 = 1.082
 27 MONTHS TO ULTIMATE = 1.017 X 1.011 X 1.006 = 1.034
 39 MONTHS TO ULTIMATE = 1.011 X 1.006 = 1.017
 51 MONTHS TO ULTIMATE = 1.006 = 1.006

TABLE 28
SPECIAL CAUSES OF LOSS
INCURRED LOSSES
LOSS YEARS 2008-2017
EVALUATED AS OF 12/2017

LOSSES AS OF					
YEAR ENDING	15 MONTHS	27 MONTHS	39 MONTHS	51 MONTHS	63 MONTHS
9/30/2008	579,738,759	573,732,839	577,689,991	575,799,549	573,522,314
9/30/2009	583,716,254	580,150,616	575,940,850	573,282,642	572,827,429
9/30/2010	696,839,202	692,290,721	684,939,416	685,600,781	684,085,979
9/30/2011	763,620,041	752,796,011	746,190,056	743,767,355	743,259,403
9/30/2012	400,009,681	391,667,791	390,173,633	391,476,002	390,993,485
9/30/2013	460,698,920	454,377,887	447,748,341	448,639,941	449,233,602
9/30/2014	678,657,845	675,971,286	674,828,353	674,170,676	
9/30/2015	635,317,599	630,047,605	628,174,319		
9/30/2016	384,720,247	395,443,065			
9/30/2017	581,397,526				

RATIOS				
YEAR ENDING	27:15 MONTHS	39:27 MONTHS	51:39 MONTHS	63:51 MONTHS
9/30/2008	0.990	1.007	0.997	0.996
9/30/2009	0.994	0.993	0.995	0.999
9/30/2010	0.993	0.989	1.001	0.998
9/30/2011	0.986	0.991	0.997	0.999
9/30/2012	0.979	0.996	1.003	0.999
9/30/2013	0.986	0.985	1.002	1.001
9/30/2014	0.996	0.998	0.999	
9/30/2015	0.992	0.997		
9/30/2016	1.028			
5 POINT AVERAGE	0.996	0.993	1.000	0.999

DEVELOPMENT FACTORS TO ULTIMATE

15 MONTHS TO ULTIMATE = $0.996 \times 0.993 \times 1.000 \times 0.999 = 0.988$

27 MONTHS TO ULTIMATE = $0.993 \times 1.000 \times 0.999 = 0.992$

39 MONTHS TO ULTIMATE = $1.000 \times 0.999 = 0.999$

51 MONTHS TO ULTIMATE = $0.999 = 0.999$

EXPLANATORY NOTES TO TABLE 28

LOSS DEVELOPMENT

INTRODUCTION

Table 28 shows multistate incurred loss development exhibits for Basic Group I, Basic Group II and Special Causes of Loss. The exhibits on Table 28 are arranged identically for each subline and can be summarized as listing the following information: incurred losses by accident year and age, age-to-age factors by accident year, and age-to-ultimate factors.

INCURRED LOSSES

The multistate incurred losses are shown by accident year and age at the top of Table 28. The multistate incurred losses are evaluated as of 15, 27, 39, 51 and 63 months. For Basic Group II, losses due to hurricanes reflected in the modeled hurricane loss costs have been removed from the experience for each rating territory and loss month.

AGE-TO-AGE DEVELOPMENT FACTORS

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

AGE-TO-ULTIMATE DEVELOPMENT FACTORS

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

EXCESS LOSS PROCEDURES

INTRODUCTION

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

BASIC GROUP I

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

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

The Basic Group I normal loss cutoff begins at \$250,000 and varies with the size of loss up to a maximum normal amount (approached asymptotically) of \$1,250,000. (The formula and a graph are shown on Table 29.) The portion of each large loss exceeding the cutoff is considered excess and the portion of any loss up to the cutoff is considered normal.

As noted above, the excess loss procedure is performed on trended loss experience (i.e. loss experience adjusted to prospective cost levels by the current cost factors, loss projection factors, and loss trend adjustment factors (for claim cost only) shown in Tables 21 through 22). The loss trend adjustment for frequency trend is not reflected at this step in the process. The normal breakpoint of \$250,000 for BGI and the parameters in the normal loss formula are at 2005 cost levels and therefore have been similarly adjusted to prospective cost levels.

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

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

EXCESS LOSS PROCEDURES (cont'd)

BASIC GROUP I (cont'd)

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

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

BASIC GROUP II

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

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

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

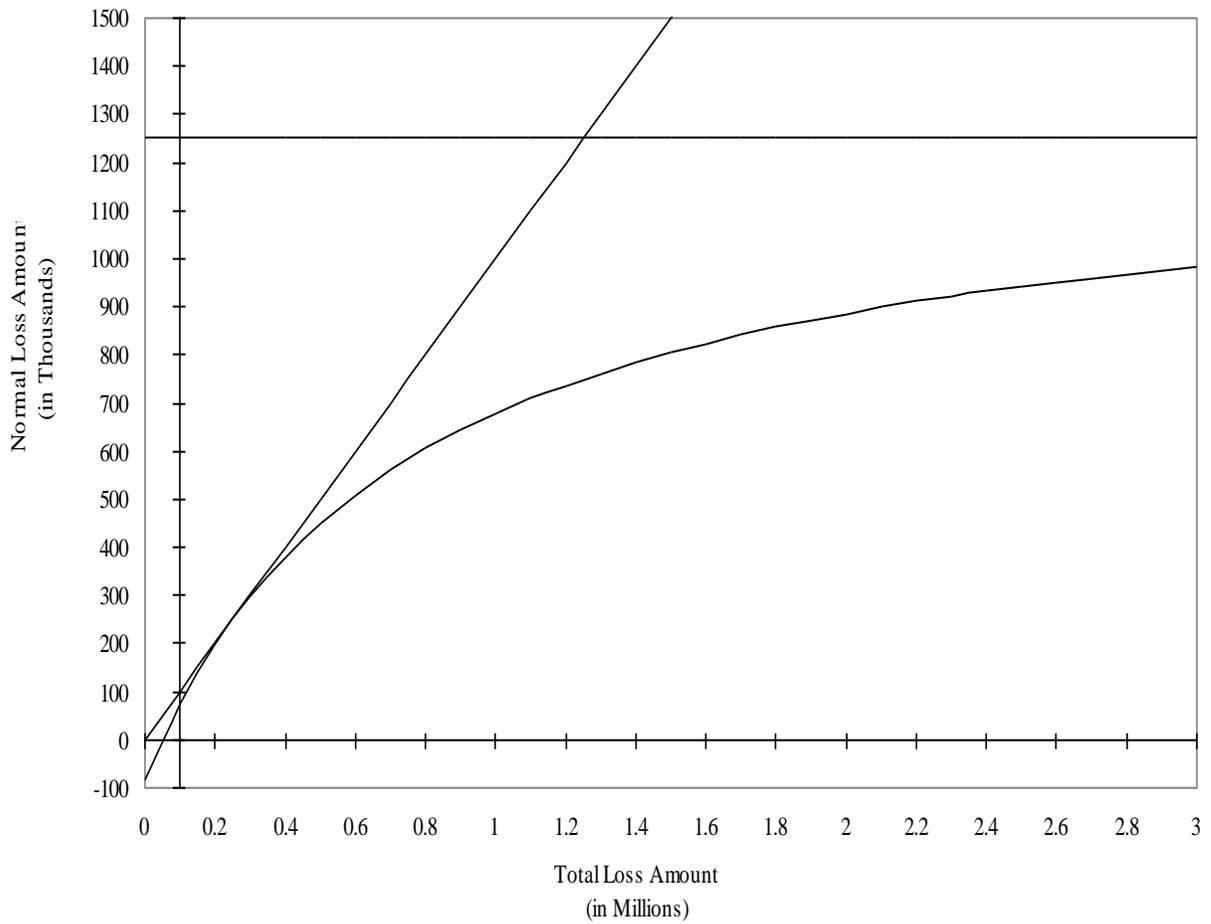
SPECIAL CAUSES OF LOSS

Similar to Basic Group II, the Special Causes of Loss (SCL) smoothing procedure uses a loss ratio approach to reflect both the frequency and severity of unusual loss events which may produce significant fluctuations in loss cost levels. The excess procedure uses longer term statewide SCL experience (1985 - present) to account for the volatile nature of weather related losses (water damage from bursting pipes, or the weight of ice, sleet, or snow) which are the predominant cause of large SCL losses in a given experience period. A monthly normal loss ratio cutoff of 2.0 is used to define normal and excess losses. The resulting ratio of excess to normal losses over the long-term experience period is then applied to the normal losses used in the loss cost level review. SCL has a lower loss ratio cutoff than that used in Basic Group II in order to reflect the less catastrophic nature of unusual SCL loss events. The calculations underlying the smoothing procedure are described in the Explanatory Notes to Table 32.

