

LOSS COSTS – IMPLEMENTATION

JULY 27, 2020

GENERAL LIABILITY

LI-GL-2020-130

## KENTUCKY GENERAL LIABILITY ADVISORY PROSPECTIVE LOSS COST REVISION FILED AND TO BE IMPLEMENTED

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### KEY MESSAGE

Revised overall prospective loss costs for +6.8% to be implemented.

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### BACKGROUND

In circular [LI-GL-2020-099](#), we provided you with information about the General Liability loss cost level experience review.

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### ISO ACTION

We are implementing GL-2020-BGL1, which presents a review of General Liability loss cost experience. Refer to the attachment(s) for complete details.

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### INSURANCE DEPARTMENT ACTION

The Insurance Department has acknowledged this revision as filed.

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### CONSIDERATION OF COVID-19

In anticipation of long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have a material impact on prospective loss costs for certain risks. In this filing, the loss costs for several impacted OL&T classes have been adjusted to reflect these changes by applying adjustment factors to the loss costs.

While there is still great uncertainty around COVID-19, the above referenced adjustments do not contemplate the possibility of widespread viral resurgence or the renewal of stay-at-home orders during the period in which the newly filed loss costs will be in effect. We have assumed that any recurrence of such extreme and unpredictable circumstances would generally be addressed, as appropriate, by individual carriers.

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### SUPPLEMENTARY INFORMATION

We are including the following supplementary information:

- An Actuarial Analysis Supplement which provides discussion and analysis of pattern shifts in the data used to derive the advisory loss costs.
- 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.

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**EFFECTIVE DATE**

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

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**IMPACT ON THE STATISTICAL REPORTING OF LOSS COST MULTIPLIER**

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

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**COMPANY ACTION**

You must independently determine the final rates you will use and the effective date of any rate change. If you decide to use our prospective loss costs to revise your rates, you are NOT required to file anything with the Insurance Department.

You must document your files in case the Insurance Department wishes to review the information at a later date. In all correspondence on this revision, you should refer to ISO Filing Number GL-2020-BGL1, NOT this circular number.

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**RATING SOFTWARE IMPACT**

No new attributes are being introduced with this revision.

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**POLICYHOLDER NOTIFICATION**

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

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**REVISION DISTRIBUTION**

We will issue a Notice to Manualholders with an edition date of 2-21 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

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**REFERENCE(S)**

- [LI-GL-2020-099](#) (06/10/2020) General Liability Basic Limit Experience For 2020 Group 3 Jurisdictions Reviewed By Staff
- [LI-CL-2019-057](#) (12/10/2019) Revised Lead Time Requirements Listing

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**ATTACHMENT(S)**

- GL-2020-BGL1
- Actuarial Analysis Supplement
- Manual Pages
- Excel Workbook

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## FILES AVAILABLE FOR DOWNLOAD

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

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

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## DATA QUALITY

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

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## ACKNOWLEDGMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "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, Ping Hsin Lee, am an Actuarial Associate for ISO and I, Timothy J. McCarthy, am an Actuarial Product Director for Commercial Liability for ISO. We are jointly responsible for the content of this Statement of Actuarial Opinion. We are both members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

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## CONTACT INFORMATION

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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](http://www.verisk.com/iso). To keep abreast of the latest Insurance Lines Services updates, view [www.verisk.com/ils](http://www.verisk.com/ils).

KENTUCKY GL-2020-BGL1  
BASIC LIMIT LOSS COST LEVEL  
GENERAL LIABILITY OTHER THAN PROFESSIONAL  
PREMISES/OPERATIONS AND PRODUCTS/COMPLETED OPERATIONS  
EXECUTIVE SUMMARY

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PURPOSE

This document:

- revises current advisory prospective loss costs for Premises/Operations and Products/Completed Operations classes. These loss costs represent a +6.8% change from the current ISO loss costs. Please note that throughout this document the term loss costs means advisory prospective loss costs.
  - provides the analyses used to derive these advisory loss costs.
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DEFINITION OF  
THE ISO  
ADVISORY  
PROSPECTIVE  
LOSS COSTS

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 through development to their ultimate value and projected through trending to a future point in time.

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CONSIDERATION  
OF COVID-19

In anticipation of long-term behavioral, social and economic changes as a result of COVID-19, we expect, based on the information currently available, that those changes will have a material impact on prospective loss costs for certain risks. We have adjusted loss costs to reflect these changes by applying adjustment factors to the loss costs of several impacted classes. Refer to Section H for details.

While there is still great uncertainty around COVID-19, the above referenced adjustments do not contemplate the possibility of widespread viral resurgence or the renewal of stay-at-home orders during the period in which the newly filed loss costs will be in effect. We have assumed that any recurrence of such extreme and unpredictable circumstances would generally be addressed, as appropriate, by individual carriers.

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LOSS COST  
LEVEL CHANGES

The statewide advisory loss cost level changes are:

<u>SUBLINE</u>	<u>INDICATED</u>	<u>SELECTED</u>	<u>ADJUSTED *</u>
M&C	+ 1.8%	0.0%	0.0%
OL&T	+ 9.5%	+ 9.5%	+8.6%
Premises/Operations	+ 6.8%	+ 6.2%	+5.6%
Products	+ 0.9%	+ 0.9%	+ 0.9%
Local Products/Completed Operations	+15.9%	+15.9%	+15.9%
Products/Completed Operations	+12.5%	+12.5%	+12.5%
GL Overall	+ 7.8%	+ 7.3%	+6.8%

\* The adjusted loss cost level changes reflect the COVID-19 related adjustments for the specific OL&T classes described in Section H. The adjusted loss cost level changes represent the change from the present to proposed loss costs.

The selected loss cost level changes reflect the effect of capping and buildback, except for Products where the change is calculated by determining the effect, on state loss cost levels, of implementing multistate loss costs.

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INDICATED  
VS. SELECTED  
VS. ADJUSTED

Indicated changes are based on standard ISO methodology. The selected changes are equal to the indicated changes for all sublines except for Manufacturers & Contractors, where a change of 0.0% has been selected to temper the effect of the experience for the second to latest year and to limit swings in loss costs. The adjusted loss cost level changes reflect the COVID-19 related adjustments for OL&T.

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CAPPING

In order to lessen the impact of swings in classification loss costs, this document contains upper and lower caps that take into account the size of the overall indications.

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PRIOR ISO  
REVISIONS

See Page ES-5 for the latest revisions in this jurisdiction.

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HISTORICAL  
SOURCE DATA

The data used in this document is:

- ISO reporting companies' voluntary experience.
- Fiscal - accident year data through year ended 6/30/2019 for Premises/Operations.
- Calendar-accident year data through year ended 12/31/2018 for Products/Completed Operations.

Bodily Injury and Property Damage deductible data is included. Fringe losses (Coverage B) are also included.

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ADJUSTMENTS  
TO  
REPORTED  
EXPERIENCE

The period of use for this revision is anticipated to begin on 2/1/2021. The Products/Completed Operations portion of this review uses a trend date of 7/1/2020 because of the multistate nature of the review. To adjust the loss and exposure data to levels expected to prevail during the period when the revised indications are assumed to be in effect, historical losses and exposures have been multiplied by trend factors. These trend factors are based on changes in cost, frequency and inflation sensitive exposure bases that are expected to arise between the historical experience period and the prospective period during which the revised loss costs will be in effect. For a summary of the selected annual trend factors, see Section E, Section F and Section G - Trend Summary.

For Premises/Operations, occurrence cost data and occurrence frequency data through 6/30/2019 were used in selecting annual trend factors. For Products/Completed Operations, occurrence cost data and occurrence frequency data through 12/31/2018 were used.

Note that although indications are computed on a Combined Single Limit basis, severity and frequency trends are applied separately for Bodily Injury and Property Damage. Also, separate exposure trends are applied to Owners, Landlords and Tenants class groups 1-13, OL&T class group 16, Manufacturers, Contractors, Products, Local Products and Completed Operations. Exposure trends are not applied to those OL&T classes, which do not have an inflation sensitive exposure base.

Standard actuarial procedures have been used in calculating the indications including adjusting the liability losses to ultimate settlement level and, for all coverages, reflecting all loss adjustment expenses. Indemnity and ALAE are being developed separately. Accident year exposures have been developed to reflect exposure audits.

In this review, multistate dollars of loss and number of occurrences contained in the trend exhibits are based on reported paid amounts developed to ultimate using paid development factors. This has been done in the interest of stability of ultimate loss and occurrence estimates from one review to another.

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TEN  
LARGEST  
COMPANY  
GROUPS IN  
ISO  
DATA  
BASE

OTHER LIABILITY (ASLOB 17.0)

1	Travelers Indemnity Co.
2	Cincinnati Insurance Co.
3	Liberty Mutual Insurance Co.
4	Chubb Group of Insurance Cos.
5	Continental Casualty Co.
6	Zurich American Insurance Co.
7	Motorists Mutual Insurance Co.
8	XL Specialty Insurance Co.
9	Tokio Marine Cos.
10	Selective Insurance Group

PRODUCTS LIABILITY (ASLOB 18.0)

1	Zurich American Insurance Co.
2	Fireman's Fund Insurance Co.
3	Travelers Indemnity Co.
4	Selective Insurance Group
5	Cincinnati Insurance Co.
6	Hartford Accident & Indemnity Co.
7	United Fire & Casualty Co.
8	Liberty Mutual Insurance Co.
9	Continental Casualty Co.
10	Chubb Group of Insurance Cos.

Insurers are listed in descending order based on the percent of written premium volume from Statutory Page 14 Data for the year ending 12/31/2018 for the Annual Statement Line of Business (ASLOB) indicated. ASLOB 17.0 is based on statewide written premium volume while ASLOB 18.0 is based on multistate written premium volume.

SIZE  
OF  
ISO  
DATA  
BASE

While we are unable to specifically determine the market share of ISO reporting company groups separately for the classes contained in this document, we believe that a comparison of Statutory Page 14 data for ISO reporting company groups to industrywide Statutory Page 14 data is a reasonable approximation of a market share for these lines.

The market share of ISO participating insurers as measured by Statutory Page 14 Written Premium for the year ending 12/31/2018 is:

Statewide - Other Liability (ASLOB 17.0)	40.2%
Multistate - Products Liability (ASLOB 18.0)	39.4%

COMPANY  
DECISION

We encourage each insurer to decide independently whether the judgments made and the procedures or data used by ISO in developing the indications 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 a comparison of its own experience to the aggregate ISO experience, and may reach valid conclusions with respect to the manner in which its own costs can be expected to differ from ISO's 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 indications are appropriate for its use.

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KENTUCKY  
PRIOR REVISIONS

The latest implemented revisions in this state are:

Document: GL-2019-BGL1

<u>Coverage</u>	Distribution <u>Date</u>	Loss Cost Level Changes		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 5.7%	- 5.7%	- 5.7%
OL&T		+ 9.9%	+ 9.9%	+ 9.9%
Prem/Ops Combined		+ 3.8%	+ 3.8%	+ 3.8%
Products		- 11.0%	- 11.0%	- 11.0%
Local Products/Completed Operations		+ 4.0%	+ 4.0%	+ 4.0%
Products/Completed Operations Combined		- 0.3%	- 0.3%	- 0.3%
General Liability Overall	2/2020	+ 3.1%	+ 3.1%	+ 3.1%

Document: GL-2018-BGL1

<u>Coverage</u>	Distribution <u>Date</u>	Loss Cost Level Changes		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 7.0%	- 7.0%	- 7.0%
OL&T		+ 6.1%	+ 6.1%	+ 6.1%
Prem/Ops Combined		+ 0.7%	+ 0.7%	+ 0.7%
Products		- 9.3%	- 9.3%	- 9.3%
Local Products/Completed Operations		- 7.4%	- 7.4%	- 7.4%
Products/Completed Operations Combined		- 7.9%	- 7.9%	- 7.9%
General Liability Overall	2/2019	- 1.0%	- 1.0%	- 1.0%

Document: GL-2017-BGL1

<u>Coverage</u>	Distribution <u>Date</u>	Loss Cost Level Changes		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 2.6%	0.0%	0.0%
OL&T		+ 8.1%	+ 8.1%	+ 8.1%
Prem/Ops Combined		+ 3.4%	+ 4.5%	+ 4.5%
Products		- 9.2%	- 9.2%	- 9.2%
Local Products/Completed Operations		- 5.4%	- 5.4%	- 5.4%
Products/Completed Operations Combined		- 6.6%	- 6.6%	- 6.6%
General Liability Overall	2/2018	+ 1.1%	+ 2.0%	+ 2.0%

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PREMISES/OPERATIONS AND PRODUCTS/COMPLETED OPERATIONS  
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# KENTUCKY

## GENERAL LIABILITY OTHER THAN PROFESSIONAL PREMISES/OPERATIONS AND PRODUCTS/COMPLETED OPERATIONS SUBLINE CODES 334 AND 336 STATEWIDE LOSS COST LEVEL CHANGES

The attached exhibits present a revision of the monoline \$100,000 basic combined single limit loss costs for Commercial General Liability, Premises/Operations and Products/Completed Operations (Subline Codes 334 and 336). This revision has been prepared by the Insurance Services Office, Inc. (ISO) and is based on the latest available experience of companies that filed data under the applicable reporting requirements.

Separate loss cost revisions have been prepared for Owners, Landlords and Tenants, for Manufacturers and Contractors, for Products and for Local Products/Completed Operations. The revisions are then combined to produce an overall loss cost revision for General Liability Other Than Professional.

Summary of Indications and Selected Loss Cost Level Changes	Manufacturers And Contractors	Owners, Landlords and Tenants	Overall Premises/ Operations	Products	Local Products/ Completed Operations	Products/ Completed Operations	Overall General Liability Other Than Professional
Statewide Indicated Monoline-Multiline Loss Cost Level Change (See Section C)	+ 3.1%	+ 6.9%	+ 5.6%				
Statewide Indicated Monoline Loss Cost Level Change (See Section C)	+ 1.8%	+ 9.5%	+ 6.8%	+ 0.9% *	+ 15.9% **	+ 12.5%	+ 7.8%
Statewide Selected Monoline Loss Cost Level Change	0.0%	+ 9.5%	+ 6.2%	+ 0.9% *	+ 15.9%	+ 12.5%	+ 7.3%
Adjusted Monoline Loss Cost Level Change (See Sections C and H) @	0.0%	+ 8.6%	+ 5.6%	+ 0.9%	+ 15.9%	+ 12.5%	+ 6.8%

@ The Adjusted loss cost level change reflects the impact of adjusting the loss costs for specific Owners, Landlords, and Tenants classes due to an expected occurrence frequency decrease stemming from COVID-19 related impacts.

\* The statewide Products change is calculated by determining the effect, on statewide loss cost levels, of implementing the indicated multistate loss costs.

\*\* The indicated statewide monoline change is calculated based on the indicated multistate monoline change.

KENTUCKY

OWNERS, LANDLORDS AND TENANTS LIABILITY INSURANCE  
TERRITORY LOSS COST LEVEL CHANGES

<u>CODE</u>	<u>TERRITORY DESCRIPTION</u>	LATEST YEAR MONO/MULTI AGGREGATE LOSS COSTS AT CURRENT LEVEL (ALCCL)	INDICATED LOSS COST LEVEL CHANGE BEFORE CAPPING	SELECTED LOSS COST LEVEL CHANGE BEFORE CAPPING	LOSS COST LEVEL CHANGE AFTER CAPPING	ADJUSTED LOSS COST LEVEL CHANGE
501	Louisville and Vicinity	\$ 5,711,032	+ 6.5%	+ 6.5%	+ 6.5%	+ 5.2%
503	Remainder of State	14,454,143	+ 10.7%	+ 10.7%	+ 10.7%	+ 10.0%
	STATEWIDE TOTAL	\$ 20,165,175	+ 9.5%	+ 9.5%	+ 9.5%	+ 8.6%



KENTUCKY  
PREMISES/OPERATIONS  
CLASS GROUP LOSS COST LEVEL CHANGES

MANUFACTURERS AND CONTRACTORS LIABILITY INSURANCE

CLASS GROUP	DESCRIPTION	LATEST YEAR MONO/MULTI ALCCL	INDICATED LOSS COST LEVEL CHANGE BEFORE CAPPING	SELECTED LOSS COST LEVEL CHANGE BEFORE CAPPING	LOSS COST LEVEL CHANGE AFTER CAPPING
30	SERVICE	\$ 821,047	+ 4.0%	+ 2.2%	+ 2.3%
31	LIGHT CONTRACTING	1,246,297	+ 1.8%	0.0%	+ 0.1%
32	MEDIUM CONTRACTING	3,865,616	+ 0.4%	- 1.4%	- 1.3%
33	HEAVY CONTRACTING	1,166,395	+ 2.0%	+ 0.2%	+ 0.4%
34	DEALERS OR DISTRIBUTORS	1,386,358	+ 4.9%	+ 3.0%	+ 2.6%
35	LIGHT MANUFACTURERS	231,734	+ 1.4%	- 0.4%	- 0.8%
36	MEDIUM MANUFACTURERS	977,586	0.0%	- 1.8%	- 1.4%
37	HEAVY MANUFACTURERS	472,997	+ 0.1%	- 1.7%	- 2.6%
38	MISCELLANEOUS OPERATIONS	510,997	+ 5.2%	+ 3.3%	+ 2.6%
	TOTAL	\$ 10,679,027	+ 1.8%	0.0%	0.0%

OWNERS, LANDLORDS AND TENANTS LIABILITY INSURANCE

CLASS GROUP	DESCRIPTION	LATEST YEAR MONO/MULTI ALCCL	INDICATED LOSS COST LEVEL CHANGE BEFORE CAPPING	SELECTED LOSS COST LEVEL CHANGE BEFORE CAPPING	LOSS COST LEVEL CHANGE AFTER CAPPING
01	FOOD AND BEVERAGE (RETAIL)	\$ 2,508,845	+ 10.9%	+ 10.9%	+ 11.6%
02	RESTAURANTS	2,731,056	+ 8.9%	+ 8.9%	+ 8.9%
03	STORES	1,041,057	+ 7.4%	+ 7.4%	+ 7.1%
04	VENDING AND RENTAL	126,428	+ 7.2%	+ 7.2%	+ 7.3%
05	FOOD AND BEVERAGE DISTRIBUTORS	183,756	- 0.1%	- 0.1%	- 0.5%
06	NON-(FOOD AND BEVERAGE) DISTRIB.	475,222	+ 12.6%	+ 12.6%	+ 11.9%
07	CLUBS, AMUSEMENTS AND SPORTS	930,998	+ 9.9%	+ 9.9%	+ 9.4%
08	HEALTH CARE FACILITIES	168,132	+ 11.0%	+ 11.0%	+ 12.1%
09	HOTELS AND MOTELS	1,125,820	+ 7.7%	+ 7.7%	+ 8.1%
10	SCHOOLS AND CHURCHES	2,960,339	+ 10.2%	+ 10.2%	+ 10.7%
11	APARTMENTS	1,971,991	+ 8.9%	+ 8.9%	+ 8.5%
12	BUILDINGS AND OFFICES	5,590,225	+ 10.0%	+ 10.0%	+ 9.4% @
13	MISCELLANEOUS PREMISES	285,345	+ 7.6%	+ 7.6%	+ 7.2%
16	GOVERNMENTAL SUBDIVISIONS	65,961	+ 7.4%	+ 7.4%	+ 7.8%
	TOTAL	\$ 20,165,175	+ 9.5%	+ 9.5%	+ 9.5%

@ The COVID-19 related adjustments are applied to the rounded loss costs after capping and then rounded using CGL rounding rules. The class group 12 adjusted loss cost level change is +6.4% resulting in an overall OL&T indication of +8.6%.

KENTUCKY

PRODUCTS/COMPLETED OPERATIONS LIABILITY INSURANCE  
CLASS GROUP LOSS COST LEVEL CHANGES

<u>CLASS GROUP</u>	<u>DESCRIPTION</u>	LATEST YEAR MULTISTATE MONO/MULTI ALCCL AT MULTISTATE LEVEL	INDICATED MULTISTATE LOSS COST LEVEL CHANGE	LATEST YEAR STATEWIDE MONO/MULTI ALCCL AT CURRENT LEVEL	INDICATED STATEWIDE LOSS COST LEVEL CHANGE	SELECTED STATEWIDE LOSS COST LEVEL CHANGE
03	MANUFACTURERS, DEALERS OR DISTRIBUTORS-FOOD OR DRUG	\$ 25,805,900	- 5.9%	\$ 189,241	- 4.0%	- 4.0%
04	DEALERS OR DISTRIBUTORS-NOT FOOD OR DRUG	34,950,355	+ 4.3%	526,444	+ 4.0%	+ 4.0%
05	MANUFACTURERS-NOT FOOD OR DRUG-LOW	5,162,520	+ 1.2%	42,189	+ 11.9%	+ 11.9%
06	MANUFACTURERS-NOT FOOD OR DRUG-MEDIUM	33,323,523	- 0.5%	425,955	- 1.8%	- 1.8%
07	MANUFACTURERS-NOT FOOD OR DRUG-HIGH	8,272,287	+ 0.2%	230,078	+ 0.7%	+ 0.7%
	PRODUCTS SUBTOTAL	\$ 107,514,585	- 0.1%	\$ 1,413,907	+ 0.9%	+ 0.9%
01	RETAIL STORES-FOOD OR DRUG			\$ 159,185	+ 12.0%	+ 12.0%
02	RETAIL STORES-NOT FOOD OR DRUG			224,694	+ 20.8%	+ 20.6%
11	COMPLETED OPERATIONS-LOW			141,645	+ 25.9%	+ 24.0%
12	COMPLETED OPERATIONS-MEDIUM			4,040,397	+ 15.7%	+ 15.7%
13	COMPLETED OPERATIONS-HIGH			350,489	+ 13.1%	+ 13.1%
	LOCAL PRODUCTS/COMPLETED OPERATIONS SUBTOTAL			\$ 4,916,410	+ 15.9%	+ 15.9%
	TOTAL			\$ 6,330,317	+ 12.5%	+ 12.5%

The indicated statewide Products change is calculated by determining the effect, on statewide loss cost levels, of implementing the indicated multistate loss costs.

For Products, the difference between the indicated multistate change and the indicated statewide change is a result of a difference in the distribution of risks by class in this jurisdiction versus the multistate.

For Local Products/Completed Operations, the indicated statewide monoline change is calculated based on the indicated multistate monoline change.

EXPLANATION OF LOSS COST CHANGES BY CLASS  
GENERAL LIABILITY OTHER THAN PROFESSIONAL - SUBLINE CODES 334 AND 336

The Commercial General Liability combined single limit loss costs for each General Liability Other Than Professional class code are set forth on the following pages.

For Premises/Operations, these loss costs are calculated by applying the following procedures:

A current base loss cost (CBLC) by class group and territory is calculated. This is equal to Loss Costs at Current Level summarized over all classes in the class group divided by adjusted monoline/multiline exposures (exposure times class differential summed over all classes in the class group). This calculation is done separately for each territory.

$$CBLC = \frac{\sum_{class} LCCL}{\sum_{class} (Exposure) \times (Differential)}$$

- A proposed base loss cost (PBLC) is calculated by multiplying the CBLC by the class group relative change, the territory relative change and the overall change.

$$PBLC = CBLC \times CG \text{ Relative Change} \times Territory \text{ Relative Change} \times Statewide \text{ Monoline Change}$$

- Each proposed class loss cost is calculated as the class differential for that class times the proposed base loss cost for the class group and territory.

For Products, these loss costs are calculated as explained in Section F - Class Groups and Calculation of Proposed Class Loss Costs -- Products.

For Local Products/Completed Operations, these loss costs are calculated as explained in Section G - Class Groups and Calculation of Proposed Class Loss Costs -- Local Products/Completed Operations.

EXPLANATION OF LOSS COST CHANGES BY CLASS  
GENERAL LIABILITY OTHER THAN PROFESSIONAL  
SUBLINE CODES 334 AND 336

The proposed Commercial General Liability loss costs have been limited where necessary as follows:

- M&C classes reflect an upper cap of +25% and a lower cap of -20% relative to current loss costs;
- OL&T classes reflect an upper cap of +35% and a lower cap of -20% relative to current loss costs;  
The COVID-19 related adjustment factors were applied to the capped and rounded loss costs reflecting the selected loss cost level change.  
*Loss costs reflecting the COVID-19 related adjustments are not subject to capping and are rounded using the rules listed below.*
- Products classes reflect an upper cap of +25% and a lower cap of -20% relative to current multistate loss costs;
- Local Products/Completed Operations classes reflect an upper cap of +41% and a lower cap of -20% relative to current loss costs.

The statewide loss cost level change has been multiplied by a 'build back' factor to ensure that the selected overall change by subline is achieved. This is required to offset the effect of capped loss costs as well as the effect of revised classification differentials (if any) on the overall change. These factors are:

M&C: 1.002

OL&T: 0.999

LP/CO: 1.000

The Commercial General Liability loss costs are rounded as follows:

<u>Loss Costs</u>	<u>To the Nearest</u>
0 - 0.249	\$ 0.001
.25 - 9.99	0.01
10.00 - 99.99	0.10
100.00 - Over	1.00

for example:

0.1111	rounds to	\$ 0.111
0.6777	rounds to	0.68
12.3436	rounds to	12.30
867.5432	rounds to	868.00

NOTE: Due to our standard capping procedure and rounding rules, the current loss cost of \$0.003 for Products Class 18707 (Tobacco Products Distributors) has not been able to increase as per the mathematical formula despite adverse experience in the last couple years. As a result, the cap has been eliminated for this particular class in this filing. Adjustments have also been applied to nine classes impacted by the COVID-19 pandemic. These classes are listed in Section H.

STATE: 16 - KENTUCKY  
 SUBLINE: PREM/OPS

LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
10010	501	0.205	0.188	9.0	10101	503	0.280	0.260	7.7	10160	501	2.760	2.630	4.9
10010	503	0.177	0.155	14.2	10105	501	3.220	3.080	4.5	10160	503	2.600	2.400	8.3
10015	501	8.560	8.010	6.9	10105	503	3.040	2.800	8.6	10204	501	0.280	0.270	3.7
10015	503	5.150	4.650	10.8	10107	501	4.370	4.300	1.6	10204	503	0.260	0.242	7.4
10026	501	0.800	0.770	3.9	10107	503	3.600	3.510	2.6	10205	501	0.310	0.300	3.3
10026	503	0.760	0.700	8.6	10110	501	29.100	27.300	6.6	10205	503	0.290	0.270	7.4
10036	501	0.920	0.900	2.2	10110	503	17.500	15.800	10.8	10220	501	5.850	5.590	4.7
10036	503	0.760	0.740	2.7	10111	501	0.260	0.235	10.6	10220	503	5.520	5.090	8.4
10040	501	0.156	0.143	9.1	10111	503	0.222	0.195	13.8	10255	501	0.340	0.330	3.0
10040	503	0.135	0.118	14.4	10113	501	0.450	0.430	4.7	10255	503	0.280	0.270	3.7
10042	501	0.460	0.440	4.5	10113	503	0.420	0.390	7.7	10256	501	1.250	1.230	1.6
10042	503	0.430	0.400	7.5	10115	501	0.890	0.850	4.7	10256	503	1.030	1.000	3.0
10052	501	5.920	5.540	6.9	10115	503	0.840	0.770	9.1	10257	501	0.235	0.231	1.7
10052	503	3.560	3.210	10.9	10117	501	8.500	7.960	6.8	10257	503	0.194	0.188	3.2
10054	501	5.250	4.920	6.7	10117	503	5.120	4.610	11.1	10309	501	0.201	0.192	4.7
10054	503	3.160	2.850	10.9	10120	501	19.100	17.800	7.3	10309	503	0.189	0.175	8.0
10060	501	0.220	0.210	4.8	10120	503	11.500	10.300	11.7	10315	501	0.470	0.450	4.4
10060	503	0.208	0.191	8.9	10130	501	4.400	4.200	4.8	10315	503	0.450	0.410	9.8
10065	501	0.330	0.320	3.1	10130	503	4.140	3.820	8.4	10331	501	11.600	10.900	6.4
10065	503	0.310	0.290	6.9	10132	501	3.790	3.620	4.7	10331	503	6.990	6.300	11.0
10066	501	0.340	0.320	6.3	10132	503	3.570	3.290	8.5	10332	501	20.000	18.700	7.0
10066	503	0.320	0.290	10.3	10133	501	5.580	5.360	4.1	10332	503	12.100	10.900	11.0
10070	501	0.117	0.108	8.3	10133	503	3.580	3.320	7.8	10352	501	0.940	0.870	8.0
10070	503	0.101	0.089	13.5	10140	501	0.044	0.045	-2.2	10352	503	0.810	0.730	11.0
10071	501	0.390	0.380	2.6	10140	503	0.031	0.030	3.3	10367	501	3.480	3.390	2.7
10071	503	0.370	0.340	8.8	10141	501	0.088	0.091	-3.3	10367	503	3.070	2.990	2.7
10072	501	3.930	3.840	2.3	10141	503	0.061	0.061	0.0	10368	501	5.080	4.960	2.4
10072	503	3.470	3.380	2.7	10145	501	0.430	0.440	-2.3	10368	503	4.490	4.370	2.7
10073	501	1.430	1.410	1.4	10145	503	0.290	0.290	0.0	10378	501	11.800	11.000	7.3
10073	503	1.180	1.150	2.6	10146	501	0.720	0.670	7.5	10378	503	7.070	6.380	10.8
10075	501	10.600	10.400	1.9	10146	503	0.620	0.560	10.7	10379	501	5.450	5.110	6.7
10075	503	8.740	8.510	2.7	10150	501	0.620	0.590	5.1	10379	503	3.280	2.960	10.8
10100	501	1.610	1.490	8.1	10150	503	0.580	0.530	9.4	10380	501	9.310	8.720	6.8
10100	503	1.400	1.250	12.0	10151	501	15.500	14.800	4.7	10380	503	5.610	5.060	10.9
10101	501	0.300	0.280	7.1	10151	503	14.600	13.500	8.1	10381	501	8.070	7.550	6.9

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STATE: 16 - KENTUCKY  
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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
10381	503	4.860	4.380	11.0	11208	501	1.300	1.270	2.4	12361	503	0.067	0.066	1.5
11007	501	1.480	1.440	2.8	11208	503	1.150	1.120	2.7	12362	501	0.129	0.118	9.3
11007	503	1.310	1.270	3.1	11209	501	6.100	5.950	2.5	12362	503	0.111	0.098	13.3
11020	501	0.380	0.360	5.6	11209	503	5.390	5.250	2.7	12373	501	0.049	0.045	8.9
11020	503	0.350	0.330	6.1	11210	501	2.600	2.540	2.4	12373	503	0.042	0.037	13.5
11039	501	1.240	1.220	1.6	11210	503	2.300	2.230	3.1	12374	501	0.760	0.730	4.1
11039	503	1.020	1.000	2.0	11211	501	13.500	13.200	2.3	12374	503	0.720	0.660	9.1
11052	501	5.810	5.570	4.3	11211	503	11.900	11.600	2.6	12375	501	0.380	0.360	5.6
11052	503	3.730	3.450	8.1	11212	501	2.040	1.990	2.5	12375	503	0.350	0.330	6.1
11126	501	0.078	0.074	5.4	11212	503	1.800	1.760	2.3	12391	501	0.097	0.089	9.0
11126	503	0.073	0.068	7.4	11213	501	1.670	1.630	2.5	12391	503	0.084	0.073	15.1
11127	501	0.650	0.600	8.3	11213	503	1.470	1.430	2.8	12393	501	0.500	0.480	4.2
11127	503	0.560	0.500	12.0	11214	501	4.100	4.000	2.5	12393	503	0.470	0.430	9.3
11128	501	0.880	0.810	8.6	11214	503	3.620	3.530	2.5	12467	501	0.207	0.198	4.5
11128	503	0.760	0.670	13.4	11222	501	0.069	0.067	3.0	12467	503	0.195	0.180	8.3
11138	501	2.900	2.720	6.6	11222	503	0.061	0.059	3.4	12509	501	0.085	0.084	1.2
11138	503	1.750	1.570	11.5	11234	501	0.350	0.330	6.1	12509	503	0.070	0.068	2.9
11155	501	0.270	0.250	8.0	11234	503	0.330	0.300	10.0	12510	501	1.080	1.060	1.9
11155	503	0.250	0.231	8.2	11248	501	0.065	0.064	1.6	12510	503	0.890	0.870	2.3
11167	501	1.340	1.280	4.7	11248	503	0.053	0.052	1.9	12583	501	0.480	0.470	2.1
11167	503	0.860	0.790	8.9	11258	501	1.940	1.800	7.8	12583	503	0.400	0.390	2.6
11168	501	6.940	6.660	4.2	11258	503	1.680	1.500	12.0	12651	501	1.400	1.380	1.4
11168	503	4.460	4.120	8.3	11259	501	2.080	1.930	7.8	12651	503	1.150	1.120	2.7
11201	501	12.900	12.600	2.4	11259	503	1.800	1.610	11.8	12683	501	0.640	0.630	1.6
11201	503	11.400	11.100	2.7	11273	501	17.300	16.600	4.2	12683	503	0.530	0.510	3.9
11202	501	3.830	3.730	2.7	11273	503	16.300	15.100	7.9	12707	501	0.850	0.780	9.0
11202	503	3.380	3.290	2.7	11274	501	16.600	15.900	4.4	12707	503	0.730	0.640	14.1
11203	501	1.520	1.390	9.4	11274	503	15.700	14.500	8.3	12797	501	0.178	0.163	9.2
11203	503	1.310	1.150	13.9	11288	501	2.370	2.200	7.7	12797	503	0.154	0.135	14.1
11204	501	0.390	0.370	5.4	11288	503	2.060	1.840	12.0	12805	501	0.400	0.380	5.3
11204	503	0.370	0.340	8.8	12014	501	0.140	0.137	2.2	12805	503	0.380	0.350	8.6
11206	501	0.600	0.590	1.7	12014	503	0.115	0.112	2.7	12841	501	0.670	0.640	4.7
11206	503	0.530	0.520	1.9	12356	501	1.470	1.400	5.0	12841	503	0.630	0.580	8.6
11207	501	7.580	7.400	2.4	12356	503	1.390	1.280	8.6	12927	501	0.117	0.111	5.4
11207	503	6.700	6.520	2.8	12361	501	0.096	0.099	-3.0	12927	503	0.110	0.101	8.9

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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
13049	501	0.050	0.051	-2.0	13621	503	0.140	0.137	2.2	14734	501	0.330	0.320	3.1
13049	503	0.035	0.034	2.9	13670	501	0.054	0.055	-1.8	14734	503	0.310	0.290	6.9
13111	501	1.800	1.670	7.8	13670	503	0.037	0.037	0.0	14855	501	0.300	0.290	3.4
13111	503	1.560	1.390	12.2	13673	501	1.470	1.360	8.1	14855	503	0.247	0.240	2.9
13112	501	0.082	0.084	-2.4	13673	503	1.270	1.140	11.4	14913	501	0.410	0.400	2.5
13112	503	0.057	0.056	1.8	13715	501	0.129	0.118	9.3	14913	503	0.390	0.360	8.3
13201	501	1.240	1.220	1.6	13715	503	0.111	0.098	13.3	15062	501	0.270	0.260	3.8
13201	503	1.020	0.990	3.0	13716	501	0.560	0.540	3.7	15062	503	0.222	0.216	2.8
13204	501	1.400	1.380	1.4	13716	503	0.530	0.490	8.2	15063	501	0.310	0.310	0.0
13204	503	1.150	1.120	2.7	13720	501	0.830	0.770	7.8	15063	503	0.260	0.250	4.0
13205	501	0.540	0.530	1.9	13720	503	0.720	0.640	12.5	15070	501	0.116	0.114	1.8
13205	503	0.440	0.430	2.3	13759	501	0.220	0.210	4.8	15070	503	0.103	0.100	3.0
13314	501	0.149	0.142	4.9	13759	503	0.208	0.191	8.9	15123	501	5.570	5.340	4.3
13314	503	0.140	0.129	8.5	13930	501	0.280	0.250	12.0	15123	503	3.580	3.310	8.2
13351	501	0.360	0.350	2.9	13930	503	0.237	0.208	13.9	15124	501	1.950	1.870	4.3
13351	503	0.340	0.320	6.3	14068	501	0.049	0.046	6.5	15124	503	1.250	1.160	7.8
13352	501	0.370	0.350	5.7	14068	503	0.046	0.042	9.5	15188	501	0.470	0.470	0.0
13352	503	0.350	0.320	9.4	14101	501	0.570	0.540	5.6	15188	503	0.390	0.380	2.6
13410	501	1.960	1.920	2.1	14101	503	0.540	0.500	8.0	15223	501	0.063	0.065	-3.1
13410	503	1.610	1.570	2.5	14279	501	0.650	0.640	1.6	15223	503	0.044	0.044	0.0
13412	501	0.660	0.650	1.5	14279	503	0.540	0.520	3.8	15224	501	0.870	0.810	7.4
13412	503	0.540	0.530	1.9	14401	501	1.950	1.810	7.7	15224	503	0.760	0.680	11.8
13453	501	0.760	0.750	1.3	14401	503	1.690	1.510	11.9	15314	501	0.270	0.250	8.0
13453	503	0.630	0.610	3.3	14405	501	0.870	0.850	2.4	15314	503	0.250	0.231	8.2
13454	501	0.890	0.880	1.1	14405	503	0.770	0.750	2.7	15404	501	0.123	0.121	1.7
13454	503	0.740	0.720	2.8	14527	501	0.530	0.480	10.4	15404	503	0.101	0.098	3.1
13455	501	0.910	0.890	2.2	14527	503	0.450	0.400	12.5	15405	501	0.181	0.177	2.3
13455	503	0.750	0.730	2.7	14655	501	0.110	0.105	4.8	15405	503	0.149	0.145	2.8
13506	501	1.140	1.090	4.6	14655	503	0.104	0.096	8.3	15406	501	0.460	0.450	2.2
13506	503	1.070	0.990	8.1	14731	501	5.760	5.530	4.2	15406	503	0.380	0.370	2.7
13507	501	1.370	1.310	4.6	14731	503	3.700	3.420	8.2	15488	501	1.150	1.130	1.8
13507	503	1.290	1.190	8.4	14732	501	0.430	0.410	4.9	15488	503	0.950	0.920	3.3
13590	501	0.670	0.660	1.5	14732	503	0.270	0.250	8.0	15538	501	0.470	0.450	4.4
13590	503	0.560	0.540	3.7	14733	501	0.770	0.740	4.1	15538	503	0.450	0.410	9.8
13621	501	0.170	0.167	1.8	14733	503	0.730	0.670	9.0	15600	501	1.190	1.140	4.4