Table 29 (cont'd)

Countrywide Basic Group I
Normal vs. Total Loss Amount

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



EXPLANATORY NOTES TO TABLES 29

COUNTRYWIDE BASIC GROUP I EXCESS LOSS FACTORS

EXCESS LOSS
FACTORS

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

ILLINOIS
TABLE 30

BASIC GROUP I
ADDITIONAL EXCESS LOSS INFORMATION

YEAR	(1) TRENDED INCURRED LOSSES	(2) TRENDED NORMAL LOSSES	(3) STATE NORMAL % (2) / (1)	(4) MULTI- STATE NORMAL %	(5) ADJUSTED INCURRED LOSSES	(6) STATE AVERAGE EXCESS FACTOR (5) / (2)
2013	56,103,521	41,178,076	73.4%	70.3%	53,768,981	1.306
2014	59,213,814	45,188,695	76.3%	73.4%	62,023,902	1.373
2015	35,288,399	31,195,456	88.4%	72.8%	40,712,982	1.305
2016	67,240,641	33,097,089	49.2%	72.4%	44,980,610	1.359
2017	40,407,521	31,138,472	77.1%	71.3%	43,128,967	1.385

EXPLANATORY NOTES TO TABLE 30

BASIC GROUP I ADDITIONAL EXCESS LOSS INFORMATION

COLUMN (1) TRENDED INCURRED LOSSES

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

COLUMN (2) TRENDED NORMAL LOSSES

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

COLUMN (3) STATE NORMAL PERCENTAGE

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

COLUMN (4) MULTISTATE NORMAL PERCENTAGES

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

COLUMN (5) ADJUSTED INCURRED LOSSES

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

COLUMN (6) STATE AVERAGE EXCESS FACTOR

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

ILLINOIS
TABLE 31A

DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

YEAR	(1) EARNED PREMIUMS	(2) INCURRED LOSSES	(3) NORMAL INCURRED LOSSES	(4) NORMAL LOSS RATIO	(5) STATE EXCESS LOSS RATIO	(6) REGIONAL EXCESS LOSS RATIO
1950	7,921,754	2,037,114	2,037,114	0.257		
1951	8,847,491	1,995,090	1,995,090	0.225		
1952	9,861,004	2,178,021	2,178,021	0.221		
1953	7,722,469	4,073,123	4,073,123	0.527		
1954	8,143,287	4,460,086	4,460,086	0.548		
1955	8,335,770	3,130,329	3,130,329	0.376		
1956	7,893,560	4,900,065	4,900,065	0.621		
1957	8,490,155	3,495,516	3,495,516	0.412		
1958	9,036,433	3,234,126	3,234,126	0.358		
1959	9,575,763	5,252,762	5,252,762	0.549		
1960	10,176,863	4,146,011	4,146,011	0.407		
1961	10,420,138	6,600,763	6,600,763	0.633		
1962	10,602,807	5,334,068	5,334,068	0.503		
1963	10,121,594	5,136,884	5,136,884	0.508		
1964	9,472,201	6,009,103	6,009,103	0.634		
1965	8,887,079	7,759,621	6,514,229	0.733	0.132	0.008
1966	8,291,892	4,837,501	4,837,501	0.583		
1967	7,959,116	8,795,720	5,834,032	0.733	0.318	0.054
1968	7,575,768	7,716,936	5,553,038	0.733	0.253	0.033
1969	8,409,672	2,991,169	2,991,169	0.356		
1970	12,778,390	4,975,272	4,975,272	0.389		
1971	17,281,753	6,442,448	6,442,448	0.373		
1972	20,453,698	15,205,867	14,992,561	0.733	0.010	
1973	21,982,066	7,618,233	7,618,233	0.347		
1974	23,354,866	15,449,083	15,449,083	0.661		
1975	22,358,737	15,046,505	15,046,505	0.673		
1976	38,544,502	14,004,427	14,004,427	0.363		
1977	42,747,805	15,141,980	15,141,980	0.354		
1978	46,924,548	17,105,354	17,105,354	0.365		
1979	43,586,406	32,546,688	29,400,976	0.675	0.069	0.003
1980	34,618,931	28,678,875	21,949,926	0.634	0.175	0.019
1981	27,981,386	19,059,788	18,607,906	0.665	0.016	
1982	26,524,272	31,090,989	26,020,240	0.981	0.181	0.010
1983	27,045,120	15,789,232	15,789,232	0.584		
1984	25,896,720	24,666,241	17,890,622	0.691	0.226	0.035
1985	35,446,512	10,876,506	10,876,506	0.307		
1986	49,681,572	7,161,421	7,161,421	0.144		
1987	50,209,506	11,281,196	11,281,196	0.225		
1988	47,650,548	15,713,136	15,713,136	0.330		
1989	41,076,462	12,206,617	12,206,617	0.297		

ILLINOIS
TABLE 31A

DEVELOPMENT OF BASIC GROUP II EXCESS MULTIPLIER

YEAR	(1) EARNED PREMIUMS	(2) INCURRED LOSSES	(3) NORMAL INCURRED LOSSES	(4) NORMAL LOSS RATIO	(5) STATE EXCESS LOSS RATIO	(6) REGIONAL EXCESS LOSS RATIO
1990	39,269,058	14,160,072	14,160,072	0.361		
1991	39,149,985	14,789,449	14,789,449	0.378		
1992	39,061,290	7,714,553	7,714,553	0.197		
1993	35,610,099	6,269,463	6,269,463	0.176		
1994	36,831,864	5,493,131	5,493,131	0.149		
1995	36,351,567	6,931,307	6,931,307	0.191		
1996	30,984,600	18,882,942	16,890,149	0.545	0.062	0.002
1997	25,611,333	12,879,022	12,879,022	0.503		
1998	21,437,601	21,797,793	19,050,359	0.889	0.121	0.007
1999	20,827,857	11,496,993	11,496,993	0.552		
2000	20,643,342	18,497,708	13,954,083	0.676	0.195	0.025
2001	21,401,190	14,712,161	14,712,161	0.687		
2002	24,759,672	13,377,129	11,946,507	0.482	0.056	0.002
2003	26,480,271	14,139,631	14,139,631	0.534		
2004	28,543,218	7,975,988	7,975,988	0.279		
2005	31,480,956	7,873,892	7,873,892	0.250		
2007	53,726,064	50,208,147	47,259,631	0.880	0.054	0.001
2008	34,628,969	24,025,612	24,025,612	0.694		
2009	35,867,017	31,884,817	21,995,542	0.613	0.237	0.039
2010	37,288,155	36,411,950	22,054,218	0.591	0.341	0.045
2011	35,227,164	58,479,190	37,654,692	1.069	0.496	0.095
2012	36,837,866	48,817,858	32,965,995	0.895	0.343	0.087
2013	39,542,243	15,303,213	15,303,213	0.387		
2014	44,563,929	39,921,324	36,050,830	0.809	0.082	0.005
2015	46,072,219	22,580,312	22,580,312	0.490		
2016	46,985,104	22,643,738	22,643,738	0.482		
2017	48,849,034	40,221,054	40,221,054	0.823		
TOTALS				34.290	3.367	0.470

(7) STATE EXCESS COMPONENT = (SELR / NLR) = 0.098

(8) REGIONAL EXCESS COMPONENT = 0.083

(9) STATE EXCESS MULTIPLIER = (1 + SEC) * (1 + REC) = 1.189

NOTE: FOR YEARS PRIOR TO 2006, THE DISPLAYED YEAR INCLUDES DATA FOR ACCIDENT YEAR ENDING 12/31. FOR YEARS 2008 TO 2017, THE DISPLAYED YEAR INCLUDES DATA FOR ACCIDENT YEAR ENDING 09/30. THE DISPLAYED YEAR 2007 INCLUDES DATA FOR FIRST QUARTER 2006 THROUGH THIRD QUARTER 2007.

EXPLANATORY NOTES TO TABLE 31A

COLUMN (1)

EARNED PREMIUMS

The unadjusted earned premiums are shown for each year.

COLUMN (2)

INCURRED LOSSES

The unadjusted incurred losses are shown for each year.

COLUMN (3)

NORMAL INCURRED LOSSES

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

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

COLUMN (4)

NORMAL LOSS RATIO

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

COLUMN (5)

STATE EXCESS LOSS RATIO

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

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

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

$$\bullet \quad EP \times \frac{2.2(LR-.733)}{(LR-.733)+2.2} \text{ if } LR > 0.733; \text{ otherwise } 0$$

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

EXPLANATORY NOTES TO TABLE 31A (cont'd)

COLUMN (6)

REGIONAL EXCESS LOSS RATIO

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

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

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

LINE (7)

STATE EXCESS COMPONENT

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

LINE (8)

REGIONAL EXCESS COMPONENT

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

LINE (9)