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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
15600	503	1.120	1.040	7.7	16604	501	0.290	0.280	3.6	16906	503	1.810	1.640	10.4
15607	501	0.152	0.149	2.0	16604	503	0.236	0.229	3.1	16910	501	2.440	2.300	6.1
15607	503	0.135	0.131	3.1	16670	501	4.820	4.510	6.9	16910	503	1.610	1.470	9.5
15608	501	0.270	0.250	8.0	16670	503	2.900	2.610	11.1	16911	501	2.210	2.080	6.3
15608	503	0.250	0.231	8.2	16676	501	0.370	0.350	5.7	16911	503	1.460	1.330	9.8
15656	501	7.840	7.490	4.7	16676	503	0.350	0.320	9.4	16915	501	2.500	2.360	5.9
15656	503	7.390	6.820	8.4	16694	501	0.570	0.560	1.8	16915	503	1.660	1.500	10.7
15699	501	0.380	0.370	2.7	16694	503	0.470	0.450	4.4	16916	501	2.080	1.970	5.6
15699	503	0.330	0.320	3.1	16705	501	0.410	0.380	7.9	16916	503	1.380	1.250	10.4
15733	501	0.300	0.290	3.4	16705	503	0.360	0.310	16.1	16920	501	5.540	5.230	5.9
15733	503	0.247	0.240	2.9	16750	501	0.129	0.124	4.0	16920	503	3.670	3.330	10.2
15839	501	0.360	0.340	5.9	16750	503	0.122	0.113	8.0	16921	501	5.060	4.780	5.9
15839	503	0.340	0.310	9.7	16751	501	0.129	0.124	4.0	16921	503	3.350	3.040	10.2
15991	501	0.290	0.280	3.6	16751	503	0.122	0.113	8.0	16930	501	3.190	3.010	6.0
15991	503	0.270	0.250	8.0	16819	501	1.630	1.600	1.9	16930	503	2.110	1.920	9.9
15993	501	0.246	0.235	4.7	16819	503	1.340	1.310	2.3	16931	501	3.440	3.240	6.2
15993	503	0.232	0.214	8.4	16820	501	1.260	1.240	1.6	16931	503	2.280	2.070	10.1
16005	501	0.068	0.063	7.9	16820	503	1.040	1.010	3.0	16940	501	6.910	6.530	5.8
16005	503	0.059	0.052	13.5	16881	501	2.030	1.940	4.6	16940	503	4.580	4.160	10.1
16009	501	0.370	0.360	2.8	16881	503	1.910	1.760	8.5	16941	501	2.770	2.610	6.1
16009	503	0.300	0.290	3.4	16890	501	0.191	0.187	2.1	16941	503	1.840	1.670	10.2
16402	501	1.760	1.680	4.8	16890	503	0.157	0.153	2.6	18078	501	0.234	0.214	9.3
16402	503	1.660	1.530	8.5	16891	501	0.208	0.204	2.0	18078	503	0.202	0.177	14.1
16403	501	1.110	1.060	4.7	16891	503	0.171	0.167	2.4	18109	501	0.490	0.460	6.5
16403	503	1.050	0.970	8.2	16892	501	0.380	0.370	2.7	18109	503	0.460	0.420	9.5
16404	501	1.400	1.340	4.5	16892	503	0.310	0.300	3.3	18110	501	0.390	0.370	5.4
16404	503	1.320	1.220	8.2	16900	501	4.060	3.830	6.0	18110	503	0.370	0.340	8.8
16471	501	0.215	0.210	2.4	16900	503	2.690	2.440	10.2	18205	501	0.360	0.330	9.1
16471	503	0.190	0.185	2.7	16901	501	2.600	2.460	5.7	18205	503	0.310	0.270	14.8
16501	501	0.145	0.132	9.8	16901	503	1.730	1.570	10.2	18206	501	0.630	0.600	5.0
16501	503	0.125	0.110	13.6	16902	501	2.210	2.080	6.3	18206	503	0.590	0.550	7.3
16527	501	0.222	0.203	9.4	16902	503	1.460	1.330	9.8	18335	501	0.450	0.430	4.7
16527	503	0.192	0.168	14.3	16905	501	4.270	4.030	6.0	18335	503	0.430	0.390	10.3
16588	501	0.170	0.167	1.8	16905	503	2.830	2.570	10.1	18435	501	1.700	1.580	7.6
16588	503	0.140	0.137	2.2	16906	501	2.730	2.570	6.2	18435	503	1.480	1.320	12.1

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LOSS COST % CHANGE BY CLASS

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18436	501	1.370	1.280	7.0	19795	503	0.360	0.330	9.1	41604	501	14.600	13.600	7.4
18436	503	1.190	1.070	11.2	19796	501	0.450	0.430	4.7	41604	503	10.500	9.460	11.0
18437	501	0.650	0.620	4.8	19796	503	0.420	0.390	7.7	41620	501	1.080	1.060	1.9
18437	503	0.610	0.560	8.9	40045	501	267.000	250.000	6.8	41620	503	0.960	0.930	3.2
18438	501	1.240	1.190	4.2	40045	503	161.000	145.000	11.0	41650	501	37.500	35.000	7.1
18438	503	1.170	1.080	8.3	40046	501	52.700	49.300	6.9	41650	503	27.000	24.300	11.1
18501	501	1.560	1.450	7.6	40046	503	31.700	28.600	10.8	41664	501	40.400	37.800	6.9
18501	503	1.360	1.210	12.4	40047	501	18.800	17.600	6.8	41664	503	24.300	21.900	11.0
18506	501	0.600	0.590	1.7	40047	503	11.300	10.200	10.8	41665	501	4.730	4.430	6.8
18506	503	0.490	0.480	2.1	40059	501	6.730	6.300	6.8	41665	503	2.850	2.570	10.9
18507	501	0.233	0.223	4.5	40059	503	4.050	3.650	11.0	41667	501	110.000	103.000	6.8
18507	503	0.220	0.203	8.4	40061	501	3.570	3.340	6.9	41667	503	66.500	59.900	11.0
18570	501	2.430	2.330	4.3	40061	503	2.150	1.940	10.8	41668	501	103.000	96.900	6.3
18570	503	2.300	2.120	8.5	40063	501	119.000	112.000	6.3	41668	503	62.300	56.200	10.9
18616	501	0.460	0.450	2.2	40063	503	71.900	64.800	11.0	41669	501	0.730	0.680	7.4
18616	503	0.380	0.370	2.7	40064	501	35.100	32.900	6.7	41669	503	0.440	0.390	12.8
18707	501	0.019	0.018	5.6	40064	503	21.100	19.100	10.5	41670	501	1.220	1.140	7.0
18707	503	0.017	0.015	13.3	40075	501	32.500	31.100	4.5	41670	503	0.730	0.660	10.6
18708	501	0.142	0.136	4.4	40075	503	27.600	25.300	9.1	41677	501	0.224	0.219	2.3
18708	503	0.134	0.124	8.1	40101	501	29.100	26.800	8.6	41677	503	0.198	0.193	2.6
18833	501	0.231	0.212	9.0	40101	503	21.600	19.200	12.5	41678	501	88.200	82.500	6.9
18833	503	0.199	0.175	13.7	40102	501	25.700	23.700	8.4	41678	503	58.900	53.000	11.1
18834	501	0.370	0.350	5.7	40102	503	19.100	17.000	12.4	41680	501	19.500	18.200	7.1
18834	503	0.350	0.320	9.4	40111	501	9.460	8.850	6.9	41680	503	14.000	12.600	11.1
18911	501	1.170	1.110	5.4	40111	503	5.690	5.130	10.9	41696	501	0.710	0.690	2.9
18911	503	1.100	1.010	8.9	41001	501	0.320	0.300	6.7	41696	503	0.630	0.610	3.3
18912	501	2.190	2.100	4.3	41001	503	0.192	0.173	11.0	41697	501	0.490	0.480	2.1
18912	503	2.070	1.910	8.4	41421	501	0.560	0.520	7.7	41697	503	0.440	0.420	4.8
18920	501	0.570	0.540	5.6	41421	503	0.400	0.360	11.1	41715	501	12.400	11.500	7.8
18920	503	0.540	0.500	8.0	41422	501	0.300	0.280	7.1	41715	503	8.900	8.010	11.1
19007	501	2.180	2.090	4.3	41422	503	0.216	0.194	11.3	41716	501	7.870	7.350	7.1
19007	503	1.400	1.290	8.5	41510	501	58.600	56.000	4.6	41716	503	5.660	5.100	11.0
19051	501	4.830	4.630	4.3	41510	503	55.200	50.900	8.4	43151	501	16.200	15.500	4.5
19051	503	3.100	2.870	8.0	41603	501	26.600	24.800	7.3	43151	503	13.700	12.600	8.7
19795	501	0.380	0.360	5.6	41603	503	19.100	17.200	11.0	43152	501	26.400	24.700	6.9

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43152	503	17.600	15.900	10.7	44070	501	4.380	4.100	6.8	44315	503	3.620	3.260	11.0
43200	501	61.600	58.800	4.8	44070	503	2.640	2.380	10.9	44427	501	105.000	97.000	8.2
43200	503	52.200	48.000	8.7	44071	501	4.870	4.560	6.8	44427	503	78.300	69.500	12.7
43421	501	16.900	16.100	5.0	44071	503	2.930	2.650	10.6	44428	501	106.000	97.500	8.7
43421	503	14.300	13.100	9.2	44072	501	3.370	3.150	7.0	44428	503	78.700	69.900	12.6
43422	501	88.500	84.600	4.6	44072	503	2.030	1.830	10.9	44429	501	1.580	1.460	8.2
43422	503	75.000	69.000	8.7	44100	501	6.450	6.180	4.4	44429	503	1.180	1.050	12.4
43470	501	4.120	4.020	2.5	44100	503	5.830	5.380	8.4	44430	501	1.100	1.020	7.8
43470	503	3.640	3.540	2.8	44101	501	6.720	6.440	4.3	44430	503	0.820	0.730	12.3
43518	501	17.300	16.200	6.8	44101	503	6.080	5.600	8.6	44431	501	3.520	3.250	8.3
43518	503	10.400	9.400	10.6	44102	501	5.240	5.020	4.4	44431	503	2.620	2.330	12.4
43550	501	60.200	57.500	4.7	44102	503	4.740	4.370	8.5	44432	501	1.120	1.030	8.7
43550	503	51.000	46.900	8.7	44103	501	4.640	4.440	4.5	44432	503	0.830	0.740	12.2
43551	501	33.400	31.900	4.7	44103	503	4.190	3.870	8.3	44433	501	35.500	32.800	8.2
43551	503	28.300	26.000	8.8	44104	501	1.950	1.870	4.3	44433	503	26.500	23.500	12.8
43626	501	13.800	13.000	6.2	44104	503	1.760	1.620	8.6	44434	501	68.000	62.700	8.5
43626	503	8.330	7.510	10.9	44108	501	2.290	2.190	4.6	44434	503	50.600	44.900	12.7
43628	501	180.000	168.000	7.1	44108	503	2.070	1.900	8.9	44435	501	70.400	65.000	8.3
43628	503	108.000	97.600	10.7	44109	501	5.780	5.540	4.3	44435	503	52.400	46.500	12.7
43629	501	152.000	143.000	6.3	44109	503	5.220	4.820	8.3	44436	501	82.200	75.900	8.3
43629	503	91.800	82.700	11.0	44110	501	5.910	5.670	4.2	44436	503	61.200	54.300	12.7
43760	501	5.080	4.750	6.9	44110	503	5.350	4.930	8.5	44437	501	68.100	62.900	8.3
43760	503	3.060	2.760	10.9	44111	501	3.630	3.480	4.3	44437	503	50.700	45.000	12.7
43822	501	3.280	3.200	2.5	44111	503	3.280	3.020	8.6	44438	501	53.900	49.700	8.5
43822	503	2.900	2.820	2.8	44112	501	2.150	2.060	4.4	44438	503	40.100	35.600	12.6
43840	501	0.040	0.039	2.6	44112	503	1.940	1.790	8.4	44439	501	105.000	96.700	8.6
43840	503	0.036	0.035	2.9	44276	501	82.600	78.900	4.7	44439	503	78.000	69.300	12.6
43860	501	2.580	2.520	2.4	44276	503	70.000	64.400	8.7	44440	501	86.700	80.000	8.4
43860	503	2.280	2.220	2.7	44277	501	53.600	51.200	4.7	44440	503	64.600	57.300	12.7
43889	501	0.920	0.900	2.2	44277	503	45.400	41.800	8.6	45190	501	2.760	2.630	4.9
43889	503	0.820	0.790	3.8	44280	501	0.224	0.219	2.3	45190	503	3.520	3.240	8.6
44009	501	6.790	6.510	4.3	44280	503	0.198	0.193	2.6	45191	501	1.960	1.870	4.8
44009	503	4.360	4.030	8.2	44311	501	8.940	8.360	6.9	45191	503	2.500	2.300	8.7
44069	501	14.800	13.900	6.5	44311	503	5.380	4.850	10.9	45192	501	2.290	2.180	5.0
44069	503	8.910	8.030	11.0	44315	501	6.010	5.620	6.9	45192	503	2.930	2.690	8.9

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45193	501	1.350	1.290	4.7	46427	503	40.100	36.100	11.1	47475	501	5.620	5.250	7.0
45193	503	1.730	1.590	8.8	46603	501	3.770	3.530	6.8	47475	503	4.040	3.640	11.0
45210	501	1.710	1.630	4.9	46603	503	2.520	2.270	11.0	47476	501	5.620	5.250	7.0
45210	503	2.190	2.010	9.0	46604	501	4.350	4.070	6.9	47476	503	4.040	3.640	11.0
45334	501	35.500	33.900	4.7	46604	503	2.900	2.620	10.7	47477	501	7.490	7.000	7.0
45334	503	30.100	27.700	8.7	46606	501	11.600	10.900	6.4	47477	503	5.390	4.850	11.1
45380	501	0.350	0.340	2.9	46606	503	7.750	6.980	11.0	47478	501	7.870	7.350	7.1
45380	503	0.290	0.280	3.6	46607	501	16.000	14.900	7.4	47478	503	5.660	5.100	11.0
45450	501	10.400	9.970	4.3	46607	503	10.700	9.590	11.6	48039	501	43.600	41.700	4.6
45450	503	8.840	8.130	8.7	46622	501	9.580	9.350	2.5	48039	503	37.000	34.000	8.8
45678	501	0.242	0.236	2.5	46622	503	8.460	8.240	2.7	48206	501	36.600	34.300	6.7
45678	503	0.214	0.208	2.9	46700	501	124.000	118.000	5.1	48206	503	22.000	19.900	10.6
45771	501	0.530	0.530	0.0	46700	503	105.000	96.500	8.8	48441	501	0.154	0.144	6.9
45771	503	0.440	0.430	2.3	46911	501	27.400	25.600	7.0	48441	503	0.093	0.083	12.0
45819	501	0.174	0.171	1.8	46911	503	16.500	14.900	10.7	48557	501	15.400	14.400	6.9
45819	503	0.143	0.139	2.9	46912	501	50.200	47.000	6.8	48557	503	9.260	8.350	10.9
45900	501	0.136	0.130	4.6	46912	503	30.200	27.200	11.0	48558	501	13.400	12.500	7.2
45900	503	0.128	0.118	8.5	47050	501	0.900	0.870	3.4	48558	503	8.050	7.260	10.9
45901	501	0.117	0.111	5.4	47050	503	0.790	0.770	2.6	48600	501	89.900	84.100	6.9
45901	503	0.110	0.101	8.9	47221	501	136.000	130.000	4.6	48600	503	60.000	54.100	10.9
45937	501	0.139	0.133	4.5	47221	503	115.000	106.000	8.5	48636	501	0.660	0.680	-2.9
45937	503	0.118	0.108	9.3	47318	501	11.300	10.500	7.6	48636	503	0.860	0.880	-2.3
46004	501	35.600	33.200	7.2	47318	503	6.780	6.110	11.0	48637	501	11.800	11.000	7.3
46004	503	25.600	23.100	10.8	47367	501	0.224	0.219	2.3	48637	503	7.070	6.380	10.8
46005	501	28.500	26.600	7.1	47367	503	0.198	0.193	2.6	48638	501	5.830	5.460	6.8
46005	503	20.500	18.400	11.4	47420	501	2.470	2.310	6.9	48638	503	3.510	3.170	10.7
46112	501	0.114	0.106	7.5	47420	503	1.480	1.340	10.4	48808	501	2.010	1.920	4.7
46112	503	0.085	0.076	11.8	47469	501	5.620	5.250	7.0	48808	503	1.890	1.750	8.0
46202	501	3.500	3.340	4.8	47469	503	4.040	3.640	11.0	48925	501	281.000	263.000	6.8
46202	503	4.480	4.120	8.7	47471	501	4.870	4.550	7.0	48925	503	169.000	153.000	10.5
46362	501	308.000	288.000	6.9	47471	503	3.510	3.150	11.4	49005	501	0.152	0.149	2.0
46362	503	205.000	185.000	10.8	47473	501	6.370	5.950	7.1	49005	503	0.135	0.131	3.1
46426	501	45.000	42.000	7.1	47473	503	4.580	4.120	11.2	49111	501	3.070	2.930	4.8
46426	503	30.000	27.000	11.1	47474	501	7.120	6.650	7.1	49111	503	2.890	2.670	8.2
46427	501	60.000	56.200	6.8	47474	503	5.120	4.610	11.1	49181	501	14.300	13.600	5.1

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49181	503	12.100	11.100	9.0	50017	501	0.061	0.061	0.0	51250	503	0.136	0.139	-2.2
49183	501	17.400	16.600	4.8	50017	503	0.063	0.064	-1.6	51251	501	0.022	0.022	0.0
49183	503	14.700	13.600	8.1	50045	501	0.138	0.140	-1.4	51251	503	0.023	0.023	0.0
49184	501	36.700	35.100	4.6	50045	503	0.144	0.146	-1.4	51252	501	0.076	0.077	-1.3
49184	503	31.100	28.600	8.7	50047	501	0.016	0.016	0.0	51252	503	0.079	0.080	-1.3
49185	501	33.400	31.900	4.7	50047	503	0.016	0.016	0.0	51253	501	0.065	0.066	-1.5
49185	503	28.300	26.000	8.8	51001	501	0.023	0.023	0.0	51253	503	0.068	0.068	0.0
49239	501	0.260	0.260	0.0	51001	503	0.030	0.030	0.0	51254	501	0.020	0.020	0.0
49239	503	0.216	0.210	2.9	51005	501	0.005	0.005	0.0	51254	503	0.021	0.021	0.0
49292	501	1.040	1.000	4.0	51005	503	0.006	0.006	0.0	51255	501	0.270	0.270	0.0
49292	503	0.880	0.810	8.6	51116	501	0.058	0.059	-1.7	51255	503	0.350	0.350	0.0
49333	501	7.650	7.310	4.7	51116	503	0.075	0.076	-1.3	51300	501	0.096	0.097	-1.0
49333	503	6.480	5.960	8.7	51201	501	0.021	0.021	0.0	51300	503	0.111	0.112	-0.9
49617	501	0.460	0.440	4.5	51201	503	0.022	0.022	0.0	51305	501	0.096	0.097	-1.0
49617	503	0.290	0.270	7.4	51205	501	0.064	0.065	-1.5	51305	503	0.111	0.112	-0.9
49618	501	0.390	0.370	5.4	51205	503	0.066	0.067	-1.5	51315	501	0.170	0.167	1.8
49618	503	0.247	0.229	7.9	51206	501	0.010	0.010	0.0	51315	503	0.140	0.137	2.2
49619	501	0.720	0.690	4.3	51206	503	0.010	0.011	-9.1	51330	501	0.040	0.042	-4.8
49619	503	0.470	0.430	9.3	51210	501	0.040	0.041	-2.4	51330	503	0.053	0.054	-1.9
49763	501	4.700	4.510	4.2	51210	503	0.052	0.053	-1.9	51333	501	0.013	0.014	-7.1
49763	503	3.020	2.790	8.2	51220	501	0.137	0.141	-2.8	51333	503	0.017	0.018	-5.6
49801	501	120.000	114.000	5.3	51220	503	0.177	0.181	-2.2	51340	501	0.021	0.021	0.0
49801	503	101.000	93.300	8.3	51221	501	0.076	0.078	-2.6	51340	503	0.022	0.022	0.0
49802	501	10.600	10.100	5.0	51221	503	0.098	0.100	-2.0	51350	501	0.162	0.163	-0.6
49802	503	8.990	8.270	8.7	51222	501	0.092	0.095	-3.2	51350	503	0.187	0.188	-0.5
49803	501	18.800	17.900	5.0	51222	503	0.120	0.122	-1.6	51351	501	0.145	0.146	-0.7
49803	503	15.900	14.600	8.9	51224	501	0.097	0.100	-3.0	51351	503	0.167	0.168	-0.6
49840	501	0.920	0.900	2.2	51224	503	0.126	0.128	-1.6	51352	501	0.199	0.201	-1.0
49840	503	0.820	0.790	3.8	51230	501	0.016	0.017	-5.9	51352	503	0.229	0.231	-0.9
49870	501	118.000	110.000	7.3	51230	503	0.021	0.022	-4.5	51355	501	0.135	0.137	-1.5
49870	503	70.800	63.800	11.0	51240	501	0.250	0.250	0.0	51355	503	0.156	0.157	-0.6
50010	501	0.122	0.124	-1.6	51240	503	0.260	0.270	-3.7	51356	501	0.146	0.147	-0.7
50010	503	0.128	0.129	-0.8	51241	501	0.750	0.760	-1.3	51356	503	0.168	0.170	-1.2
50015	501	0.079	0.081	-2.5	51241	503	0.780	0.790	-1.3	51357	501	0.242	0.238	1.7
50015	503	0.083	0.084	-1.2	51250	501	0.105	0.108	-2.8	51357	503	0.199	0.194	2.6

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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
51358	501	0.580	0.570	1.8	51613	503	0.052	0.052	0.0	51853	501	0.063	0.065	-3.1
51358	503	0.480	0.470	2.1	51625	501	0.021	0.022	-4.5	51853	503	0.081	0.083	-2.4
51359	501	0.510	0.500	2.0	51625	503	0.027	0.028	-3.6	51854	501	0.140	0.145	-3.4
51359	503	0.420	0.410	2.4	51666	501	0.069	0.069	0.0	51854	503	0.182	0.186	-2.2
51370	501	0.246	0.249	-1.2	51666	503	0.079	0.080	-1.3	51855	501	0.147	0.152	-3.3
51370	503	0.260	0.260	0.0	51702	501	0.063	0.065	-3.1	51855	503	0.191	0.195	-2.1
51380	501	0.025	0.025	0.0	51702	503	0.081	0.083	-2.4	51856	501	0.081	0.083	-2.4
51380	503	0.026	0.026	0.0	51703	501	0.026	0.027	-3.7	51856	503	0.105	0.107	-1.9
51400	501	0.095	0.098	-3.1	51703	503	0.034	0.034	0.0	51857	501	0.139	0.143	-2.8
51400	503	0.123	0.126	-2.4	51734	501	0.049	0.050	-2.0	51857	503	0.180	0.183	-1.6
51401	501	0.140	0.144	-2.8	51734	503	0.063	0.064	-1.6	51869	501	0.056	0.057	-1.8
51401	503	0.181	0.185	-2.2	51741	501	0.131	0.133	-1.5	51869	503	0.059	0.059	0.0
51500	501	0.046	0.047	-2.1	51741	503	0.137	0.138	-0.7	51877	501	0.320	0.320	0.0
51500	503	0.048	0.049	-2.0	51752	501	0.110	0.112	-1.8	51877	503	0.330	0.330	0.0
51516	501	0.067	0.066	1.5	51752	503	0.115	0.117	-1.7	51889	501	0.052	0.053	-1.9
51516	503	0.059	0.058	1.7	51767	501	0.020	0.020	0.0	51889	503	0.054	0.055	-1.8
51517	501	0.076	0.074	2.7	51767	503	0.023	0.023	0.0	51896	501	0.024	0.025	-4.0
51517	503	0.067	0.065	3.1	51777	501	0.070	0.070	0.0	51896	503	0.025	0.026	-3.8
51550	501	0.057	0.058	-1.7	51777	503	0.080	0.081	-1.2	51900	501	0.078	0.079	-1.3
51550	503	0.060	0.061	-1.6	51790	501	0.116	0.117	-0.9	51900	503	0.090	0.091	-1.1
51551	501	0.020	0.020	0.0	51790	503	0.134	0.135	-0.7	51909	501	0.089	0.091	-2.2
51551	503	0.021	0.021	0.0	51796	501	0.048	0.048	0.0	51909	503	0.115	0.117	-1.7
51552	501	0.035	0.035	0.0	51796	503	0.050	0.050	0.0	51919	501	0.053	0.053	0.0
51552	503	0.036	0.037	-2.7	51808	501	0.169	0.172	-1.7	51919	503	0.055	0.056	-1.8
51553	501	0.061	0.062	-1.6	51808	503	0.177	0.179	-1.1	51926	501	0.053	0.054	-1.9
51553	503	0.064	0.065	-1.5	51809	501	0.210	0.213	-1.4	51926	503	0.056	0.057	-1.8
51554	501	0.006	0.006	0.0	51809	503	0.220	0.222	-0.9	51927	501	0.029	0.029	0.0
51554	503	0.006	0.006	0.0	51833	501	0.105	0.106	-0.9	51927	503	0.030	0.031	-3.2
51575	501	0.043	0.044	-2.3	51833	503	0.121	0.122	-0.8	51934	501	0.059	0.059	0.0
51575	503	0.050	0.050	0.0	51850	501	0.098	0.101	-3.0	51934	503	0.061	0.062	-1.6
51576	501	0.110	0.112	-1.8	51850	503	0.127	0.130	-2.3	51941	501	0.053	0.054	-1.9
51576	503	0.115	0.117	-1.7	51851	501	0.066	0.068	-2.9	51941	503	0.056	0.056	0.0
51600	501	0.075	0.076	-1.3	51851	503	0.086	0.088	-2.3	51942	501	0.085	0.086	-1.2
51600	503	0.078	0.079	-1.3	51852	501	0.156	0.160	-2.5	51942	503	0.089	0.090	-1.1
51613	501	0.050	0.050	0.0	51852	503	0.202	0.206	-1.9	51956	501	0.230	0.233	-1.3

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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
51956	503	0.240	0.243	-1.2	52341	501	0.019	0.020	-5.0	52744	503	0.460	0.470	-2.1
51957	501	0.202	0.205	-1.5	52341	503	0.025	0.025	0.0	52767	501	0.082	0.085	-3.5
51957	503	0.211	0.214	-1.4	52342	501	0.055	0.057	-3.5	52767	503	0.107	0.109	-1.8
51958	501	0.180	0.182	-1.1	52342	503	0.071	0.073	-2.7	52911	501	0.032	0.033	-3.0
51958	503	0.188	0.190	-1.1	52343	501	0.034	0.035	-2.9	52911	503	0.034	0.034	0.0
51959	501	0.184	0.187	-1.6	52343	503	0.044	0.044	0.0	52967	501	0.012	0.012	0.0
51959	503	0.192	0.195	-1.5	52401	501	0.104	0.107	-2.8	52967	503	0.013	0.013	0.0
51960	501	0.024	0.025	-4.0	52401	503	0.135	0.137	-1.5	53001	501	0.119	0.121	-1.7
51960	503	0.025	0.026	-3.8	52402	501	0.011	0.012	-8.3	53001	503	0.124	0.126	-1.6
51970	501	0.106	0.107	-0.9	52402	503	0.012	0.012	0.0	53077	501	0.057	0.058	-1.7
51970	503	0.110	0.112	-1.8	52432	501	0.057	0.057	0.0	53077	503	0.060	0.060	0.0
51982	501	0.031	0.032	-3.1	52432	503	0.059	0.060	-1.7	53095	501	0.039	0.040	-2.5
51982	503	0.032	0.033	-3.0	52433	501	0.052	0.053	-1.9	53095	503	0.041	0.041	0.0
51985	501	0.063	0.061	3.3	52433	503	0.054	0.055	-1.8	53096	501	0.054	0.055	-1.8
51985	503	0.055	0.054	1.9	52435	501	0.065	0.066	-1.5	53096	503	0.057	0.058	-1.7
51986	501	0.122	0.124	-1.6	52435	503	0.068	0.069	-1.4	53121	501	0.155	0.157	-1.3
51986	503	0.128	0.129	-0.8	52438	501	0.047	0.048	-2.1	53121	503	0.162	0.164	-1.2
51999	501	0.052	0.052	0.0	52438	503	0.049	0.050	-2.0	53147	501	0.014	0.014	0.0
51999	503	0.054	0.055	-1.8	52440	501	0.074	0.075	-1.3	53147	503	0.018	0.018	0.0
52002	501	0.045	0.046	-2.2	52440	503	0.077	0.078	-1.3	53229	501	0.078	0.080	-2.5
52002	503	0.047	0.048	-2.1	52467	501	0.068	0.069	-1.4	53229	503	0.101	0.103	-1.9
52075	501	0.077	0.079	-2.5	52467	503	0.071	0.072	-1.4	53271	501	0.029	0.030	-3.3
52075	503	0.100	0.102	-2.0	52469	501	0.024	0.024	0.0	53271	503	0.030	0.031	-3.2
52076	501	0.093	0.096	-3.1	52469	503	0.025	0.025	0.0	53333	501	0.077	0.079	-2.5
52076	503	0.121	0.123	-1.6	52505	501	0.119	0.120	-0.8	53333	503	0.099	0.101	-2.0
52109	501	0.011	0.012	-8.3	52505	503	0.124	0.126	-1.6	53374	501	0.106	0.107	-0.9
52109	503	0.012	0.012	0.0	52547	501	0.090	0.093	-3.2	53374	503	0.122	0.123	-0.8
52134	501	0.151	0.154	-1.9	52547	503	0.117	0.119	-1.7	53375	501	0.056	0.057	-1.8
52134	503	0.158	0.160	-1.3	52581	501	0.580	0.590	-1.7	53375	503	0.065	0.065	0.0
52137	501	0.030	0.031	-3.2	52581	503	0.600	0.610	-1.6	53376	501	0.090	0.091	-1.1
52137	503	0.039	0.040	-2.5	52619	501	0.041	0.041	0.0	53376	503	0.104	0.105	-1.0
52150	501	0.280	0.280	0.0	52619	503	0.042	0.043	-2.3	53377	501	0.092	0.093	-1.1
52150	503	0.290	0.300	-3.3	52660	501	0.080	0.078	2.6	53377	503	0.106	0.107	-0.9
52315	501	0.091	0.092	-1.1	52660	503	0.070	0.069	1.4	53403	501	0.058	0.059	-1.7
52315	503	0.105	0.106	-0.9	52744	501	0.400	0.400	0.0	53403	503	0.067	0.068	-1.5

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53425	501	0.072	0.074	-2.7	55371	503	0.310	0.310	0.0	56202	501	0.043	0.044	-2.3
53425	503	0.094	0.095	-1.1	55426	501	0.079	0.081	-2.5	56202	503	0.045	0.046	-2.2
53565	501	0.068	0.068	0.0	55426	503	0.103	0.105	-1.9	56390	501	0.076	0.077	-1.3
53565	503	0.078	0.079	-1.3	55597	501	0.015	0.016	-6.3	56390	503	0.079	0.080	-1.3
53631	501	0.018	0.018	0.0	55597	503	0.016	0.016	0.0	56391	501	0.065	0.066	-1.5
53631	503	0.019	0.019	0.0	55647	501	0.031	0.031	0.0	56391	503	0.068	0.069	-1.4
53632	501	0.021	0.021	0.0	55647	503	0.032	0.032	0.0	56427	501	0.105	0.106	-0.9
53632	503	0.022	0.022	0.0	55648	501	0.014	0.014	0.0	56427	503	0.109	0.111	-1.8
53731	501	0.019	0.019	0.0	55648	503	0.014	0.015	-6.7	56488	501	0.116	0.117	-0.9
53731	503	0.020	0.020	0.0	55649	501	0.017	0.017	0.0	56488	503	0.134	0.135	-0.7
53732	501	0.129	0.131	-1.5	55649	503	0.017	0.017	0.0	56567	501	0.073	0.076	-3.9
53732	503	0.135	0.137	-1.5	55715	501	0.122	0.123	-0.8	56567	503	0.095	0.097	-2.1
53733	501	0.084	0.085	-1.2	55715	503	0.127	0.129	-1.6	56650	501	0.225	0.231	-2.6
53733	503	0.088	0.089	-1.1	55716	501	0.176	0.178	-1.1	56650	503	0.290	0.300	-3.3
53734	501	0.400	0.390	2.6	55716	503	0.183	0.186	-1.6	56651	501	0.122	0.126	-3.2
53734	503	0.360	0.350	2.9	55717	501	0.104	0.108	-3.7	56651	503	0.158	0.162	-2.5
53803	501	0.172	0.177	-2.8	55717	503	0.135	0.138	-2.2	56652	501	0.087	0.090	-3.3
53803	503	0.223	0.228	-2.2	55718	501	0.101	0.104	-2.9	56652	503	0.113	0.116	-2.6
53907	501	0.057	0.058	-1.7	55718	503	0.131	0.134	-2.2	56653	501	0.084	0.087	-3.4
53907	503	0.059	0.060	-1.7	55802	501	0.070	0.070	0.0	56653	503	0.109	0.111	-1.8
54012	501	0.040	0.039	2.6	55802	503	0.080	0.081	-1.2	56654	501	0.043	0.044	-2.3
54012	503	0.036	0.035	2.9	55918	501	0.070	0.071	-1.4	56654	503	0.056	0.057	-1.8
54077	501	0.078	0.079	-1.3	55918	503	0.073	0.074	-1.4	56690	501	0.060	0.061	-1.6
54077	503	0.081	0.082	-1.2	55919	501	0.009	0.010	-10.0	56690	503	0.069	0.070	-1.4
55010	501	0.235	0.238	-1.3	55919	503	0.010	0.010	0.0	56699	501	0.048	0.049	-2.0
55010	503	0.245	0.248	-1.2	56040	501	0.007	0.007	0.0	56699	503	0.050	0.051	-2.0
55011	501	0.063	0.064	-1.6	56040	503	0.007	0.007	0.0	56758	501	0.041	0.041	0.0
55011	503	0.066	0.067	-1.5	56041	501	0.043	0.044	-2.3	56758	503	0.043	0.043	0.0
55012	501	0.076	0.077	-1.3	56041	503	0.045	0.046	-2.2	56759	501	0.042	0.042	0.0
55012	503	0.079	0.080	-1.3	56042	501	0.054	0.055	-1.8	56759	503	0.044	0.044	0.0
55013	501	0.065	0.067	-3.0	56042	503	0.057	0.058	-1.7	56760	501	0.060	0.061	-1.6
55013	503	0.085	0.086	-1.2	56170	501	0.071	0.073	-2.7	56760	503	0.063	0.064	-1.6
55214	501	0.061	0.062	-1.6	56170	503	0.092	0.094	-2.1	56805	501	0.079	0.080	-1.3
55214	503	0.064	0.065	-1.5	56171	501	0.035	0.036	-2.8	56805	503	0.082	0.084	-2.4
55371	501	0.270	0.270	0.0	56171	503	0.045	0.046	-2.2	56806	501	0.056	0.057	-1.8

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56806	503	0.058	0.059	-1.7	57146	501	0.073	0.076	-3.9	57800	503	0.067	0.068	-1.5
56807	501	0.055	0.056	-1.8	57146	503	0.095	0.097	-2.1	57808	501	0.020	0.020	0.0
56807	503	0.058	0.059	-1.7	57202	501	0.053	0.054	-1.9	57808	503	0.025	0.026	-3.8
56808	501	0.072	0.073	-1.4	57202	503	0.056	0.057	-1.8	57809	501	0.020	0.021	-4.8
56808	503	0.076	0.077	-1.3	57257	501	0.066	0.067	-1.5	57809	503	0.026	0.027	-3.7
56900	501	0.070	0.071	-1.4	57257	503	0.069	0.070	-1.4	57810	501	0.020	0.020	0.0
56900	503	0.073	0.074	-1.4	57401	501	0.038	0.038	0.0	57810	503	0.025	0.026	-3.8
56910	501	0.035	0.035	0.0	57401	503	0.039	0.040	-2.5	57871	501	0.023	0.024	-4.2
56910	503	0.036	0.037	-2.7	57403	501	0.143	0.144	-0.7	57871	503	0.030	0.031	-3.2
56911	501	0.063	0.065	-3.1	57403	503	0.165	0.166	-0.6	57913	501	0.083	0.085	-2.4
56911	503	0.082	0.084	-2.4	57410	501	0.018	0.018	0.0	57913	503	0.087	0.088	-1.1
56912	501	0.051	0.053	-3.8	57410	503	0.019	0.019	0.0	57997	501	0.090	0.087	3.4
56912	503	0.066	0.068	-2.9	57411	501	0.018	0.018	0.0	57997	503	0.079	0.077	2.6
56913	501	0.042	0.043	-2.3	57411	503	0.023	0.023	0.0	57998	501	0.037	0.037	0.0
56913	503	0.054	0.055	-1.8	57572	501	0.011	0.011	0.0	57998	503	0.039	0.039	0.0
56915	501	0.247	0.250	-1.2	57572	503	0.011	0.011	0.0	57999	501	0.032	0.033	-3.0
56915	503	0.320	0.330	-3.0	57600	501	0.032	0.032	0.0	57999	503	0.042	0.043	-2.3
56916	501	0.223	0.230	-3.0	57600	503	0.033	0.034	-2.9	58009	501	0.032	0.033	-3.0
56916	503	0.290	0.300	-3.3	57611	501	0.038	0.039	-2.6	58009	503	0.042	0.043	-2.3
56917	501	0.065	0.066	-1.5	57611	503	0.049	0.050	-2.0	58010	501	0.086	0.087	-1.1
56917	503	0.084	0.085	-1.2	57625	501	0.280	0.280	0.0	58010	503	0.090	0.091	-1.1
56918	501	0.031	0.032	-3.1	57625	503	0.290	0.300	-3.3	58020	501	0.153	0.155	-1.3
56918	503	0.040	0.041	-2.4	57651	501	0.034	0.035	-2.9	58020	503	0.177	0.178	-0.6
56919	501	0.079	0.081	-2.5	57651	503	0.036	0.036	0.0	58056	501	0.102	0.104	-1.9
56919	503	0.103	0.105	-1.9	57690	501	0.049	0.051	-3.9	58056	503	0.107	0.108	-0.9
56920	501	0.072	0.074	-2.7	57690	503	0.064	0.065	-1.5	58057	501	0.064	0.065	-1.5
56920	503	0.094	0.095	-1.1	57716	501	0.023	0.024	-4.2	58057	503	0.067	0.068	-1.5
56980	501	0.060	0.061	-1.6	57716	503	0.030	0.031	-3.2	58058	501	0.058	0.059	-1.7
56980	503	0.063	0.064	-1.6	57725	501	0.051	0.053	-3.8	58058	503	0.060	0.061	-1.6
57001	501	0.021	0.021	0.0	57725	503	0.066	0.068	-2.9	58095	501	0.081	0.083	-2.4
57001	503	0.022	0.022	0.0	57726	501	0.040	0.041	-2.4	58095	503	0.085	0.086	-1.2
57002	501	0.013	0.014	-7.1	57726	503	0.052	0.053	-1.9	58096	501	0.108	0.110	-1.8
57002	503	0.014	0.014	0.0	57798	501	0.017	0.018	-5.6	58096	503	0.113	0.114	-0.9
57090	501	0.116	0.119	-2.5	57798	503	0.018	0.018	0.0	58301	501	0.025	0.025	0.0
57090	503	0.150	0.153	-2.0	57800	501	0.064	0.065	-1.5	58301	503	0.032	0.033	-3.0

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LOSS COST % CHANGE BY CLASS

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58302	501	0.029	0.030	-3.3	58737	503	0.080	0.081	-1.2	59223	501	0.074	0.076	-2.6
58302	503	0.030	0.031	-3.2	58756	501	0.030	0.031	-3.2	59223	503	0.096	0.098	-2.0
58397	501	0.169	0.172	-1.7	58756	503	0.039	0.040	-2.5	59257	501	0.012	0.012	0.0
58397	503	0.177	0.179	-1.1	58757	501	0.260	0.260	0.0	59257	503	0.012	0.012	0.0
58408	501	0.053	0.052	1.9	58757	503	0.270	0.270	0.0	59306	501	0.073	0.074	-1.4
58408	503	0.047	0.045	4.4	58759	501	0.032	0.032	0.0	59306	503	0.076	0.077	-1.3
58409	501	0.067	0.066	1.5	58759	503	0.033	0.034	-2.9	59378	501	0.048	0.050	-4.0
58409	503	0.059	0.058	1.7	58802	501	0.036	0.037	-2.7	59378	503	0.062	0.064	-3.1
58456	501	0.036	0.035	2.9	58802	503	0.038	0.038	0.0	59481	501	0.197	0.199	-1.0
58456	503	0.032	0.031	3.2	58813	501	0.075	0.077	-2.6	59481	503	0.205	0.208	-1.4
58457	501	0.052	0.051	2.0	58813	503	0.097	0.099	-2.0	59482	501	0.320	0.320	0.0
58457	503	0.046	0.045	2.2	58822	501	0.100	0.101	-1.0	59482	503	0.370	0.370	0.0
58458	501	0.067	0.066	1.5	58822	503	0.104	0.105	-1.0	59537	501	0.052	0.053	-1.9
58458	503	0.059	0.058	1.7	58837	501	0.150	0.154	-2.6	59537	503	0.067	0.069	-2.9
58459	501	0.081	0.079	2.5	58837	503	0.195	0.198	-1.5	59601	501	0.074	0.075	-1.3
58459	503	0.071	0.069	2.9	58840	501	0.045	0.046	-2.2	59601	503	0.077	0.078	-1.3
58503	501	0.045	0.046	-2.2	58840	503	0.058	0.059	-1.7	59647	501	0.142	0.143	-0.7
58503	503	0.047	0.048	-2.1	58873	501	0.071	0.074	-4.1	59647	503	0.163	0.165	-1.2
58532	501	0.058	0.059	-1.7	58873	503	0.093	0.095	-2.1	59660	501	0.136	0.138	-1.4
58532	503	0.061	0.062	-1.6	58903	501	0.023	0.023	0.0	59660	503	0.142	0.144	-1.4
58559	501	0.012	0.012	0.0	58903	503	0.024	0.024	0.0	59661	501	0.067	0.068	-1.5
58559	503	0.012	0.013	-7.7	58904	501	0.018	0.018	0.0	59661	503	0.070	0.071	-1.4
58560	501	0.029	0.029	0.0	58904	503	0.018	0.019	-5.3	59693	501	0.011	0.011	0.0
58560	503	0.030	0.030	0.0	58922	501	0.119	0.122	-2.5	59693	503	0.012	0.012	0.0
58575	501	0.037	0.037	0.0	58922	503	0.154	0.157	-1.9	59701	501	0.005	0.005	0.0
58575	503	0.039	0.039	0.0	59005	501	0.043	0.044	-2.3	59701	503	0.006	0.006	0.0
58627	501	0.119	0.120	-0.8	59005	503	0.045	0.046	-2.2	59713	501	0.122	0.124	-1.6
58627	503	0.124	0.126	-1.6	59057	501	0.320	0.320	0.0	59713	503	0.127	0.129	-1.6
58663	501	0.163	0.167	-2.4	59057	503	0.330	0.340	-2.9	59722	501	0.063	0.064	-1.6
58663	503	0.211	0.215	-1.9	59058	501	0.207	0.210	-1.4	59722	503	0.066	0.067	-1.5
58682	501	0.105	0.107	-1.9	59058	503	0.216	0.219	-1.4	59723	501	0.024	0.024	0.0
58682	503	0.110	0.112	-1.8	59188	501	0.300	0.310	-3.2	59723	503	0.025	0.025	0.0
58713	501	0.044	0.045	-2.2	59188	503	0.350	0.350	0.0	59724	501	0.036	0.037	-2.7
58713	503	0.051	0.052	-1.9	59189	501	0.420	0.420	0.0	59724	503	0.038	0.039	-2.6
58737	501	0.077	0.078	-1.3	59189	503	0.480	0.490	-2.0	59725	501	0.045	0.046	-2.2

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59725	503	0.047	0.048	-2.1	59892	501	0.049	0.050	-2.0	59970	503	0.057	0.059	-3.4
59726	501	0.033	0.034	-2.9	59892	503	0.063	0.064	-1.6	59973	501	0.093	0.095	-2.1
59726	503	0.035	0.035	0.0	59904	501	0.033	0.034	-2.9	59973	503	0.097	0.099	-2.0
59738	501	0.105	0.107	-1.9	59904	503	0.043	0.044	-2.3	59975	501	0.062	0.064	-3.1
59738	503	0.110	0.112	-1.8	59905	501	0.057	0.058	-1.7	59975	503	0.080	0.082	-2.4
59750	501	0.039	0.040	-2.5	59905	503	0.060	0.061	-1.6	59977	501	0.035	0.036	-2.8
59750	503	0.050	0.051	-2.0	59914	501	0.340	0.340	0.0	59977	503	0.046	0.047	-2.1
59751	501	0.014	0.014	0.0	59914	503	0.350	0.360	-2.8	59984	501	0.026	0.026	0.0
59751	503	0.018	0.018	0.0	59915	501	0.109	0.113	-3.5	59984	503	0.027	0.027	0.0
59773	501	0.018	0.018	0.0	59915	503	0.142	0.145	-2.1	59985	501	0.100	0.101	-1.0
59773	503	0.021	0.021	0.0	59917	501	0.020	0.021	-4.8	59985	503	0.104	0.106	-1.9
59774	501	0.015	0.015	0.0	59917	503	0.026	0.027	-3.7	59986	501	0.076	0.077	-1.3
59774	503	0.017	0.017	0.0	59923	501	0.008	0.008	0.0	59986	503	0.080	0.081	-1.2
59775	501	0.019	0.019	0.0	59923	503	0.009	0.009	0.0	59988	501	0.016	0.016	0.0
59775	503	0.022	0.022	0.0	59925	501	0.520	0.520	0.0	59988	503	0.021	0.021	0.0
59781	501	0.034	0.035	-2.9	59925	503	0.430	0.420	2.4	59989	501	0.013	0.014	-7.1
59781	503	0.044	0.044	0.0	59926	501	0.450	0.440	2.3	59989	503	0.014	0.014	0.0
59782	501	0.050	0.051	-2.0	59926	503	0.370	0.360	2.8	60010	501	29.700	28.100	5.7
59782	503	0.065	0.066	-1.5	59927	501	0.300	0.290	3.4	60010	503	18.500	16.800	10.1
59783	501	0.049	0.050	-2.0	59927	503	0.247	0.240	2.9	60011	501	34.200	32.300	5.9
59783	503	0.063	0.064	-1.6	59931	501	0.151	0.154	-1.9	60011	503	21.200	19.300	9.8
59784	501	0.037	0.038	-2.6	59931	503	0.158	0.160	-1.3	60012	501	56.200	53.000	6.0
59784	503	0.048	0.049	-2.0	59932	501	0.163	0.165	-1.2	60012	503	34.900	31.700	10.1
59790	501	0.081	0.083	-2.4	59932	503	0.170	0.173	-1.7	60013	501	48.200	45.500	5.9
59790	503	0.085	0.086	-1.2	59941	501	0.051	0.052	-1.9	60013	503	29.900	27.100	10.3
59798	501	0.127	0.131	-3.1	59941	503	0.053	0.054	-1.9	60015	501	36.000	34.000	5.9
59798	503	0.165	0.168	-1.8	59947	501	0.033	0.034	-2.9	60015	503	22.300	20.300	9.9
59806	501	0.091	0.094	-3.2	59947	503	0.043	0.044	-2.3	60016	501	40.500	38.200	6.0
59806	503	0.118	0.121	-2.5	59955	501	0.019	0.020	-5.0	60016	503	25.100	22.800	10.1
59867	501	0.092	0.093	-1.1	59955	503	0.020	0.021	-4.8	60035	501	54.000	50.500	6.9
59867	503	0.096	0.097	-1.0	59963	501	0.145	0.147	-1.4	60035	503	36.000	32.400	11.1
59886	501	0.012	0.013	-7.7	59963	503	0.151	0.153	-1.3	61000	501	29.500	27.800	6.1
59886	503	0.013	0.013	0.0	59964	501	0.340	0.340	0.0	61000	503	18.300	16.600	10.2
59889	501	0.059	0.060	-1.7	59964	503	0.350	0.360	-2.8	61212	501	27.600	27.100	1.8
59889	503	0.068	0.069	-1.4	59970	501	0.044	0.046	-4.3	61212	503	18.400	17.400	5.7

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61216	501	30.600	30.100	1.7	63216	503	36.400	32.800	11.0	67635	501	43.500	40.700	6.9
61216	503	20.400	19.400	5.2	63217	501	53.600	50.200	6.8	67635	503	29.000	26.200	10.7
61217	501	27.800	27.400	1.5	63217	503	32.300	29.100	11.0	68001	501	133.000	124.000	7.3
61217	503	18.600	17.600	5.7	63218	501	18.000	16.900	6.5	68001	503	88.700	79.900	11.0
61218	501	19.000	18.700	1.6	63218	503	10.900	9.800	11.2	68439	501	171.000	160.000	6.9
61218	503	12.700	12.000	5.8	64074	501	19.500	18.500	5.4	68439	503	114.000	103.000	10.7
61223	501	135.000	126.000	7.1	64074	503	24.900	22.900	8.7	68500	501	6.540	6.170	6.0
61223	503	90.200	81.300	10.9	64075	501	13.700	13.100	4.6	68500	503	4.060	3.690	10.0
61224	501	43.100	44.800	-3.8	64075	503	17.500	16.100	8.7	68604	501	3.190	2.980	7.0
61224	503	28.800	28.800	0.0	65007	501	47.900	44.800	6.9	68604	503	2.130	1.920	10.9
61225	501	59.800	62.100	-3.7	65007	503	32.000	28.800	11.1	68606	501	12.500	11.700	6.8
61225	503	39.900	39.900	0.0	66122	501	20.600	19.300	6.7	68606	503	8.330	7.500	11.1
61226	501	101.000	99.000	2.0	66122	503	13.800	12.400	11.3	68607	501	9.860	9.220	6.9
61226	503	67.200	63.700	5.5	66123	501	11.300	10.600	6.6	68607	503	6.580	5.930	11.0
61227	501	92.100	90.600	1.7	66123	503	7.550	6.800	11.0	68702	501	8.120	7.600	6.8
61227	503	61.500	58.300	5.5	66309	501	33.100	30.900	7.1	68702	503	5.420	4.880	11.1
62000	501	20.900	20.600	1.5	66309	503	22.100	19.900	11.1	68703	501	6.090	5.700	6.8
62000	503	14.000	13.300	5.3	66561	501	76.600	71.600	7.0	68703	503	4.070	3.660	11.2
62001	501	16.500	15.500	6.5	66561	503	51.100	46.000	11.1	68706	501	26.100	24.400	7.0
62001	503	11.000	9.940	10.7	67017	501	71.100	66.500	6.9	68706	503	17.400	15.700	10.8
62002	501	7.540	7.050	7.0	67017	503	47.400	42.700	11.0	68707	501	25.800	24.100	7.1
62002	503	5.040	4.530	11.3	67508	501	45.000	42.000	7.1	68707	503	17.200	15.500	11.0
62003	501	23.800	22.200	7.2	67508	503	32.400	29.100	11.3	90089	501	4.190	4.250	-1.4
62003	503	15.900	14.300	11.2	67509	501	33.000	30.800	7.1	90089	503	4.190	4.250	-1.4
63010	501	53.500	50.500	5.9	67509	503	23.700	21.400	10.7	91111	501	3.650	3.560	2.5
63010	503	33.200	30.200	9.9	67510	501	18.400	17.100	7.6	91111	503	3.650	3.560	2.5
63011	501	66.900	63.200	5.9	67510	503	13.200	11.900	10.9	91125	501	2.530	2.560	-1.2
63011	503	41.500	37.700	10.1	67511	501	19.900	18.500	7.6	91125	503	2.530	2.560	-1.2
63012	501	95.200	89.800	6.0	67511	503	14.300	12.900	10.9	91127	501	2.450	2.400	2.1
63012	503	59.100	53.600	10.3	67512	501	85.100	79.400	7.2	91127	503	2.450	2.400	2.1
63013	501	90.100	85.000	6.0	67512	503	61.200	55.100	11.1	91130	501	1.370	1.370	0.0
63013	503	55.900	50.800	10.0	67513	501	54.000	50.400	7.1	91130	503	1.370	1.370	0.0
63215	501	78.600	73.500	6.9	67513	503	38.800	34.900	11.2	91135	501	0.380	0.380	0.0
63215	503	52.500	47.300	11.0	67634	501	61.500	57.500	7.0	91135	503	0.380	0.380	0.0
63216	501	54.500	51.000	6.9	67634	503	41.100	37.000	11.1	91150	501	2.320	2.260	2.7

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CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
91150	503	2.320	2.260	2.7	91343	501	0.970	0.980	-1.0	91641	503	1.270	1.270	0.0
91155	501	5.150	5.030	2.4	91343	503	0.970	0.980	-1.0	91666	501	0.900	0.920	-2.2
91155	503	5.150	5.030	2.4	91405	501	7.300	7.280	0.3	91666	503	0.900	0.920	-2.2
91160	501	1.010	1.030	-1.9	91405	503	7.300	7.280	0.3	91722	501	4.110	4.100	0.2
91160	503	1.010	1.030	-1.9	91436	501	4.960	5.020	-1.2	91722	503	4.110	4.100	0.2
91175	501	0.870	0.880	-1.1	91436	503	4.960	5.020	-1.2	91746	501	3.230	3.270	-1.2
91175	503	0.870	0.880	-1.1	91481	501	18.100	18.300	-1.1	91746	503	3.230	3.270	-1.2
91177	501	3.820	3.870	-1.3	91481	503	18.100	18.300	-1.1	91805	501	0.203	0.205	-1.0
91177	503	3.820	3.870	-1.3	91507	501	2.670	2.700	-1.1	91805	503	0.203	0.205	-1.0
91179	501	3.840	3.880	-1.0	91507	503	2.670	2.700	-1.1	92053	501	0.500	0.510	-2.0
91179	503	3.840	3.880	-1.0	91523	501	41.100	41.600	-1.2	92053	503	0.500	0.510	-2.0
91190	501	2.060	2.080	-1.0	91523	503	41.100	41.600	-1.2	92054	501	0.171	0.174	-1.7
91190	503	2.060	2.080	-1.0	91547	501	0.234	0.237	-1.3	92054	503	0.171	0.174	-1.7
91200	501	0.780	0.780	0.0	91547	503	0.234	0.237	-1.3	92055	501	4.790	4.850	-1.2
91200	503	0.780	0.780	0.0	91551	501	1.450	1.470	-1.4	92055	503	4.790	4.850	-1.2
91235	501	2.830	2.760	2.5	91551	503	1.450	1.470	-1.4	92101	501	7.480	7.580	-1.3
91235	503	2.830	2.760	2.5	91555	501	1.700	1.670	1.8	92101	503	7.480	7.580	-1.3
91250	501	4.260	4.160	2.4	91555	503	1.700	1.670	1.8	92102	501	4.510	4.560	-1.1
91250	503	4.260	4.160	2.4	91560	501	4.900	4.880	0.4	92102	503	4.510	4.560	-1.1
91265	501	16.800	16.700	0.6	91560	503	4.900	4.880	0.4	92215	501	4.060	3.960	2.5
91265	503	16.800	16.700	0.6	91562	501	3.230	3.270	-1.2	92215	503	4.060	3.960	2.5
91266	501	8.870	8.830	0.5	91562	503	3.230	3.270	-1.2	92338	501	1.730	1.750	-1.1
91266	503	8.870	8.830	0.5	91577	501	11.600	11.700	-0.9	92338	503	1.730	1.750	-1.1
91302	501	14.200	14.200	0.0	91577	503	11.600	11.700	-0.9	92445	501	2.690	2.680	0.4
91302	503	14.200	14.200	0.0	91580	501	6.470	6.440	0.5	92445	503	2.690	2.680	0.4
91315	501	4.310	4.300	0.2	91580	503	6.470	6.440	0.5	92446	501	5.690	5.760	-1.2
91315	503	4.310	4.300	0.2	91590	501	3.350	3.390	-1.2	92446	503	5.690	5.760	-1.2
91324	501	9.590	9.580	0.1	91590	503	3.350	3.390	-1.2	92447	501	4.970	5.030	-1.2
91324	503	9.590	9.580	0.1	91606	501	13.400	13.400	0.0	92447	503	4.970	5.030	-1.2
91340	501	6.260	6.250	0.2	91606	503	13.400	13.400	0.0	92451	501	2.830	2.760	2.5
91340	503	6.260	6.250	0.2	91629	501	2.740	2.730	0.4	92451	503	2.830	2.760	2.5
91341	501	4.380	4.440	-1.4	91629	503	2.740	2.730	0.4	92453	501	3.150	3.190	-1.3
91341	503	4.380	4.440	-1.4	91636	501	4.700	4.680	0.4	92453	503	3.150	3.190	-1.3
91342	501	5.740	5.730	0.2	91636	503	4.700	4.680	0.4	92478	501	1.560	1.580	-1.3
91342	503	5.740	5.730	0.2	91641	501	1.270	1.270	0.0	92478	503	1.560	1.580	-1.3

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LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
92593	501	37.200	36.300	2.5	95357	503	1.370	1.370	0.0	97050	501	3.390	3.380	0.3
92593	503	37.200	36.300	2.5	95410	501	4.300	4.360	-1.4	97050	503	3.390	3.380	0.3
92663	501	0.640	0.630	1.6	95410	503	4.300	4.360	-1.4	97111	501	5.140	5.210	-1.3
92663	503	0.640	0.630	1.6	95455	501	5.680	5.660	0.4	97111	503	5.140	5.210	-1.3
94007	501	10.700	10.800	-0.9	95455	503	5.680	5.660	0.4	97220	501	0.370	0.370	0.0
94007	503	10.700	10.800	-0.9	95487	501	2.310	2.340	-1.3	97220	503	0.370	0.370	0.0
94099	501	2.430	2.460	-1.2	95487	503	2.310	2.340	-1.3	97222	501	1.870	1.830	2.2
94099	503	2.430	2.460	-1.2	95505	501	2.650	2.630	0.8	97222	503	1.870	1.830	2.2
94225	501	8.560	8.670	-1.3	95505	503	2.650	2.630	0.8	97223	501	2.830	2.760	2.5
94225	503	8.560	8.670	-1.3	95620	501	1.870	1.890	-1.1	97223	503	2.830	2.760	2.5
94276	501	4.460	4.510	-1.1	95620	503	1.870	1.890	-1.1	97308	501	0.690	0.680	1.5
94276	503	4.460	4.510	-1.1	95625	501	6.780	6.770	0.1	97308	503	0.690	0.680	1.5
94304	501	3.610	3.530	2.3	95625	503	6.780	6.770	0.1	97447	501	2.250	2.240	0.4
94304	503	3.610	3.530	2.3	95647	501	3.410	3.330	2.4	97447	503	2.250	2.240	0.4
94381	501	6.780	6.630	2.3	95647	503	3.410	3.330	2.4	97650	501	3.550	3.600	-1.4
94381	503	6.780	6.630	2.3	96053	501	2.590	2.530	2.4	97650	503	3.550	3.600	-1.4
94404	501	4.220	4.280	-1.4	96053	503	2.590	2.530	2.4	97651	501	6.660	6.630	0.5
94404	503	4.220	4.280	-1.4	96317	501	1.420	1.410	0.7	97651	503	6.660	6.630	0.5
94569	501	2.850	2.890	-1.4	96317	503	1.420	1.410	0.7	97652	501	5.780	5.750	0.5
94569	503	2.850	2.890	-1.4	96408	501	3.730	3.770	-1.1	97652	503	5.780	5.750	0.5
94590	501	12.300	12.500	-1.6	96408	503	3.730	3.770	-1.1	97653	501	3.040	3.080	-1.3
94590	503	12.300	12.500	-1.6	96409	501	3.450	3.490	-1.1	97653	503	3.040	3.080	-1.3
94617	501	3.880	3.930	-1.3	96409	503	3.450	3.490	-1.1	97654	501	5.300	5.370	-1.3
94617	503	3.880	3.930	-1.3	96410	501	3.020	3.060	-1.3	97654	503	5.300	5.370	-1.3
95124	501	1.430	1.450	-1.4	96410	503	3.020	3.060	-1.3	97655	501	5.140	5.120	0.4
95124	503	1.430	1.450	-1.4	96611	501	1.440	1.430	0.7	97655	503	5.140	5.120	0.4
95233	501	3.070	3.110	-1.3	96611	503	1.440	1.430	0.7	98002	501	0.930	0.930	0.0
95233	503	3.070	3.110	-1.3	96702	501	4.290	4.340	-1.2	98002	503	0.930	0.930	0.0
95305	501	3.340	3.380	-1.2	96702	503	4.290	4.340	-1.2	98003	501	0.950	0.960	-1.0
95305	503	3.340	3.380	-1.2	96816	501	4.020	4.070	-1.2	98003	503	0.950	0.960	-1.0
95306	501	5.390	5.360	0.6	96816	503	4.020	4.070	-1.2	98090	501	0.128	0.129	-0.8
95306	503	5.390	5.360	0.6	96872	501	5.050	5.020	0.6	98090	503	0.128	0.129	-0.8
95310	501	7.970	8.070	-1.2	96872	503	5.050	5.020	0.6	98091	501	0.139	0.140	-0.7
95310	503	7.970	8.070	-1.2	97047	501	4.370	4.360	0.2	98091	503	0.139	0.140	-0.7
95357	501	1.370	1.370	0.0	97047	503	4.370	4.360	0.2	98092	501	0.420	0.430	-2.3

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98092	503	0.420	0.430	-2.3	98308	501	1.110	1.120	-0.9	98555	503	2.430	2.460	-1.2
98111	501	0.720	0.700	2.9	98308	503	1.110	1.120	-0.9	98597	501	0.550	0.550	0.0
98111	503	0.720	0.700	2.9	98309	501	5.880	5.850	0.5	98597	503	0.550	0.550	0.0
98152	501	3.140	3.120	0.6	98309	503	5.880	5.850	0.5	98598	501	0.187	0.189	-1.1
98152	503	3.140	3.120	0.6	98344	501	0.980	0.970	1.0	98598	503	0.187	0.189	-1.1
98153	501	3.530	3.510	0.6	98344	503	0.980	0.970	1.0	98601	501	6.250	6.330	-1.3
98153	503	3.530	3.510	0.6	98405	501	1.610	1.610	0.0	98601	503	6.250	6.330	-1.3
98154	501	4.160	4.140	0.5	98405	503	1.610	1.610	0.0	98624	501	0.980	0.990	-1.0
98154	503	4.160	4.140	0.5	98413	501	14.000	14.200	-1.4	98624	503	0.980	0.990	-1.0
98155	501	5.830	5.800	0.5	98413	503	14.000	14.200	-1.4	98636	501	3.480	3.400	2.4
98155	503	5.830	5.800	0.5	98414	501	12.800	13.000	-1.5	98636	503	3.480	3.400	2.4
98157	501	3.720	3.710	0.3	98414	503	12.800	13.000	-1.5	98640	501	108.000	109.000	-0.9
98157	503	3.720	3.710	0.3	98415	501	1.680	1.700	-1.2	98640	503	108.000	109.000	-0.9
98159	501	2.500	2.490	0.4	98415	503	1.680	1.700	-1.2	98658	501	6.030	6.000	0.5
98159	503	2.500	2.490	0.4	98423	501	4.010	4.060	-1.2	98658	503	6.030	6.000	0.5
98160	501	5.290	5.270	0.4	98423	503	4.010	4.060	-1.2	98659	501	1.080	1.070	0.9
98160	503	5.290	5.270	0.4	98424	501	6.800	6.880	-1.2	98659	503	1.080	1.070	0.9
98161	501	5.930	5.900	0.5	98424	503	6.800	6.880	-1.2	98677	501	17.000	17.200	-1.2
98161	503	5.930	5.900	0.5	98425	501	2.790	2.830	-1.4	98677	503	17.000	17.200	-1.2
98163	501	6.220	6.190	0.5	98425	503	2.790	2.830	-1.4	98678	501	15.100	15.300	-1.3
98163	503	6.220	6.190	0.5	98426	501	2.460	2.490	-1.2	98678	503	15.100	15.300	-1.3
98164	501	2.390	2.330	2.6	98426	503	2.460	2.490	-1.2	98699	501	4.910	4.970	-1.2
98164	503	2.390	2.330	2.6	98427	501	2.400	2.430	-1.2	98699	503	4.910	4.970	-1.2
98257	501	1.430	1.450	-1.4	98427	503	2.400	2.430	-1.2	98705	501	8.520	8.480	0.5
98257	503	1.430	1.450	-1.4	98429	501	1.220	1.220	0.0	98705	503	8.520	8.480	0.5
98303	501	11.700	11.700	0.0	98429	503	1.220	1.220	0.0	98710	501	3.410	3.460	-1.4
98303	503	11.700	11.700	0.0	98449	501	3.450	3.490	-1.1	98710	503	3.410	3.460	-1.4
98304	501	5.320	5.380	-1.1	98449	503	3.450	3.490	-1.1	98751	501	4.560	4.530	0.7
98304	503	5.320	5.380	-1.1	98482	501	3.690	3.740	-1.3	98751	503	4.560	4.530	0.7
98305	501	3.500	3.500	0.0	98482	503	3.690	3.740	-1.3	98805	501	4.460	4.510	-1.1
98305	503	3.500	3.500	0.0	98483	501	5.460	5.520	-1.1	98805	503	4.460	4.510	-1.1
98306	501	9.020	9.000	0.2	98483	503	5.460	5.520	-1.1	98806	501	3.240	3.160	2.5
98306	503	9.020	9.000	0.2	98502	501	5.220	5.290	-1.3	98806	503	3.240	3.160	2.5
98307	501	1.680	1.700	-1.2	98502	503	5.220	5.290	-1.3	98810	501	4.940	4.930	0.2
98307	503	1.680	1.700	-1.2	98555	501	2.430	2.460	-1.2	98810	503	4.940	4.930	0.2

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98813	501	4.770	4.760	0.2	99310	503	3.400	3.440	-1.2	99746	501	2.320	2.350	-1.3
98813	503	4.770	4.760	0.2	99315	501	9.990	10.100	-1.1	99746	503	2.320	2.350	-1.3
98820	501	8.510	8.620	-1.3	99315	503	9.990	10.100	-1.1	99760	501	0.270	0.270	0.0
98820	503	8.510	8.620	-1.3	99321	501	9.700	9.820	-1.2	99760	503	0.270	0.270	0.0
98884	501	2.210	2.240	-1.3	99321	503	9.700	9.820	-1.2	99777	501	8.560	8.540	0.2
98884	503	2.210	2.240	-1.3	99471	501	0.730	0.730	0.0	99777	503	8.560	8.540	0.2
98914	501	0.730	0.730	0.0	99471	503	0.730	0.730	0.0	99793	501	2.950	2.980	-1.0
98914	503	0.730	0.730	0.0	99505	501	5.620	5.490	2.4	99793	503	2.950	2.980	-1.0
98949	501	1.030	1.020	1.0	99505	503	5.620	5.490	2.4	99826	501	0.980	0.970	1.0
98949	503	1.030	1.020	1.0	99506	501	6.920	6.760	2.4	99826	503	0.980	0.970	1.0
98967	501	3.480	3.520	-1.1	99506	503	6.920	6.760	2.4	99827	501	0.420	0.430	-2.3
98967	503	3.480	3.520	-1.1	99507	501	6.030	5.890	2.4	99827	503	0.420	0.430	-2.3
98993	501	6.650	6.490	2.5	99507	503	6.030	5.890	2.4	99851	501	1.710	1.740	-1.7
98993	503	6.650	6.490	2.5	99570	501	3.240	3.160	2.5	99851	503	1.710	1.740	-1.7
99003	501	1.650	1.670	-1.2	99570	503	3.240	3.160	2.5	99917	501	2.780	2.810	-1.1
99003	503	1.650	1.670	-1.2	99571	501	0.780	0.770	1.3	99917	503	2.780	2.810	-1.1
99004	501	3.960	3.960	0.0	99571	503	0.780	0.770	1.3	99938	501	3.120	3.160	-1.3
99004	503	3.960	3.960	0.0	99572	501	1.530	1.500	2.0	99938	503	3.120	3.160	-1.3
99080	501	1.170	1.180	-0.8	99572	503	1.530	1.500	2.0	99943	501	9.040	9.150	-1.2
99080	503	1.170	1.180	-0.8	99573	501	1.470	1.430	2.8	99943	503	9.040	9.150	-1.2
99111	501	1.700	1.720	-1.2	99573	503	1.470	1.430	2.8	99946	501	6.730	6.820	-1.3
99111	503	1.700	1.720	-1.2	99600	501	1.720	1.720	0.0	99946	503	6.730	6.820	-1.3
99163	501	4.050	4.100	-1.2	99600	503	1.720	1.720	0.0	99948	501	8.010	7.830	2.3
99163	503	4.050	4.100	-1.2	99613	501	8.590	8.700	-1.3	99948	503	8.010	7.830	2.3
99165	501	0.890	0.900	-1.1	99613	503	8.590	8.700	-1.3	99952	501	7.240	7.220	0.3
99165	503	0.890	0.900	-1.1	99614	501	3.850	3.840	0.3	99952	503	7.240	7.220	0.3
99220	501	1.620	1.610	0.6	99614	503	3.850	3.840	0.3	99953	501	7.810	7.800	0.1
99220	503	1.620	1.610	0.6	99620	501	0.470	0.470	0.0	99953	503	7.810	7.800	0.1
99222	501	3.040	3.020	0.7	99620	503	0.470	0.470	0.0	99954	501	5.690	5.680	0.2
99222	503	3.040	3.020	0.7	99650	501	1.530	1.500	2.0	99954	503	5.690	5.680	0.2
99223	501	0.249	0.250	-0.4	99650	503	1.530	1.500	2.0	99955	501	7.120	7.110	0.1
99223	503	0.249	0.250	-0.4	99709	501	3.780	3.700	2.2	99955	503	7.120	7.110	0.1
99303	501	13.600	13.800	-1.4	99709	503	3.780	3.700	2.2	99963	501	0.670	0.680	-1.5
99303	503	13.600	13.800	-1.4	99718	501	1.370	1.390	-1.4	99963	503	0.670	0.680	-1.5
99310	501	3.400	3.440	-1.2	99718	503	1.370	1.390	-1.4	99969	501	2.940	2.930	0.3

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STATE: 16 - KENTUCKY  
 SUBLINE: PREM/OPS

LOSS COST % CHANGE BY CLASS

CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	TERR	PROPOSED OCCURR	PRESENT OCCURR	% CHG
99969	503	2.940	2.930	0.3										
99975	501	6.320	6.310	0.2										
99975	503	6.320	6.310	0.2										
99988	501	2.600	2.580	0.8										
99988	503	2.600	2.580	0.8										

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STATE: 16 - KENTUCKY  
 SUBLINE: PRODUCTS/COMPLETED OPERATIONS

LOSS COST % CHANGE BY CLASS

CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG
10010	0.195	0.184	6.0	11259	0.137	0.137	0.0	13759	0.167	0.163	2.5
10026	0.023	0.022	4.5	11288	0.118	0.107	10.3	13930	0.201	0.211	-4.7
10040	0.300	0.280	7.1	12014	0.048	0.047	2.1	14068	0.014	0.015	-6.7
10042	0.560	0.460	21.7	12356	0.039	0.035	11.4	14101	0.058	0.050	16.0
10060	0.075	0.071	5.6	12361	0.077	0.082	-6.1	14279	0.086	0.077	11.7
10065	0.040	0.034	17.6	12373	0.024	0.025	-4.0	14401	0.160	0.145	10.3
10066	0.076	0.072	5.6	12374	0.074	0.068	8.8	14527	0.189	0.181	4.4
10070	0.154	0.141	9.2	12375	0.056	0.052	7.7	14855	0.154	0.162	-4.9
10071	0.133	0.115	15.7	12391	0.082	0.091	-9.9	14913	0.180	0.152	18.4
10073	0.640	0.520	23.1	12509	0.036	0.038	-5.3	15223	0.041	0.033	24.2 U
10075	0.260	0.233	11.6	12510	0.033	0.032	3.1	15224	0.074	0.071	4.2
10100	0.075	0.066	13.6	12651	0.530	0.490	8.2	15406	0.048	0.044	9.1
10101	0.181	0.166	9.0	12707	0.640	0.650	-1.5	15538	0.017	0.016	6.3
10107	0.370	0.290	27.6	12797	0.196	0.169	16.0	15600	0.105	0.098	7.1
10111	0.078	0.083	-6.0	12805	0.162	0.143	13.3	15608	0.012	0.011	9.1
10115	0.115	0.107	7.5	13049	0.057	0.054	5.6	15733	0.037	0.038	-2.6
10140	0.021	0.021	0.0	13111	0.093	0.097	-4.1	15839	0.032	0.029	10.3
10141	0.023	0.024	-4.2	13112	0.063	0.069	-8.7	15991	0.104	0.097	7.2
10145	0.014	0.014	0.0	13201	0.160	0.167	-4.2	15993	0.067	0.062	8.1
10146	0.024	0.023	4.3	13204	1.450	1.400	3.6	16005	0.034	0.034	0.0
10255	0.147	0.131	12.2	13205	0.460	0.430	7.0	16009	0.094	0.079	19.0
10256	0.152	0.147	3.4	13314	0.016	0.017	-5.9	16403	0.181	0.133	36.1
10257	0.169	0.167	1.2	13351	0.051	0.039	30.8	16527	0.350	0.360	-2.8
10309	0.021	0.020	5.0	13352	0.058	0.055	5.5	16604	0.146	0.147	-0.7
10352	0.097	0.094	3.2	13410	2.990	2.440	22.5	16676	0.017	0.016	6.3
11020	0.191	0.174	9.8	13412	1.140	1.010	12.9	16705	0.148	0.152	-2.6
11039	0.083	0.075	10.7	13506	0.097	0.092	5.4	16750	0.032	0.031	3.2
11126	0.022	0.020	10.0	13507	0.228	0.229	-0.4	16900	0.114	0.097	17.5
11127	0.011	0.010	10.0	13590	0.740	0.740	0.0	16901	0.141	0.127	11.0
11128	0.104	0.092	13.0	13621	0.320	0.360	-11.1	16902	0.090	0.088	2.3
11203	0.520	0.540	-3.7	13670	0.015	0.013	15.4	16905	0.114	0.097	17.5
11204	2.060	1.970	4.6	13673	0.020	0.016	25.0	16906	0.141	0.127	11.0
11234	0.078	0.075	4.0	13715	0.165	0.154	7.1	16910	0.089	0.081	9.9
11248	0.018	0.019	-5.3	13716	0.161	0.154	4.5	16911	0.064	0.057	12.3
11258	0.208	0.206	1.0	13720	0.069	0.065	6.2	16915	0.075	0.069	8.7