STATE EXCESS MULTIPLIER

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

TABLE 31B

BASIC GROUP II REGIONS

NORTHEAST REGION

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

PLAINS REGION

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

SOUTHEAST REGION

ALABAMA
FLORIDA
GEORGIA
LOUISIANA
MISSISSIPPI
NORTH CAROLINA
SOUTH CAROLINA
HAWAII

MIDWEST REGION

ILLINOIS
INDIANA
KENTUCKY
MICHIGAN
OHIO
TENNESSEE
WEST VIRGINIA
WISCONSIN

WEST REGION

ARIZONA
CALIFORNIA
IDAHO
NEVADA
NEW MEXICO
OREGON
UTAH
WASHINGTON
ALASKA

ILLINOIS

TABLE 32 - DEVELOPMENT OF SPECIAL CAUSES OF LOSS EXCESS MULTIPLIER

YEAR	(1) EARNED PREMIUMS	(2) INCURRED LOSSES	(3) NORMAL INCURRED LOSSES	(4) NORMAL LOSS RATIO	(5) STATE EXCESS LOSS RATIO
1986	25,274,346	12,482,041	12,482,041	0.494	
1987	28,022,169	13,176,456	12,674,679	0.452	0.018
1988	26,809,722	15,812,065	15,812,065	0.590	
1989	25,108,056	18,155,922	18,155,922	0.723	
1990	30,469,173	27,776,250	26,380,314	0.866	0.046
1991	35,563,614	22,167,780	22,167,780	0.623	
1992	36,104,868	22,695,956	20,844,647	0.577	0.052
1993	34,216,497	16,921,357	16,921,357	0.495	
1994	32,953,584	23,802,012	20,431,755	0.620	0.102
1995	34,254,096	15,161,048	15,161,048	0.443	
1996	33,910,779	22,304,979	22,304,979	0.658	
1997	32,948,877	16,333,104	16,333,104	0.496	
1998	30,301,194	14,270,785	14,270,785	0.471	
1999	31,724,127	36,439,433	20,839,509	0.657	0.492
2000	31,774,962	20,775,280	20,775,280	0.654	
2001	29,491,833	26,769,200	24,650,756	0.836	0.072
2002	31,281,102	19,900,695	19,900,695	0.636	
2003	34,974,084	13,223,061	13,223,061	0.378	
2004	36,945,291	12,438,654	12,438,654	0.337	
2005	37,231,629	15,600,963	15,600,963	0.419	
2006	34,905,684	23,165,157	23,165,157	0.664	
2007	32,296,743	32,267,814	30,743,985	0.952	0.047
2008	29,148,120	32,552,826	30,647,418	1.051	0.066
2009	29,913,468	26,063,854	23,370,133	0.781	0.090
2010	30,751,590	26,653,059	25,054,569	0.815	0.052
2011	29,970,003	29,353,619	26,129,099	0.872	0.107
2012	30,107,295	15,537,057	15,537,057	0.516	
2013	31,674,005	20,551,154	16,685,610	0.527	0.122
2014	33,945,898	31,464,260	24,808,332	0.731	0.196
2015	34,629,153	19,171,194	17,565,867	0.507	0.047
2016	34,760,608	11,796,073	11,796,073	0.339	
2017	34,901,783	14,387,712	14,387,712	0.412	
TOTALS		669,170,820	621,260,406	19.592	1.509

(6) STATE EXCESS COMPONENT = (SELR / NLR) = 0.077

(7) STATE EXCESS MULTIPLIER = (1 + SEC) = 1.077

EXPLANATORY NOTES TO TABLE 32

SPECIAL CAUSES OF LOSS ADDITIONAL EXCESS LOSS FACTOR

COLUMN (1) EARNED PREMIUMS

These are the unadjusted earned premiums for each year.

COLUMN (2) INCURRED LOSSES

These are the unadjusted incurred losses for each year.

COLUMN (3) NORMAL INCURRED LOSSES

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

COLUMN (4) NORMAL LOSS RATIO

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

Column (4) = Column (3) ÷ Column (1)

COLUMN (5) EXCESS LOSS RATIO

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

LINE (6) EXCESS COMPONENT

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

LINE (7) EXCESS MULTIPLIER

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

OVERVIEW

APPLICATION OF CREDIBILITY

INTRODUCTION

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

Z = credibility

C = final estimate

R = estimate based on the most recent data

N = net trend

Credibility may range from 0 to 1, where $Z=1$ is full credibility and $Z=0$ is no credibility. The actual numerical value of Z is calculated by considering how the state's volume of experience compares with an established full credibility standard. Credibility is capped at 25% if the credibility calculated is below 25%. See Tables 33, 33A, and 34 for a complete explanation of the credibility standards for Basic Group I, Basic Group II, and Special Causes of Loss.

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TABLE 33 - BASIC GROUP I STATEWIDE CREDIBILITY CALCULATION

(1a)	FULL CREDIBILITY CLAIMS STANDARD FOR FREQUENCY WITH (P,K) = (95.00% , 5.00%)	1,537
(1b)	SEVERITY MODIFICATION FACTOR	8.767
(1c)	FULL CREDIBILITY CLAIMS STANDARD ADJUSTED FOR SEVERITY ((1a) X (1b))	13,475
(2)	MULTISTATE FIVE YEAR RATIO OF EARNED RISKS TO CLAIMS	339.119
(3)	FULL CREDIBILITY EARNED RISKS STANDARD (1c) X (2)	4,569,629
(4)	FIVE YEAR STATEWIDE EARNED RISKS	942,552
(5)	FIVE YEAR AGGREGATE LOSS COSTS	228,173,272
(6)	AGGREGATE LOSS COSTS PER EARNED RISK (5)/(4)	242.080
(7)	AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	1,106,215,788
(8)	STATEWIDE CREDIBILITY ((5)/(7))**(.5)	45.4%

ILLINOIS

TABLE 33A - BASIC GROUP II STATEWIDE CREDIBILITY CALCULATION

(1) FULL CREDIBILITY CLAIMS STANDARD	30,000
(2) MULTISTATE TEN YEAR RATIO OF EARNED RISKS TO CLAIMS	137.074
(3) FULL CREDIBILITY EARNED RISKS STANDARD (1) X (2)	4,112,220
(4) TEN YEAR STATEWIDE EARNED RISKS	1,851,345
(5) TEN YEAR AGGREGATE LOSS COSTS	400,306,995
(6) AGGREGATE LOSS COSTS PER EARNED RISK (5) / (4)	216.225
(7) AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	889,164,770
(8) STATEWIDE CREDIBILITY ((5) / (7)) ** (.5)	67.1%

ILLINOIS

TABLE 34 - SPECIAL CAUSES OF LOSS STATEWIDE CREDIBILITY CALCULATION

(1) FULL CREDIBILITY CLAIMS STANDARD	25,000
(2) MULTISTATE FIVE YEAR RATIO OF EARNED RISKS TO CLAIMS	171.493
(3) FULL CREDIBILITY EARNED RISKS STANDARD (1) X (2)	4,287,325
(4) FIVE YEAR STATEWIDE EARNED RISKS	898,352
(5) FIVE YEAR AGGREGATE LOSS COSTS	124,068,755
(6) AGGREGATE LOSS COSTS PER EARNED RISK (5) / (4)	138.107
(7) AGGREGATE LOSS COSTS FOR 100% CREDIBILITY (3) X (6)	592,109,594
(8) STATEWIDE CREDIBILITY ((5) / (7)) ** (.5)	45.8%

EXPLANATORY NOTES TO TABLES 33, 33A AND 34

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

LINE (1a)
(BGI only)

Full Credibility Claims Standard of Frequency

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

LINE (1b)
(BGI only)

Severity Modification Factor

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

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

Full Credibility Claims Standard

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

LINE (2)

Multistate Experience Period Ratio of Earned Risks to Claims

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

LINE (3)

Full Credibility Earned Risks Standard

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

LINE (4)

Experience Period Statewide Earned Risks

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

EXPLANATORY NOTES TO TABLE 33, 33A, AND 34 (cont'd)

LINE (5) Experience Period Aggregate Loss Costs

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

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

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

LINE (7) Full Credibility Aggregate Loss Costs Standard

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

LINE (8) Credibility

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

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

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

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SECTION D - ADDITIONAL SUPPORTING MATERIAL

Basic Group I Rating Group Definitions (Table 36)	D2-6
Special Causes of Loss Category Definitions (Table 37)	D7-9
Unadjusted Loss Costs, Incurred Losses, Experience Ratios (Tables 38 - 40)	D10-12
Loss Adjustment Expense Factors (Table 41)	D13-14

TABLE 36

BASIC GROUP I RATING GROUP DEFINITIONS

THE FOLLOWING CSP CLASSES COMPRISE THE BASIC GROUP I RATING GROUPS

01 APARTMENTS

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

02 OTHER HABITATIONAL

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

03 RESTAURANTS & BARS

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

04 OTHER MERCANTILES

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

05 PUBLIC BUILDINGS

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

06 CHURCHES

- 0900 Churches and Synagogues

07 SCHOOLS

- 1052 Schools, Academic

08 OFFICE AND BANKS

- 0702 Non-Governmental Offices and Banks

09 RECREATIONAL FACILITIES

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

10 HOTELS & MOTELS

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

11 HOSPITALS & NURSING HOMES

- 0851 Hospitals
- 0852 Nursing and Convalescent Homes

12 BUILDINGS UNDER CONSTRUCTION

- 1150 Buildings Under Construction

13 MOTOR VEHICLE RISKS

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

14 OTHER NON-MANUFACTURING

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

15 STORAGE

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

17 FOOD MANUFACTURING

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

18 WOOD MANUFACTURING

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

19 WEARING APPAREL

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

20 CHEMICAL MANUFACTURING

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

21 METAL MANUFACTURING

- 6810 Heavy Metalworking including Basic Metalwork
- 6850 Metalworking, NOC

22 OTHER MANUFACTURING

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

TABLE 37

SPECIAL CAUSES OF LOSS CATEGORY DEFINITIONS

CATEGORY 01 - BUILDING AND TIME ELEMENT COVERAGE

CATEGORY 02 - APARTMENT AND CONDOMINIUM CONTENTS COVERAGE

CATEGORY 03 - OFFICE CONTENTS COVERAGE

CATEGORIES 04, 05, & 06 - MERCANTILE CONTENTS COVERAGE

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

CATEGORY 04 - MERCANTILE CONTENTS COVERAGE (HIGH)

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

CATEGORY 05 - MERCANTILE CONTENTS COVERAGE (MEDIUM)

Occupancy classes not listed in Category 04 or Category 06

CATEGORY 06 - MERCANTILE CONTENTS COVERAGE (LOW)

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

CATEGORY 07 - MOTEL & HOTEL CONTENTS COVERAGE

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

TABLE 37

SPECIAL CAUSES OF LOSS CATEGORY DEFINITIONS

CATEGORIES 08 & 09 - INSTITUTIONAL CONTENTS COVERAGE

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

CATEGORY 08 - INSTITUTIONAL CONTENTS COVERAGE (HIGH)

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

CATEGORY 09 - INSTITUTIONAL CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 08

CATEGORIES 10 & 11 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE

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

CATEGORY 10 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE (HIGH)

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

CATEGORY 11 - INDUSTRIAL & PROCESSING CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 10

TABLE 37

SPECIAL CAUSES OF LOSS CATEGORY DEFINITIONS

CATEGORIES 12 & 13 - SERVICE CONTENTS COVERAGE

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

CATEGORY 12 - SERVICE CONTENTS COVERAGE (HIGH)

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

CATEGORY 13 - SERVICE CONTENTS COVERAGE (LOW)

Occupancy classes not listed in Category 12

CATEGORY 14 - CONTRACTOR CONTENTS COVERAGE

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

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TABLE 38

BASIC GROUP I

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
2013	34,618,732	44,519,845	1.286
2014	36,118,378	48,112,123	1.332
2015	36,525,469	29,992,430	0.821
2016	34,490,986	58,740,579	1.703
2017	32,624,229	36,338,463	1.114

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TABLE 39

BASIC GROUP II

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
2008	17,114,790	24,025,612	1.404
2009	17,727,041	31,884,817	1.799
2010	18,436,217	36,411,950	1.975
2011	17,413,565	58,479,190	3.358
2012	18,206,760	48,817,858	2.681
2013	19,545,938	15,303,213	0.783
2014	22,040,245	39,921,324	1.811
2015	22,867,420	22,580,312	0.987
2016	23,260,251	22,643,738	0.973
2017	24,155,827	40,221,054	1.665

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TABLE 40

SPECIAL CAUSES OF LOSS

UNADJUSTED AGGREGATE LOSS COSTS, LOSSES, AND EXPERIENCE RATIOS

YEAR	TOTAL UNADJUSTED LOSS COSTS	TOTAL UNADJUSTED INCURRED LOSSES	EXPERIENCE RATIO
2013	15,650,072	20,551,154	1.313
2014	16,772,832	31,464,260	1.876
2015	17,115,061	19,171,194	1.120
2016	17,177,104	11,796,073	0.687
2017	17,253,048	14,387,712	0.834

OVERVIEW

LOSS ADJUSTMENT EXPENSE FACTORS

OBJECTIVE	The reported indemnity losses must be loaded for any loss adjustment expenses (LAE) that are not reported in statistical detail to ISO.
PROPERTY COVERAGES	For the property coverages, only the incurred indemnity losses are reported to ISO under the Commercial Statistical Plan. All loss adjustment expenses must be loaded in. A factor representing the ratio of incurred losses plus all LAE to incurred losses was selected based on multistate financial data (see Table 41 for the underlying data).
EXPERIENCE INCLUDED	Fire and Allied Lines incurred loss and loss adjustment expense experience for 2012-2016 is displayed on Table 41. The experience is based on Insurance Expense Exhibit information compiled by A.M. Best. For Allied Lines, the loss adjustment expense ratios [Table 41, line (3)(b)] for several years are distorted by unusual catastrophe-related losses and loss adjustment expenses. The selected Allied Lines loss adjustment expense factor used for this review was selected after consideration of this distortion and based on a review of average loss adjustment expense ratios over a longer time period.
SELECTED FACTORS	The following factors have been used in this review to load incurred losses for all loss adjustment expenses:

Basic Group I	1.100
Basic Group II	1.125
Special Causes of Loss	1.125

TABLE 41

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

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>Selected</u>
(1) Fire						
(a) Direct Losses Incurred	5,023,106	4,688,160	5,453,055	5,307,898	5,625,399	
(b) Direct Loss Adjustment Expense Incurred	483,790	467,349	541,303	522,374	538,861	
(2) Allied Lines						
(a) Direct Losses Incurred	8,611,569	4,802,876	4,490,338	4,730,020	6,303,537	
(b) Direct Loss Adjustment Expense Incurred	807,626	702,307	617,997	650,322	701,782	
(3) Loss Adjustment Expense as a Ratio to Losses						
(a) Fire (1b) / (1a)	9.6%	10.0%	9.9%	9.8%	9.6%	10.0%
(b) Allied Lines (2b) / (2a)	9.4%	14.6%	13.8%	13.7%	11.1%	12.5%

NOTE: All dollar amounts are displayed in thousands.

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

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COMMERCIAL PROPERTY INSURANCE

SECTION E - REVISED LOSS COST PAGES

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

70. CAUSES OF LOSS – BASIC FORM

E. Rating Procedure

2. Property Damage – Group II Causes Of Loss

e. Loss Costs

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

		Symbol/Loss Cost			
		AA	A	AB	B
Cook County					
Buildings		.038-.035	.042-.038	.056-.054	.065-.059
Contents		.052-.047	.057-.052	.068-.062	.075-.068
Balance of State					
Buildings		.049-.045	.055-.050	.071-.065	.084-.076
Contents		.065-.059	.073-.066	.088-.080	.099-.090

72. CAUSES OF LOSS – SPECIAL FORM

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

b.(1) Building Coverage – Loss Cost: .033

c.(2) Personal Property Coverage – Loss Costs

Occupancy Category	Loss Cost
Residential Apartments and Condominiums	.086 .101
Offices	.086 .097
Mercantile – High	.112 .125
Mercantile – Medium	.095 .102
Mercantile – Low	.084 .085
Motels and Hotels	.059 .059
Institutional – High	.031 .033
Institutional – Low	.022 .029
Industrial and Processing – High	.143 .141
Industrial and Processing – Low	.133 .129
Service – High	.161 .148
Service – Low	.072 .078
Contractors	.147 .141
Territory (County)	Territorial Multiplier
Cook	1.480
St. Clair	1.216
Remainder of State	1.000

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LOSS COST PAGES

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85. BASIC GROUP I CLASS LOSS COSTS