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STATE: 16 - KENTUCKY  
 SUBLINE: PRODUCTS/COMPLETED OPERATIONS

LOSS COST % CHANGE BY CLASS

CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG
16916	0.062	0.057	8.8	51116	0.690	0.570	21.1	51666	0.101	0.103	-1.9
16920	0.176	0.153	15.0	51205	0.071	0.083	-14.5	51734	0.310	0.310	0.0
16921	0.069	0.069	0.0	51206	0.390	0.450	-13.3	51741	0.260	0.250	4.0
16930	0.260	0.201	29.4	51220	2.280	2.580	-11.6	51752	0.165	0.159	3.8
16931	0.115	0.089	29.2	51221	1.780	1.940	-8.2	51767	0.008	0.009	-11.1
16940	0.069	0.069	0.0	51222	3.670	3.120	17.6	51777	0.078	0.076	2.6
16941	0.134	0.129	3.9	51224	1.450	1.330	9.0	51808	0.730	0.730	0.0
18078	0.155	0.167	-7.2	51230	0.790	0.790	0.0	51809	0.153	0.158	-3.2
18109	0.040	0.038	5.3	51240	0.185	0.182	1.6	51833	0.060	0.072	-16.7
18110	0.037	0.032	15.6	51241	0.260	0.300	-13.3	51869	0.136	0.140	-2.9
18205	0.350	0.310	12.9	51252	0.100	0.101	-1.0	51877	0.212	0.220	-3.6
18206	0.126	0.102	23.5	51254	0.039	0.045	-13.3	51889	0.012	0.014	-14.3
18335	0.022	0.021	4.8	51300	0.160	0.173	-7.5	51896	0.018	0.020	-10.0
18435	0.106	0.088	20.5	51305	0.960	1.030	-6.8	51900	0.095	0.093	2.2
18436	0.144	0.147	-2.0	51315	0.106	0.106	0.0	51909	0.056	0.057	-1.8
18501	0.017	0.017	0.0	51330	0.530	0.430	23.3 U	51926	0.038	0.040	-5.0
18506	0.007	0.007	0.0	51333	0.340	0.310	9.7	51927	0.131	0.115	13.9
18507	0.011	0.010	10.0	51350	0.135	0.142	-4.9	51934	0.125	0.142	-12.0
18616	0.590	0.540	9.3	51351	0.042	0.045	-6.7	51941	0.041	0.039	5.1
18707	0.004	0.003	33.3 N	51352	0.108	0.114	-5.3	51956	0.221	0.246	-10.2
18708	0.021	0.015	40.0 U	51355	0.094	0.096	-2.1	51957	0.420	0.400	5.0
18834	0.166	0.159	4.4	51356	0.620	0.690	-10.1	51958	0.410	0.390	5.1
18911	0.026	0.024	8.3	51357	0.660	0.530	24.5 U	51960	0.350	0.360	-2.8
18912	0.035	0.031	12.9	51358	0.141	0.149	-5.4	51970	0.238	0.250	-4.8
18920	0.023	0.021	9.5	51359	0.780	0.840	-7.1	51982	0.083	0.085	-2.4
45771	0.164	0.176	-6.8	51370	4.570	5.000	-8.6	51986	0.103	0.107	-3.7
45819	0.083	0.075	10.7	51380	0.044	0.050	-12.0	51999	0.440	0.460	-4.3
45900	0.052	0.058	-10.3	51500	0.119	0.109	9.2	52002	0.129	0.118	9.3
45901	0.049	0.047	4.3	51550	0.390	0.360	8.3	52075	0.243	0.250	-2.8
49239	0.600	0.650	-7.7	51551	0.910	0.920	-1.1	52134	0.630	0.700	-10.0
49617	0.224	0.183	22.4	51552	0.159	0.159	0.0	52315	0.260	0.240	8.3
49618	0.073	0.058	25.9	51575	0.020	0.020	0.0	52433	1.020	1.200	-15.0
49619	0.145	0.127	14.2	51576	0.093	0.075	24.0 U	52469	0.104	0.109	-4.6
50010	0.490	0.580	-15.5	51600	0.191	0.198	-3.5	52505	0.216	0.203	6.4
51001	0.450	0.460	-2.2	51613	0.139	0.138	0.7	52547	0.078	0.088	-11.4

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STATE: 16 - KENTUCKY  
 SUBLINE: PRODUCTS/COMPLETED OPERATIONS

LOSS COST % CHANGE BY CLASS

CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG
52581	2.950	3.680	-19.8 L	56391	0.320	0.320	0.0	58397	0.740	0.830	-10.8
52744	0.081	0.094	-13.8	56427	0.125	0.125	0.0	58503	0.076	0.061	24.6 U
52911	0.450	0.520	-13.5	56488	0.034	0.034	0.0	58575	0.120	0.123	-2.4
52967	0.062	0.064	-3.1	56690	0.350	0.360	-2.8	58627	0.013	0.016	-18.8
53001	0.330	0.330	0.0	56699	0.057	0.051	11.8	58663	1.280	1.590	-19.5 L
53077	0.207	0.197	5.1	56758	0.148	0.155	-4.5	58737	0.630	0.740	-14.9
53121	0.440	0.460	-4.3	56759	0.080	0.093	-14.0	58802	0.480	0.450	6.7
53333	0.239	0.213	12.2	56760	0.098	0.106	-7.5	58837	0.162	0.165	-1.8
53374	0.310	0.380	-18.4	56912	0.090	0.084	7.1	58840	0.127	0.111	14.4
53375	0.223	0.250	-10.8	56916	0.205	0.187	9.6	58873	0.030	0.030	0.0
53376	0.194	0.187	3.7	57001	0.043	0.032	34.4	58904	0.128	0.131	-2.3
53377	0.195	0.211	-7.6	57002	0.106	0.110	-3.6	58922	0.168	0.187	-10.2
53565	0.108	0.124	-12.9	57090	0.660	0.630	4.8	59005	0.096	0.096	0.0
53631	0.022	0.022	0.0	57146	0.720	0.670	7.5	59188	0.055	0.056	-1.8
53632	0.034	0.035	-2.9	57257	0.035	0.036	-2.8	59189	0.300	0.300	0.0
53732	0.450	0.460	-2.2	57401	0.096	0.098	-2.0	59223	0.088	0.077	14.3
53733	0.270	0.260	3.8	57403	0.035	0.036	-2.8	59257	0.013	0.015	-13.3
53907	0.103	0.111	-7.2	57410	0.162	0.130	24.6 U	59378	0.150	0.152	-1.3
54077	0.400	0.370	8.1	57572	0.108	0.094	14.9	59481	0.099	0.088	12.5
55010	1.080	1.100	-1.8	57600	0.034	0.033	3.0	59537	0.210	0.168	25.0 U
55011	1.570	1.260	24.6 U	57611	0.062	0.064	-3.1	59601	2.370	2.310	2.6
55012	1.180	1.170	0.9	57651	0.041	0.043	-4.7	59647	0.170	0.176	-3.4
55013	1.140	0.990	15.2	57690	0.490	0.510	-3.9	59660	1.180	1.140	3.5
55214	0.088	0.089	-1.1	57716	0.082	0.087	-5.7	59701	0.290	0.244	18.9
55371	0.119	0.130	-8.5	57725	0.088	0.091	-3.3	59713	0.310	0.330	-6.1
55597	1.790	1.780	0.6	57726	0.021	0.019	10.5	59722	0.031	0.032	-3.1
55647	0.062	0.056	10.7	57810	0.107	0.109	-1.8	59723	0.037	0.038	-2.6
55715	0.224	0.234	-4.3	57871	0.118	0.116	1.7	59724	0.019	0.022	-13.6
55716	0.520	0.520	0.0	57913	0.290	0.310	-6.5	59725	0.116	0.104	11.5
55802	0.009	0.009	0.0	57998	0.058	0.059	-1.7	59726	0.024	0.024	0.0
55918	2.740	3.190	-14.1	57999	0.071	0.071	0.0	59738	0.064	0.066	-3.0
55919	3.650	3.640	0.3	58095	1.990	1.830	8.7	59750	0.222	0.240	-7.5
56040	0.033	0.040	-17.5	58096	1.230	1.040	18.3	59773	0.028	0.028	0.0
56202	0.089	0.100	-11.0	58301	0.088	0.082	7.3	59774	0.150	0.152	-1.3
56390	0.640	0.630	1.6	58302	0.055	0.055	0.0	59775	0.188	0.189	-0.5

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 SUBLINE: PRODUCTS/COMPLETED OPERATIONS

LOSS COST % CHANGE BY CLASS

CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG
59781	0.068	0.076	-10.5	91341	6.280	5.020	25.1	96409	14.300	13.800	3.6
59782	0.460	0.490	-6.1	91342	4.390	4.110	6.8	96410	11.800	10.200	15.7
59798	0.500	0.460	8.7	91343	2.420	1.970	22.8	96611	2.460	2.290	7.4
59886	0.108	0.112	-3.6	91436	3.840	3.300	16.4	97221	1.500	1.210	24.0
59889	0.165	0.153	7.8	91507	4.700	4.320	8.8	97222	2.580	2.650	-2.6
59904	0.061	0.066	-7.6	91551	1.040	0.830	25.3	97223	4.440	3.320	33.7
59905	0.132	0.130	1.5	91555	1.240	1.120	10.7	97447	6.090	4.620	31.8
59914	0.680	0.620	9.7	91560	5.830	5.580	4.5	97650	4.470	3.850	16.1
59915	0.750	0.780	-3.8	91577	4.540	3.570	27.2	97651	5.140	4.570	12.5
59917	0.205	0.165	24.2	91746	8.000	6.500	23.1	97652	6.430	5.550	15.9
59923	0.004	0.005	-20.0	92053	0.630	0.530	18.9	97653	4.750	3.950	20.3
59925	1.190	1.090	9.2	92054	0.239	0.239	0.0	97654	4.410	3.890	13.4
59926	0.450	0.420	7.1	92055	0.280	0.280	0.0	97655	6.400	5.370	19.2
59927	1.420	1.560	-9.0	92101	4.830	3.900	23.8	98002	1.100	1.000	10.0
59931	0.550	0.590	-6.8	92102	4.600	3.430	34.1	98152	0.940	0.670	40.3 U
59932	0.880	0.930	-5.4	92215	3.200	2.920	9.6	98157	0.710	0.590	20.3
59947	0.320	0.330	-3.0	92338	2.430	1.810	34.3	98163	0.320	0.330	-3.0
59955	0.143	0.147	-2.7	92446	2.700	2.550	5.9	98164	0.100	0.106	-5.7
59963	0.410	0.450	-8.9	92447	2.720	2.340	16.2	98303	9.030	9.050	-0.2
59964	0.069	0.061	13.1	92451	3.190	2.690	18.6	98304	4.130	3.690	11.9
59970	0.183	0.182	0.5	92478	2.660	2.480	7.3	98305	2.220	1.710	29.8
59975	0.227	0.243	-6.6	94007	6.900	6.050	14.0	98306	0.970	0.880	10.2
59984	0.053	0.055	-3.6	94276	5.270	4.700	12.1	98307	0.590	0.570	3.5
59988	0.059	0.060	-1.7	94381	14.800	13.200	12.1	98308	1.170	0.830	41.0 U
59989	0.044	0.045	-2.2	94404	7.330	7.120	2.9	98309	2.170	2.190	-0.9
91111	7.330	6.660	10.1	94569	5.190	4.160	24.8	98344	1.080	0.850	27.1
91125	2.890	3.060	-5.6	95124	0.890	0.670	32.8	98449	30.400	25.200	20.6
91127	1.930	1.920	0.5	95310	1.220	1.480	-17.6	98482	9.190	7.920	16.0
91150	6.430	5.380	19.5	95410	3.910	3.640	7.4	98483	26.200	21.800	20.2
91155	46.800	36.700	27.5	95455	2.040	2.110	-3.3	98502	5.190	4.460	16.4
91235	4.220	3.610	16.9	95505	2.750	2.230	23.3	98636	4.380	4.260	2.8
91265	3.600	3.830	-6.0	95625	4.950	3.910	26.6	98659	0.570	0.590	-3.4
91266	1.720	1.280	34.4	95647	9.430	7.520	25.4	98677	12.900	11.500	12.2
91280	3.320	2.400	38.3	96053	6.690	5.660	18.2	98678	18.600	15.200	22.4
91340	11.100	10.200	8.8	96408	20.900	15.800	32.3	98805	1.520	1.240	22.6

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LOSS COST % CHANGE BY CLASS

CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG	CLASS	PROPOSED OCCURR	PRESENT OCCURR	% CHG
98806	5.290	4.450	18.9								
98813	2.130	2.330	-8.6								
98820	4.120	3.710	11.1								
98884	2.000	1.500	33.3								
98914	0.610	0.630	-3.2								
98949	0.400	0.420	-4.8								
98967	13.300	9.440	40.9 U								
98993	4.650	5.060	-8.1								
99003	1.920	1.670	15.0								
99004	1.950	1.770	10.2								
99080	11.500	11.600	-0.9								
99163	0.700	0.730	-4.1								
99315	2.990	2.140	39.7								
99321	3.640	3.400	7.1								
99613	3.400	3.060	11.1								
99650	1.550	1.290	20.2								
99746	3.440	2.900	18.6								
99803	11.800	9.590	23.0								
99826	0.650	0.510	27.5								
99827	0.600	0.580	3.4								
99946	2.970	2.930	1.4								
99948	35.000	32.500	7.7								
99952	23.300	21.300	9.4								
99953	13.900	11.200	24.1								
99954	11.700	11.300	3.5								
99955	8.770	9.520	-7.9								
99969	2.940	2.490	18.1								

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EXPLANATORY MATERIAL  
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METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

INTRODUCTION

General Liability advisory 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 Owners, Landlords, and Tenants; Manufacturers and Contractors; Products; and Local Products/Completed Operations Liability.

---

STEP 1:  
DETERMINATION  
OF INDICATED  
LOSS COST  
LEVEL CHANGES

The first step in this process is the determination of the statewide loss cost level indication for Owners, Landlords and Tenants and for Manufacturers and Contractors. A multistate loss cost level indication is determined for Products and for Local Products/Completed Operations. This loss cost indication represents the percentage change that on average must be made to the current ISO loss costs in order to achieve adequacy for the prospective conditions. The percentage changes are presented in Section C - Calculation of Indications.

---

STEP 2:  
DISTRIBUTION OF  
BASIC LIMIT LOSS  
COST LEVEL  
INDICATION

For Owners, Landlords and Tenants and for Manufacturers and Contractors, ISO then distributes the statewide basic limit loss cost indication to the individual types of policy, territories and class groups using a minimum bias iterative procedure (territory is used for Owners, Landlords and Tenants only).

For Products and for Local Products/Completed Operations, the multistate basic limit loss cost indication is distributed to the individual types of policy and class groups, and additionally to state for Local Products/Completed Operations. For Local Products/Completed Operations, a multistate loss cost level review and Baileys relative change analysis are performed, calculated assuming approval of all filed loss cost changes from the previous review (as opposed to reflecting only the approvals that have been received at the time of this review). Then, for states which did not approve the loss cost change from the previous review, an "off-level" factor is applied to the statewide indication from the multistate analysis. This off-level factor is equal to the selected, unapproved change from the previous review.

---

METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 3:  
APPLICATION OF  
PERCENTAGE  
CHANGES

The last step is the calculation of the ISO advisory prospective loss costs. For Premises/Operations, a Proposed Base Loss Cost by class group and territory must first be calculated. This is derived by multiplying the Current Base Loss Cost by the statewide monoline change, the class group relative change, and (for Owners, Landlords, and Tenants) the territory relative change. ISO advisory prospective loss costs by class are then calculated as the Proposed Base Loss Cost times the class differential. See Section A - Explanation of Loss Cost Level Changes by Class for details of this procedure. The statewide loss cost level change has been multiplied by a 'build back' factor to ensure that the selected overall change by subline is achieved. This is required to offset the effect of capped loss costs as well as the effect of revised classification differentials (if any) on the overall change.

For Products, proposed multistate loss costs are calculated using a Bayesian credibility procedure. See Section F - Class Groups and Calculation of Proposed Class Loss Costs for details. Where loss costs have been capped, this result is then multiplied by a 'build back' factor to ensure that the selected overall change is achieved.

For Local Products/Completed Operations, proposed state loss costs are calculated using a Bayesian credibility procedure. See Section G - Class Groups and Calculation of Proposed Class Loss Costs for details. In order to increase credibility, multistate experience is used in determining the class index. In calculating the change factor to be applied to the statewide loss costs, the statewide loss cost level has been used. Where loss costs have been capped, this result is multiplied by a 'buildback' factor to ensure that the selected overall statewide change is achieved.

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METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 1 - DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE

OBJECTIVE	<p>The objective of this procedure is to determine the indicated loss cost level change. This procedure answers the question: What percentage changes must be made on average 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 will be used?</p>
DESCRIPTION	<p>This procedure compares the developed and trended incurred losses and loss adjustment expenses with the aggregate loss costs at current ISO loss cost level (see definition, below). This experience ratio (losses and all loss adjustment expenses divided by aggregate loss costs) is calculated for several years and a weighted average is calculated. The latest three accident years are weighted 20%-30%-50%, with the highest weight going to the most recent accident year.</p> <p>For Premises/Operations, in order to minimize the impact of random variation in the observed losses, the average experience ratio is then credibility-weighted with the expected experience ratio, which reflects trend and the relative adequacy of current loss costs. This credibility-weighted experience ratio is the indicated statewide advisory loss cost level change in decimal form.</p> <p>For Products/Completed Operations, the average experience ratio is the indicated multistate advisory loss cost level change, in decimal form. Products/Completed Operations data is assumed to be fully credible.</p>
EXPERIENCE BASE	<p>The experience used in this review is the latest available simplified data as reported under the ISO Commercial Statistical Plan. The data is aggregated on an accident year basis. The review is conducted on \$100,000 basic limit basis - indemnity losses are limited to \$100,000 per occurrence. Also, bodily injury and property damage deductible data is included. In addition, fringe losses (Coverage B) are included.</p>
AGGREGATE LOSS COSTS	<p>The aggregate loss costs at current ISO loss cost level are the loss-related revenue that would have been collected if the current ISO loss costs and deductible discounts were used during the experience period. They are calculated by extending the exposures at the current ISO loss costs. Where appropriate, certain reported data elements have been adjusted prior to being used in the calculations. The \$100,000 basic limit loss costs are used. Inflation-sensitive exposures are adjusted to a prospective level using exposure trend. Exposures are trended to one year beyond the assumed effective date. Accident year exposures are also developed to account for changes due to exposure audits.</p>

METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 1 - DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE (Cont'd)

INCURRED  
LOSSES  
& LAE

The incurred losses and loss adjustment expenses are our best estimate of the ultimate payment for indemnity losses and loss adjustment expenses using the frequency and severity levels ISO expects to occur during the prospective period for which the revised loss costs are assumed to be in effect. Where appropriate, certain reported data elements have been adjusted prior to being used in the calculations.

For the liability coverages, the reported incurred losses and allocated loss adjustment expenses are subject to the following adjustments:

- developed to an ultimate settlement basis by the application of loss development factors;
- loaded for unallocated loss adjustment expenses;
- placed on the prospective cost/frequency level by the application of trend factors. Losses are trended to one year beyond the assumed effective date.

Incurred indemnity losses are capped at the \$100,000 basic limit.

Refer to Sections E, F, and G for the support for these loss-related adjustments.

---

EXPERIENCE  
RATIO

The experience ratio is the ratio of the incurred losses and loss adjustment expenses to the aggregate loss costs at current ISO loss cost level. It measures the adequacy of the current ISO loss costs for the prospective period.

---

EXPECTED  
EXPERIENCE  
RATIO

The expected experience ratio is our best prediction of the experience ratio if the most recent data were not available. For this review we have assumed that the current loss costs will be inadequate for the prospective period to the extent of the net trend. The net trend is calculated as the annual net trend factor projected for the number of years between the last review date and the assumed effective date of this document. The details for the calculation can be found in the footnotes at the bottom of the exhibits in Section C.

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METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 1 - DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE (Cont'd)

CREDIBILITY	For Premises/Operations, credibility is based upon the number of occurrences for all years in the experience period. Products/Completed Operations data is assumed to be fully credible. The procedure for assigning credibility is outlined in Credibility Standards in this section.
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CREDIBILITY- WEIGHTED EXPERIENCE RATIO	For Premises/Operations, the weighted experience ratio is credibility-weighted with the expected experience ratio defined above. The resulting credibility-weighted experience ratio, converted to a percentage, is the indicated change to the current monoline-multiline loss cost level.
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METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 2 - DISTRIBUTION OF BASIC LIMIT LOSS COST LEVEL INDICATION

OBJECTIVE	<p>For Premises/Operations, the objective of this procedure is to distribute the statewide basic limit loss cost level indication to the individual types of policy, territories and class groups using a minimum bias iterative procedure. This procedure is used to answer the question: What percentage changes by territory and class group must be made to the current ISO loss costs in order to achieve adequacy for the prospective conditions? Similarly, for Products, the multistate basic limit loss cost level change is distributed via the minimum bias iterative procedure to type of policy and class group. For Local Products/Completed Operations the change is also distributed to state.</p>
PREMISES/ OPERATIONS	<p>For Premises/Operations, this procedure arrives at a set of type of policy, class group and territory relative changes that best represent the experience within each state. The type of policy relative changes serve to derive the relationship of the CPP policies relative to monoline policies, via the PMF, while the class group and territory relative changes serve to derive the relationship of the various classifications and territories relative to one another.</p> <p>The indicated change to monoline loss costs is calculated for each class group - territory combination by taking the product of the monoline type of policy relative change, the class group relative change, the territory relative change and the statewide coverage loss cost level indication.</p> <p>The overall monoline loss cost level indication is the weighted average of the class group - territory combination indications. In calculating this weighted average, monoline/multiline aggregate loss costs at current level for the latest available accident year are used as weights.</p>
PRODUCTS	<p>Products is reviewed using multistate data; a two-way minimum bias iterative procedure is used to arrive at a set of type of policy and class group relative changes that best represent the experience. The type of policy relative changes serve to derive the relationship of CPP policies relative to monoline policies, via the PMF, while the class group relative changes serve to derive the relationship of the various classifications relative to one another.</p> <p>The indicated multistate change to monoline loss costs is calculated for each class group by taking the product of the monoline type of policy relative change, the class group relative change, and the multistate coverage loss cost level indication.</p>

METHODOLOGY OVERVIEW  
OVERVIEW OF ISO ACTUARIAL PROCEDURES - GENERAL LIABILITY

STEP 2 - DISTRIBUTION OF BASIC LIMIT LOSS COST LEVEL INDICATION (Cont'd)

PRODUCTS(Cont'd)

The overall multistate monoline loss cost level indication is the monoline/multiline aggregate loss costs at current level weighted average of the class group indications.

The indicated statewide change is calculated by determining the effect, on statewide loss cost levels, of implementing the multistate loss costs. The difference between the multistate change and the indicated statewide change is a result of a difference in the distribution of risks by class in this jurisdiction versus the multistate. In addition, for the states that are off the multistate loss cost level, the difference is also a result of previous multistate revisions which were not implemented in this jurisdiction.

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LOCAL PRODUCTS/  
COMPLETED  
OPERATIONS

Local Products/Completed Operations is reviewed using multistate data, and this procedure arrives at a set of type of policy, class group, and state relative changes that best represent the multistate experience. The type of policy relative changes serve to derive the relationship of the CPP policies relative to the monoline policies, via the PMF, while the class group and state relative changes serve to derive the relationship of the various classifications and states to one another.

The indicated change to monoline loss costs is calculated for each class group - state combination by taking the product of the monoline type of policy relative change, the class group relative change, the state relative change and the multistate coverage loss cost level indication.

The overall monoline loss cost level indication is the weighted average of the class group - state combination indications. In calculating this weighted average, monoline/multiline aggregate loss costs at current level for the latest available accident year are used as weights.

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EXPLANATORY NOTES TO DETERMINATION OF INDICATED  
LOSS COST LEVEL CHANGE

For Premises/Operations, the statewide loss cost level indication is determined using the statewide experience for all monoline and multiline risks. For Products/Completed Operations, the multistate loss cost level indication is determined using the multistate experience for all monoline and multiline risks.

The loss cost level indication is based upon a review of the latest three years of basic limit experience of companies reporting to Insurance Services Office, Inc. For Premises/Operations, data for accident years ending June 30, 2017, 2018 and 2019 are weighted 20%, 30% and 50% respectively. For Products/Completed Operations, multistate data for accident years ending December 31, 2016, 2017 and 2018 are weighted 20%, 30% and 50% respectively.

Aggregate loss costs at the current level for the multiline risks have been adjusted by the Implicit Package Modification Factors by Type of Policy. Exposures have been developed to account for changes due to audits. Inflation sensitive exposures have been trended. Incurred losses have been developed and trended, and include all loss adjustment expenses.

For detail on these adjustments see sections E, F, and G.

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### OBJECTIVES

The objectives of this procedure are to:

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

### EXPERIENCE BASE

The experience used in this relative change analysis is the latest five (5) years of data, as reported under the Commercial Statistical Plan with adjustments made as described in the Explanatory Notes to Determination of Indicated Loss Cost Level Change in this section.

---

### SIMULTANEOUS DETERMINATION OF RATING VARIABLE RELATIVE CHANGES

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

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

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

---

### RATING VARIABLES USED

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

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

---

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### ITERATIVE PROCEDURE

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

For Owners, Landlords and Tenants:

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

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

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

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

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

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

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

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

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

$j^{\text{th}}$  class group and  $k^{\text{th}}$  territory;

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

$n$  is the number of class groups in the analysis;

$p$  is the number of territories in the analysis;



## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### ITERATIVE PROCEDURE (Cont'd)

For Manufacturers and Contractors, and Products:

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

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

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

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

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

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

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

and  $j^{\text{th}}$  class group;

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

$n$  is the number of class groups in the analysis;

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### ITERATIVE PROCEDURE (Cont'd)

For Local Products/Completed Operations:

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

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

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

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

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

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

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

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

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

$j^{\text{th}}$  class group and  $k^{\text{th}}$  state;

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

$n$  is the number of class groups in the analysis;

$p$  is the number of states in the analysis;

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### ITERATIVE PROCEDURE (Cont'd)

For example, for Owners, Landlords and Tenants, the procedure starts by inserting the actual relative changes for type of policy and class group into the third formula to get a territory relative change. This result is then used with the class group relative change in the first formula to get a new type of policy relative change, which in turn is substituted along with the territory relative change into the second formula to get a new class group relative change. The process continues on in that fashion until there is no appreciable difference from one iteration to the next.

---

### APPLICATION OF CREDIBILITY

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

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

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

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

the credibility of the experience for each state, namely  $Z = \sqrt{P/15,000}$  for type

of policy and class group, and  $Z = \sqrt{P/5,500}$  for state (in this case, P is the 5

year occurrence total for a given state). Credibility-weighted relative changes are then calculated as follows:

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

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

R is the class group, territory, state or type of policy relative change;

W is the credibility-weighted relative change.

The resulting credibility-weighted relative changes are then balanced to assure that the average relative change remains at unity.

---

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### MULTILINE CONSIDERATIONS

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

$$\text{Indicated IPMF for TOP y} = \frac{\text{Current IPMF for TOP y} \times \text{Relative Change for TOP y}}{\text{Monoline Relative Change for All Territories Combined}}$$

For each CPP Type of Policy, the indicated IPMF is subject to a minimum and maximum level. To the extent that an indicated IPMF falls outside one of those limits, it is capped at that limit, its data is built back into the monoline TOP, and the procedure as described above is repeated to take this into account.

---

### MONOLINE INDICATIONS -- PREMISES/ OPERATIONS

For Premises/Operations, the indicated change to monoline loss costs is calculated for each class group-territory combination by taking the product of the monoline type of policy relative change, the class group relative change, the territory relative change and the statewide coverage loss cost level indication.

The overall monoline loss cost level indication is the weighted average of the monoline class group-territory combination indications. In calculating this weighted average, latest year monoline/multiline loss costs at current level are used as weights.

Territory applies to Owners, Landlords and Tenants only.

---

### MONOLINE INDICATIONS -- PRODUCTS

For Products, the indicated change to monoline loss costs is calculated for each class group by taking the product of the monoline type of policy relative change, the class group relative change and the multistate coverage loss cost level indication.

The overall multistate monoline loss cost level indication is the weighted average of the monoline class group indications. In calculating this weighted average, latest year multistate monoline/multiline loss costs at current level are used as weights.

---

## EXPLANATORY NOTES TO RELATIVE CHANGE ANALYSIS

### MONOLINE INDICATIONS -- LOCAL PRODUCTS/ COMPLETED OPERATIONS

For Local Products/Completed Operations, the indicated change to monoline loss costs is calculated for each class group-state combination by taking the product of the monoline type of policy relative change, the class group relative change, the state relative change and the multistate coverage loss cost level indication.

The overall multistate monoline loss cost level indication is the weighted average of the monoline class group-state indications. In calculating this weighted average, latest year multistate monoline/multiline loss costs at current level are used as weights.

---

EXPLANATORY NOTES TO  
IMPLICIT PACKAGE MODIFICATION FACTORS

In order to calculate the aggregate loss costs at current ISO levels, the reported exposures must be multiplied by the current ISO monoline loss costs. For multiline exposures, the ISO monoline loss costs must be adjusted by the appropriate ISO implicit package modification factors in order to be on a multiline level.

Implicit Package Modification Factors (IPMF's) adjust the ISO monoline loss costs to levels applicable to multiline risks, i.e., to reflect a difference in multiline experience relative to monoline experience for each coverage. This adjustment is made because risks written under a Package Policy have different experience than risks written under a monoline policy. The IPMF's are calculated based upon a comparison of the multiline experience relative to the monoline experience, and this comparison is done via the Bailey minimum bias relative change analysis (as described in Explanatory Notes to Relative Change Analysis in this section). IPMF's are calculated separately by coverage, for each applicable type of policy within each coverage. One result of the IPMF adjustment to multiline ALCCCL is that the monoline and multiline experience for the same coverage tends toward the same experience ratio. IPMF's are the components of the published liability Package Modification Factors (PMF's) which vary by type of policy only. These PMF's represent the CPP relativity for all liability coverages combined within a type of policy. The IPMF represents what the PMF would be for the CPP risk if only a single coverage were written.

## EXPLANATION OF EXPOSURE DEVELOPMENT

### IMPORTANCE OF APPLICATION

The application of exposure development factors reflects the important ratemaking concept that all of the exposures for a particular accident year have not been finally determined at the time the experience is compiled. This is because exposures are subject to audit and may change as a result.

---

### APPLICATION OF EXPOSURE DEVELOPMENT FACTORS

The earned exposures underlying the Premises/Operations statewide loss cost level indications are evaluated as of September 30, 2019. Products/Completed Operations data is evaluated as of March 31, 2019.

For example, the accident year ending December 31, 2018 includes all exposures earned during the period from January 1, 2018 through December 31, 2018.

The immature experience reported as of 15 and 27 months for accident years ending 6/30/2019 and 6/30/2018 must be adjusted to an ultimate exposure development basis. This adjustment is accomplished through the use of an exposure development factor. Exposures are assumed to be mature at 39 months. Exposure development factors are based on experience evaluated as of September 30, 2019 for Premises/ Operations and March 31, 2019 for Products/Completed Operations.

The Premises/Operations and the Local Products/Completed Operations exposure development factors used in this revision are based on statewide and multistate experience. The Products exposure development factors are based on multistate experience. The exposure development factors are based on total limits premium. Using premium rather than exposures eliminates distortions that may arise because of changing distributions of data by class. The exposure development factors used are the 'best 3 of 5.' This is calculated by taking the exposure development ratios for the latest five years, dropping the highest and lowest ratios and then averaging the remaining three ratios. For Premises/Operations and Local Products/Completed Operations, the state ratios are then credibility-weighted with the multistate ratios using a Bayesian credibility procedure.

## EXPLANATION OF EXPOSURE DEVELOPMENT

### APPLICATION OF EXPOSURE DEVELOPMENT FACTORS (Cont'd)

Section E - Calculation of Exposure Development Factors displays the calculation of the credibility-weighted exposure development factors for Premises/Operations. State and multistate data are used in the calculation. Products exposure development is based on multistate data, as shown in Section F - Multistate Exposure Development. Section G - Calculation of Exposure Development Factors displays the calculation of the credibility-weighted exposure development factors for Local Products/Completed Operations. State and multistate data are used in the calculation.

---



## EXPLANATION OF LOSS DEVELOPMENT

### IMPORTANCE OF APPLICATION

The application of loss development factors reflects the important ratemaking concept that all of the losses for a particular accident year have not been finally determined at the time the experience is compiled.

---

### APPLICATION OF LOSS DEVELOPMENT FACTORS

The incurred losses and allocated loss adjustment expenses underlying the Premises/Operations statewide loss cost level indications were evaluated as of September 30, 2019. Products/Completed Operations data is evaluated as of March 31, 2019.

For example, the accident year ending December 31, 2018 includes all losses and allocated loss adjustment expenses paid on accidents occurring from January 1, 2018 through December 31, 2018 and all losses and loss adjustment expenses outstanding on those policies as of March 31, 2019, 15 months after the inception of the accident year.

The immature experience reported as of 15, 27 and 39 months for accident years ending 6/30/2019, 6/30/2018 and 6/30/2017 must be adjusted to an ultimate settlement basis. This adjustment is accomplished through the use of a loss development factor.

Indemnity losses are developed separately from ALAE. ALAE development procedures are described in the Explanation of ALAE Development in this section.

The Premises/Operations and the Completed Operations indemnity loss development factors used in this revision are based on statewide and multistate accident year experience. The Products and Local Products indemnity loss development factors are based on multistate accident year experience. The loss development factors used are the 'best 3 of 5.' This is calculated by taking the loss development ratios for the latest five years, dropping the highest and lowest ratios and then averaging the remaining three ratios. For evaluations that do not have five years of data, the ratios are calculated using the Modified Bondy Method. An explanation of this method can be found in the Explanation of Modified Bondy Method in this section. The Bondy calculated ratios are excluded from the calculation of the three year mean ratios. If fewer than three years of data are available, the three year mean ratio is based on the data for the available year(s).

## EXPLANATION OF LOSS DEVELOPMENT

### APPLICATION OF LOSS DEVELOPMENT FACTORS (Cont'd)

For Premises/Operations and Completed Operations bodily injury and property damage full coverage indemnity, statewide experience is credibility weighted with multistate experience. A Bayesian credibility procedure is used.

For bodily injury deductible, property damage deductible and fringe incurred indemnity losses, multistate development is used.

For Premises/Operations, Medical Payments experience is assumed to be fully mature; therefore, no loss development factors are applied.

Starting with the 2015 review, pre-CGL (Commercial General Liability) data will no longer be included in the loss development analyses. The decision was made since CGL data represents over 99% of the multistate data for all years in these analyses. The use of pre-CGL data had historically been used to increase the volume of data in the accident years following the introduction of the CGL policy.

Section E - Loss Development Data displays the calculation of the credibility-weighted loss development factors for Premises/Operations. State and multistate data are used.

The multistate Products loss development data is displayed in Section F - Loss Development Data.

Section G - Loss Development Data displays the calculation of the credibility-weighted loss development factors for Completed Operations. State and multistate data are used. The multistate Local Products loss development data is also displayed in Section G - Loss Development Data.

---

## EXPLANATION OF ALLOCATED LOSS ADJUSTMENT EXPENSE (ALAE) DEVELOPMENT

### OBJECTIVE

This document contains a procedure designed to achieve more consistent and stable estimates of ultimate ALAE which are generally at lower volume than the associated basic limit liability losses. Also, while basic limit losses may exhibit relatively stable development patterns over time, ALAE development patterns may be much more variable.