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0074	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Up to 10 Units					
0075	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – 11 to 30 Units					
0076	Boarding and Lodging Houses, Rooming Houses, Fraternities and Sororities, Dormitories – Over 30 Units					
0077	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Up to 10 Units					
0078	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – 11 to 30 Units					
0079	Convents, Monasteries and Rectories, Orphan Homes, Nurses' Homes, Sisters' Homes – Over 30 Units					
0196	1 Family Dwellings (Lessor's Risk)					
0197	2 Family Dwellings (Lessor's Risk)					
0198	3 or 4 Family Dwellings (Lessor's Risk)					
0311	Apartments without Mercantile Occupancies – Up to 10 Units					
0312	Apartments without Mercantile Occupancies – 11 to 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0074	Building (1)	0.103	0.093	0.083	0.067	0.063
	Contents (2)	0.104	0.093	0.088	0.078	0.072
0075	Building (1)	0.103	0.093	0.083	0.067	0.063
	Contents (2)	0.104	0.093	0.088	0.078	0.072
0076	Building (1)	0.103	0.093	0.083	0.067	0.063
	Contents (2)	0.104	0.093	0.088	0.078	0.072
0077	Building (1)	0.094	0.085	0.076	0.061	0.057
	Contents (2)	0.099	0.088	0.084	0.075	0.069
0078	Building (1)	0.094	0.085	0.076	0.061	0.057
	Contents (2)	0.099	0.088	0.084	0.075	0.069
0079	Building (1)	0.094	0.085	0.076	0.061	0.057
	Contents (2)	0.099	0.088	0.084	0.075	0.069
0196	Building (1)	0.064	0.058	0.051	0.041	0.039
	Contents (2)	0.071	0.064	0.060	0.052	0.050
0197	Building (1)	0.064	0.058	0.051	0.041	0.039
	Contents (2)	0.071	0.064	0.060	0.052	0.050
0198	Building (1)	0.064	0.058	0.051	0.041	0.039
	Contents (2)	0.071	0.064	0.060	0.052	0.050
0311	Building (1)	0.106	0.096	0.085	0.069	0.063
	Contents (2)	0.118	0.107	0.103	0.090	0.084
0312	Building (1)	0.106	0.096	0.085	0.069	0.063
	Contents (2)	0.118	0.107	0.103	0.090	0.084
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0313 0321 0322 0323 0331 0332 0333	Apartments without Mercantile Occupancies – Over 30 Units Apartments with Mercantile Occupancies – Up to 10 Units Apartments with Mercantile Occupancies – 11 to 30 Units Apartments with Mercantile Occupancies – Over 30 Units Residential Condominiums without Mercantile Occupancies – Up to 10 Units Residential Condominiums without Mercantile Occupancies – 11 to 30 Units Residential Condominiums without Mercantile Occupancies – Over 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0313	Building (1)	0.106	0.096	0.085	0.069	0.063
	Contents (2)	0.118	0.107	0.103	0.090	0.084
0321	Building (1)	0.162	0.147	0.130	0.106	0.097
	Contents (2)					
	A	0.241	0.218	0.206	0.181	0.168
	B&C	0.283	0.255	0.240	0.212	0.199
0322	Building (1)	0.162	0.147	0.130	0.106	0.097
	Contents (2)					
	A	0.241	0.218	0.206	0.181	0.168
	B&C	0.283	0.255	0.240	0.212	0.199
0323	Building (1)	0.162	0.147	0.130	0.106	0.097
	Contents (2)					
	A	0.241	0.218	0.206	0.181	0.168
	B&C	0.283	0.255	0.240	0.212	0.199
0331	Building (1)	0.058	0.053	0.047	0.038	0.036
	Contents (2)	0.052	0.045	0.045	0.040	0.036
0332	Building (1)	0.058	0.053	0.047	0.038	0.036
	Contents (2)	0.052	0.045	0.045	0.040	0.036
0333	Building (1)	0.058	0.053	0.047	0.038	0.036
	Contents (2)	0.052	0.045	0.045	0.040	0.036
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0341	Residential Condominiums with Mercantile Occupancies – Up to 10 Units					
0342	Residential Condominiums with Mercantile Occupancies – 11 to 30 Units					
0343	Residential Condominiums with Mercantile Occupancies – Over 30 Units					
0511	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Low Susceptibility					
0512	Mercantile – Sole Occupancy Only – Tire, Battery and Accessory Dealers without Tire Recapping and Vulcanizing					
0520	Mercantile – Sole Occupancy Only – Wearing Apparel, Textiles, Shoes					
0531	Mercantile – Sole Occupancy Only – Alcoholic Beverages other than Bars					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0341	Building (1)	0.093	0.082	0.075	0.059	0.056
	Contents (2)					
	A	0.106	0.095	0.089	0.078	0.073
	B&C	0.123	0.109	0.106	0.093	0.087
0342	Building (1)	0.093	0.082	0.075	0.059	0.056
	Contents (2)					
	A	0.106	0.095	0.089	0.078	0.073
	B&C	0.123	0.109	0.106	0.093	0.087
0343	Building (1)	0.093	0.082	0.075	0.059	0.056
	Contents (2)					
	A	0.106	0.095	0.089	0.078	0.073
	B&C	0.123	0.109	0.106	0.093	0.087
0511	Building (1)	0.076	0.067	0.061	0.049	0.046
	Contents (2)	0.126	0.114	0.106	0.095	0.090
0512	Building (1)	0.073	0.064	0.058	0.047	0.044
	Contents (2)	0.112	0.101	0.095	0.085	0.079
0520	Building (1)	0.091	0.081	0.073	0.059	0.055
	Contents (2)	0.164	0.149	0.139	0.122	0.115
0531	Building (1)	0.077	0.069	0.061	0.050	0.046
	Contents (2)	0.133	0.119	0.112	0.101	0.094
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0532	Merc – Sole Occy Only – Food Products Inc. Retail Bakeries; Non-Alcoholic Beverages (Sales Only – No Baking or Cooking)					
0533	Mercantile – Sole Occupancy Only – Baking on Premises, No Delivery to Outlets					
0534	Mercantile – Sole Occupancy Only – Food Products with Limited Cooking, Excluding Bakeries					
0541	Mercantile – Sole Occupancy Only – Bars and Taverns					
0545	Mercantile – Sole Occupancy Only – Restaurants with Limited Cooking					
0550	Mercantile – Sole Occupancy Only – Motor Vehicles, No Repair					
0561	Mercantile – Sole Occupancy Only – Boat and Marine Supply Dealers					
0562	Mercantile – Sole Occupancy Only – Drugs					
0563	Mercantile – Sole Occupancy Only – Electrical Goods, Hardware and Machinery					
0564	Mercantile – Sole Occupancy Only – Furniture and Home Furnishings other than Appliances					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0532	Building (1)	0.117	0.104	0.093	0.076	0.070
	Contents (2)	0.164	0.149	0.139	0.122	0.115
0533	Building (1)	0.091	0.082	0.074	0.059	0.055
	Contents (2)	0.132	0.118	0.111	0.100	0.092
0534	Building (1)	0.127	0.115	0.102	0.084	0.077
	Contents (2)	0.137	0.124	0.118	0.103	0.097
0541	Building (1)	0.159	0.143	0.128	0.103	0.095
	Contents (2)	0.171	0.152	0.145	0.128	0.118
0545	Building (1)	0.188	0.167	0.150	0.120	0.114
	Contents (2)	0.212	0.192	0.180	0.159	0.147
0550	Building (1)	0.069	0.062	0.055	0.045	0.042
	Contents (2)	0.136	0.122	0.117	0.102	0.095
0561	Building (1)	0.073	0.065	0.058	0.047	0.044
	Contents (2)	0.136	0.122	0.117	0.102	0.095
0562	Building (1)	0.082	0.075	0.066	0.055	0.050
	Contents (2)	0.152	0.136	0.129	0.114	0.105
0563	Building (1)	0.081	0.074	0.065	0.054	0.049
	Contents (2)	0.112	0.101	0.095	0.085	0.079
0564	Building (1)	0.112	0.101	0.091	0.074	0.067
	Contents (2)	0.198	0.179	0.168	0.149	0.138
Territory						Territorial Multiplier
Chicago						1.562
Balance of State (Illinois)						1.000

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0565	Mercantile – Sole Occupancy Only – Jewelry					
0566	Mercantile – Sole Occupancy Only – Sporting Goods					
0567	Mercantile – Sole Occupancy Only – Not Otherwise Classified – Moderate Susceptibility					
0570	Mercantile – Sole Occupancy Only – Not Otherwise Classified – High Susceptibility					
0580	Greenhouses – Sole Occupancy Only					
0581	Mercantile – Multiple Occupancy without 0564 Occupant					
0582	Mercantile – Multiple Occupancy with 0564 Occupant					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0565	Building (1)	0.076	0.067	0.060	0.049	0.045
	Contents (2)	0.110	0.100	0.094	0.084	0.078
0566	Building (1)	0.085	0.077	0.067	0.055	0.051
	Contents (2)	0.149	0.134	0.126	0.111	0.104
0567	Building (1)	0.076	0.067	0.061	0.049	0.046
	Contents (2)	0.126	0.114	0.106	0.095	0.090
0570	Building (1)	0.076	0.067	0.061	0.049	0.046
	Contents (2)	0.133	0.119	0.112	0.101	0.094
0580	Building (1)	0.076	0.067	0.061	0.049	0.046
	Contents (2)	0.138	0.125	0.118	0.104	0.099
0581	Building (1)	0.081	0.073	0.063	0.052	0.049
	Contents (2)					
	A	0.133	0.119	0.112	0.101	0.094
	B	0.162	0.146	0.137	0.121	0.114
0582	Building (1)	0.089	0.080	0.071	0.058	0.054
	Contents (2)					
	A	0.118	0.106	0.101	0.090	0.084
	B	0.146	0.130	0.124	0.109	0.101
	C	0.132	0.118	0.111	0.100	0.092
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0701	Government Offices					
0702	Banks and Offices other than Governmental					
0742	Motels and Hotels with Limited Cooking Restaurant – Up to 10 Units					
0743	Motels and Hotels with Limited Cooking Restaurant – 11 to 30 Units					
0744	Motels and Hotels with Limited Cooking Restaurant – Over 30 Units					
0745	Motels and Hotels without Restaurant – Up to 10 Units					
0746	Motels and Hotels without Restaurant – 11 to 30 Units					
0747	Motels and Hotels without Restaurant – Over 30 Units					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0701	Building (1)	0.049	0.044	0.038	0.030	0.028
	Contents (2)					
	A	0.052	0.049	0.045	0.039	0.037
	B	0.076	0.069	0.066	0.057	0.054
0702	Building (1)	0.058	0.052	0.047	0.037	0.035
	Contents (2)					
	A	0.068	0.061	0.058	0.051	0.048
	B	0.094	0.085	0.081	0.071	0.066
0742	Building (1)	0.458	0.413	0.367	0.297	0.276
	Contents (2)	0.504	0.454	0.428	0.378	0.353
	Building (1)	0.458	0.413	0.367	0.297	0.276
	Contents (2)	0.504	0.454	0.428	0.378	0.353
0743	Building (1)	0.458	0.413	0.367	0.297	0.276
	Contents (2)	0.504	0.454	0.428	0.378	0.353
	Building (1)	0.458	0.413	0.367	0.297	0.276
	Contents (2)	0.504	0.454	0.428	0.378	0.353
0744	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
0745	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
0746	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
0747	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
	Building (1)	0.198	0.177	0.159	0.127	0.120
	Contents (2)	0.216	0.194	0.184	0.163	0.152
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0755	Golf, Tennis and Similar Sport Facilities with Limited Cooking					
0756	Golf, Tennis and Similar Sport Facilities without Cooking					
0757	Clubs, Not Otherwise Classified, Including Fraternal and Union Halls					
0831	Motion Picture Studios					
0832	Theaters Excluding Drive-in Theaters					
0833	Drive-in Theaters					
0834	Skating Rinks – Roller Rinks					
0841	Bowling Alleys without Cooking					
0843	Halls and Auditoriums					
0844	Recreational Facilities, Not Otherwise Classified					
0845	Boys' and Girls' Camps					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0755	Building (1)	0.280	0.251	0.224	0.182	0.168
	Contents (2)	0.323	0.290	0.273	0.241	0.225
0756	Building (1)	0.115	0.102	0.090	0.074	0.068
	Contents (2)	0.130	0.116	0.110	0.098	0.090
0757	Building (1)	0.121	0.110	0.098	0.080	0.074
	Contents (2)	0.130	0.116	0.110	0.098	0.090
0831	Building (1)	0.096	0.086	0.077	0.063	0.058
	Contents (2)	0.110	0.098	0.092	0.083	0.078
0832	Building (1)	0.121	0.109	0.098	0.080	0.073
	Contents (2)	0.130	0.116	0.110	0.098	0.090
0833	Building (1)	0.103	0.092	0.083	0.067	0.063
	Contents (2)	0.120	0.108	0.102	0.090	0.085
0834	Building (1)	0.167	0.150	0.133	0.108	0.099
	Contents (2)	0.169	0.152	0.144	0.128	0.117
0841	Building (1)	0.169	0.152	0.136	0.110	0.101
	Contents (2)	0.176	0.160	0.150	0.132	0.124
0843	Building (1)	0.085	0.077	0.067	0.055	0.049
	Contents (2)	0.090	0.081	0.077	0.067	0.063
0844	Building (1)	0.115	0.102	0.090	0.074	0.068
	Contents (2)	0.126	0.114	0.107	0.094	0.088
0845	Building (1)	0.075	0.067	0.062	0.048	0.045
	Contents (2)	0.086	0.078	0.074	0.065	0.062
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0846	Dance Halls, Ballrooms and Discotheques					
0851	Hospitals					
0852	Nursing and Convalescent Homes					
0900	Churches and Synagogues					
0911	Dry Cleaners and Dyeing Plants, other than Self-Service					
0912	Laundries, other than Self-Service					
0913	Self-Service Laundries and Dry Cleaners					
0921	Light Hazard Service Occupancies					
0922	Service Occupancies, other than Light Hazard					
0923	Funeral Homes					
0931	Auto Parking Garages, Car Washes					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0846	Building (1)	0.158	0.142	0.126	0.102	0.094
	Contents (2)	0.154	0.139	0.132	0.116	0.108
0851	Building (1)	0.032	0.029	0.026	0.022	0.020
	Contents (2)	0.038	0.034	0.031	0.029	0.027
0852	Building (1)	0.034	0.029	0.028	0.023	0.022
	Contents (2)	0.040	0.035	0.032	0.029	0.028
0900	Building (1)	0.118	0.106	0.093	0.076	0.071
	Contents (2)	0.125	0.112	0.106	0.092	0.087
0911	Building (1)	0.167	0.150	0.136	0.109	0.100
	Contents (2)	0.198	0.177	0.168	0.149	0.140
0912	Building (1)	0.221	0.200	0.176	0.144	0.133
	Contents (2)	0.272	0.246	0.232	0.204	0.191
0913	Building (1)	0.146	0.131	0.117	0.095	0.087
	Contents (2)	0.170	0.153	0.145	0.127	0.119
0921	Building (1)	0.087	0.078	0.069	0.056	0.053
	Contents (2)	0.104	0.094	0.088	0.077	0.073
0922	Building (1)	0.097	0.087	0.077	0.063	0.058
	Contents (2)	0.117	0.106	0.100	0.089	0.083
0923	Building (1)	0.064	0.058	0.051	0.042	0.039
	Contents (2)	0.068	0.062	0.059	0.051	0.047
0931	Building (1)	0.048	0.044	0.038	0.031	0.029
	Contents (2)	0.056	0.050	0.048	0.043	0.038
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
0932	Gasoline Service Stations					
0933	Motor Vehicle and Aircraft Repair, with or without Sales					
0934	Tire Recapping and Vulcanizing, with or without Sales					
0940	Aircraft Hangars without Repair					
0951	Gambling Casinos with Limited Cooking Restaurants					
0952	Gambling Casinos without Restaurants					
1000	Penal Institutions					
1051	Museums, Libraries, Art Galleries (Non-Profit)					
1052	Schools, Academic					
1070	Fire Departments, Police, Sewage, Water Works and Other Public Buildings					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
0932	Building (1)	0.071	0.062	0.055	0.045	0.042
	Contents (2)	0.086	0.077	0.073	0.063	0.060
0933	Building (1)	0.058	0.053	0.046	0.036	0.034
	Contents (2)	0.075	0.067	0.063	0.055	0.052
0934	Building (1)	0.077	0.071	0.062	0.049	0.045
	Contents (2)	0.091	0.082	0.077	0.070	0.063
0940	Building (1)	0.035	0.032	0.029	0.025	0.021
	Contents (2)	0.045	0.041	0.038	0.033	0.031
0951	Building (1)	0.327	0.293	0.262	0.212	0.195
	Contents (2)	0.360	0.324	0.307	0.271	0.252
0952	Building (1)	0.110	0.098	0.089	0.071	0.065
	Contents (2)	0.159	0.143	0.135	0.117	0.110
1000	Building (1)	0.046	0.041	0.037	0.029	0.027
	Contents (2)	0.040	0.035	0.034	0.030	0.028
1051	Building (1)	0.028	0.026	0.023	0.019	0.017
	Contents (2)	0.037	0.034	0.031	0.027	0.026
1052	Building (1)	0.045	0.042	0.036	0.029	0.028
	Contents (2)	0.052	0.046	0.045	0.040	0.036
1070	Building (1)	0.045	0.040	0.034	0.028	0.027
	Contents (2)	0.053	0.049	0.045	0.040	0.037
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
1150	Builders' Risk					
1180	Vacant Buildings – See CSP Class Code of previous or intended occupancy. Add loss cost of .015 unless Class Code of previous or intended occupancy is 0580, 0742-0747, 0833, 0834, 0841, 0843, 0844, 0846, 0900, 0951, 0952, 1051 or 1052.					
1211	Freight Terminals					
1212	General Storage Warehouses – Bailee					
1213	Miscellaneous Products Storage – (Other Than Retail Or Wholesale Or Cold Storage)					
1220	Household Goods Storage					
1230	Cold Storage Warehouses					
1400	Waste and Reclaimed Materials Including Yards					
1650	Building Supply Yards, Including Retail Lumberyards, Coal and Coke Yards					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
1150	Building (1)	0.044	0.039	0.036	0.029	0.025
1211	Building (1)	0.116	0.105	0.094	0.075	0.070
	Contents (2)	0.137	0.123	0.116	0.102	0.097
1212	Building (1)	0.094	0.083	0.073	0.059	0.056
	Contents (2)	0.114	0.102	0.097	0.085	0.079
1213	Building (1)	0.082	0.072	0.064	0.052	0.049
	Contents (2)	0.107	0.098	0.094	0.082	0.075
1220	Building (1)	0.098	0.086	0.077	0.062	0.059
	Contents (2)	0.118	0.106	0.101	0.088	0.083
1230	Building (1)	0.084	0.075	0.066	0.055	0.051
	Contents (2)	0.115	0.103	0.098	0.086	0.080
1400	Building (1)	0.251	0.226	0.201	0.164	0.152
	Contents (2)	0.306	0.275	0.259	0.230	0.215
	Yard	0.378		0.038		
1650	Building (1)	0.150	0.135	0.121	0.098	0.092
	Contents (2)	0.189	0.170	0.163	0.142	0.134
	Yard	0.105		0.013		
Territory					Territorial Multiplier	
Chicago					1.562	
Balance of State (Illinois)					1.000	

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ILLINOIS (12)

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

All rates are subject to protection class and territorial multipliers.

CSP Class Codes And Description						
1700	Mill Yards					
1751	Oil Distributing, Oil Terminals and LPG Tank Farms – Including Stock					
1752	Oil Distributing, Oil Terminals and LPG Tank Farms – Excluding Stock					
2200	Baking on Premises, Delivery to Outlets					
2350	Beverage Bottlers Excluding Alcoholic Beverages					
2459	Distilleries and Wineries					
2800	Textile Mill Products					
3409	Leather and Leather Products					
4809	Printing					
CSP Class Code	Coverage	Construction (Code)				
		Frame (1)	Joisted Masonry (2)	Non-Comb. (3)	Mas. Non-Comb. (4)	Mod. F.R. (5) Or Fire Res. (6)
1700	Building (1)	0.122	0.109	0.098	0.080	0.072
	Contents (2)	0.186	0.168	0.158	0.140	0.132
	Yard	0.102		0.012		
1751	Building (1)	0.079	0.071	0.062	0.051	0.046
	Contents (2)	0.102	0.094	0.086	0.077	0.072
1752	Building (1)	0.073	0.065	0.059	0.048	0.044
	Contents (2)	0.072	0.065	0.061	0.055	0.051
2200	Building (1)	0.241	0.218	0.195	0.159	0.146
	Contents (2)	0.287	0.261	0.246	0.217	0.203
2350	Building (1)	0.157	0.141	0.125	0.100	0.093
	Contents (2)	0.184	0.168	0.157	0.138	0.130
2459	Building (1)	0.100	0.091	0.080	0.064	0.059
	Contents (2)	0.130	0.117	0.112	0.098	0.091
2800	Building (1)	0.124	0.112	0.101	0.081	0.076
	Contents (2)	0.163	0.147	0.140	0.123	0.115
3409	Building (1)	0.134	0.121	0.109	0.089	0.080
	Contents (2)	0.157	0.141	0.131	0.117	0.109
4809	Building (1)	0.103	0.093	0.082	0.067	0.062
	Contents (2)	0.126	0.113	0.108	0.094	0.090
Territory						Territorial Multiplier
Chicago						1.562
Balance of State (Illinois)						1.000

ILLINOIS
COMMERCIAL PROPERTY
LOSS COST LEVEL REVIEW
ACTUARIAL ANALYSIS SUPPLEMENT

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

MONOLINE The indicated statewide monoline changes are:
INDICATIONS

<u>Subline</u>	<u>Current Review</u>	<u>Prior Review</u>
Basic Group I	+5.8%	-4.7%
Basic Group II	+9.9%	-2.2%
Special Causes of Loss	-2.2%	-6.6%
All Coverages Combined	+5.4%	-4.3%

The prior review's indications were implemented. There has been no change in the Implicit Package Modification Factors since the prior review.