Traditional development procedures customarily used for losses apply a loss development factor to reported losses at various evaluation points. For example, a '15-month to ultimate' factor would be applied to the losses for accident year ended June 30, 2019 evaluated as of September 30, 2019. If an analogous procedure is used for ALAE, the variability of the experience can lead to unusually high (or low) estimates of ultimate ALAE.

---

### INCREMENTAL ALAE PERCENTAGES

The procedure used in this document calculates future ALAE development using ALAE as a percentage of ultimate incurred indemnity losses.

Specifically, "incremental ALAE percentages" are calculated as the emergence of ALAE between two evaluation points, divided by ultimate incurred indemnity losses. For example, the difference between historic ALAE evaluated at 27 months and ALAE evaluated at 15 months is expressed as a percentage of ultimate incurred indemnity losses. Similar percentages are calculated for the 27-to-39 month period, the 39-to-51 month period, etc. These percentages are summed, and multiplied by estimated ultimate incurred losses for a given accident year, to calculate ultimate ALAE.

In order to achieve greater stability, statewide and multistate percentages are credibility weighted. The ultimate incurred indemnity losses used as the denominator in the incremental ALAE percentages are capped at \$500,000. ALAE is expected to vary in proportion to loss volume, but higher limits of losses are better estimates of the overall loss volume in a given year. Losses limited at \$500,000 were found to be a stable base for use in this procedure.

---

## EXPLANATION OF ALLOCATED LOSS ADJUSTMENT EXPENSE (ALAE) DEVELOPMENT

### DESCRIPTION OF METHODOLOGY

First, statewide and multistate ultimate incurred indemnity losses (capped at \$500,000) are calculated using standard ISO procedures (see Explanation of Loss Development in this section).

The next step is to calculate statewide and multistate triangles of incremental ALAE. At each evaluation and each stage of maturity, incremental ALAE is calculated as a percentage of ultimate indemnity losses, separately for statewide and multistate data, and separately for each accident year. For each stage of maturity, a 'best 3 of 5' method is used to determine incremental percentages. The statewide incremental percentages are then credibility weighted with the multistate percentages.

The resulting weighted incremental percentages are summed together and applied to the developed \$500,000 limits indemnity losses to calculate the ALAE remaining to be incurred. This is added to reported incurred ALAE to determine ultimate ALAE. For example,

$$\text{Ultimate ALAE} = (\text{Incurred ALAE at 15 months}) + (\text{sum of incremental ALAE percentages}) * (\text{ultimate indemnity})$$

---

### APPLICATION

The above methods are used to develop ALAE to 171 months. Bodily injury and property damage ALAE are developed separately, and the credibility-weighted incremental ALAE percentages are applied to statewide ultimate indemnity losses to calculate expected future ALAE. This result is added to statewide ALAE reported at the most recent evaluation date for each accident year.

These calculations are shown in Section E - Loss Development.

---

## EXPLANATION OF ALLOCATED LOSS ADJUSTMENT EXPENSE (ALAE) DEVELOPMENT

FRINGE	Because there is a lower volume of data for the fringe coverage, the incremental ALAE percentages are calculated using multistate data and applied to state ultimate indemnity losses (capped at \$500,000).
PRODUCTS	Products ALAE is developed to 171 months using multistate data and the incremental method above. Because Products ALAE historically has more substantial development beyond 171 months, multistate link ratios are calculated to develop ALAE from 171 months to ultimate, using the standard link-ratio methodology (see Explanation of Loss Development in this section).
LOCAL PRODUCTS/ COMPLETED OPERATIONS	Local Products/Completed Operations ALAE incremental percentages are calculated to 171 months using multistate data and applied to state ultimate indemnity losses (capped at \$500,000). Since Local Products/Completed Operations ALAE historically has more substantial development beyond 171 months, multistate link ratios are calculated to develop ALAE from 171 months to ultimate, using the standard link-ratio methodology (see Explanation of Loss Development in this section).

## EXPLANATION OF MODIFIED BONDY METHOD

Each development link ratio is estimated based on average of the 'Best 3 out of 5' years' link ratios for that particular link. Where 5 link ratios are not available we use the Modified Bondy procedure to estimate those link ratios. The algorithm used is outlined below:

Accident Year	171 to 183 Months	183 to 195 Months	195 to 207 Months	207 to 219 Months	219 to 231 Months	231 to 243 Months	243 Months To Ultimate
2000	A	G	L	P	S	U	Z*
2001	B	H	M	Q	T	Y*	
2002	C	I	N	R	X*	Y*	
2003	D	J	O	W*	X*	Y*	
2004	E	K	V*	W*	X*	Y*	
2005	F						
Best 3 out of 5#	BTOF1	BTOF2	BTOF3	BTOF4	BTOF5	BTOF6	

\* Calculated using the Modified Bondy Procedure.

# The 'Best 3 out of 5' loss development ratio is calculated by taking the sum of the latest 5 years' link ratios and subtracting out both the highest and lowest link ratio and then dividing the result by 3.

The link ratios represented by the letters A through U are calculated directly from the reported data. The links represented by V through Z are calculated using the following formulae:

$$\begin{array}{lll}
 V = \text{BTOF2}^{(P1)} & X = \text{BTOF4}^{(P3)} & \text{Where the powers P1, P2, P3, P4 and P5} \\
 W = \text{BTOF3}^{(P2)} & Y = \text{BTOF5}^{(P4)} & \text{are defined as follows:} \\
 Z = \text{BTOF6}^{(P5)} & & 
 \end{array}$$

If  $\text{BTOF1} > 1.0$  and  $\text{BTOF1} \geq \text{BTOF2} \geq 1.0$  Or  $\text{BTOF1} < 1.0$  and  $\text{BTOF1} \leq \text{BTOF2} \leq 1.0$   
Then  $P1 = \text{Log}(\text{BTOF2}) / \text{Log}(\text{BTOF1})$  Otherwise:  $P1 = 1.0$

---

If  $\text{BTOF2} > 1.0$  and  $\text{BTOF2} \geq \text{BTOF3} \geq 1.0$  Or  $\text{BTOF2} < 1.0$  and  $\text{BTOF2} \leq \text{BTOF3} \leq 1.0$   
Then  $P2 = \text{Log}(\text{BTOF3}) / \text{Log}(\text{BTOF2})$  Otherwise:  $P2 = 1.0$

---

If  $\text{BTOF3} > 1.0$  and  $\text{BTOF3} \geq \text{BTOF4} \geq 1.0$  Or  $\text{BTOF3} < 1.0$  and  $\text{BTOF3} \leq \text{BTOF4} \leq 1.0$   
Then  $P3 = \text{Log}(\text{BTOF4}) / \text{Log}(\text{BTOF3})$  Otherwise:  $P3 = 1.0$

---

If  $\text{BTOF4} > 1.0$  and  $\text{BTOF4} \geq \text{BTOF5} \geq 1.0$  Or  $\text{BTOF4} < 1.0$  and  $\text{BTOF4} \leq \text{BTOF5} \leq 1.0$   
Then  $P4 = \text{Log}(\text{BTOF5}) / \text{Log}(\text{BTOF4})$  Otherwise:  $P4 = 1.0$

---

If  $\text{BTOF5} > 1.0$  and  $(0.8 * \text{Log}(\text{BTOF5})) \geq \text{Log}(\text{BTOF6}) \geq 0.0$   
Or  $\text{BTOF5} < 1.0$  and  $(0.8 * \text{Log}(\text{BTOF5})) \leq \text{Log}(\text{BTOF6}) \leq 0.0$   
Then  $P5 = \text{Log}(\text{BTOF6}) / (\text{Log}(\text{BTOF5}) - \text{Log}(\text{BTOF6}))$  Otherwise:  $P5 = 4.0$

Once all link ratios have been determined, the development factors can then be calculated. The 243 months to ultimate development factor is equal to Z as defined above. The 231 months to ultimate factor is then determined by multiplying Z by the 231 to 243 month 'Best 3 out of 5' years' link ratio. All other 'to ultimate' development factors are calculated in the same manner.

## UNALLOCATED LOSS ADJUSTMENT FACTOR METHODOLOGY

BACKGROUND	Allocated loss adjustment expense is reported on a unit transaction basis with the loss records and is thus included with indemnity loss data. Since the prospective loss costs include all loss adjustment expenses, we must load for unallocated loss adjustment expense.
IMPORTANCE OF APPLICATION	The unallocated loss adjustment expense factor is necessary to account for loss adjustment expenses which cannot be allocated to a particular claim.
METHODOLOGY FOR LIABILITY COVERAGES	<p>Calculation of the unallocated loss adjustment expense factor is based on multistate data for ISO member and subscriber companies (see Multistate review of ULAE Experience in Sections E, F, and G). The adjustment is calculated by using unallocated expenses as a percent of losses and allocated expenses.</p> <p>Starting with the 2011 review, experience for CMP Liability has been included with the data used to select the ULAE factor.</p> <p>For this review the factor is 1.085.</p>

## EXPLANATION OF TREND CALCULATION

### EXPOSURE TREND

The exposure bases for most Premises/Operations and Products/Completed Operations classes are inflation sensitive. In order to provide aggregate loss costs at current level, reported exposures must be trended to reflect the anticipated exposure levels.

Exposure trends are estimated using custom price indexes derived from econometric historic data and base-case forecasts provided by Moody's Analytics. Each custom index is calculated as a ratio of nominal (current dollar) values for some measure of economic activity to the real (inflation-adjusted) values for the same.

For M&C, exposures are calculated based upon sales by manufacturers and average hourly earnings of contracting workers. For OL&T Class Group 16, exposures are calculated based upon the four-quarter moving average quarterly price deflator of state and local government expenditures. The exposure trend for OL&T Class Groups 1-13 is based upon the average annual growth rates in consumption components. For Premises/Operations exposure trend detail, see Section E - Trend Data.

For Products/Completed Operations, exposures are calculated based upon sales by manufacturers for products and local products classes and average hourly earnings of contracting workers for completed operations classes just as for M&C. For Products exposure trend detail, see Section F - Trend Data. For Local Products/Completed Operations exposure trend detail, see Section G - Trend Data.

---

### SEVERITY TREND

The Premises/Operations multistate accident year (both fiscal and calendar year) average ultimate occurrence severity for the latest six, eight and ten years are displayed in the trend data exhibits in Section E. For Products, multistate calendar accident year average occurrence severity for the latest six, eight and ten years is displayed in Section F. For Local Products/Completed Operations, multistate calendar accident year average occurrence severity for the latest six, eight and ten years is displayed in Section G. The standard ISO calculation uses the least squares method to construct an exponential curve of best fit from this time series data, since the data contain random fluctuations. By minimizing these fluctuations, we can make a more reliable estimate of the underlying trend in the data. In this review multistate dollars of losses and number of occurrences contained in the severity trend exhibits are based on paid amounts developed to ultimate using paid development factors.

Starting with the 2015 review, pre-CGL (Commercial General Liability) data will no longer be included in the trend analyses. The decision was made since CGL data represents over 99% of the multistate data for all years in these analyses. The use of pre-CGL data had historically been used to increase the volume of data in the accident years following the introduction of the CGL policy.



SEVERITY  
TREND  
(Cont'd)

In selecting severity trend factors for use in calculating the Premises/Operations and Products/Completed Operations indicated loss cost level changes, we also review and compare severity trends indicated by techniques other than the standard calculation described above. For example, exponential fits where ultimate average severity is based on incurred (rather than paid) data, as well as econometric models, are reviewed. In addition, consideration is also given to the goodness of fit statistic (R-squared) and trend selections from prior reviews.

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FREQUENCY  
TREND

The historical occurrence frequency data are displayed in the Trend Data exhibits in Sections E, F, and G. For Premises/Operations, these pages display the frequency data for CGL only for accident years ending 6/30/2006 - 6/30/2019. For Products/Completed Operations, these pages display the frequency data for CGL only for accident years ending 12/31/2005 - 12/31/2018. The Premises/Operations experience includes occurrences arising from fringe coverages. In this review, multistate number of occurrences contained in the frequency trend exhibits are based on paid amounts developed to ultimate using paid development factors.

Historically, frequency trend for Premises/Operations and Products/Completed Operations has been quite volatile, often cyclical in nature. As a result, an exponential curve did not fit the data well over a long term. Given the frequency trend pattern, however, we are continuing to select a negative frequency trend for Owners, Landlords and Tenants, Products and Local Products/Completed Operations. For Manufacturers and Contractors, we have selected 0.0%. These selections are consistent with a measured approach toward frequency trend selections, which reflects the difficulty of predicting turning points for cyclical and volatile data along with the amplifying effects that varying frequency trend selections have on indicated loss cost level changes.

---

### CREDIBILITY STANDARDS

The following rule is used in calculating the partial credibility used in determination of the indicated statewide loss cost level change for Manufacturers and Contractors:

$$z = \sqrt{\frac{\text{Total number of occurrences during three year experience period}}{6,500}}$$

The rule for Owners, Landlords and Tenants is:

$$z = \sqrt{\frac{\text{Total number of occurrences during three year experience period}}{6,000}}$$

These standards are based on 90% confidence of being within 7% of the actual value.

Due to the greater need for stability in the relative change analysis, full credibility standards used therein are as follows:

For Manufacturers and Contractors:

$$z = \sqrt{\frac{\text{Total number of occurrences during five year experience period}}{18,000}}$$

For Owners, Landlords and Tenants:

$$z = \sqrt{\frac{\text{Total number of occurrences during five year experience period}}{18,000}}$$

For Products:

$$z = \sqrt{\frac{\text{Total number of occurrences during five year experience period}}{20,000}}$$

These standards are based on 95% confidence of being within 5% of the actual value.

### CREDIBILITY STANDARDS

For the Local Products/Completed Operations relative change analysis, the full credibility standards used are as follows:

$$z = \sqrt{\frac{\text{Total number of occurrences during five year experience period}}{15,000}}$$

This full credibility standard applies for each type of policy and class group. It is based on 95% confidence of being within 5% of the actual value.

For Local Products/Completed Operations, the full credibility standard below applies for each state.

$$z = \sqrt{\frac{\text{Total number of occurrences during five year experience period}}{5,500}}$$

It is based on 90% confidence of being within 7% of the actual value, i.e. the same criteria used in determination of statewide loss cost level changes for Premises/Operations.

These credibility standards reflect occurrence severity and occurrence frequency variations for bodily injury and property damage combined.

EXPLANATORY NOTES TO CLASS GROUPS  
AND DIFFERENTIALS -- PREMISES/OPERATIONS

The present CGL class groups and countrywide differentials for Premises/Operations classifications are presented in Section E - Class Groups and Differentials. Class groups 14 and 39 are A-rated class groups and are not reviewed in this document. Class groups 1-14 and 16 are considered OL&T, while class groups 30-39 are considered M&C.

Differentials are reviewed on a periodic basis. The most recent differential review was completed in 2009 and filed with the 2009 revisions.

EXPLANATORY NOTES TO CLASS GROUPS AND  
CALCULATION OF PROPOSED CLASS LOSS COSTS --  
PRODUCTS

The present class groups for Products classifications are presented in Section F - Class Groups and Calculation of Proposed Class Loss Costs. Class group 21 is an A-rated class group and is not reviewed in this document.

Multistate proposed Products class loss costs are calculated as the product of the class index, the class group relative change, the multistate loss cost level change and a 'build back' factor to ensure that the selected multistate overall change is achieved. Capping is performed by comparing the proposed loss costs to the present multistate loss costs. The class index is determined using credibility weighted experience ratios, where a Bayesian credibility procedure is used. See Section F - Class Groups and Calculation of Proposed Class Loss Costs for details of the calculation of multistate class loss costs.

EXPLANATORY NOTES TO CLASS GROUPS AND  
CALCULATION OF PROPOSED CLASS LOSS COSTS --  
LOCAL PRODUCTS/COMPLETED OPERATIONS

The present class groups for Local Products/Completed Operations classifications are presented in Section G - Class Groups and Calculation of Proposed Class Loss Costs. Class groups 21 and 22 are A-rated class groups and are not reviewed in this document.

Statewide proposed Local Products/Completed Operations class loss costs are calculated as the product of the class index, the class group relative change, the statewide loss cost level change and a 'build back' factor to ensure that the selected statewide overall change is achieved. In order to increase credibility, multistate experience is used in determining the class index. The class group relative change used is also multistate. Capping is performed by comparing the proposed loss costs to the present statewide loss costs. The class index is determined using credibility weighted experience ratios, where a Bayesian credibility procedure is used. See Section G - Class Groups and Calculation of Proposed Class Loss Costs for details of the calculation of statewide class loss costs.

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KENTUCKY  
PREMISES/OPERATIONS  
SUBLINE CODE 334  
MANUFACTURERS AND CONTRACTORS  
DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE

(1)	(2)	(3)	(4)	(5)	(6)
ACCIDENT YEAR ENDING	AGGREGATE LOSS COSTS AT CURRENT LEVEL (A)	\$100,000 BASIC LIMIT INCURRED LOSSES (B)	YEAR WEIGHTS	EXPERIENCE RATIO	NUMBER OF INCURRED OCCURRENCES
06/30/2017	\$11,441,669	\$10,514,884	0.20	0.919	452
06/30/2018	11,094,885	14,252,524	0.30	1.285	498
06/30/2019	10,680,083	9,773,011	0.50	0.915	383

(7)	WEIGHTED EXPERIENCE RATIO .....	1.027
(8)	EXPECTED EXPERIENCE RATIO (SEE FOOTNOTE C) .....	1.034
(9)	CREDIBILITY BASED ON LATEST THREE YEARS NUMBER OF INCURRED OCCURRENCES (SEE SECTION B - CREDIBILITY STANDARDS) .....	0.45
(10)	CREDIBILITY-WEIGHTED EXPERIENCE RATIO { (7) X (9) } + { (8) X {1.0 - (9)} } .....	1.031
(11)	INDICATED MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (10) - 1 } X 100% .....	+ 3.1 %
(12)	STATEWIDE INDICATED MONOLINE CHANGE (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS) .....	+ 1.8 %
(13)	STATEWIDE SELECTED MONOLINE CHANGE .....	0.0 %

(A) THESE ARE CALCULATED BY SUMMING OVER THE CLASSES THE PRODUCTS OF REPORTED EXPOSURES, EXPOSURE TREND AND DEVELOPMENT, AND \$100,000 BASIC LIMIT LOSS COSTS AT CURRENT ISO LEVEL. FOR DETAILS, SEE SECTION E - CALCULATION OF AGGREGATE LOSS COSTS AT CURRENT LEVEL.

(B) INCLUDING ALL LOSS ADJUSTMENT EXPENSES AND DEVELOPED TO AN ULTIMATE BASIS. IN ADDITION, ACCIDENT YEAR LOSSES HAVE BEEN TRENDED FROM THE AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 02/01/2021. FOR DETAILS, SEE SECTION E - CALCULATION OF INCURRED LOSSES.

(C) THE EXPECTED EXPERIENCE RATIO IS THE NET TREND (1.034). THE NET TREND IS THE ANNUAL NET TREND FACTOR (1.034) TO AN EXPONENT (1.000), THE PERIOD FROM ONE YEAR BEYOND THE LAST REVIEW OR EFFECTIVE DATE (02/01/2021) TO ONE YEAR BEYOND THE ASSUMED EFFECTIVE DATE (02/01/2022).



KENTUCKY  
PREMISES/OPERATIONS  
SUBLINE CODE 334  
OWNERS, LANDLORDS AND TENANTS  
DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE

(1)	(2)	(3)	(4)	(5)	(6)
ACCIDENT YEAR ENDING	AGGREGATE LOSS COSTS AT CURRENT LEVEL (A)	\$100,000 BASIC LIMIT INCURRED LOSSES (B)	YEAR WEIGHTS	EXPERIENCE RATIO	NUMBER OF INCURRED OCCURRENCES
06/30/2017	\$21,447,570	\$24,058,948	0.20	1.122	959
06/30/2018	21,252,156	22,613,973	0.30	1.064	926
06/30/2019	20,126,857	21,848,217	0.50	1.086	848

(7)	WEIGHTED EXPERIENCE RATIO .....	1.087
(8)	EXPECTED EXPERIENCE RATIO (SEE FOOTNOTE C) .....	1.033
(9)	CREDIBILITY BASED ON LATEST THREE YEARS NUMBER OF INCURRED OCCURRENCES (SEE SECTION B - CREDIBILITY STANDARDS) .....	0.67
(10)	CREDIBILITY-WEIGHTED EXPERIENCE RATIO { (7) X (9) } + { (8) X { 1.0 - (9) } } .....	1.069
(11)	INDICATED MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (10) - 1 } X 100% .....	+ 6.9 %
(12)	STATEWIDE INDICATED MONOLINE CHANGE (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS) .....	+ 9.5 %
(13)	STATEWIDE SELECTED MONOLINE CHANGE .....	+ 9.5 %
(14)	STATEWIDE ADJUSTED MONOLINE CHANGE@ .....	+ 8.6 %

(A) THESE ARE CALCULATED BY SUMMING OVER THE CLASSES THE PRODUCTS OF REPORTED EXPOSURES, EXPOSURE TREND AND DEVELOPMENT, AND \$100,000 BASIC LIMIT LOSS COSTS AT CURRENT ISO LEVEL. FOR DETAILS, SEE SECTION E - CALCULATION OF AGGREGATE LOSS COSTS AT CURRENT LEVEL.

(B) INCLUDING ALL LOSS ADJUSTMENT EXPENSES AND DEVELOPED TO AN ULTIMATE BASIS. IN ADDITION, ACCIDENT YEAR LOSSES HAVE BEEN TRENDED FROM THE AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 02/01/2021. FOR DETAILS, SEE SECTION E - CALCULATION OF INCURRED LOSSES.

(C) THE EXPECTED EXPERIENCE RATIO IS THE NET TREND (1.033). THE NET TREND IS THE ANNUAL NET TREND FACTOR (1.033) TO AN EXPONENT (1.000), THE PERIOD FROM ONE YEAR BEYOND THE LAST REVIEW OR EFFECTIVE DATE (02/01/2021) TO ONE YEAR BEYOND THE ASSUMED EFFECTIVE DATE (02/01/2022).

@ The Adjusted Owners, Landlords and Tenants loss cost level change reflects the impact of adjusting the loss costs for specific classes due to an expected occurrence frequency decrease stemming from COVID-19 related impacts.

KENTUCKY  
PRODUCTS  
SUBLINE CODE 336  
DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE

(1)	(2)	(3)	(4)	(5)	(6)
ACCIDENT YEAR ENDING	MULTISTATE AGGREGATE LOSS COSTS AT CURRENT LEVEL (A)	MULTISTATE \$100,000 BASIC LIMITS INCURRED LOSSES (B)	YEAR WEIGHTS	EXPERIENCE RATIO	NUMBER OF INCURRED OCCURRENCES
12/31/2016	\$101,545,304	\$116,523,158	0.20	1.147	1,959
12/31/2017	105,720,327	115,874,882	0.30	1.096	1,826
12/31/2018	107,600,597	104,719,629	0.50	0.973	1,695

(7)	WEIGHTED EXPERIENCE RATIO .....	1.045
(8)	INDICATED MULTISTATE MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (7)-1.00}X 100% .....	+ 4.5 %
(9)	INDICATED MULTISTATE MONOLINE CHANGE ..... (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)	- 0.1 %
(10)	INDICATED STATEWIDE MONOLINE CHANGE (SEE FOOTNOTE C).....	+ 0.9 %
(11)	SELECTED STATEWIDE MONOLINE CHANGE.....	+ 0.9 %

- (A) THESE ARE CALCULATED BY SUMMING OVER THE CLASSES THE PRODUCTS OF MULTISTATE REPORTED EXPOSURES, EXPOSURE TREND AND DEVELOPMENT, AND MULTISTATE \$100,000 BASIC LIMIT LOSS COSTS AT CURRENT ISO LEVEL. FOR DETAILS, SEE SECTION F - CALCULATION OF AGGREGATE LOSS COSTS AT CURRENT LEVEL.
- (B) INCLUDING ALL LOSS ADJUSTMENT EXPENSES AND DEVELOPED TO AN ULTIMATE BASIS. IN ADDITION, ACCIDENT YEAR LOSSES HAVE BEEN TRENDED FROM THE AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 07/01/2020.
- (C) THE INDICATED STATEWIDE PRODUCTS CHANGE IS CALCULATED BY DETERMINING THE EFFECT, ON STATEWIDE LOSS COST LEVELS, OF IMPLEMENTING THE INDICATED MULTISTATE LOSS COSTS. THE DIFFERENCE BETWEEN THE INDICATED MULTISTATE CHANGE AND THE INDICATED STATEWIDE CHANGE IS A RESULT OF A DIFFERENCE IN THE DISTRIBUTION OF RISKS BY CLASS IN THIS JURISDICTION VERSUS THE MULTISTATE. (SEE SECTION A - PRODUCTS CLASS GROUP LOSS COST LEVEL CHANGE) .

KENTUCKY  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
SUBLINE CODE 336  
DETERMINATION OF INDICATED LOSS COST LEVEL CHANGE

(1)	(2)	(3)	(4)	(5)	(6)
ACCIDENT YEAR ENDING	MULTISTATE AGGREGATE LOSS COSTS AT CURRENT LEVEL (A)	MULTISTATE \$100,000 BASIC LIMIT INCURRED LOSSES (B)	YEAR WEIGHTS	EXPERIENCE RATIO	NUMBER OF INCURRED OCCURRENCES
12/31/2016	\$285,063,359	\$337,794,306	0.20	1.185	6,228
12/31/2017	297,507,215	323,082,763	0.30	1.086	5,614
12/31/2018	305,260,757	332,169,074	0.50	1.088	5,528

(7) WEIGHTED EXPERIENCE RATIO..... 1.107

(8) INDICATED MULTISTATE MONOLINE-MULTILINE LOSS COST LEVEL CHANGE  
 $\{ (7) - 1.00 \} \times 100\% \dots\dots\dots + 10.7 \%$

(9) INDICATED MULTISTATE MONOLINE CHANGE  
(SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)..... + 9.0 %

(10) INDICATED STATEWIDE MONOLINE CHANGE (C)  
(SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)..... + 15.9 %

(11) SELECTED STATEWIDE MONOLINE CHANGE..... + 15.9 %

(A) THESE ARE CALCULATED BY SUMMING OVER THE STATES THE PRODUCTS OF STATE-REPORTED EXPOSURES, EXPOSURE TREND AND DEVELOPMENT, AND STATE \$100,000 BASIC LIMIT LOSS COSTS AT CURRENT ISO LEVEL. FOR DETAILS, SEE SECTION G - CALCULATION OF AGGREGATE LOSS COSTS AT CURRENT LEVEL.

(B) INCLUDING ALL LOSS ADJUSTMENT EXPENSE AND DEVELOPED TO AN ULTIMATE BASIS. IN ADDITION, ACCIDENT YEAR LOSSES HAVE BEEN TRENDED FROM THE AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 07/01/2020.

(C) THE INDICATED STATEWIDE MONOLINE CHANGE IS CALCULATED BASED ON THE INDICATED MULTISTATE MONOLINE CHANGE.

## SECTION D

### RELATIVE CHANGE ANALYSIS

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KENTUCKY  
MANUFACTURERS AND CONTRACTORS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

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	(1) BAILEY FORMULA RELATIV.	(2) CREDIBILITY Z	(3) Z-WTD RELATIV.	(4) BALANCED RELATIV.	STATEWIDE COVERAGE IND. OF 1.031 OR + 3.1%			
TOP								
10	0.946	0.179	0.990	0.987				
33	1.562	0.027	1.012	1.009				
34	0.656	0.080	0.967	0.964				
35	2.504	0.053	1.050	1.047				
36	1.025	0.158	1.004	1.001				
37	0.923	0.074	0.994	0.991				
38	1.092	0.224	1.020	1.017				
					(5) INDICATED MONOLINE CHANGE		(6) SELECTED MONOLINE CHANGE	
CLASS GROUP								
30	1.212	0.105	1.020	1.022	+	4.0%	+	2.2%
31	0.991	0.147	0.999	1.000	+	1.8%		0.0%
32	0.930	0.205	0.985	0.987	+	0.4%	-	1.4%
33	1.002	0.100	1.000	1.002	+	2.0%	+	0.2%
34	1.218	0.143	1.029	1.030	+	4.9%	+	3.0%
35	0.849	0.031	0.995	0.996	+	1.4%	-	0.4%
36	0.742	0.064	0.981	0.982		0.0%	-	1.8%
37	0.628	0.039	0.982	0.983	+	0.1%	-	1.7%
38	1.357	0.104	1.032	1.034	+	5.2%	+	3.3%
					OVERALL MONOLINE INDICATION	+	1.8%	0.0%

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\* Monoline/multiline ALCCL for the latest year was used to weight the indicated monoline change by class group.

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

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
10 MONOLINE	30 SERVICE	\$215,957	\$824,697	1.809	1.789	44	1.009
	31 LIGHT CONTRACTING	247,947	1,180,978	0.959	0.948	98	0.987
	32 MEDIUM CONTRCTING	1,520,480	8,124,109	0.825	0.815	260	0.974
	33 HEAVY CONTRACTING	318,577	1,800,208	1.069	1.057	35	0.989
	34 DEALER OR DISTRIB	336,753	2,156,101	0.952	0.941	67	1.017
	35 LGT. MANUFACTURER	138,395	537,054	0.007	0.007	1	0.984
	36 MED. MANUFACTURER	280,215	1,254,460	1.123	1.110	25	0.970
	37 HVY. MANUFACTURER	85,647	463,353	0.578	0.571	7	0.971
	38 MISC. OPERATION	149,329	661,064	1.246	1.232	43	1.021
	TOTAL *	\$3,293,300	\$17,002,024	0.940		580	
33 MULT OFFICE	31 LIGHT CONTRACTING	\$7,876	\$50,513	0.015	0.015	1	1.009
	32 MEDIUM CONTRCTING	3,403	21,036	0.000	0.000	0	0.996
	33 HEAVY CONTRACTING	40,328	218,712	1.249	1.235	7	1.011
	38 MISC. OPERATION	27,179	137,988	3.273	3.236	6	1.043
	TOTAL *	\$78,786	\$428,249	1.770		14	
34 MULT MERCANTILE	30 SERVICE	\$36,644	\$225,230	0.223	0.220	4	0.985
	32 MEDIUM CONTRCTING	81,381	448,959	1.107	1.094	13	0.951
	34 DEALER OR DISTRIB	479,353	2,511,866	0.691	0.683	88	0.993
	38 MISC. OPERATION	10,124	57,604	4.653	4.600	12	0.997
	TOTAL *	\$607,502	\$3,243,659	0.784		117	
35 MULT INSTITUT.	31 LIGHT CONTRACTING	\$8,180	\$32,812	5.671	5.606	11	1.047
	32 MEDIUM CONTRCTING	81,096	395,894	2.036	2.013	40	1.033
	TOTAL *	\$89,276	\$428,706	2.369		51	
36 MULT SERVICES	30 SERVICE	\$24,219	\$173,630	1.894	1.873	52	1.023
	31 LIGHT CONTRACTING	120,976	905,148	0.385	0.381	23	1.001
	32 MEDIUM CONTRCTING	137,762	856,894	0.528	0.522	20	0.988
	33 HEAVY CONTRACTING	53,383	174,346	1.994	1.971	9	1.003
	34 DEALER OR DISTRIB	564,517	3,294,262	1.503	1.486	215	1.031
	36 MED. MANUFACTURER	7,832	29,644	0.000	0.000	0	0.984
	38 MISC. OPERATION	306,517	1,595,923	1.219	1.205	133	1.035
	TOTAL *	\$1,215,206	\$7,029,847	1.229		452	

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

		(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP						
37 MULT INDUST/PROC.	31 LIGHT CONTRACTING	\$408	\$2,503	0.000	0.000	0	0.991
	32 MEDIUM CONTRCTING	108,890	593,954	1.253	1.239	8	0.978
	33 HEAVY CONTRACTING	64,105	339,260	0.116	0.115	3	0.993
	34 DEALER OR DISTRIB	5,735	24,177	0.000	0.000	0	1.021
	35 LGT. MANUFACTURER	93,339	447,708	1.988	1.965	17	0.988
	36 MED. MANUFACTURER	689,539	2,993,491	0.534	0.528	51	0.974
	37 HVY. MANUFACTURER	387,350	1,846,611	0.591	0.584	21	0.975
	38 MISC. OPERATION	6,303	37,005	3.441	3.402	1	1.025
	TOTAL *	\$1,355,669	\$6,284,709	0.700		101	
38 MULT CONTRACTORS	30 SERVICE	\$544,227	\$2,843,381	1.092	1.080	101	1.039
	31 LIGHT CONTRACTING	860,910	4,334,937	1.166	1.153	256	1.017
	32 MEDIUM CONTRCTING	1,932,604	10,133,975	1.084	1.071	420	1.003
	33 HEAVY CONTRACTING	690,002	3,719,413	1.078	1.066	127	1.019
	38 MISC. OPERATION	11,545	35,841	0.060	0.060	2	1.051
	TOTAL *	\$4,039,288	\$21,067,547	1.099		906	
TOTAL ALL TOP	30 SERVICE	\$821,047	\$4,066,938	1.266		201	
	31 LIGHT CONTRACTING	1,246,297	6,506,891	1.071		389	
	32 MEDIUM CONTRCTING	3,865,616	20,574,821	0.986		761	
	33 HEAVY CONTRACTING	1,166,395	6,251,939	1.071		181	
	34 DEALER OR DISTRIB	1,386,358	7,986,406	1.082		370	
	35 LGT. MANUFACTURER	231,734	984,762	0.805		18	
	36 MED. MANUFACTURER	977,586	4,277,595	0.699		76	
	37 HVY. MANUFACTURER	472,997	2,309,964	0.589		28	
	38 MISC. OPERATION	510,997	2,525,425	1.406		197	
	TOTAL *	\$10,679,027	\$55,484,741	1.012		2,221	

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

KENTUCKY  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1) BAILEY FORMULA RELATIV.	(2) CREDIBILITY Z	(3) Z-WTD RELATIV.	(4) BALANCED RELATIV.	STATEWIDE COVERAGE IND. OF 1.069 OR + 6.9%	
TOP						
10	1.084	0.255	1.021	1.022		
31	1.052	0.127	1.006	1.008		
32	1.155	0.112	1.016	1.018		
33	0.907	0.176	0.983	0.984		
34	0.870	0.268	0.963	0.965		
35	1.073	0.187	1.013	1.015		
36	1.134	0.148	1.019	1.020		
					(5) INDICATED MONOLINE CHANGE	(6) SELECTED MONOLINE CHANGE
CLASS GROUP						
01	1.031	0.207	1.006	1.005	+ 10.9%	+ 10.9%
02	0.976	0.205	0.995	0.994	+ 8.9%	+ 8.9%
03	0.840	0.105	0.982	0.981	+ 7.4%	+ 7.4%
04	0.465	0.028	0.979	0.978	+ 7.2%	+ 7.2%
05	0.092	0.038	0.913	0.912	- 0.1%	- 0.1%
06	1.641	0.065	1.033	1.032	+ 12.6%	+ 12.6%
07	1.072	0.125	1.009	1.008	+ 9.9%	+ 9.9%
08	1.194	0.043	1.008	1.007	+ 11.0%	+ 11.0%
09	0.876	0.148	0.981	0.979	+ 7.7%	+ 7.7%
10	1.008	0.185	1.002	1.000	+ 10.2%	+ 10.2%
11	0.990	0.130	0.999	0.998	+ 8.9%	+ 8.9%
12	1.046	0.238	1.011	1.010	+ 10.0%	+ 10.0%
13	0.780	0.056	0.986	0.985	+ 7.6%	+ 7.6%
16	0.232	0.016	0.977	0.976	+ 7.4%	+ 7.4%
					OVERALL MONOLINE INDICATION + 9.5%	+ 9.5%

\* Monoline/multiline ALCCCL for the latest year was used to weight the indicated monoline change by class group.



KENTUCKY  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS  
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	(1)	(2)	(3)	(4)	(5)	(6)
	BAILEY					
TERRITORY	FORMULA	CREDIBILITY	Z-WTD	BALANCED	INDICATED	SELECTED
	RELATIV.	Z	RELATIV.	RELATIV.	MONOLINE CHG.	MONOLINE CHG.
501	0.901	0.236	0.976	0.973	+ 6.5%	+ 6.5%
503	1.039	0.445	1.017	1.014	+ 10.7%	+ 10.7%

\* Monoline/multiline ALCCL for the latest year was used to weight the indicated monoline change by class group.

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

TERRITORY 501

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
10 MONOLINE	01 FOOD&BEV. (RETAIL)	\$44,335	\$220,206	0.738	0.684	16	1.000
	02 RESTAURANTS	115,774	658,682	0.437	0.405	48	0.988
	03 STORES	44,299	181,657	0.245	0.227	10	0.975
	04 VENDING & RENTAL	810	5,431	0.086	0.080	1	0.972
	05 FOOD & BEV. DIST.	30,381	126,855	0.004	0.004	1	0.907
	06 NON-FOOD&BEV.DIST	24,040	112,121	0.937	0.868	10	1.026
	07 CLUBS, AMSMT&SPRTS	29,708	169,878	1.800	1.667	13	1.002
	08 HEALTH CARE FACIL	541	8,086	0.000	0.000	0	1.001
	09 HOTELS AND MOTELS	51,521	405,107	1.141	1.057	29	0.974
	10 SCHLS & CHURCHES	89,185	364,303	1.045	0.968	17	0.995
	11 APARTMENTS	353,116	1,990,513	0.616	0.571	42	0.992
	12 BUILDINGS&OFFICES	196,287	1,228,649	1.463	1.355	42	1.004
	13 MISC. PREMISES	20,009	64,523	0.107	0.099	2	0.980
	16 GOVT SUBDIVISIONS	76	1,200	0.000	0.000	0	0.970
	TOTAL *	\$1,000,082	\$5,537,211	0.829		231	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$135,325	\$731,966	1.301	1.205	45	0.960
	TOTAL *	\$135,325	\$731,966	1.301		45	
32 MULT APARTMENT	11 APARTMENTS	\$373,416	\$1,814,146	1.088	1.008	40	0.988
	12 BUILDINGS&OFFICES	110,563	583,907	1.811	1.678	24	1.000
	TOTAL *	\$483,979	\$2,398,053	1.253		64	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$1,315,074	\$6,173,999	0.820	0.760	148	0.967
	13 MISC. PREMISES	10,608	44,948	3.426	3.174	1	0.943
	TOTAL *	\$1,325,682	\$6,218,947	0.841		149	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$225,060	\$1,072,820	0.985	0.913	41	0.944
	02 RESTAURANTS	637,891	3,200,160	1.095	1.014	161	0.933
	03 STORES	230,666	1,049,527	1.191	1.103	39	0.920
	04 VENDING & RENTAL	584	12,472	0.000	0.000	0	0.918
	05 FOOD & BEV. DIST.	22,052	145,385	0.194	0.179	9	0.856
	06 NON-FOOD&BEV.DIST	150,313	901,618	2.766	2.563	20	0.968
	12 BUILDINGS&OFFICES	428,012	2,073,489	0.750	0.695	47	0.948
	TOTAL *	\$1,694,578	\$8,455,471	1.142		317	

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

TERRITORY	501		(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP							
35 MULT INSTITUT.	07 CLUBS, AMSMT&SPRTS		\$195	\$684	0.000	0.000	0	0.995
	08 HEALTH CARE FACIL		19,085	119,587	2.084	1.931	8	0.994
	10 SCHLS & CHURCHES		327,237	1,396,488	0.557	0.516	52	0.988
	12 BUILDINGS&OFFICES		399	6,149	1.167	1.081	1	0.997
	13 MISC. PREMISES		33	165	0.000	0.000	0	0.972
	16 GOVT SUBDIVISIONS		10,403	35,589	0.000	0.000	0	0.963
	TOTAL *		\$357,352	\$1,558,662	0.623		61	
36 MULT SERVICES	03 STORES		\$34,090	\$129,145	0.087	0.080	4	0.973
	04 VENDING & RENTAL		31,650	165,202	0.076	0.070	1	0.970
	07 CLUBS, AMSMT&SPRTS		338,142	1,732,817	0.866	0.802	82	1.000
	08 HEALTH CARE FACIL		6	222	0.000	0.000	0	0.999
	09 HOTELS AND MOTELS		2,452	11,576	0.000	0.000	0	0.972
	10 SCHLS & CHURCHES		15	1,366	0.000	0.000	0	0.993
	12 BUILDINGS&OFFICES		241,020	1,099,447	1.490	1.380	46	1.002
	13 MISC. PREMISES		66,659	288,210	0.161	0.149	9	0.978
	TOTAL *		\$714,034	\$3,427,985	0.936		142	
TOTAL ALL TOP	01 FOOD&BEV. (RETAIL)		\$269,395	\$1,293,026	0.944		57	
	02 RESTAURANTS		753,665	3,858,842	0.994		209	
	03 STORES		309,055	1,360,329	0.933		53	
	04 VENDING & RENTAL		33,044	183,105	0.074		2	
	05 FOOD & BEV. DIST.		52,433	272,240	0.084		10	
	06 NON-FOOD&BEV.DIST		174,353	1,013,739	2.514		30	
	07 CLUBS, AMSMT&SPRTS		368,045	1,903,379	0.941		95	
	08 HEALTH CARE FACIL		19,632	127,895	2.026		8	
	09 HOTELS AND MOTELS		189,298	1,148,649	1.241		74	
	10 SCHLS & CHURCHES		416,437	1,762,157	0.662		69	
	11 APARTMENTS		726,532	3,804,659	0.859		82	
	12 BUILDINGS&OFFICES		2,291,355	11,165,640	0.980		308	
	13 MISC. PREMISES		97,309	397,846	0.506		12	
	16 GOVT SUBDIVISIONS		10,479	36,789	0.000		0	
	TOTAL *		\$5,711,032	\$28,328,295	0.972		1,009	

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

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

TERRITORY      503

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
10 MONOLINE	01 FOOD&BEV. (RETAIL)	\$1,193,456	\$4,689,622	1.271	1.178	404	1.042
	02 RESTAURANTS	478,223	2,834,353	1.296	1.200	155	1.030
	03 STORES	148,162	672,450	0.852	0.789	22	1.016
	04 VENDING & RENTAL	13,535	41,440	0.035	0.033	1	1.013
	05 FOOD & BEV. DIST.	60,905	297,539	0.058	0.053	7	0.946
	06 NON-FOOD&BEV.DIST	47,977	206,960	0.151	0.140	9	1.069
	07 CLUBS, AMSMT&SPRTS	78,280	467,724	1.759	1.630	45	1.044
	08 HEALTH CARE FACIL	22,157	62,710	4.248	3.936	2	1.043
	09 HOTELS AND MOTELS	163,224	1,002,654	1.013	0.938	69	1.015
	10 SCHLS & CHURCHES	226,298	1,457,592	0.965	0.894	30	1.037
	11 APARTMENTS	445,708	1,910,240	1.681	1.558	76	1.034
	12 BUILDINGS&OFFICES	410,844	2,394,007	1.319	1.222	107	1.047
	13 MISC. PREMISES	45,672	259,622	0.697	0.646	15	1.021
	16 GOVT SUBDIVISIONS	0	94	0.000	0.000	0	1.011
	TOTAL *	\$3,334,441	\$16,297,007	1.263		942	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$740,671	\$4,834,249	0.959	0.888	248	1.001
	TOTAL *	\$740,671	\$4,834,249	0.959		248	
32 MULT APARTMENT	11 APARTMENTS	\$799,751	\$3,898,986	1.217	1.127	148	1.029
	12 BUILDINGS&OFFICES	126,535	483,510	1.287	1.192	14	1.042
	TOTAL *	\$926,286	\$4,382,496	1.226		162	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$1,920,118	\$9,585,994	1.101	1.020	409	1.008
	13 MISC. PREMISES	10,306	46,331	4.133	3.829	4	0.983
	TOTAL *	\$1,930,424	\$9,632,325	1.118		413	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$1,045,994	\$6,877,372	0.977	0.905	313	0.983
	02 RESTAURANTS	1,499,168	8,551,932	0.849	0.787	394	0.972
	03 STORES	501,090	2,752,404	0.824	0.764	111	0.959
	04 VENDING & RENTAL	22,732	88,387	0.072	0.067	1	0.956
	05 FOOD & BEV. DIST.	70,418	384,575	0.141	0.130	10	0.893
	06 NON-FOOD&BEV.DIST	252,892	1,265,775	1.209	1.120	38	1.009
	12 BUILDINGS&OFFICES	649,623	3,543,128	0.758	0.703	109	0.988
	TOTAL *	\$4,041,917	\$23,463,573	0.870		976	

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY      503

		(1)	(2)	(3)	(4)	(5)	(6)
		FISCAL A.Y.E.	FISCAL A.Y.E.	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP	06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	2015 - 2019 AGG LOSS COST CURRENT LEVEL				
35 MULT INSTITUT.	07 CLUBS, AMSMT&SPRTS	\$15,766	\$115,654	1.450	1.344	6	1.037
	08 HEALTH CARE FACIL	125,611	649,129	0.831	0.770	24	1.036
	10 SCHLS & CHURCHES	2,316,514	10,913,962	1.310	1.214	523	1.029
	12 BUILDINGS&OFFICES	20,280	107,244	1.077	0.998	16	1.039
	13 MISC. PREMISES	783	5,505	0.000	0.000	0	1.014
	16 GOVT SUBDIVISIONS	55,482	417,348	0.324	0.301	5	1.004
	TOTAL *	\$2,534,436	\$12,208,842	1.264		574	
36 MULT SERVICES	03 STORES	\$82,750	\$432,542	0.689	0.638	16	1.015
	04 VENDING & RENTAL	57,117	268,207	1.121	1.039	11	1.011
	07 CLUBS, AMSMT&SPRTS	468,907	2,214,555	1.468	1.360	137	1.042
	08 HEALTH CARE FACIL	732	2,154	0.000	0.000	0	1.041
	09 HOTELS AND MOTELS	32,627	175,029	1.098	1.017	4	1.013
	10 SCHLS & CHURCHES	1,090	14,535	0.000	0.000	0	1.035
	12 BUILDINGS&OFFICES	171,470	870,758	1.697	1.573	59	1.045
	13 MISC. PREMISES	131,275	576,878	1.065	0.986	26	1.019
	TOTAL *	\$945,968	\$4,554,658	1.349		253	
TOTAL ALL      TOP	01 FOOD&BEV. (RETAIL)	\$2,239,450	\$11,566,994	1.134		717	
	02 RESTAURANTS	1,977,391	11,386,285	0.957		549	
	03 STORES	732,002	3,857,396	0.815		149	
	04 VENDING & RENTAL	93,384	398,034	0.709		13	
	05 FOOD & BEV. DIST.	131,323	682,114	0.102		17	
	06 NON-FOOD&BEV.DIST	300,869	1,472,735	1.040		47	
	07 CLUBS, AMSMT&SPRTS	562,953	2,797,933	1.508		188	
	08 HEALTH CARE FACIL	148,500	713,993	1.337		26	
	09 HOTELS AND MOTELS	936,522	6,011,932	0.973		321	
	10 SCHLS & CHURCHES	2,543,902	12,386,089	1.279		553	
	11 APARTMENTS	1,245,459	5,809,226	1.383		224	
	12 BUILDINGS&OFFICES	3,298,870	16,984,641	1.099		714	
	13 MISC. PREMISES	188,036	888,336	1.139		45	
	16 GOVT SUBDIVISIONS	55,482	417,442	0.324		5	
	TOTAL *	\$14,454,143	\$75,373,150	1.122		3,568	

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

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

TERRITORY	ALL	(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP						
10 MONOLINE	01 FOOD&BEV. (RETAIL)	\$1,237,791	\$4,909,828	1.252		420	
	02 RESTAURANTS	593,997	3,493,035	1.128		203	
	03 STORES	192,461	854,107	0.712		32	
	04 VENDING & RENTAL	14,345	46,871	0.038		2	
	05 FOOD & BEV. DIST.	91,286	424,394	0.040		8	
	06 NON-FOOD&BEV.DIST	72,017	319,081	0.413		19	
	07 CLUBS, AMSMT&SPRTS	107,988	637,602	1.770		58	
	08 HEALTH CARE FACIL	22,698	70,796	4.147		2	
	09 HOTELS AND MOTELS	214,745	1,407,761	1.044		98	
	10 SCHLS & CHURCHES	315,483	1,821,895	0.988		47	
	11 APARTMENTS	798,824	3,900,753	1.210		118	
	12 BUILDINGS&OFFICES	607,131	3,622,656	1.366		149	
	13 MISC. PREMISES	65,681	324,145	0.517		17	
	16 GOVT SUBDIVISIONS	76	1,294	0.000		0	
	TOTAL *	\$4,334,523	\$21,834,218	1.163		1,173	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$875,996	\$5,566,215	1.012		293	
	TOTAL *	\$875,996	\$5,566,215	1.012		293	
32 MULT APARTMENT	11 APARTMENTS	\$1,173,167	\$5,713,132	1.176		188	
	12 BUILDINGS&OFFICES	237,098	1,067,417	1.531		38	
	TOTAL *	\$1,410,265	\$6,780,549	1.236		226	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$3,235,192	\$15,759,993	0.987		557	
	13 MISC. PREMISES	20,914	91,279	3.774		5	
	TOTAL *	\$3,256,106	\$15,851,272	1.005		562	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$1,271,054	\$7,950,192	0.978		354	
	02 RESTAURANTS	2,137,059	11,752,092	0.923		555	
	03 STORES	731,756	3,801,931	0.940		150	
	04 VENDING & RENTAL	23,316	100,859	0.071		1	
	05 FOOD & BEV. DIST.	92,470	529,960	0.153		19	
	06 NON-FOOD&BEV.DIST	403,205	2,167,393	1.789		58	
	12 BUILDINGS&OFFICES	1,077,635	5,616,617	0.755		156	
	TOTAL *	\$5,736,495	\$31,919,044	0.951		1,293	

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

TERRITORY	ALL	(1) FISCAL A.Y.E. 06/30/2019 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL A.Y.E. 2015 - 2019 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP						
35 MULT INSTITUT.	07 CLUBS, AMSMT&SPRTS	\$15,961	\$116,338	1.432		6	
	08 HEALTH CARE FACIL	144,696	768,716	0.996		32	
	10 SCHLS & CHURCHES	2,643,751	12,310,450	1.217		575	
	12 BUILDINGS&OFFICES	20,679	113,393	1.079		17	
	13 MISC. PREMISES	816	5,670	0.000		0	
	16 GOVT SUBDIVISIONS	65,885	452,937	0.273		5	
	TOTAL *	\$2,891,788	\$13,767,504	1.184		635	
36 MULT SERVICES	03 STORES	\$116,840	\$561,687	0.513		20	
	04 VENDING & RENTAL	88,767	433,409	0.748		12	
	07 CLUBS, AMSMT&SPRTS	807,049	3,947,372	1.216		219	
	08 HEALTH CARE FACIL	738	2,376	0.000		0	
	09 HOTELS AND MOTELS	35,079	186,605	1.021		4	
	10 SCHLS & CHURCHES	1,105	15,901	0.000		0	
	12 BUILDINGS&OFFICES	412,490	1,970,205	1.576		105	
	13 MISC. PREMISES	197,934	865,088	0.760		35	
	TOTAL *	\$1,660,002	\$7,982,643	1.171		395	
TOTAL ALL	TOP						
	01 FOOD&BEV. (RETAIL)	\$2,508,845	\$12,860,020	1.113		774	
	02 RESTAURANTS	2,731,056	15,245,127	0.967		758	
	03 STORES	1,041,057	5,217,725	0.850		202	
	04 VENDING & RENTAL	126,428	581,139	0.543		15	
	05 FOOD & BEV. DIST.	183,756	954,354	0.097		27	
	06 NON-FOOD&BEV.DIST	475,222	2,486,474	1.581		77	
	07 CLUBS, AMSMT&SPRTS	930,998	4,701,312	1.284		283	
	08 HEALTH CARE FACIL	168,132	841,888	1.417		34	
	09 HOTELS AND MOTELS	1,125,820	7,160,581	1.018		395	
	10 SCHLS & CHURCHES	2,960,339	14,148,246	1.192		622	
	11 APARTMENTS	1,971,991	9,613,885	1.190		306	
	12 BUILDINGS&OFFICES	5,590,225	28,150,281	1.050		1,022	
	13 MISC. PREMISES	285,345	1,286,182	0.923		57	
	16 GOVT SUBDIVISIONS	65,961	454,231	0.273		5	
	TOTAL *	\$20,165,175	\$103,701,445	1.079		4,577	

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

KENTUCKY  
PRODUCTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS  
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	(1) BAILEY FORMULA RELATIV.	(2) CREDIBILITY Z	(3) Z-WTD RELATIV.	(4) BALANCED RELATIV.	MULTISTATE COVERAGE IND. OF 1.045 OR + 4.5%				
TOP									
10	0.881	0.317	0.961	0.956					
34	0.979	0.343	0.993	0.987					
36	1.029	0.185	1.005	1.000					
37	1.086	0.477	1.040	1.035					
CLASS GROUP					(5) INDICATED MULTISTATE MONOLINE CHANGE	(6) INDICATED STATEWIDE MONOLINE CHANGE#*	(7) SELECTED STATEWIDE MONOLINE CHANGE		
3	0.867	0.446	0.938	0.942	- 5.9%	- 4.0%	- 4.0%		
4	1.109	0.383	1.040	1.044	+ 4.3%	+ 4.0%	+ 4.0%		
5	1.079	0.130	1.010	1.014	+ 1.2%	+ 11.9%	+ 11.9%		
6	0.977	0.310	0.993	0.996	- 0.5%	- 1.8%	- 1.8%		
7	0.998	0.143	1.000	1.003	+ 0.2%	+ 0.7%	+ 0.7%		
			OVERALL MONOLINE INDICATION		- 0.1%	+ 0.9%	+ 0.9%		
			-----		-----	-----	-----		

# The indicated statewide Products change is calculated by determining the effect, on statewide loss cost levels, of implementing the indicated multistate loss costs. The difference between the indicated multistate change and the indicated statewide change is a result of a difference in the distribution of risks by class in this jurisdiction versus the multistate.

\* Monoline/Multiline ALCCL for the latest year was used to weight the indicated monoline change by class group.



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

TYPE OF POLICY	CLASS GROUP	(1) CALENDAR A.Y.E. 12/31/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) CALENDAR A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	(3) FIVE YEAR EXPERIENCE RATIO	(4) RELATIV.	(5) NUMBER OF OCCURRENCES	(6) BAL CELL RELATIV.
10 MONOLINE	03 MAN, DLR, DSTFD/DRG	\$8,093,332	\$39,443,822	0.784	0.712	920	0.900
	04 DLR, DST-NOTFD/DRG	7,050,350	31,300,283	1.139	1.034	465	0.998
	05 MAN.NTFD/DRG (LOW)	1,674,016	6,525,174	0.980	0.890	84	0.969
	06 MAN.NTFD/DRG (MED)	8,719,673	39,390,154	1.006	0.914	462	0.952
	07 MAN.NTFD/DRG (HGH)	2,487,754	10,123,703	0.821	0.745	82	0.959
	TOTAL *	\$28,025,125	\$126,783,136	0.957		2,013	
34 MULT MERCANTILE	03 MAN, DLR, DSTFD/DRG	\$4,331,883	\$21,396,487	1.047	0.951	564	0.930
	04 DLR, DST-NOTFD/DRG	25,139,034	121,279,202	1.176	1.068	1,794	1.031
	06 MAN.NTFD/DRG (MED)	3,108	19,331	0.000	0.000	0	0.984
	TOTAL *	\$29,474,025	\$142,695,020	1.157		2,358	
36 MULT SERVICES	04 DLR, DST-NOTFD/DRG	\$2,760,971	\$12,384,922	1.274	1.157	688	1.044
	06 MAN.NTFD/DRG (MED)	42,893	205,196	0.000	0.000	0	0.996
	TOTAL *	\$2,803,864	\$12,590,118	1.254		688	
37 MULT INDUST/PROC.	03 MAN, DLR, DSTFD/DRG	\$13,380,685	\$63,881,777	1.035	0.940	2,512	0.974
	05 MAN.NTFD/DRG (LOW)	3,488,504	18,393,950	1.322	1.200	254	1.048
	06 MAN.NTFD/DRG (MED)	24,557,849	115,549,330	1.149	1.043	1,462	1.031
	07 MAN.NTFD/DRG (HGH)	5,784,533	29,451,053	1.257	1.141	329	1.038
	TOTAL *	\$47,211,571	\$227,276,110	1.143		4,557	
TOTAL ALL TOP	03 MAN, DLR, DSTFD/DRG	\$25,805,900	\$124,722,086	0.959		3,996	
	04 DLR, DST-NOTFD/DRG	34,950,355	164,964,407	1.176		2,947	
	05 MAN.NTFD/DRG (LOW)	5,162,520	24,919,124	1.211		338	
	06 MAN.NTFD/DRG (MED)	33,323,523	155,164,011	1.110		1,924	
	07 MAN.NTFD/DRG (HGH)	8,272,287	39,574,756	1.126		411	
	TOTAL *	\$107,514,585	\$509,344,384	1.101		9,616	

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

KENTUCKY  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

	(1) BAILEY FORMULA RELATIV.	(2) CREDIBILITY Z	(3) Z-WTD RELATIV.	(4) BALANCED RELATIV.	MULTISTATE COVERAGE IND. OF 1.107 OR + 10.7%		
TOP							
10	0.982	0.722	0.987	0.985			
34	0.956	0.510	0.977	0.975			
36	0.955	0.521	0.976	0.974			
37	1.094	0.137	1.012	1.010			
38	1.018	0.965	1.017	1.015			
CLASS GROUP					(5) INDICATED MULTISTATE MONOLINE CHANGE	(6) INDICATED STATEWIDE MONOLINE CHANGE#*	(7) SELECTED STATEWIDE MONOLINE CHANGE
1	0.924	0.511	0.960	0.958	+ 4.8%	+ 12.0%	+ 12.0%
2	1.075	0.497	1.037	1.033	+ 12.7%	+ 20.8%	+ 20.6%
11	1.085	0.347	1.029	1.025	+ 11.3%	+ 25.9%	+ 24.0%
12	1.008	1.000	1.008	1.005	+ 9.2%	+ 15.7%	+ 15.7%
13	0.835	0.264	0.954	0.951	+ 3.6%	+ 13.1%	+ 13.1%
			OVERALL MONOLINE INDICATION		+ 9.0%	+ 15.9%	+ 15.9%

# The indicated statewide monoline change is calculated based on the indicated multistate monoline change.

\* Monoline/Multiline ALCCL for the latest year was used to weight the indicated monoline change by class group.

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

STATE	(1) BAILEY FORMULA RELATIV	(2) CREDIBILITY Z	(3) Z-WTD RELATIV	(4) BALANCED RELATIV.	(5) INDICATED ** MONOLINE CHG.	(6) SELECTED MONOLINE CHG.
KENTUCKY	2.014	0.233	1.177	1.179		
	1.233	0.389	1.085	1.086		
	1.171	0.453	1.074	1.075		
	1.178	0.356	1.060	1.061	15.9%	15.9%
	1.074	0.618	1.045	1.046		
	1.180	0.253	1.043	1.044		
	1.179	0.212	1.035	1.037		
	1.272	0.136	1.033	1.035		
	1.328	0.112	1.032	1.033		
	1.218	0.158	1.032	1.033		
	1.090	0.361	1.032	1.033		
	1.178	0.187	1.031	1.032		
	1.136	0.234	1.030	1.032		
	1.120	0.256	1.029	1.031		
	1.071	0.429	1.030	1.031		
	1.080	0.366	1.029	1.030		
	1.110	0.243	1.026	1.027		
	1.145	0.182	1.025	1.026		
	1.191	0.130	1.023	1.024		
	1.029	0.365	1.011	1.012		
	1.034	0.310	1.011	1.012		
	1.025	0.391	1.010	1.011		
	1.062	0.148	1.009	1.010		
	1.020	0.251	1.005	1.006		
	1.001	0.453	1.001	1.002		
	0.985	0.557	0.992	0.993		
	0.980	0.455	0.991	0.992		
	0.903	0.095	0.990	0.992		
	0.963	0.334	0.987	0.989		
	0.935	0.183	0.988	0.989		
	0.891	0.134	0.985	0.986		
	0.961	0.471	0.981	0.982		
	0.912	0.222	0.980	0.981		
	0.931	0.299	0.979	0.980		
	0.934	0.313	0.979	0.980		
	0.925	0.285	0.978	0.979		
	0.844	0.164	0.973	0.974		
	0.837	0.156	0.973	0.974		
	0.944	0.489	0.972	0.973		
	0.901	0.378	0.961	0.962		
	0.540	0.066	0.960	0.961		
	0.797	0.215	0.952	0.954		
	0.896	0.451	0.952	0.953		
	0.906	0.570	0.945	0.946		
	0.857	0.416	0.938	0.939		
	0.466	0.087	0.936	0.937		
	0.686	0.179	0.935	0.936		
	0.780	0.288	0.931	0.932		
	0.623	0.154	0.930	0.931		
	0.777	0.304	0.926	0.927		
	0.848	0.553	0.913	0.914		
	0.562	0.170	0.907	0.908		

\* Sorted by balanced relative change.

\*\* The indicated monoline change is based on the selected multistate monoline change.

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

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	\$53,291	\$207,752	0.254	0.222	15	1.001
	02 RET.STRS-NTFD/DRG	24,387	95,848	2.413	2.110	2	1.080
	11 COMP. OPS. (LOW)	33,313	134,858	0.187	0.164	3	1.072
	12 COMP. OPS. (MED)	1,160,837	5,716,117	0.564	0.493	72	1.050
	13 COMP. OPS. (HGH)	113,522	500,493	1.307	1.143	7	0.994
	TOTAL *	\$1,385,350	\$6,655,068	0.636		99	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	\$94,218	\$499,668	2.067	1.807	73	0.991
	02 RET.STRS-NTFD/DRG	53,003	236,409	2.792	2.442	24	1.070
	12 COMP. OPS. (MED)	25,249	153,354	2.236	1.956	7	1.040
	TOTAL *	\$172,470	\$889,431	2.314		104	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	\$11,676	\$50,674	0.571	0.499	2	0.990
	02 RET.STRS-NTFD/DRG	147,304	762,419	2.552	2.232	91	1.069
	11 COMP. OPS. (LOW)	5,476	33,713	0.000	0.000	0	1.060
	12 COMP. OPS. (MED)	72,248	429,524	1.294	1.132	30	1.039
	13 COMP. OPS. (HGH)	18,108	88,802	0.562	0.491	1	0.983
	TOTAL *	\$254,812	\$1,365,132	1.909		124	
37 MULT INDUST/PROC.	11 COMP. OPS. (LOW)	\$227	\$1,931	0.000	0.000	0	1.100
	12 COMP. OPS. (MED)	58,136	322,138	1.078	0.942	5	1.077
	13 COMP. OPS. (HGH)	187	2,135	0.000	0.000	0	1.019
	TOTAL *	\$58,550	\$326,204	1.070		5	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	\$102,629	\$438,488	1.187	1.038	13	1.105
	12 COMP. OPS. (MED)	2,723,927	13,446,422	1.585	1.386	346	1.082
	13 COMP. OPS. (HGH)	218,672	1,053,812	1.658	1.450	9	1.024
	TOTAL *	\$3,045,228	\$14,938,722	1.577		368	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	\$159,185	\$758,094	1.350		90	
	02 RET.STRS-NTFD/DRG	224,694	1,094,676	2.594		117	
	11 COMP. OPS. (LOW)	141,645	608,990	0.904		16	
	12 COMP. OPS. (MED)	4,040,397	20,067,555	1.283		460	
	13 COMP. OPS. (HGH)	350,489	1,645,242	1.487		17	
	TOTAL *	\$4,916,410	\$24,174,557	1.349		700	

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

MULTISTATE  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	\$2,151,747	\$9,207,997	0.954		570	
	02 RET.STRS-NTFD/DRG	2,295,068	11,448,808	1.305		473	
	11 COMP. OPS. (LOW)	3,892,639	18,163,511	1.628		651	
	12 COMP. OPS. (MED)	83,135,280	371,618,514	1.130		5,859	
	13 COMP. OPS. (HGH)	7,417,394	33,727,804	0.856		270	
	TOTAL *	\$98,892,128	\$444,166,634	1.129		7,823	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	\$7,378,051	\$34,825,684	1.019		3,165	
	02 RET.STRS-NTFD/DRG	4,658,506	21,948,411	1.063		619	
	12 COMP. OPS. (MED)	2,025,900	9,715,471	1.280		128	
	TOTAL *	\$14,062,457	\$66,489,566	1.071		3,912	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	\$731,256	\$3,413,076	1.191		192	
	02 RET.STRS-NTFD/DRG	11,447,132	45,559,628	1.208		2,628	
	11 COMP. OPS. (LOW)	3,038,264	13,955,703	1.001		463	
	12 COMP. OPS. (MED)	3,961,069	19,707,043	1.159		722	
	13 COMP. OPS. (HGH)	1,089,073	5,588,052	0.594		73	
	TOTAL *	\$20,266,794	\$88,223,502	1.134		4,078	
37 MULT INDUST/PROC.	01 RET.STRS-FOOD/DRG	\$9,836	\$70,552	0.697		1	
	11 COMP. OPS. (LOW)	114,352	544,481	0.929		18	
	12 COMP. OPS. (MED)	3,289,833	16,165,376	1.259		263	
	13 COMP. OPS. (HGH)	47,462	274,715	0.769		0	
	TOTAL *	\$3,461,483	\$17,055,124	1.240		282	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	\$8,332,796	\$39,387,506	1.147		683	
	12 COMP. OPS. (MED)	145,126,584	693,295,478	1.168		12,596	
	13 COMP. OPS. (HGH)	13,781,272	64,521,309	1.051		709	
	TOTAL *	\$167,240,652	\$797,204,293	1.157		13,988	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	\$10,270,890	\$47,517,309	1.017		3,928	
	02 RET.STRS-NTFD/DRG	18,400,706	78,956,847	1.183		3,720	
	11 COMP. OPS. (LOW)	15,378,051	72,051,201	1.239		1,815	
	12 COMP. OPS. (MED)	237,538,666	1,110,501,882	1.157		19,568	
	13 COMP. OPS. (HGH)	22,335,201	104,111,880	0.963		1,052	
	TOTAL *	\$303,923,514	\$1,413,139,119	1.144		30,083	

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

SECTION E  
SUPPORTING MATERIAL -- PREMISES/OPERATIONS  
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KENTUCKY  
MANUFACTURERS AND CONTRACTORS  
CALCULATION OF AGGREGATE LOSS COSTS  
AT CURRENT LEVEL  
COMBINED SINGLE LIMIT

TYPE OF POLICY -----	ACCIDENT YEAR ENDING -----	\$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----	X	EXPOSURE DEVELOPMENT FACTOR+ -----	X	EXPOSURE TREND# -----	X	AVERAGE IPMF* -----	=	TRENDED \$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----
MONOLINE	06/30/2017	\$3,173,196		1.000		1.085				\$3,442,918
	06/30/2018	3,219,312		1.001		1.061				3,419,106
	06/30/2019	3,147,385		1.015		1.031				3,293,628
MULTILINE	06/30/2017	\$8,256,281		1.000		1.091		0.888		\$7,998,751
	06/30/2018	8,070,404		1.001		1.064		0.893		7,675,779
	06/30/2019	7,853,753		1.015		1.033		0.897		7,386,455
TOTAL	06/30/2017									\$11,441,669
	06/30/2018									11,094,885
	06/30/2019									10,680,083

+ THE DERIVATION OF THE EXPOSURE DEVELOPMENT FACTOR IS SHOWN IN SECTION E - CALCULATION OF STATE EXPOSURE DEVELOPMENT FACTORS.

# AGGREGATE LOSS COSTS AT CURRENT LEVEL HAVE BEEN TRENDED FROM AN AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 02/01/2021 BY AN EXPONENTIAL PROJECTION OF THE AVERAGE ANNUAL EXPOSURE TREND FACTOR. THE DERIVATION OF THIS EXPOSURE TREND FACTOR IS SHOWN IN SECTION E - AVERAGE ANNUAL EXPOSURE TRENDS.

\* THE IMPLICIT PACKAGE MODIFICATION FACTORS APPLIED TO THE DATA FOR INDIVIDUAL PROGRAMS ARE SHOWN IN SECTION E - IMPLICIT PACKAGE MODIFICATION FACTORS BY TYPE OF POLICY.

KENTUCKY  
MANUFACTURERS AND CONTRACTORS  
OCCURRENCE  
FULL COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	B/L INDEMNITY DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	06/30/2017	\$1,739,353		0.930		1.085		1.251		1.000		\$2,195,623
		06/30/2018	2,366,158		1.021		1.085		1.197		1.000		3,137,570
		06/30/2019	1,318,325		1.607		1.085		1.145		1.000		2,631,925
BI	ALAE	06/30/2017	\$1,648,396				1.085		1.251		1.000		\$2,237,426
		06/30/2018	2,667,439				1.085		1.197		1.000		3,464,323
		06/30/2019	1,747,558				1.085		1.145		1.000		2,171,035
PD	B/L INDEMNITY	06/30/2017	\$2,218,477		1.027		1.085		1.251		1.000		\$3,092,519
		06/30/2018	3,003,016		1.058		1.085		1.197		1.000		4,126,361
		06/30/2019	1,880,892		1.162		1.085		1.145		1.000		2,715,221
PD	ALAE	06/30/2017	\$414,489				1.085		1.251		1.000		\$562,600
		06/30/2018	717,635				1.085		1.197		1.000		932,025
		06/30/2019	495,596				1.085		1.145		1.000		615,691
MED PAY#	B/L INDEMNITY	06/30/2017	\$95,023				1.085		1.251		1.000		\$128,978
		06/30/2018	81,339				1.085		1.197		1.000		105,639
		06/30/2019	89,869				1.085		1.145		1.000		111,647
FRINGE	B/L INDEMNITY	06/30/2017	\$106,165		1.086		1.085		1.000		1.000		\$125,095
		06/30/2018	179,100		1.199		1.085		1.000		1.000		232,994
		06/30/2019	84,672		1.581		1.085		1.000		1.000		145,245
FRINGE	ALAE	06/30/2017	\$65,441				1.085		1.000		1.000		\$71,004
		06/30/2018	182,153				1.085		1.000		1.000		197,636
		06/30/2019	124,061				1.085		1.000		1.000		134,606
	TOTAL FULL COVERAGE	06/30/2017											\$8,413,245
		06/30/2018											12,196,547
		06/30/2019											8,525,371

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.

# No development is applied for Medical Payments losses. See Section B.



KENTUCKY  
MANUFACTURERS AND CONTRACTORS  
OCCURRENCE  
DED COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	B/L INDEMNITY DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	06/30/2017	\$386,775		1.148		1.085		1.251		1.000		\$602,681
		06/30/2018	308,837		1.506		1.085		1.197		1.000		604,057
		06/30/2019	71,000		2.405		1.085		1.145		1.000		212,133
BI	ALAE	06/30/2017	\$362,266				1.085		1.251		1.000		\$491,716
		06/30/2018	220,941				1.085		1.197		1.000		286,946
		06/30/2019	55,298				1.085		1.145		1.000		68,698
PD	B/L INDEMNITY	06/30/2017	\$537,887		1.032		1.085		1.251		1.000		\$753,456
		06/30/2018	590,978		1.072		1.085		1.197		1.000		822,792
		06/30/2019	558,797		1.171		1.085		1.145		1.000		812,917
PD	ALAE	06/30/2017	\$181,974				1.085		1.251		1.000		\$247,000
		06/30/2018	252,754				1.085		1.197		1.000		328,263
		06/30/2019	123,874				1.085		1.145		1.000		153,892
MED PAY#	B/L INDEMNITY	06/30/2017	\$5,000				1.085		1.251		1.000		\$6,787
		06/30/2018	10,717				1.085		1.197		1.000		13,919
		06/30/2019	0				1.085		1.145		1.000		0
	TOTAL DED COVERAGE	06/30/2017											\$2,101,639
		06/30/2018											2,055,977
		06/30/2019											1,247,640
	TOTAL	06/30/2017											\$10,514,884
		06/30/2018											14,252,524
		06/30/2019											9,773,011

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.

# No development is applied for Medical Payments losses. See Section B.

KENTUCKY  
OWNERS, LANDLORDS & TENANTS  
CALCULATION OF AGGREGATE LOSS COSTS  
AT CURRENT LEVEL  
COMBINED SINGLE LIMIT

TYPE OF POLICY -----	ACCIDENT YEAR ENDING -----	\$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----	X	EXPOSURE DEVELOPMENT FACTOR+ -----	X	EXPOSURE TREND# -----	X	AVERAGE IPMF* -----	=	TRENDED \$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----
MONOLINE	06/30/2017	\$4,624,757		1.000		1.023				\$4,731,126
	06/30/2018	4,613,821		1.000		1.018				4,696,870
	06/30/2019	4,279,392		0.997		1.014				4,326,286
MULTILINE	06/30/2017	\$15,476,785		1.000		1.018		1.061		\$16,716,444
	06/30/2018	15,388,042		1.000		1.014		1.061		16,555,286
	06/30/2019	14,789,070		0.997		1.010		1.061		15,800,571
TOTAL	06/30/2017									\$21,447,570
	06/30/2018									21,252,156
	06/30/2019									20,126,857

+ THE DERIVATION OF THE EXPOSURE DEVELOPMENT FACTOR IS SHOWN IN SECTION E - CALCULATION OF STATE EXPOSURE DEVELOPMENT FACTORS.

# AGGREGATE LOSS COSTS AT CURRENT LEVEL HAVE BEEN TRENDED FROM AN AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 02/01/2021 BY AN EXPONENTIAL PROJECTION OF THE AVERAGE ANNUAL EXPOSURE TREND FACTOR. THE DERIVATION OF THIS EXPOSURE TREND FACTOR IS SHOWN IN SECTION E - AVERAGE ANNUAL EXPOSURE TRENDS.

\* THE IMPLICIT PACKAGE MODIFICATION FACTORS APPLIED TO THE DATA FOR INDIVIDUAL PROGRAMS ARE SHOWN IN SECTION E - IMPLICIT PACKAGE MODIFICATION FACTORS BY TYPE OF POLICY.