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

IMPACT OF
LIMIT OF
INSURANCE (LOI)
FACTOR
IMPLEMENTATION

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

Class-rated Loss Costs

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

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

Schedule-rated Loss Costs

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

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

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

<u>Category</u>	<u>Loss Cost Change</u>
01 Buildings	+0.4%
02 Apartment and Condominium Contents	-14.9%
03 Office Contents	-6.7%
04 Mercantile, Motel-Hotel, and Institutional Contents	-8.0%
05 Service, Industrial-Processing and Contractors Contents	+1.1%
Personal Property (Contents) Excluding Theft	-5.0%

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

Limit of Insurance Transition Rule and Public Protection Class Factors

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

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

* Frame, Joisted Masonry and Non-combustible

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

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

DATA QUALITY

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

LOSS
ADJUSTMENT
EXPENSE/LOSS
DEVELOPMENT
FACTORS

Loss adjustment expense factors have remained the same at 1.100 for BG I and 1.125 for BG II and SCL. Loss development factors changed slightly but are still relatively close to unity for all sublines and years.

LOSS TREND
FACTORS

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

External Trend

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

<u>Coverage</u>	<u>Current Review</u>	<u>Prior Review</u>	<u>Change</u>
Buildings	+2.7%	+2.5%	+0.2
Contents	+1.4%	+0.8%	+0.6
Time Element	+0.5%	-0.9%	+1.4

Loss Trend Adjustments (LTAs)

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

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	-0.4%	+0.5%	+2.5%	-0.7%	+0.4%	+1.9%
Basic Group II	+0.5%	+0.8%	+2.2%	+0.5%	+0.5%	+1.5%
Special Causes of Loss	+0.3%	+0.5%	+2.5%	+0.3%	+0.9%	+1.9%

Total Annual Loss Trend

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

<u>Subline</u>	<u>Current Review</u>			<u>Prior Review</u>		
	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>	<u>Bldg.</u>	<u>Cnts.</u>	<u>TE</u>
Basic Group I	+2.3%	+1.9%	+3.0%	+1.8%	+1.2%	+1.0%
Basic Group II	+3.2%	+2.2%	+2.7%	+3.0%	+1.3%	+0.6%
Special Causes of Loss	+3.0%	+1.9%	+3.0%	+2.8%	+1.7%	+1.0%

CHANGE IN
AVERAGE LOSS
TREND

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

<u>Subline</u>	<u>Change in Average Trend</u>
Basic Group I	+2.5%
Basic Group II	+2.3%
Special Causes of Loss	+0.8%

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

PREMIUM TREND
FACTORS

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

<u>Coverage</u>	<u>Current Review</u>	<u>Prior Review</u>	<u>Change</u>
Buildings	+2.0%	+2.2%	-0.20%
Contents	+1.7%	+1.9%	-0.20%
Time Element	+1.0%	+1.2%	-0.20%

NET TREND

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

<u>Subline</u>	<u>Current Review</u>	<u>Prior Review</u>	<u>Change</u>
Basic Group I	+0.4%	-0.5%	0.90%
Basic Group II	+1.1%	+0.3%	0.80%
Special Causes of Loss	+0.7%	+0.2%	0.50%

BASIC GROUP I

The statewide five-year weighted average experience ratio, before credibility weighting, increased by 9.6%, from 0.987 in the prior review to 1.082 in the current review. The increase reflects the implementation of last year's -4.7% monoline change, a lower than average adjusted experience ratio of 0.769 for 2012 leaving the experience period and a higher than average ratio of 1.100 for 2017 entering the experience period. The monoline relativity increased by 5.9% due to a lower than average monoline adjusted experience ratio of 0.463 for year 2012 being replaced by a higher than average monoline ratio of 1.472 for year 2017.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	1.082	0.987	1.096
Credibility	0.454	0.462	0.983
Expected Experience Ratio	1.004	0.995	1.009
Coverage Change	1.039	0.991	1.048
Monoline Relativity	1.018	0.961	1.059
Monoline Change	1.058	0.953	1.110

BASIC GROUP II

The statewide ten-year weighted average experience ratio, before credibility weighting, increased by 14.1%, from 1.022 in the prior review to 1.166 in the current review. The increase reflects the implementation of last year's -2.2% monoline change, a lower than average adjusted experience ratio of 0.839 for 2007 leaving the experience period and a higher than average ratio of 1.811 for 2017 entering the experience period. The monoline relativity increased by 2.3% primarily due to a higher than average monoline adjusted experience ratio of 2.190 for 2017 entering the experience period.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	1.166	1.022	1.141
Credibility	0.671	0.656	1.023
Expected Experience Ratio	1.011	1.003	1.008
Coverage Change	1.115	1.015	1.099
Monoline Relativity	0.9857	0.9636	1.023
Monoline Change	1.099	0.978	1.124

SPECIAL CAUSES OF LOSS

The statewide five-year weighted average experience ratio, before credibility weighting, increased by 5.0%, from 0.862 in the prior review to 0.905 in the current review. The increase reflects the implementation of last year's -6.6% monoline change and a lower than average adjusted experience ratio of 0.796 for 2012 leaving the experience period. The monoline relativity increased by 2.1% due to a higher than average monoline adjusted experience ratio of 1.057 for year 2017 entering the experience period.

Statewide Loss Cost Level Review

	<u>Current Review</u>	<u>Prior Review</u>	<u>Ratio</u>
Weighted Experience Ratio	0.905	0.862	1.050
Credibility	0.458	0.476	0.962
Expected Experience Ratio	1.007	1.002	1.005
Coverage Change	0.960	0.935	1.027
Monoline Relativity	1.020	0.999	1.021
Monoline Change	0.978	0.934	1.047

PROPERTY
CLAIMS SERVICES
INFORMATION

The following events have been identified by Property Claims Services as catastrophes occurring in this state from 1/1/1990 through 12/31/2017.

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

8/15/97	8/17/97	Wind, Hail, Tornadoes, Flooding
3/27/98	3/30/98	Hail, Wind, Tornadoes
4/15/98	4/17/98	Hail, Wind, Flooding, Tornadoes
5/22/98	5/26/98	Hail, Wind, Flooding, Tornadoes
5/28/98	5/29/98	Hail, Wind, Tornadoes
6/11/98	6/15/98	Hail, Wind, Flooding, Tornadoes
6/18/98	6/19/98	Hail, Wind, Flooding, Tornadoes
6/24/98	6/30/98	Hail, Wind, Flooding, Tornadoes
8/5/98	8/8/98	Wind, Flooding
8/22/98	8/25/98	Hail, Wind, Tornadoes
9/6/98	9/8/98	Hail, Wind, Flooding, Tornadoes
11/9/98	11/11/98	Hail, Wind, Flooding, Tornadoes
1/1/99	1/4/99	Hail, Snow, Wind, Flooding, Freezing
1/13/99	1/16/99	Ice, Hail, Snow, Wind, Flooding, Freezing
4/8/99	4/10/99	Hail, Wind, Tornadoes
5/3/99	5/7/99	Hail, Wind, Flooding, Tornadoes
5/16/99	5/17/99	Hail, Wind, Flooding, Tornadoes
5/31/99	6/1/99	Hail, Wind, Flooding, Tornadoes
6/4/99	6/7/99	Hail, Wind, Flooding, Tornadoes
6/10/99	6/14/99	Hail, Wind, Flooding, Tornadoes
1/2/00	1/4/00	Hail, Wind, Flooding, Tornadoes
4/19/00	4/20/00	Hail, Wind, Flooding, Tornadoes
5/8/00	5/11/00	Hail, Wind, Flooding, Tornadoes
5/12/00	5/14/00	Hail, Wind, Flooding, Tornadoes
5/17/00	5/19/00	Hail, Wind, Flooding, Tornadoes
9/10/00	9/12/00	Hail, Wind, Flooding, Tornadoes
9/20/00	9/21/00	Hail, Wind, Flooding, Tornadoes
12/11/00	12/12/00	Snow, Wind, Freezing
4/6/01	4/12/01	Hail, Wind, Flooding, Tornadoes
6/9/01	6/12/01	Hail, Wind, Flooding, Tornadoes
8/1/01	8/2/01	Wind, Flooding, Tornadoes
10/12/01	10/16/01	Hail, Wind, Flooding, Tornadoes
10/23/01	10/24/01	Hail, Wind, Flooding, Tornadoes
1/30/02	2/1/02	Flooding, Freezing, Hail, Snow, Wind
3/8/02	3/10/02	Hail, Tornadoes, Wind
4/24/02	4/25/02	Flooding, Hail, Tornadoes, Wind
4/27/02	5/3/02	Flooding, Hail, Tornadoes, Wind
5/7/02	5/9/02	Flooding, Hail, Tornadoes, Wind
4/4/03	4/8/03	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
5/1/03	5/1/03	Flooding, Hail, Tornadoes, Wind
5/2/03	5/11/03	Flooding, Hail, Tornadoes, Wind
7/4/03	7/10/03	Flooding, Hail, Tornadoes, Wind
7/21/03	7/23/03	Flooding, Hail, Tornadoes, Wind
11/12/03	11/14/03	Flooding, Hail, Tornadoes, Wind
4/20/04	4/22/04	Flooding, Hail, Tornadoes, Wind
5/17/04	5/19/04	Flooding, Hail, Tornadoes, Wind
5/21/04	5/27/04	Flooding, Hail, Tornadoes, Wind
5/29/04	6/2/04	Flooding, Hail, Tornadoes, Wind
7/12/04	7/14/04	Flooding, Hail, Tornadoes, Wind
12/22/04	12/25/04	Freezing, Ice, Snow, Wind
1/4/05	1/6/05	Flooding, Freezing, Ice, Snow, Wind
3/30/05	4/3/05	Flooding, Hail, Tornadoes, Wind
<u>Date From</u>	<u>Date To</u>	<u>Perils</u>
4/20/05	4/24/05	Flooding, Hail, Tornadoes, Wind