KENTUCKY  
OWNERS, LANDLORDS AND TENANTS  
OCCURRENCE  
FULL COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	B/L INDEMNITY DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	06/30/2017	\$9,883,697		0.925		1.085		1.221		0.975		\$11,808,947
		06/30/2018	9,340,850		0.950		1.085		1.174		0.980		11,077,300
		06/30/2019	7,726,605		1.270		1.085		1.129		0.985		11,840,017
BI	ALAE	06/30/2017	\$4,256,350				1.085		1.221		0.975		\$5,497,780
		06/30/2018	3,973,354				1.085		1.174		0.980		4,959,994
		06/30/2019	4,910,386				1.085		1.129		0.985		5,924,825
PD	B/L INDEMNITY	06/30/2017	\$1,070,229		1.037		1.085		1.281		0.975		\$1,503,969
		06/30/2018	927,952		1.083		1.085		1.220		0.980		1,303,676
		06/30/2019	525,742		1.296		1.085		1.162		0.985		846,155
PD	ALAE	06/30/2017	\$491,113				1.085		1.281		0.975		\$665,526
		06/30/2018	549,908				1.085		1.220		0.980		713,355
		06/30/2019	302,960				1.085		1.162		0.985		376,233
MED PAY#	B/L INDEMNITY	06/30/2017	\$915,044				1.085		1.221		0.975		\$1,181,931
		06/30/2018	1,101,675				1.085		1.174		0.980		1,375,237
		06/30/2019	944,981				1.085		1.129		0.985		1,140,205
FRINGE	B/L INDEMNITY	06/30/2017	\$598,353		1.043		1.085		1.052		0.975		\$694,531
		06/30/2018	585,676		1.276		1.085		1.041		0.980		827,208
		06/30/2019	171,381		1.665		1.085		1.031		0.985		314,414
FRINGE	ALAE	06/30/2017	\$1,288,263				1.085		1.052		0.975		\$1,433,688
		06/30/2018	1,149,733				1.085		1.041		0.980		1,272,634
		06/30/2019	446,786				1.085		1.031		0.985		492,294
	TOTAL FULL COVERAGE	06/30/2017											\$22,786,372
		06/30/2018											21,529,403
		06/30/2019											20,934,143

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.  
# No development is applied for Medical Payments losses. See Section B.

KENTUCKY  
OWNERS, LANDLORDS AND TENANTS  
OCCURRENCE  
DED COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	B/L INDEMNITY DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	06/30/2017	\$544,314		1.040		1.085		1.221		0.975		\$731,194
		06/30/2018	405,482		1.251		1.085		1.174		0.980		633,217
		06/30/2019	280,134		1.737		1.085		1.129		0.985		587,118
BI	ALAE	06/30/2017	\$383,689				1.085		1.221		0.975		\$495,598
		06/30/2018	276,956				1.085		1.174		0.980		345,728
		06/30/2019	225,532				1.085		1.129		0.985		272,125
PD	B/L INDEMNITY	06/30/2017	\$18,783		1.194		1.085		1.281		0.975		\$30,392
		06/30/2018	44,917		1.225		1.085		1.220		0.980		71,378
		06/30/2019	15,267		1.350		1.085		1.162		0.985		25,595
PD	ALAE	06/30/2017	\$4,167				1.085		1.281		0.975		\$5,647
		06/30/2018	13,907				1.085		1.220		0.980		18,041
		06/30/2019	8,968				1.085		1.162		0.985		11,137
MED PAY#	B/L INDEMNITY	06/30/2017	\$7,545				1.085		1.221		0.975		\$9,746
		06/30/2018	12,982				1.085		1.174		0.980		16,206
		06/30/2019	15,000				1.085		1.129		0.985		18,099
	TOTAL DED COVERAGE	06/30/2017											\$1,272,576
		06/30/2018											1,084,569
		06/30/2019											914,074
	TOTAL	06/30/2017											\$24,058,948
		06/30/2018											22,613,973
		06/30/2019											21,848,217

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.

# No development is applied for Medical Payments losses. See Section B.

KENTUCKY  
Premises/Operations  
Manufacturers and Contractors  
Subline Code 334  
Combined Single Limit

Implicit Package Modification Factors (A) by Type of Policy

Type of Policy (B) -----	Description -----	Implicit Package Modification Factors -----
31	Not Applicable	--
32	Not Applicable	--
33	Office Policy	0.657
34	Mercantile Policy	0.831
35	Institutional Policy	0.500
36	Service Policy	0.875
37	Industrial/Processing Policy	1.236
38	Contractors Policy	0.856

- (A) Implicit Package Modification Factors shown above reflect the package modifications currently in the ISO manual for M&C for each type of package policy. More specifically, the G.L. and Property Implicit Package Modification Factors are calculated so that they average to the current manual CPP modification factors that apply to both property and liability.
- (B) Combined data for risks written under the ISO CPP Program and individual insurer CMP programs have been used. These Implicit Package Modification Factors were applied to the aggregate loss costs at current level in each accident year. The average implicit package modification factor for each accident year is shown in Section E - Calculation of Aggregate Loss Costs at Current Level. The difference in average implicit package modification factor results from varying aggregate loss-costs-at-current-level distributions by Type of Policy in each year.

KENTUCKY  
Premises/Operations  
Owners, Landlords, and Tenants  
Subline Code 334  
Combined Single Limit

Implicit Package Modification Factors (A) by Type of Policy

Type of Policy (B) -----	Description -----	Implicit Package Modification Factors -----
31	Motel/Hotel Policy	1.000
32	Apartment House Policy	1.000
33	Office Policy	1.008
34	Mercantile Policy	1.096
35	Institutional Policy	1.041
36	Service Policy	1.189
37	Not Applicable	--
38	Not Applicable	--

(A) Implicit Package Modification Factors shown above reflect the package modifications currently in the ISO manual for OL&T for each type of package policy. More specifically, the G.L. and Property Implicit Package Modification Factors are calculated so that they average to the current manual CPP modification factors that apply to both property and liability.

(B) Combined data for risks written under the ISO CPP Program and individual insurer CMP programs have been used. These Implicit Package Modification Factors were applied to the aggregate loss costs at current level in each accident year. The average implicit package modification factor for each accident year is shown in Section E - Calculation of Aggregate Loss Costs at Current Level. The difference in average implicit package modification factor results from varying aggregate loss-costs-at-current-level distributions by Type of Policy in each year.

KENTUCKY

PREMISES/OPERATIONS  
MANUFACTURERS AND CONTRACTORS

FULL & DEDUCTIBLE COMBINED  
TOTAL LIMITS PREMIUM

CALCULATION OF EXPOSURE DEVELOPMENT FACTORS

(1) Evaluation Period	(2) Multistate Ratio (a)	(3) State Ratio (b)	(4) <u>Credibility (c)</u>	(5) Weighted Ratio (d)	(6) Credibility Constant(Ki)
15 to 27 Months	1.026	1.009	0.6893	1.014	26,000,000
27 to 39 Months	1.001	1.000	0.4177	1.001	80,000,000
Accident Year Ending	Exposure Development From				
	<u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>		<u>Factor</u>
6/30/2017			1.000		1.000
6/30/2018		1.001	1.000		1.001
6/30/2019	1.014	1.001	1.000		1.015

(a) See Section E - Multistate Premium Development.

(b) See Section E - Statewide Premium Development.

(c) Credibility is based upon the statewide premium for each evaluation period. Exposures are assumed to be mature at 39 months.

(d)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$

KENTUCKY

PREMISES/OPERATIONS  
OWNERS LANDLORDS AND TENANTS

FULL & DEDUCTIBLE COMBINED  
TOTAL LIMITS PREMIUM

CALCULATION OF EXPOSURE DEVELOPMENT FACTORS

(1) Evaluation Period	(2) Multistate Ratio (a)	(3) State Ratio (b)	(4) <u>Credibility (c)</u>	(5) Weighted Ratio (d)	(6) Credibility Constant(Ki)
15 to 27 Months	1.004	0.990	0.5121	0.997	75,000,000
27 to 39 Months	1.000	1.000	0.2590	1.000	222,000,000
Accident Year Ending	<u>27:15</u>	Exposure Development From		<u>39:27</u>	<u>ULT:39</u>
6/30/2017			1.000		1.000
6/30/2018		1.000	1.000		1.000
6/30/2019	0.997	1.000	1.000		0.997

(a) See Section E - Multistate Premium Development.

(b) See Section E - Statewide Premium Development.

(c) Credibility is based upon the statewide premium for each evaluation period. Exposures are assumed to be mature at 39 months.

(d)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$



KENTUCKY  
MANUFACTURERS AND CONTRACTORS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 334  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
6/30/2012	15,276,256	15,580,976	15,228,444	15,226,812	15,226,812	15,226,863	15,226,863	15,226,863
6/30/2013	16,361,350	16,311,252	16,291,781	16,296,508	16,296,833	16,305,513	16,305,511	
6/30/2014	17,757,141	17,957,264	17,962,779	17,979,326	18,047,827	18,047,914		
6/30/2015	18,424,002	18,519,344	18,526,793	18,545,219	18,544,210			
6/30/2016	18,936,320	19,234,766	19,239,146	19,236,052				
6/30/2017	19,417,365	19,642,724	19,654,906					
6/30/2018	19,326,960	19,107,750						
6/30/2019	19,141,651							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
6/30/2012	1.020	0.977	1.000	1.000	1.000	1.000	1.000
6/30/2013	0.997	0.999	1.000	1.000	1.001	1.000	
6/30/2014	1.011	1.000	1.001	1.004	1.000		
6/30/2015	1.005	1.000	1.001	1.000			
6/30/2016	1.016	1.000	1.000				
6/30/2017	1.012	1.001					
6/30/2018	0.989						
6/30/2019							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.009	1.000

KENTUCKY  
OWNERS LANDLORDS AND TENANTS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 334  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
6/30/2012	21,124,297	21,212,427	21,099,443	21,099,524	21,099,553	21,099,689	21,099,689	21,099,265
6/30/2013	22,143,471	21,546,907	21,554,476	21,578,869	21,579,303	21,579,303	21,577,833	
6/30/2014	24,292,411	23,408,378	24,226,888	24,231,109	24,230,043	24,228,568		
6/30/2015	25,402,618	25,869,518	25,863,905	25,869,646	25,868,763			
6/30/2016	25,768,540	25,435,367	25,416,402	25,420,593				
6/30/2017	26,270,843	26,283,613	26,171,659					
6/30/2018	26,665,418	26,196,249						
6/30/2019	26,306,709							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
6/30/2012	1.004	0.995	1.000	1.000	1.000	1.000	1.000
6/30/2013	0.973	1.000	1.001	1.000	1.000	1.000	
6/30/2014	0.964	1.035	1.000	1.000	1.000		
6/30/2015	1.018	1.000	1.000	1.000			
6/30/2016	0.987	0.999	1.000				
6/30/2017	1.000	0.996					
6/30/2018	0.982						
6/30/2019							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
0.990	1.000

MULTISTATE  
MANUFACTURERS AND CONTRACTORS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 334  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
6/30/2012	1,431,881,874	1,486,732,089	1,406,909,274	1,406,634,858	1,406,854,875	1,407,090,813	1,407,072,643	1,407,086,359
6/30/2013	1,479,103,068	1,465,979,221	1,467,864,691	1,468,923,067	1,468,990,272	1,469,008,918	1,468,899,617	
6/30/2014	1,521,066,626	1,569,181,782	1,572,502,561	1,573,176,061	1,573,367,945	1,573,176,888		
6/30/2015	1,603,604,030	1,646,733,499	1,646,755,193	1,646,986,523	1,646,774,319			
6/30/2016	1,608,801,269	1,650,330,526	1,646,454,838	1,646,639,427				
6/30/2017	1,657,549,629	1,697,607,069	1,699,785,737					
6/30/2018	1,727,251,552	1,763,080,169						
6/30/2019	1,814,205,861							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
6/30/2012	1.038	0.946	1.000	1.000	1.000	1.000	1.000
6/30/2013	0.991	1.001	1.001	1.000	1.000	1.000	
6/30/2014	1.032	1.002	1.000	1.000	1.000		
6/30/2015	1.027	1.000	1.000	1.000			
6/30/2016	1.026	0.998	1.000				
6/30/2017	1.024	1.001					
6/30/2018	1.021						
6/30/2019							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.026	1.001

MULTISTATE  
OWNERS LANDLORDS AND TENANTS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 334  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
6/30/2012	1,718,772,375	1,741,972,425	1,716,394,261	1,716,338,138	1,716,308,378	1,716,329,776	1,716,492,293	1,716,486,098
6/30/2013	1,805,233,802	1,800,647,941	1,801,350,703	1,803,581,181	1,803,966,410	1,803,831,226	1,803,811,407	
6/30/2014	1,920,660,718	1,950,430,582	1,950,323,695	1,951,306,159	1,951,050,962	1,950,954,425		
6/30/2015	2,072,411,534	2,078,411,845	2,078,568,354	2,077,647,990	2,077,488,960			
6/30/2016	2,174,078,972	2,178,999,363	2,178,348,854	2,177,910,186				
6/30/2017	2,194,941,126	2,209,998,181	2,208,348,809					
6/30/2018	2,233,470,370	2,236,613,787						
6/30/2019	2,281,050,640							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
6/30/2012	1.013	0.985	1.000	1.000	1.000	1.000	1.000
6/30/2013	0.997	1.000	1.001	1.000	1.000	1.000	
6/30/2014	1.015	1.000	1.001	1.000	1.000		
6/30/2015	1.003	1.000	1.000	1.000			
6/30/2016	1.002	1.000	1.000				
6/30/2017	1.007	0.999					
6/30/2018	1.001						
6/30/2019							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.004	1.000

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KENTUCKY

Premises/Operations

Manufacturers & Contractors

Bodily Injury

Full Coverage

Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.590	1.567	0.6963	1.574	1,300,000
27 to 39 Months	1.330	1.022	0.7523	1.098	1,600,000
39 to 51 Months	1.072	0.908	0.7645	0.947	1,800,000
51 to 63 Months	0.999	0.990	0.7316	0.992	2,200,000
63 to 75 Months	0.994	0.993	0.6665	0.993	2,600,000
75 to 87 Months	0.998	0.998	0.5980	0.998	3,100,000
87 to 99 Months	0.997	0.986	0.5380	0.991	3,600,000
99 to 111 Months	0.999	1.000	0.4966	0.999	4,300,000
111 to 123 Months	0.999	1.000	0.4690	0.999	5,100,000
123 to 135 Months	1.001	1.000	0.3980	1.001	6,000,000
135 to 147 Months	1.001	1.000	0.3396	1.001	7,100,000
147 to 159 Months	1.000	1.000	0.2676	1.000	8,500,000
159 to 171 Months	1.000	1.000	0.2317	1.000	10,100,000
171 to 183 Months	1.000	1.000	0.2219	1.000	12,000,000
183 to 195 Months	1.000	1.000	0.2171	1.000	14,300,000
195 to 207 Months	1.001	1.000	0.2181	1.001	17,000,000
207 to 219 Months	1.001	1.000	0.1810	1.001	20,300,000
219 to 231 Months	1.001	1.000	0.0990	1.001	24,100,000
231 to 243 Months	1.001	1.000	0.0336	1.001	28,800,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
6/30/2017			0.947	0.992	0.993	0.998	0.991	0.999	0.999	1.001	1.001
6/30/2018		1.098	0.947	0.992	0.993	0.998	0.991	0.999	0.999	1.001	1.001
6/30/2019	1.574	1.098	0.947	0.992	0.993	0.998	0.991	0.999	0.999	1.001	1.001
	<u>159:147</u>	<u>171:159</u>	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	<u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>ULT:243</u>		<u>Factor</u>
6/30/2017	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004		0.930
6/30/2018	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004		1.021
6/30/2019	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004		1.607

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$

KENTUCKY

Premises/Operations

Manufacturers & Contractors  
Bodily Injury  
Full and Deductible Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1) EVALUATION PERIOD	(2) MULTISTATE RATIO (A)	(3) STATE RATIO (B)	(4) CREDIBILITY (C)	(5) WEIGHTED RATIO (D)	Credibility Constant (K <sub>i</sub> )
15 to 27 Months	0.0650	0.1278	0.6963	0.1088	1,300,000
27 to 39 Months	0.0999	0.1085	0.7523	0.1064	1,600,000
39 to 51 Months	0.0891	0.0943	0.7645	0.0931	1,800,000
51 to 63 Months	0.0446	0.0176	0.7316	0.0248	2,200,000
63 to 75 Months	0.0252	0.0321	0.6665	0.0298	2,600,000
75 to 87 Months	0.0096	0.0110	0.5980	0.0104	3,100,000
87 to 99 Months	0.0054	0.0003	0.5380	0.0026	3,600,000
99 to 111 Months	0.0029	0.0000	0.4966	0.0015	4,300,000
111 to 123 Months	0.0023	0.0000	0.4690	0.0012	5,100,000
123 to 135 Months	0.0011	0.0000	0.3980	0.0007	6,000,000
135 to 147 Months	0.0005	0.0000	0.3396	0.0003	7,100,000
147 to 159 Months	0.0012	0.0000	0.2676	0.0009	8,500,000
159 to 171 Months	0.0008	0.0000	0.2317	0.0006	10,100,000
171 to Ultimate	A multistate ratio of 0.0000 has been used.				

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.381	0.272	0.166	0.073	0.048	0.018	0.008
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.005	0.004	0.002	0.002	0.001	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	1,080,912	3,418,566	0.166	567,484	1,648,396
6/30/2018	1,222,884	5,310,858	0.272	1,444,555	2,667,439
6/30/2019	78,413	4,380,956	0.381	1,669,145	1,747,558

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	225,122	826,168	0.166	137,144	362,266
6/30/2018	115,264	388,517	0.272	105,677	220,941
6/30/2019	7	145,124	0.381	55,291	55,298

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D) {(3) x (4)} + {(2) x {1.000-(4)}}

KENTUCKY

Premises/Operations

Manufacturers & Contractors

Property Damage

Full Coverage

Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.111	1.091	0.6512	1.098	2,800,000
27 to 39 Months	1.051	1.018	0.6439	1.030	2,900,000
39 to 51 Months	1.015	0.994	0.6197	1.002	3,000,000
51 to 63 Months	1.006	0.989	0.5747	0.996	3,200,000
63 to 75 Months	1.006	1.001	0.5896	1.003	3,300,000
75 to 87 Months	1.005	1.002	0.5862	1.003	3,500,000
87 to 99 Months	1.005	1.008	0.5856	1.007	3,600,000
99 to 111 Months	1.006	1.000	0.5695	1.003	3,800,000
111 to 123 Months	1.003	1.000	0.5622	1.001	4,000,000
123 to 135 Months	1.001	1.000	0.5651	1.000	4,200,000
135 to 147 Months	1.002	1.000	0.5095	1.001	4,400,000
147 to 159 Months	1.002	1.000	0.4898	1.001	4,600,000
159 to 171 Months	1.002	1.000	0.4447	1.001	4,800,000
171 to 183 Months	1.001	1.000	0.4546	1.001	5,000,000
183 to 195 Months	1.001	1.000	0.4541	1.001	5,300,000
195 to 207 Months	1.001	1.000	0.4900	1.001	5,600,000
207 to 219 Months	1.001	1.000	0.5081	1.000	5,800,000
219 to 231 Months	1.001	1.000	0.3992	1.001	6,100,000
231 to 243 Months	1.001	1.000	0.2342	1.001	6,400,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
6/30/2017			1.002	0.996	1.003	1.003	1.007	1.003	1.001	1.000	1.001
6/30/2018		1.030	1.002	0.996	1.003	1.003	1.007	1.003	1.001	1.000	1.001
6/30/2019	1.098	1.030	1.002	0.996	1.003	1.003	1.007	1.003	1.001	1.000	1.001
	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243		Factor
6/30/2017	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.004		1.027
6/30/2018	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.004		1.058
6/30/2019	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.004		1.162

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$



KENTUCKY

Premises/Operations

Manufacturers & Contractors  
Property Damage  
Full and Deductible Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1) EVALUATION PERIOD	(2) MULTISTATE RATIO (A)	(3) STATE RATIO (B)	(4) CREDIBILITY (C)	(5) WEIGHTED RATIO (D)	Credibility Constant (K <sub>i</sub> )
15 to 27 Months	0.0451	0.0024	0.6512	0.0173	2,800,000
27 to 39 Months	0.0490	0.0223	0.6439	0.0318	2,900,000
39 to 51 Months	0.0410	0.0251	0.6197	0.0311	3,000,000
51 to 63 Months	0.0339	-0.0022	0.5747	0.0132	3,200,000
63 to 75 Months	0.0179	0.0190	0.5896	0.0185	3,300,000
75 to 87 Months	0.0099	0.0057	0.5862	0.0074	3,500,000
87 to 99 Months	0.0084	0.0020	0.5856	0.0046	3,600,000
99 to 111 Months	0.0109	0.0012	0.5695	0.0054	3,800,000
111 to 123 Months	0.0072	0.0000	0.5622	0.0031	4,000,000
123 to 135 Months	0.0047	0.0000	0.5651	0.0021	4,200,000
135 to 147 Months	0.0043	0.0000	0.5095	0.0021	4,400,000
147 to 159 Months	0.0043	0.0000	0.4898	0.0022	4,600,000
159 to 171 Months	0.0042	0.0000	0.4447	0.0023	4,800,000
171 to Ultimate	A multistate ratio of 0.0000 has been used.				

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.141	0.124	0.092	0.061	0.048	0.029	0.022
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.017	0.012	0.009	0.007	0.004	0.002	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	164,312	2,719,257	0.092	250,177	414,489
6/30/2018	248,252	3,785,332	0.124	469,383	717,635
6/30/2019	73,303	2,995,002	0.141	422,293	495,596

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	89,215	1,008,228	0.092	92,759	181,974
6/30/2018	165,232	705,813	0.124	87,522	252,754
6/30/2019	18,546	746,995	0.141	105,328	123,874

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000 - (4)\}\}$

KENTUCKY

Premises/Operations

Manufacturers & Contractors

Fringe

Full Coverage

ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.1546
27 to 39 Months	0.1652
39 to 51 Months	0.1422
51 to 63 Months	0.0973
63 to 75 Months	0.0441
75 to 87 Months	0.0581
87 to 99 Months	0.0071
99 to 111 Months	0.0174
111 to 123 Months	0.0019
123 to 135 Months	0.0005
135 to 147 Months	0.0005
147 to 159 Months	0.0002
159 to 171 Months	0.0021
171 to Ultimate	A multistate ratio of 0.0000 has been used.

  

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.691	0.537	0.371	0.229	0.132	0.088	0.030

  

<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.023	0.005	0.003	0.003	0.002	0.002	0.000

  

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	16,365	132,281	0.371	49,076	65,441
6/30/2018	4,077	331,614	0.537	178,076	182,153
6/30/2019	1,077	177,980	0.691	122,984	124,061

(A) See Section E - Multistate Loss Development.

Note: Fringe Incremental ALAE Factors are calculated using multistate data.

KENTUCKY

Premises/Operations

Owners, Landlords & Tenants

Bodily Injury

Full Coverage

Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.398	1.330	0.9119	1.336	1,600,000
27 to 39 Months	1.183	1.014	0.9147	1.028	2,100,000
39 to 51 Months	1.049	0.938	0.8960	0.950	2,700,000
51 to 63 Months	0.999	0.998	0.8673	0.998	3,400,000
63 to 75 Months	0.993	0.984	0.8299	0.986	4,300,000
75 to 87 Months	0.994	0.991	0.7718	0.992	5,500,000
87 to 99 Months	0.996	1.001	0.7200	1.000	7,100,000
99 to 111 Months	0.998	0.997	0.6803	0.997	9,000,000
111 to 123 Months	1.000	0.998	0.6051	0.999	11,600,000
123 to 135 Months	1.000	1.000	0.5327	1.000	14,800,000
135 to 147 Months	1.000	1.000	0.4412	1.000	19,000,000
147 to 159 Months	1.000	1.000	0.3574	1.000	24,400,000
159 to 171 Months	1.001	1.000	0.2955	1.001	31,400,000
171 to 183 Months	1.000	1.000	0.2418	1.000	40,300,000
183 to 195 Months	1.000	1.000	0.1921	1.000	52,000,000
195 to 207 Months	1.000	1.000	0.1422	1.000	67,000,000
207 to 219 Months	1.000	1.000	0.1185	1.000	86,500,000
219 to 231 Months	1.000	1.000	0.0690	1.000	111,700,000
231 to 243 Months	1.000	1.000	0.0309	1.000	144,600,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
6/30/2017			0.950	0.998	0.986	0.992	1.000	0.997	0.999	1.000	1.000
6/30/2018		1.028	0.950	0.998	0.986	0.992	1.000	0.997	0.999	1.000	1.000
6/30/2019	1.336	1.028	0.950	0.998	0.986	0.992	1.000	0.997	0.999	1.000	1.000
	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243		Factor
6/30/2017	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		0.925
6/30/2018	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		0.950
6/30/2019	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.270

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$

KENTUCKY

Premises/Operations

Owners, Landlords & Tenants  
Bodily Injury  
Full and Deductible Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1) EVALUATION PERIOD	(2) MULTISTATE RATIO (A)	(3) STATE RATIO (B)	(4) CREDIBILITY (C)	(5) WEIGHTED RATIO (D)	Credibility Constant (K <sub>i</sub> )
15 to 27 Months	0.0675	0.1011	0.9119	0.0982	1,600,000
27 to 39 Months	0.0813	0.0818	0.9147	0.0818	2,100,000
39 to 51 Months	0.0593	0.0493	0.8960	0.0503	2,700,000
51 to 63 Months	0.0287	0.0276	0.8673	0.0278	3,400,000
63 to 75 Months	0.0133	0.0122	0.8299	0.0124	4,300,000
75 to 87 Months	0.0059	0.0084	0.7718	0.0078	5,500,000
87 to 99 Months	0.0034	0.0046	0.7200	0.0043	7,100,000
99 to 111 Months	0.0032	0.0010	0.6803	0.0017	9,000,000
111 to 123 Months	0.0013	0.0002	0.6051	0.0006	11,600,000
123 to 135 Months	0.0012	0.0000	0.5327	0.0006	14,800,000
135 to 147 Months	0.0005	0.0001	0.4412	0.0003	19,000,000
147 to 159 Months	0.0009	0.0000	0.3574	0.0006	24,400,000
159 to 171 Months	0.0009	0.0000	0.2955	0.0006	31,400,000
171 to Ultimate	A multistate ratio of 0.0000 has been used.				

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.287	0.189	0.107	0.057	0.029	0.017	0.009
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.004	0.003	0.002	0.002	0.001	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	2,726,034	14,302,019	0.107	1,530,316	4,256,350
6/30/2018	1,473,282	13,227,897	0.189	2,500,072	3,973,354
6/30/2019	476,462	15,449,222	0.287	4,433,924	4,910,386

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	278,087	986,929	0.107	105,602	383,689
6/30/2018	159,881	619,439	0.189	117,075	276,956
6/30/2019	86,378	484,860	0.287	139,154	225,532

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D) {(3) x (4)} + {(2) x {1.000-(4)}}

KENTUCKY

Premises/Operations

Owners, Landlords & Tenants

Property Damage

Full Coverage

Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.128	1.239	0.6192	1.197	1,100,000
27 to 39 Months	1.053	1.039	0.6168	1.044	1,300,000
39 to 51 Months	1.029	0.980	0.5369	1.003	1,500,000
51 to 63 Months	1.010	1.036	0.4764	1.022	1,700,000
63 to 75 Months	1.004	0.964	0.3828	0.989	1,900,000
75 to 87 Months	1.007	1.000	0.3113	1.005	2,200,000
87 to 99 Months	1.001	1.000	0.2906	1.001	2,500,000
99 to 111 Months	1.005	1.000	0.3520	1.003	2,700,000
111 to 123 Months	1.003	1.000	0.3379	1.002	3,100,000
123 to 135 Months	1.001	1.000	0.3302	1.001	3,600,000
135 to 147 Months	1.001	1.000	0.2956	1.001	4,100,000
147 to 159 Months	1.000	1.000	0.2984	1.000	4,600,000
159 to 171 Months	1.000	1.000	0.2575	1.000	5,200,000
171 to 183 Months	1.000	1.000	0.2145	1.000	6,000,000
183 to 195 Months	1.001	1.000	0.2044	1.001	6,700,000
195 to 207 Months	1.002	1.000	0.1855	1.002	7,700,000
207 to 219 Months	1.001	1.000	0.1645	1.001	8,700,000
219 to 231 Months	1.001	1.000	0.0944	1.001	9,900,000
231 to 243 Months	1.001	1.000	0.0472	1.001	11,300,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
6/30/2017			1.003	1.022	0.989	1.005	1.001	1.003	1.002	1.001	1.001
6/30/2018		1.044	1.003	1.022	0.989	1.005	1.001	1.003	1.002	1.001	1.001
6/30/2019	1.197	1.044	1.003	1.022	0.989	1.005	1.001	1.003	1.002	1.001	1.001
	<u>159:147</u>	<u>171:159</u>	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	<u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>ULT:243</u>		<u>Factor</u>
6/30/2017	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004		1.037
6/30/2018	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004		1.083
6/30/2019	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004		1.296

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$

KENTUCKY

Premises/Operations

Owners, Landlords & Tenants  
Property Damage  
Full and Deductible Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1) EVALUATION PERIOD	(2) MULTISTATE RATIO (A)	(3) STATE RATIO (B)	(4) CREDIBILITY (C)	(5) WEIGHTED RATIO (D)	Credibility Constant (K <sub>i</sub> )
15 to 27 Months	0.0754	0.0438	0.6192	0.0558	1,100,000
27 to 39 Months	0.0908	0.0560	0.6168	0.0693	1,300,000
39 to 51 Months	0.0711	0.0595	0.5369	0.0649	1,500,000
51 to 63 Months	0.0462	0.0735	0.4764	0.0592	1,700,000
63 to 75 Months	0.0343	-0.0270	0.3828	0.0109	1,900,000
75 to 87 Months	0.0181	0.0000	0.3113	0.0125	2,200,000
87 to 99 Months	0.0198	0.0000	0.2906	0.0141	2,500,000
99 to 111 Months	0.0167	0.0000	0.3520	0.0108	2,700,000
111 to 123 Months	0.0110	0.0000	0.3379	0.0073	3,100,000
123 to 135 Months	0.0104	0.0000	0.3302	0.0070	3,600,000
135 to 147 Months	0.0057	0.0000	0.2956	0.0040	4,100,000
147 to 159 Months	0.0020	0.0000	0.2984	0.0014	4,600,000
159 to 171 Months	0.0018	0.0000	0.2575	0.0014	5,200,000
171 to Ultimate	A multistate ratio of 0.0000 has been used.				

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.318	0.263	0.193	0.128	0.069	0.058	0.046
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.032	0.021	0.014	0.007	0.003	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	232,675	1,339,061	0.193	258,438	491,113
6/30/2018	141,279	1,553,707	0.263	408,629	549,908
6/30/2019	12,893	912,163	0.318	290,067	302,960

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	157	20,774	0.193	4,010	4,167
6/30/2018	86	52,552	0.263	13,821	13,907
6/30/2019	545	26,489	0.318	8,423	8,968

(A) See Section E - Multistate Loss Development.

(B) See Section E - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D) {(3) x (4)} + {(2) x {1.000-(4)}}

KENTUCKY

Premises/Operations

Owners, Landlords & Tenants  
Fringe  
Full Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.2469
27 to 39 Months	0.1929
39 to 51 Months	0.2011
51 to 63 Months	0.1516
63 to 75 Months	0.1313
75 to 87 Months	0.0839
87 to 99 Months	0.0322
99 to 111 Months	0.0070
111 to 123 Months	0.0126
123 to 135 Months	0.0053
135 to 147 Months	0.0033
147 to 159 Months	0.0169
159 to 171 Months	0.0031
171 to Ultimate	A multistate ratio of 0.0000 has been used.

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	1.088	0.841	0.648	0.447	0.296	0.164	0.080
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.048	0.041	0.029	0.023	0.020	0.003	0.000

A.Y.E.	Reported ALAE as of 9/30/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2017	320,003	1,494,228	0.648	968,260	1,288,263
6/30/2018	149,289	1,189,590	0.841	1,000,444	1,149,733
6/30/2019	14,938	396,918	1.088	431,848	446,786

(A) See Section E - Multistate Loss Development.

Note: Fringe Incremental ALAE Factors are calculated using multistate data.