5/6/05	5/12/05	Flooding, Hail, Tornadoes, Wind
8/18/05	8/20/05	Hail, Tornadoes, Wind
3/11/06	3/13/06	Flooding, Hail, Tornadoes, Wind
4/2/06	4/3/06	Hail, Tornadoes, Wind
4/13/06	4/15/06	Hail, Tornadoes, Wind
5/24/06	5/25/06	Flooding, Hail, Tornadoes, Wind
7/19/06	7/21/06	Flooding, Hail, Tornadoes, Wind
8/23/06	8/25/06	Flooding, Hail, Tornadoes, Wind
9/22/06	9/23/06	Flooding, Hail, Tornadoes, Wind
10/2/06	10/4/06	Flooding, Hail, Tornadoes, Wind
11/30/06	12/3/06	Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/12/07	1/17/07	Flooding, Freezing, Ice, Snow, Tornadoes, Wind
7/16/07	7/18/07	Flooding, Hail, Tornadoes, Wind
8/7/07	8/9/07	Flooding, Hail, Tornadoes, Wind
8/23/07	8/24/07	Flooding, Hail, Tornadoes, Wind
12/9/07	12/11/07	Freezing, Ice
1/4/08	1/9/08	Flooding, Freezing, Hail, Ice, Snow, Tornadoes, Wind
1/29/08	1/30/08	Hail, Tornadoes, Wind
5/29/08	6/1/08	Flooding, Hail, Tornadoes, Wind
6/2/08	6/4/08	Flooding, Hail, Tornadoes, Wind
6/5/08	6/8/08	Flooding, Hail, Tornadoes, Wind
6/15/08	6/16/08	Flooding, Hail, Wind
7/2/08	7/3/08	Flooding, Hail, Tornadoes, Wind
7/19/08	7/22/08	Flooding, Hail, Tornadoes, Wind
8/4/08	8/5/08	Flooding, Hail, Tornadoes, Wind
9/12/08	9/14/08	Hurricane Ike - Flooding, Tornadoes, Wind
3/7/09	3/8/09	Flooding, Hail, Tornadoes, Wind
5/7/09	5/9/09	Flooding, Hail, Tornadoes, Wind
5/13/09	5/14/09	Flooding, Hail, Tornadoes, Wind
6/5/09	6/8/09	Flooding, Hail, Tornadoes, Wind
7/24/09	7/25/09	Flooding, Hail, Wind
4/4/10	4/6/10	Flooding, Hail, Tornadoes, Wind
5/12/10	5/16/10	Flooding, Hail, Tornadoes, Wind
6/4/10	6/6/10	Flooding, Hail, Tornadoes, Wind
6/10/10	6/16/10	Flooding, Hail, Tornadoes, Wind
6/17/10	6/20/10	Flooding, Hail, Tornadoes, Wind
6/21/10	6/24/10	Flooding, Hail, Tornadoes, Wind
7/20/10	7/25/10	Flooding, Hail, Tornadoes, Wind
10/26/10	10/28/10	Flooding, Hail, Tornadoes, Wind
1/31/11	2/3/11	Flooding, Freezing, Ice, Snow, Wind
2/27/11	2/28/11	Flooding, Hail, Tornadoes, Wind
4/3/11	4/5/11	Flooding, Hail, Tornadoes, Wind
4/19/11	4/21/11	Hail, Tornadoes, Wind
4/22/11	4/28/11	Flooding, Hail, Tornadoes, Wind
5/20/11	5/27/11	Flooding, Hail, Tornadoes, Wind
5/29/11	6/1/11	Flooding, Hail, Tornadoes, Wind
6/8/11	6/11/11	Flooding, Hail, Tornadoes, Wind
6/16/11	6/22/11	Flooding, Hail, Tornadoes, Wind
7/1/11	7/4/11	Flooding, Hail, Tornadoes, Wind
7/10/11	7/14/11	Flooding, Hail, Tornadoes, Wind
7/22/11	7/24/11	Flooding, Hail, Wind
<u>Date From</u>	<u>Date To</u>	<u>Perils</u>
2/28/12	2/29/12	Flooding, Hail, Tornadoes, Wind
3/14/12	3/15/12	Hail, Tornadoes, Wind

4/28/12	4/29/12	Hail, Tornadoes, Wind
6/28/12	7/2/12	Flooding, Hail, Tornadoes, Wind
8/9/12	8/10/12	Flooding, Hail, Wind
4/16/13	4/19/13	Flooding, Hail, Wind
5/18/13	5/22/13	Flooding, Hail, Tornadoes, Wind, Workers Compensation
5/28/13	5/31/13	Flooding, Hail, Tornadoes, Wind
6/12/13	6/14/13	Flooding, Hail, Wind
6/24/13	6/27/13	Flooding, Hail, Tornadoes, Wind
11/17/13	11/18/13	Flooding, Hail, Tornadoes, Wind
1/5/14	1/8/14	Freezing, Ice, Snow, Wind
2/20/14	2/21/14	Hail, Wind
4/2/14	4/4/14	Flooding, Hail, Tornadoes, Wind
4/12/14	4/14/14	Flooding, Hail, Tornadoes, Wind
5/10/14	5/14/14	Flooding, Hail, Tornadoes, Wind
5/18/14	5/23/14	Flooding, Hail, Wind
6/29/14	7/1/14	Flooding, Hail, Tornadoes, Wind
2/1/15	2/4/15	Freezing, Ice, Snow, Wind
2/16/15	2/22/15	Freezing, Ice, Snow, Wind
4/7/15	4/10/15	Flooding, Hail, Tornadoes, Wind
6/3/15	6/8/15	Flooding, Hail, Tornadoes, Wind
6/10/15	6/11/15	Flooding, Hail, Tornadoes, Wind
6/21/15	6/25/15	Flooding, Hail, Tornadoes, Wind
7/12/15	7/14/15	Flooding, Hail, Tornadoes, Wind
8/2/15	8/4/15	Flooding, Hail, Tornadoes, Wind
12/23/15	12/24/15	Flooding, Hail, Tornadoes, Wind
12/26/15	12/28/15	Flooding, Hail, Tornadoes, Wind
2/19/16	2/20/16	Wind
3/13/16	3/15/16	Flooding, Hail, Tornadoes, Wind
4/2/16	4/3/16	Hail, Wind
4/25/16	4/28/16	Flooding, Hail, Tornadoes, Wind
4/29/16	5/3/16	Flooding, Hail, Tornadoes, Wind
5/11/16	5/12/16	Flooding, Hail, Tornadoes, Wind
6/22/16	6/23/16	Flooding, Hail, Tornadoes, Wind
7/13/16	7/15/16	Flooding, Hail, Tornadoes, Wind
2/28/17	3/2/17	Flooding, Hail, Tornadoes, Wind
3/6/17	3/9/17	Flooding, Hail, Tornadoes, Wind
4/10/17	4/11/17	Flooding, Hail, Tornadoes, Wind
4/28/17	5/1/17	Flooding, Hail, Tornadoes, Wind
5/15/17	5/18/17	Flooding, Hail, Tornadoes, Wind
6/16/17	6/19/17	Flooding, Hail, Tornadoes, Wind
6/27/17	6/29/17	Flooding, Hail, Tornadoes, Wind
7/11/17	7/12/17	Flooding, Hail, Wind
7/21/17	7/23/17	Flooding, Hail, Tornadoes, Wind
10/14/17	10/15/17	Flooding, Hail, Wind

PROPERTY
CLAIMS SERVICES
INFORMATION
(cont'd)

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

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

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

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

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