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	804,160	1,094,092	1,185,011	1,124,722	1,071,221	1,024,559	1,000,059	1,000,059	1,000,059	1,000,059	1,000,059
6/30/2001	1,134,022	1,535,740	1,651,077	1,624,165	1,705,166	1,659,162	1,649,162	1,649,162	1,649,162	1,649,162	1,649,162
6/30/2002	723,491	1,789,175	1,853,717	2,007,817	1,836,592	1,819,667	1,840,491	1,832,092	1,842,092	1,838,592	1,835,992
6/30/2003	982,495	992,449	1,232,479	1,338,500	1,439,264	1,267,654	1,271,723	1,270,777	1,268,376	1,267,850	1,255,762
6/30/2004	591,292	965,756	918,048	940,459	863,024	867,692	867,692	867,692	867,692	867,692	867,693
6/30/2005	863,417	1,154,179	1,152,724	1,285,396	1,287,474	1,294,474	1,294,474	1,292,044	1,292,044	1,292,049	1,292,044
6/30/2006	811,099	858,606	956,057	967,396	1,018,168	880,330	880,330	879,830	879,830	879,830	879,830
6/30/2007	691,993	674,467	740,534	896,973	939,478	934,473	934,473	934,478	934,473	934,473	934,473
6/30/2008	1,023,184	1,594,114	1,852,719	1,876,790	1,808,395	1,800,712	1,879,960	1,836,293	1,836,293	1,836,293	1,836,293
6/30/2009	896,175	1,660,968	1,680,353	1,458,437	1,213,029	1,218,042	1,209,543	1,199,543	1,195,542	1,195,542	1,195,542
6/30/2010	1,260,768	1,663,530	1,622,159	1,492,318	1,473,444	1,473,444	1,473,444	1,473,100	1,473,100	1,473,100	
6/30/2011	1,003,079	1,232,882	1,335,845	1,372,629	1,402,293	1,561,458	1,584,458	1,569,208	1,569,208		
6/30/2012	1,276,689	1,364,211	1,298,016	1,095,023	1,195,203	1,134,203	1,134,203	1,104,203			
6/30/2013	1,179,127	2,179,278	2,228,173	2,089,254	1,969,033	1,915,392	1,815,392				
6/30/2014	915,559	2,185,230	2,188,268	2,059,675	2,032,103	2,045,315					
6/30/2015	1,423,182	2,058,401	2,190,171	1,848,110	1,774,701						
6/30/2016	951,632	1,403,134	1,465,182	1,417,775							
6/30/2017	852,014	1,398,593	1,378,503								
6/30/2018	1,176,419	1,864,007									
6/30/2019	1,117,783										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	1,000,059	1,000,059	1,000,059	1,001,059	1,001,059	1,002,059	1,000,059	1,000,059	1,000,059		
6/30/2001	1,649,162	1,649,162	1,649,162	1,650,162	1,649,162	1,649,162	1,649,162	1,649,162			
6/30/2002	1,835,992	1,835,992	1,835,992	1,835,992	1,835,992	1,835,992	1,835,992				
6/30/2003	1,255,762	1,255,762	1,255,762	1,255,762	1,255,762	1,255,762					
6/30/2004	947,692	874,192	874,192	874,192	874,192						
6/30/2005	1,292,044	1,292,044	1,292,044	1,292,044							
6/30/2006	879,830	879,830	879,830								
6/30/2007	934,473	934,473									
6/30/2008	1,836,293										



PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY

BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.361	1.083	0.949	0.952	0.956	0.976	1.000	1.000	1.000	1.000	1.000
6/30/2001	1.354	1.075	0.984	1.050	0.973	0.994	1.000	1.000	1.000	1.000	1.000
6/30/2002	2.473	1.036	1.083	0.915	0.991	1.011	0.995	1.005	0.998	0.999	1.000
6/30/2003	1.010	1.242	1.086	1.075	0.881	1.003	0.999	0.998	1.000	0.990	1.000
6/30/2004	1.633	0.951	1.024	0.918	1.005	1.000	1.000	1.000	1.000	1.000	1.092
6/30/2005	1.337	0.999	1.115	1.002	1.005	1.000	0.998	1.000	1.000	1.000	1.000
6/30/2006	1.059	1.113	1.012	1.052	0.865	1.000	0.999	1.000	1.000	1.000	1.000
6/30/2007	0.975	1.098	1.211	1.047	0.995	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2008	1.558	1.162	1.013	0.964	0.996	1.044	0.977	1.000	1.000	1.000	1.000
6/30/2009	1.853	1.012	0.868	0.832	1.004	0.993	0.992	0.997	1.000	1.000	
6/30/2010	1.319	0.975	0.920	0.987	1.000	1.000	1.000	1.000	1.000		
6/30/2011	1.229	1.084	1.028	1.022	1.114	1.015	0.990	1.000			
6/30/2012	1.069	0.951	0.844	1.091	0.949	1.000	0.974				
6/30/2013	1.848	1.022	0.938	0.942	0.973	0.948					
6/30/2014	2.387	1.001	0.941	0.987	1.007						
6/30/2015	1.446	1.064	0.844	0.960							
6/30/2016	1.474	1.044	0.968								
6/30/2017	1.642	0.986									
6/30/2018	1.584										

3 Yr Mean      1.567      1.031      0.918      0.963      0.976      0.988      0.988      0.999      1.000      1.000      1.000

Best 3/5      1.567      1.022      0.908      0.990      0.993      0.998      0.986      1.000      1.000      1.000      1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	1.000	1.000	1.001	1.000	1.001	0.998	1.000	1.000			
6/30/2001	1.000	1.000	1.001	0.999	1.000	1.000	1.000	1.000 *			
6/30/2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *			
6/30/2003	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *			
6/30/2004	0.922	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2005	1.000	1.000	1.000								
6/30/2006	1.000	1.000									
6/30/2007	1.000										

3 Yr Mean      1.000      1.000      1.000      1.000      1.000 @      0.999 @      1.000 @      1.000 @

Best 3/5      1.000      1.000      1.000      1.000      1.000 \*      1.000 \*      1.000 \*      1.000 \*

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.993	0.998	0.986	1.000	1.000	1.000	1.000
6/30/2016				0.990	0.993	0.998	0.986	1.000	1.000	1.000	1.000
6/30/2017			0.908	0.990	0.993	0.998	0.986	1.000	1.000	1.000	1.000
6/30/2018		1.022	0.908	0.990	0.993	0.998	0.986	1.000	1.000	1.000	1.000
6/30/2019	1.567	1.022	0.908	0.990	0.993	0.998	0.986	1.000	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.977
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.967
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.878
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.898
6/30/2019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.407

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 KENTUCKY  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	110,341	258,362	420,629	764,893	883,739	974,102	978,303	978,325	978,325	978,325	978,325
6/30/2001	86,503	181,593	515,414	602,402	655,522	656,076	659,244	659,244	659,244	659,244	659,244
6/30/2002	151,482	731,956	1,469,332	2,084,319	2,164,456	2,151,730	2,113,659	2,120,160	2,125,731	2,132,390	2,128,398
6/30/2003	486,863	594,352	739,216	1,617,679	1,550,672	1,135,569	1,156,138	1,159,459	1,161,861	1,162,387	1,162,387
6/30/2004	93,714	186,895	404,388	530,307	546,570	554,810	554,810	554,810	554,810	554,810	554,810
6/30/2005	94,750	232,074	357,980	584,713	740,875	774,298	774,298	774,155	774,155	774,155	774,155
6/30/2006	58,574	169,958	241,109	309,097	283,762	269,194	269,194	269,194	269,194	269,194	269,194
6/30/2007	141,718	659,758	755,768	1,239,211	692,462	672,819	672,819	672,819	672,819	672,819	672,819
6/30/2008	118,417	444,723	727,736	1,167,069	1,440,861	1,553,147	1,593,523	1,593,245	1,593,314	1,593,371	1,593,371
6/30/2009	304,504	868,988	1,190,029	742,881	678,698	688,141	688,140	693,250	692,133	692,133	692,133
6/30/2010	89,434	249,078	455,069	631,957	670,922	687,613	687,613	687,613	687,613	687,613	
6/30/2011	218,426	404,511	419,321	635,066	711,846	874,763	924,024	924,997	927,304		
6/30/2012	315,828	466,743	598,832	803,440	773,045	861,896	959,364	960,081			
6/30/2013	86,331	482,145	1,099,699	1,654,555	1,753,054	1,804,091	1,852,396				
6/30/2014	157,323	666,546	1,135,876	1,244,563	1,283,979	1,386,290					
6/30/2015	93,090	358,079	490,605	669,547	731,346						
6/30/2016	72,348	278,709	467,135	705,641							
6/30/2017	160,266	622,515	965,746								
6/30/2018	335,562	1,134,005									
6/30/2019	73,890										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	978,325	978,325	978,325	979,506	984,129	985,893	985,893	985,893	985,893
6/30/2001	659,244	659,244	659,244	659,244	659,244	659,244	659,244	659,244	
6/30/2002	2,128,398	2,128,398	2,128,398	2,128,398	2,128,398	2,128,398	2,128,398		
6/30/2003	1,162,387	1,162,387	1,162,387	1,162,387	1,162,387	1,162,387			
6/30/2004	574,205	578,539	579,926	579,926	579,926				
6/30/2005	774,155	774,155	774,155	774,155					
6/30/2006	269,194	269,194	269,194						
6/30/2007	672,819	672,819							
6/30/2008	1,593,371								

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	148,021	162,267	344,264	118,846	90,363	4,201	22	0	0	0	0	0	0
6/30/2001	95,090	333,821	86,988	53,120	554	3,168	0	0	0	0	0	0	0
6/30/2002	580,474	737,376	614,987	80,137	-12,726	-38,071	6,501	5,571	6,659	-3,992	0	0	0
6/30/2003	107,489	144,864	878,463	-67,007	-415,103	20,569	3,321	2,402	526	0	0	0	0
6/30/2004	93,181	217,493	125,919	16,263	8,240	0	0	0	0	0	19,395	4,334	1,387
6/30/2005	137,324	125,906	226,733	156,162	33,423	0	-143	0	0	0	0	0	0
6/30/2006	111,384	71,151	67,988	-25,335	-14,568	0	0	0	0	0	0	0	0
6/30/2007	518,040	96,010	483,443	-546,749	-19,643	0	0	0	0	0	0	0	0
6/30/2008	326,306	283,013	439,333	273,792	112,286	40,376	-278	69	57	0	0		
6/30/2009	564,484	321,041	-447,148	-64,183	9,443	-1	5,110	-1,117	0	0			
6/30/2010	159,644	205,991	176,888	38,965	16,691	0	0	0	0				
6/30/2011	186,085	14,810	215,745	76,780	162,917	49,261	973	2,307					
6/30/2012	150,915	132,089	204,608	-30,395	88,851	97,468	717						
6/30/2013	395,814	617,554	554,856	98,499	51,037	48,305							
6/30/2014	509,223	469,330	108,687	39,416	102,311								
6/30/2015	264,989	132,526	178,942	61,799									
6/30/2016	206,361	188,426	238,506										
6/30/2017	462,249	343,231											
6/30/2018	798,443												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0671	0.0736	0.1561	0.0539	0.0410	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2001	0.0431	0.1512	0.0394	0.0241	0.0003	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2002	0.2017	0.2562	0.2137	0.0278	-0.0044	-0.0132	0.0023	0.0019	0.0023	-0.0014	0.0000	0.0000	0.0000
6/30/2003	0.0502	0.0677	0.4104	-0.0313	-0.1939	0.0096	0.0016	0.0011	0.0002	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.0543	0.1267	0.0733	0.0095	0.0048	0.0000	0.0000	0.0000	0.0000	0.0000	0.0113	0.0025	0.0008
6/30/2005	0.0603	0.0553	0.0996	0.0686	0.0147	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.1203	0.0769	0.0734	-0.0274	-0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2007	0.2638	0.0489	0.2462	-0.2784	-0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
6/30/2008	0.0808	0.0700	0.1087	0.0678	0.0278	0.0100	-0.0001	0.0000	0.0000	0.0000	0.0000		
6/30/2009	0.3391	0.1929	-0.2686	-0.0386	0.0057	0.0000	0.0031	-0.0007	0.0000	0.0000			
6/30/2010	0.0679	0.0876	0.0752	0.0166	0.0071	0.0000	0.0000	0.0000	0.0000				
6/30/2011	0.0786	0.0063	0.0911	0.0324	0.0688	0.0208	0.0004	0.0010					
6/30/2012	0.0940	0.0823	0.1274	-0.0189	0.0553	0.0607	0.0004						
6/30/2013	0.0991	0.1546	0.1389	0.0247	0.0128	0.0121							
6/30/2014	0.1405	0.1295	0.0300	0.0109	0.0282								
6/30/2015	0.0739	0.0370	0.0499	0.0172									
6/30/2016	0.0913	0.0834	0.1055										
6/30/2017	0.1518	0.1127											
6/30/2018	0.1969												

Best 3/5	0.1278	0.1085	0.0943	0.0176	0.0321	0.0110	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	1,662,753	1,826,080	1,946,965	2,044,965	1,950,669	1,855,668	1,861,200	1,873,700	1,887,700	1,882,701	1,882,801
6/30/2001	1,890,039	1,915,519	2,048,762	2,207,910	2,219,249	2,253,749	2,258,250	2,258,250	2,175,726	2,175,726	2,175,726
6/30/2002	1,801,777	1,941,479	1,994,239	2,037,326	1,983,047	2,018,356	2,012,503	1,993,796	1,938,545	1,938,545	1,938,545
6/30/2003	1,204,661	1,301,034	1,229,383	1,292,646	1,288,261	1,268,012	1,268,012	1,266,104	1,266,104	1,266,104	1,266,104
6/30/2004	1,323,699	1,428,004	1,311,485	1,273,699	1,138,255	1,157,066	1,209,296	1,204,296	1,203,296	1,203,296	1,203,296
6/30/2005	1,264,579	1,544,817	1,496,134	1,469,607	1,499,213	1,426,338	1,461,338	1,461,338	1,551,588	1,580,088	1,698,088
6/30/2006	1,051,786	1,042,924	921,619	943,281	911,965	1,033,108	1,027,839	1,037,839	992,839	942,839	942,839
6/30/2007	1,346,980	1,647,095	1,658,383	1,708,707	1,788,931	1,762,430	1,783,841	1,776,371	1,775,364	1,775,364	1,775,364
6/30/2008	1,767,298	1,789,656	1,850,181	1,802,898	1,862,129	1,809,730	1,811,127	1,810,679	1,851,929	1,851,929	1,851,929
6/30/2009	1,593,358	1,723,485	1,759,317	1,842,925	1,804,925	1,817,725	1,825,575	1,825,575	1,825,575	1,829,575	1,829,575
6/30/2010	1,528,019	1,343,023	1,421,192	1,452,298	1,468,238	1,481,962	1,483,225	1,458,265	1,458,265	1,458,265	
6/30/2011	1,516,898	1,839,593	1,692,571	1,749,004	1,694,698	1,630,515	1,701,211	1,743,639	1,644,826		
6/30/2012	1,701,667	1,855,983	1,878,965	1,909,567	1,916,735	1,899,576	1,902,576	1,945,776			
6/30/2013	1,089,142	1,215,257	1,414,741	1,383,743	1,423,706	1,428,908	1,408,908				
6/30/2014	1,440,363	1,486,791	1,442,064	1,426,893	1,400,293	1,485,291					
6/30/2015	1,487,408	1,606,804	1,565,068	1,514,332	1,488,332						
6/30/2016	1,649,172	1,766,231	1,880,647	2,058,038							
6/30/2017	1,603,526	1,871,518	1,898,387								
6/30/2018	1,975,166	2,218,095									
6/30/2019	1,582,870										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	1,882,801	1,877,801	1,877,801	1,877,801	1,877,801	1,877,801	1,877,801	1,957,701	1,957,701		
6/30/2001	2,175,726	2,175,726	2,175,726	2,175,726	2,175,607	2,175,607	2,175,607	2,175,607			
6/30/2002	1,938,545	1,938,545	1,938,545	1,938,545	1,938,545	1,938,545	1,938,545				
6/30/2003	1,266,104	1,266,104	1,266,104	1,266,104	1,266,104	1,266,104					
6/30/2004	1,203,296	1,203,296	1,203,296	1,203,296	1,203,296						
6/30/2005	1,698,088	1,698,088	1,698,088	1,698,088							
6/30/2006	942,839	942,839	942,839								
6/30/2007	1,775,364	1,775,364									
6/30/2008	1,851,929										

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY

PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.098	1.066	1.050	0.954	0.951	1.003	1.007	1.007	0.997	1.000	1.000
6/30/2001	1.013	1.070	1.078	1.005	1.016	1.002	1.000	0.963	1.000	1.000	1.000
6/30/2002	1.078	1.027	1.022	0.973	1.018	0.997	0.991	0.972	1.000	1.000	1.000
6/30/2003	1.080	0.945	1.051	0.997	0.984	1.000	0.998	1.000	1.000	1.000	1.000
6/30/2004	1.079	0.918	0.971	0.894	1.017	1.045	0.996	0.999	1.000	1.000	1.000
6/30/2005	1.222	0.968	0.982	1.020	0.951	1.025	1.000	1.062	1.018	1.075	1.000
6/30/2006	0.992	0.884	1.024	0.967	1.133	0.995	1.010	0.957	0.950	1.000	1.000
6/30/2007	1.223	1.007	1.030	1.047	0.985	1.012	0.996	0.999	1.000	1.000	1.000
6/30/2008	1.013	1.034	0.974	1.033	0.972	1.001	1.000	1.023	1.000	1.000	1.000
6/30/2009	1.082	1.021	1.048	0.979	1.007	1.004	1.000	1.000	1.002	1.000	
6/30/2010	0.879	1.058	1.022	1.011	1.009	1.001	0.983	1.000	1.000		
6/30/2011	1.213	0.920	1.033	0.969	0.962	1.043	1.025	0.943			
6/30/2012	1.091	1.012	1.016	1.004	0.991	1.002	1.023				
6/30/2013	1.116	1.164	0.978	1.029	1.004	0.986					
6/30/2014	1.032	0.970	0.989	0.981	1.061						
6/30/2015	1.080	0.974	0.968	0.983							
6/30/2016	1.071	1.065	1.094								
6/30/2017	1.167	1.014									
6/30/2018	1.123										

3 Yr Mean      1.120      1.018      1.017      0.998      1.019      1.010      1.010      0.981      1.001      1.000      1.000

Best 3/5      1.091      1.018      0.994      0.989      1.001      1.002      1.008      1.000      1.000      1.000      1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.997	1.000	1.000	1.000	1.000	1.000	1.043	1.000			
6/30/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *			
6/30/2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *			
6/30/2003	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *			
6/30/2004	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2005	1.000	1.000	1.000								
6/30/2006	1.000	1.000									
6/30/2007	1.000										

3 Yr Mean      1.000      1.000      1.000      1.000      1.000 @      1.000 @      1.022 @      1.000 @

Best 3/5      1.000      1.000      1.000      1.000      1.000 \*      1.000 \*      1.000 \*      1.000 \*

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.001	1.002	1.008	1.000	1.000	1.000	1.000
6/30/2016				0.989	1.001	1.002	1.008	1.000	1.000	1.000	1.000
6/30/2017			0.994	0.989	1.001	1.002	1.008	1.000	1.000	1.000	1.000
6/30/2018		1.018	0.994	0.989	1.001	1.002	1.008	1.000	1.000	1.000	1.000
6/30/2019	1.091	1.018	0.994	0.989	1.001	1.002	1.008	1.000	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.011
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.000
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.994
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.012
6/30/2019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.104

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	112,068	143,085	208,655	365,890	303,968	262,706	275,515	300,832	325,835	319,337	352,233
6/30/2001	291,335	423,502	637,791	1,070,849	1,490,321	1,537,439	1,537,774	1,544,760	1,574,708	1,575,551	1,575,551
6/30/2002	56,738	208,544	333,125	471,432	536,019	503,144	506,447	535,204	541,841	541,841	541,841
6/30/2003	75,848	130,022	360,864	416,013	429,846	469,362	501,150	564,154	564,154	564,154	564,154
6/30/2004	219,831	271,984	341,390	373,551	557,787	609,326	641,517	645,652	647,246	647,499	647,499
6/30/2005	59,753	141,319	260,466	326,487	610,129	782,288	612,286	617,333	622,040	625,858	626,005
6/30/2006	92,606	154,444	215,084	254,471	291,889	488,756	504,404	579,631	613,524	567,929	567,929
6/30/2007	107,047	205,943	328,179	422,252	488,545	525,225	538,421	538,421	538,421	538,421	538,421
6/30/2008	318,789	440,061	453,777	363,094	401,968	409,285	413,400	422,125	426,956	426,956	426,956
6/30/2009	127,119	393,036	311,269	361,905	395,964	427,136	445,557	449,894	464,411	485,661	486,002
6/30/2010	75,565	138,301	244,416	304,893	401,852	516,310	525,935	525,641	525,641	525,641	
6/30/2011	134,929	167,989	277,660	428,694	429,620	400,932	416,196	419,074	422,603		
6/30/2012	64,636	119,556	151,419	226,827	275,775	348,567	364,968	373,550			
6/30/2013	65,884	148,828	302,983	356,786	293,472	318,217	326,400				
6/30/2014	145,602	135,381	183,033	203,912	189,018	217,502					
6/30/2015	148,658	311,823	280,096	308,991	311,591						
6/30/2016	171,507	143,615	179,514	346,867							
6/30/2017	116,842	110,210	179,675								
6/30/2018	169,711	213,852									
6/30/2019	55,256										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	437,234	512,237	512,240	562,243	612,243	612,243	687,245	701,579	701,579
6/30/2001	1,575,551	1,575,551	1,575,551	1,575,551	1,575,551	1,575,551	1,575,551	1,575,551	
6/30/2002	541,841	541,841	541,841	541,841	541,841	541,841	541,841		
6/30/2003	564,154	564,154	564,154	564,154	564,154	564,154			
6/30/2004	647,499	647,499	647,499	647,499	647,499				
6/30/2005	626,005	626,005	626,005	626,005					
6/30/2006	567,929	567,929	567,929						
6/30/2007	538,421	538,421							
6/30/2008	426,956								

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
6/30/2000	31,017	65,570	157,235	-61,922	-41,262	12,809	25,317	25,003	-6,498	32,896	85,001	75,003	3
6/30/2001	132,167	214,289	433,058	419,472	47,118	335	6,986	29,948	843	0	0	0	0
6/30/2002	151,806	124,581	138,307	64,587	-32,875	3,303	28,757	6,637	0	0	0	0	0
6/30/2003	54,174	230,842	55,149	13,833	39,516	31,788	63,004	0	0	0	0	0	0
6/30/2004	52,153	69,406	32,161	184,236	51,539	32,191	4,135	1,594	253	0	0	0	0
6/30/2005	81,566	119,147	66,021	283,642	172,159	-170,002	5,047	4,707	3,818	147	0	0	0
6/30/2006	61,838	60,640	39,387	37,418	196,867	15,648	75,227	33,893	-45,595	0	0	0	0
6/30/2007	98,896	122,236	94,073	66,293	36,680	13,196	0	0	0	0	0	0	
6/30/2008	121,272	13,716	-90,683	38,874	7,317	4,115	8,725	4,831	0	0	0		
6/30/2009	265,917	-81,767	50,636	34,059	31,172	18,421	4,337	14,517	21,250	341			
6/30/2010	62,736	106,115	60,477	96,959	114,458	9,625	-294	0	0				
6/30/2011	33,060	109,671	151,034	926	-28,688	15,264	2,878	3,529					
6/30/2012	54,920	31,863	75,408	48,948	72,792	16,401	8,582						
6/30/2013	82,944	154,155	53,803	-63,314	24,745	8,183							
6/30/2014	-10,221	47,652	20,879	-14,894	28,484								
6/30/2015	163,165	-31,727	28,895	2,600									
6/30/2016	-27,892	35,899	167,353										
6/30/2017	-6,632	69,465											
6/30/2018	44,141												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0108	0.0229	0.0548	-0.0216	-0.0144	0.0045	0.0088	0.0087	-0.0023	0.0115	0.0296	0.0262	0.0000
6/30/2001	0.0401	0.0651	0.1315	0.1274	0.0143	0.0001	0.0021	0.0091	0.0003	0.0000	0.0000	0.0000	0.0000
6/30/2002	0.0655	0.0537	0.0597	0.0279	-0.0142	0.0014	0.0124	0.0029	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2003	0.0309	0.1317	0.0315	0.0079	0.0225	0.0181	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.0313	0.0416	0.0193	0.1105	0.0309	0.0193	0.0025	0.0010	0.0002	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.0316	0.0462	0.0256	0.1100	0.0668	-0.0659	0.0020	0.0018	0.0015	0.0001	0.0000	0.0000	0.0000
6/30/2006	0.0647	0.0634	0.0412	0.0391	0.2059	0.0164	0.0787	0.0355	-0.0477	0.0000	0.0000	0.0000	0.0000
6/30/2007	0.0523	0.0646	0.0497	0.0350	0.0194	0.0070	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
6/30/2008	0.0585	0.0066	-0.0437	0.0187	0.0035	0.0020	0.0042	0.0023	0.0000	0.0000	0.0000		
6/30/2009	0.1060	-0.0326	0.0202	0.0136	0.0124	0.0073	0.0017	0.0058	0.0085	0.0001			
6/30/2010	0.0347	0.0587	0.0335	0.0537	0.0634	0.0053	-0.0002	0.0000	0.0000				
6/30/2011	0.0127	0.0420	0.0579	0.0004	-0.0110	0.0058	0.0011	0.0014					
6/30/2012	0.0196	0.0114	0.0269	0.0175	0.0260	0.0058	0.0031						
6/30/2013	0.0507	0.0941	0.0329	-0.0387	0.0151	0.0050							
6/30/2014	-0.0057	0.0264	0.0116	-0.0083	0.0158								
6/30/2015	0.0872	-0.0170	0.0154	0.0014									
6/30/2016	-0.0087	0.0112	0.0524										
6/30/2017	-0.0028	0.0292											
6/30/2018	0.0156												

Best 3/5	0.0024	0.0223	0.0251	-0.0022	0.0190	0.0057	0.0020	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	3,692,533	4,210,272	4,185,115	4,240,417	4,310,634	4,529,362	4,586,909	4,628,545	4,628,545	4,626,045	4,551,045
6/30/2001	2,884,895	3,454,634	3,500,898	3,758,303	3,887,732	3,741,925	3,703,925	3,658,925	3,658,925	3,658,925	3,658,925
6/30/2002	2,699,891	2,841,959	3,260,280	3,449,790	3,502,552	3,316,234	3,240,310	3,286,254	3,329,798	3,318,186	3,350,296
6/30/2003	3,999,345	4,392,638	4,466,867	4,236,339	4,090,839	4,180,328	4,098,528	4,101,078	4,101,078	4,098,661	4,098,661
6/30/2004	4,649,239	5,779,358	5,378,343	5,256,284	5,075,293	4,948,605	4,923,605	4,939,188	4,915,486	4,915,486	4,915,486
6/30/2005	4,487,070	4,433,073	4,261,987	3,910,258	3,877,973	3,815,794	3,890,319	3,839,044	3,839,044	3,839,044	3,839,044
6/30/2006	4,606,015	5,413,264	5,162,031	4,674,051	4,613,776	4,539,786	4,519,786	4,521,536	4,508,536	4,508,536	4,416,536
6/30/2007	6,019,312	5,901,353	5,429,926	5,374,184	5,379,941	5,267,817	5,218,546	5,163,546	5,153,546	5,153,546	5,153,546
6/30/2008	6,943,381	6,633,222	6,109,435	5,827,418	5,622,897	5,452,978	5,500,341	5,503,355	5,488,355	5,388,355	5,428,355
6/30/2009	5,978,155	7,640,142	7,515,710	7,069,892	6,706,052	6,355,464	6,311,684	6,332,424	6,301,424	6,329,424	6,329,424
6/30/2010	6,344,503	6,381,456	6,323,105	6,224,712	6,216,026	6,139,526	6,084,255	5,984,254	5,984,254	5,944,254	
6/30/2011	7,980,777	7,509,569	7,313,468	7,116,355	6,828,060	6,812,370	6,744,186	6,836,686	6,807,749		
6/30/2012	5,720,662	6,191,992	6,253,958	5,814,570	5,665,933	5,411,270	5,425,882	5,425,268			
6/30/2013	4,888,367	7,022,741	6,893,464	6,458,287	6,481,318	6,380,350	6,257,414				
6/30/2014	7,522,075	8,371,854	8,649,542	8,690,817	8,833,952	8,660,289					
6/30/2015	5,671,164	7,531,015	7,654,797	7,067,196	7,336,927						
6/30/2016	5,332,126	6,989,720	6,945,087	6,577,743							
6/30/2017	5,204,581	8,011,184	8,390,970								
6/30/2018	6,024,381	8,141,569									
6/30/2019	6,481,523										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	4,566,045	4,591,045	4,616,045	4,616,045	4,616,045	4,616,045	4,616,045	4,616,045	4,616,045		
6/30/2001	3,658,925	3,658,925	3,658,925	3,658,925	3,658,925	3,658,925	3,658,925	3,658,925			
6/30/2002	3,350,296	3,350,296	3,350,296	3,350,296	3,350,296	3,350,296	3,345,296				
6/30/2003	4,098,661	4,098,661	4,098,661	4,098,661	4,098,661	4,098,661					
6/30/2004	4,915,486	4,915,486	4,915,486	4,915,486	4,915,486						
6/30/2005	3,839,044	3,839,045	3,839,187	3,839,044							
6/30/2006	4,416,536	4,416,574	4,416,536								
6/30/2007	5,313,546	5,313,030									
6/30/2008	5,423,355										



PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.140	0.994	1.013	1.017	1.051	1.013	1.009	1.000	0.999	0.984	1.003
6/30/2001	1.197	1.013	1.074	1.034	0.962	0.990	0.988	1.000	1.000	1.000	1.000
6/30/2002	1.053	1.147	1.058	1.015	0.947	0.977	1.014	1.013	0.997	1.010	1.000
6/30/2003	1.098	1.017	0.948	0.966	1.022	0.980	1.001	1.000	0.999	1.000	1.000
6/30/2004	1.243	0.931	0.977	0.966	0.975	0.995	1.003	0.995	1.000	1.000	1.000
6/30/2005	0.988	0.961	0.917	0.992	0.984	1.020	0.987	1.000	1.000	1.000	1.000
6/30/2006	1.175	0.954	0.905	0.987	0.984	0.996	1.000	0.997	1.000	0.980	1.000
6/30/2007	0.980	0.920	0.990	1.001	0.979	0.991	0.989	0.998	1.000	1.000	1.031
6/30/2008	0.955	0.921	0.954	0.965	0.970	1.009	1.001	0.997	0.982	1.007	0.999
6/30/2009	1.278	0.984	0.941	0.949	0.948	0.993	1.003	0.995	1.004	1.000	
6/30/2010	1.006	0.991	0.984	0.999	0.988	0.991	0.984	1.000	0.993		
6/30/2011	0.941	0.974	0.973	0.959	0.998	0.990	1.014	0.996			
6/30/2012	1.082	1.010	0.930	0.974	0.955	1.003	1.000				
6/30/2013	1.437	0.982	0.937	1.004	0.984	0.981					
6/30/2014	1.113	1.033	1.005	1.016	0.980						
6/30/2015	1.328	1.016	0.923	1.038							
6/30/2016	1.311	0.994	0.947								
6/30/2017	1.539	1.047									
6/30/2018	1.351										

3 Yr Mean 1.400 1.019 0.958 1.019 0.973 0.991 0.999 0.997 0.993 1.002 1.010

Best 3/5 1.330 1.014 0.938 0.998 0.984 0.991 1.001 0.997 0.998 1.000 1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231
6/30/2000	1.005	1.005	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *
6/30/2002	1.000	1.000	1.000	1.000	1.000	0.999	1.000 *	1.000 *
6/30/2003	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *
6/30/2004	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *
6/30/2005	1.000	1.000	1.000					
6/30/2006	1.000	1.000						
6/30/2007	1.000							

3 Yr Mean 1.000 1.000 1.000 1.000 1.000 @ 1.000 @ 1.000 @ 1.000 @

Best 3/5 1.000 1.000 1.000 1.000 1.000 \* 1.000 \* 1.000 \* 1.000 \*

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.984	0.991	1.001	0.997	0.998	1.000	1.000
6/30/2016				0.998	0.984	0.991	1.001	0.997	0.998	1.000	1.000
6/30/2017			0.938	0.998	0.984	0.991	1.001	0.997	0.998	1.000	1.000
6/30/2018		1.014	0.938	0.998	0.984	0.991	1.001	0.997	0.998	1.000	1.000
6/30/2019	1.330	1.014	0.938	0.998	0.984	0.991	1.001	0.997	0.998	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.971
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.969
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.909
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.922
6/30/2019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.226

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	179,399	710,263	847,187	1,145,022	1,291,119	1,392,781	1,433,118	1,468,131	1,506,856	1,634,440	1,634,810
6/30/2001	535,108	749,983	992,201	1,046,554	1,028,732	1,117,612	1,143,486	1,085,890	1,173,374	1,307,699	1,388,049
6/30/2002	407,752	761,492	1,162,805	1,747,386	1,594,489	1,760,157	1,702,614	1,676,121	1,691,039	1,693,272	1,688,764
6/30/2003	857,072	1,884,110	2,125,477	2,305,038	2,372,486	2,507,421	2,481,881	2,504,320	2,505,720	2,508,290	2,508,290
6/30/2004	393,619	895,703	1,581,338	1,905,598	1,994,468	1,990,144	1,986,782	1,958,488	1,958,488	1,958,488	1,958,488
6/30/2005	267,162	732,479	1,113,505	1,235,397	1,263,144	1,283,884	1,283,885	1,280,274	1,280,274	1,280,274	1,280,274
6/30/2006	752,784	1,458,117	1,725,086	1,535,966	1,580,664	1,644,519	1,654,666	1,668,401	1,690,893	1,690,892	1,682,403
6/30/2007	225,796	918,287	1,054,119	1,090,697	1,390,670	1,138,551	1,145,777	1,145,827	1,133,001	1,133,001	1,133,001
6/30/2008	497,291	1,367,177	2,667,530	2,722,589	3,004,454	2,936,180	2,931,603	2,955,599	2,968,598	2,973,437	2,988,058
6/30/2009	1,290,217	2,184,789	3,097,788	3,338,744	3,559,499	3,584,465	4,025,682	4,055,172	4,065,553	4,070,425	4,070,425
6/30/2010	607,120	1,739,597	2,324,953	2,653,756	2,922,212	2,998,563	3,091,320	3,130,128	3,143,039	3,142,736	
6/30/2011	584,407	1,619,340	2,738,716	3,345,815	3,536,954	3,659,040	3,652,647	3,706,143	3,709,075		
6/30/2012	920,817	1,393,415	2,127,875	2,499,923	2,729,907	2,781,704	2,839,343	3,064,035			
6/30/2013	595,949	1,310,411	2,302,602	2,969,452	3,334,260	3,492,764	3,542,128				
6/30/2014	693,990	2,264,619	3,017,946	3,578,054	3,982,668	4,154,144					
6/30/2015	623,694	1,838,645	2,728,568	3,033,824	3,212,868						
6/30/2016	833,231	1,677,298	2,364,023	2,860,309							
6/30/2017	512,709	1,529,750	2,463,197								
6/30/2018	371,941	1,321,180									
6/30/2019	450,636										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	1,636,200	1,636,200	1,636,200	1,636,200	1,636,202	1,636,202	1,636,202	1,636,202	1,636,202
6/30/2001	1,388,049	1,388,049	1,388,049	1,388,861	1,398,844	1,348,844	1,348,844	1,348,844	
6/30/2002	1,688,764	1,688,764	1,688,764	1,688,764	1,688,764	1,688,764	1,688,764		
6/30/2003	2,508,290	2,508,290	2,508,290	2,508,290	2,508,290	2,508,290			
6/30/2004	1,958,488	1,958,488	1,958,488	1,958,488	1,958,488				
6/30/2005	1,280,274	1,280,274	1,280,274	1,280,274					
6/30/2006	1,683,524	1,683,524	1,629,456						
6/30/2007	1,134,422	1,135,931							
6/30/2008	3,017,771								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	530,864	136,924	297,835	146,097	101,662	40,337	35,013	38,725	127,584	370	1,390	0	0
6/30/2001	214,875	242,218	54,353	-17,822	88,880	25,874	-57,596	87,484	134,325	80,350	0	0	0
6/30/2002	353,740	401,313	584,581	-152,897	165,668	-57,543	-26,493	14,918	2,233	-4,508	0	0	0
6/30/2003	1,027,038	241,367	179,561	67,448	134,935	-25,540	22,439	1,400	2,570	0	0	0	0
6/30/2004	502,084	685,635	324,260	88,870	-4,324	-3,362	-28,294	0	0	0	0	0	0
6/30/2005	465,317	381,026	121,892	27,747	20,740	1	-3,611	0	0	0	0	0	0
6/30/2006	705,333	266,969	-189,120	44,698	63,855	10,147	13,735	22,492	-1	-8,489	1,121	0	-54,068
6/30/2007	692,491	135,832	36,578	299,973	-252,119	7,226	50	-12,826	0	0	1,421	1,509	
6/30/2008	869,886	1,300,353	55,059	281,865	-68,274	-4,577	23,996	12,999	4,839	14,621	29,713		
6/30/2009	894,572	912,999	240,956	220,755	24,966	441,217	29,490	10,381	4,872	0			
6/30/2010	1,132,477	585,356	328,803	268,456	76,351	92,757	38,808	12,911	-303				
6/30/2011	1,034,933	1,119,376	607,099	191,139	122,086	-6,393	53,496	2,932					
6/30/2012	472,598	734,460	372,048	229,984	51,797	57,639	224,692						
6/30/2013	714,462	992,191	666,850	364,808	158,504	49,364							
6/30/2014	1,570,629	753,327	560,108	404,614	171,476								
6/30/2015	1,214,951	889,923	305,256	179,044									
6/30/2016	844,067	686,725	496,286										
6/30/2017	1,017,041	933,447											
6/30/2018	949,239												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0885	0.0228	0.0497	0.0244	0.0170	0.0067	0.0058	0.0065	0.0213	0.0001	0.0002	0.0000	0.0000
6/30/2001	0.0350	0.0395	0.0089	-0.0029	0.0145	0.0042	-0.0094	0.0143	0.0219	0.0131	0.0000	0.0000	0.0000
6/30/2002	0.0677	0.0768	0.1119	-0.0293	0.0317	-0.0110	-0.0051	0.0029	0.0004	-0.0009	0.0000	0.0000	0.0000
6/30/2003	0.1718	0.0404	0.0300	0.0113	0.0226	-0.0043	0.0038	0.0002	0.0004	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.0782	0.1068	0.0505	0.0138	-0.0007	-0.0005	-0.0044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.1010	0.0827	0.0265	0.0060	0.0045	0.0000	-0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.1154	0.0437	-0.0309	0.0073	0.0104	0.0017	0.0022	0.0037	0.0000	-0.0014	0.0002	0.0000	-0.0088
6/30/2007	0.1134	0.0222	0.0060	0.0491	-0.0413	0.0012	0.0000	-0.0021	0.0000	0.0000	0.0002	0.0002	
6/30/2008	0.1134	0.1696	0.0072	0.0368	-0.0089	-0.0006	0.0031	0.0017	0.0006	0.0019	0.0039		
6/30/2009	0.1002	0.1022	0.0270	0.0247	0.0028	0.0494	0.0033	0.0012	0.0005	0.0000			
6/30/2010	0.1456	0.0753	0.0423	0.0345	0.0098	0.0119	0.0050	0.0017	0.0000				
6/30/2011	0.1060	0.1146	0.0622	0.0196	0.0125	-0.0007	0.0055	0.0003					
6/30/2012	0.0610	0.0948	0.0480	0.0297	0.0067	0.0074	0.0290						
6/30/2013	0.0850	0.1180	0.0793	0.0434	0.0189	0.0059							
6/30/2014	0.1304	0.0625	0.0465	0.0336	0.0142								
6/30/2015	0.1268	0.0929	0.0319	0.0187									
6/30/2016	0.0908	0.0739	0.0534										
6/30/2017	0.0857	0.0787											
6/30/2018	0.0831												

Best 3/5	0.1011	0.0818	0.0493	0.0276	0.0122	0.0084	0.0046	0.0010	0.0002	0.0000	0.0001	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	679,050	690,499	615,555	560,555	566,255	557,330	557,330	600,255	560,255	560,255	560,255
6/30/2001	519,235	490,978	556,939	531,294	521,294	471,294	546,294	571,294	571,294	571,294	471,294
6/30/2002	579,659	583,436	736,122	681,122	656,122	681,123	766,122	676,425	666,425	681,425	681,425
6/30/2003	437,870	517,388	524,422	524,422	647,420	652,893	629,922	601,422	601,422	601,422	601,422
6/30/2004	261,417	404,975	491,559	472,910	473,332	431,760	432,140	438,217	438,170	438,170	438,170
6/30/2005	454,033	579,239	487,249	497,506	501,025	532,493	689,270	699,270	699,270	699,270	699,270
6/30/2006	609,408	764,262	710,159	697,041	666,085	766,085	766,085	766,085	766,085	766,085	766,085
6/30/2007	405,177	491,256	463,559	463,059	597,567	591,068	591,068	591,068	591,068	591,068	591,068
6/30/2008	538,251	478,136	342,272	438,050	431,551	434,174	433,174	433,174	433,174	433,174	363,174
6/30/2009	811,251	882,815	825,123	770,253	750,113	750,113	775,113	750,113	750,113	750,113	750,113
6/30/2010	377,234	473,744	398,794	396,494	421,494	398,494	398,494	398,494	398,494	398,494	
6/30/2011	314,411	431,479	433,726	338,730	318,725	318,225	318,225	318,225	318,225	318,225	
6/30/2012	440,624	412,951	474,076	413,239	444,916	307,366	307,366	307,366			
6/30/2013	377,539	363,630	371,888	365,893	388,980	368,980	368,980				
6/30/2014	537,596	317,522	294,888	305,132	344,749	364,749					
6/30/2015	460,226	707,410	657,360	875,860	848,750						
6/30/2016	656,220	674,763	786,481	724,242							
6/30/2017	348,049	710,411	831,969								
6/30/2018	784,099	904,439									
6/30/2019	476,805										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
6/30/2000	560,255	560,255	560,255	560,255	560,255	560,255	560,255	560,255	560,255
6/30/2001	471,294	471,294	471,294	471,294	471,294	471,294	471,294	471,294	
6/30/2002	681,425	681,425	681,425	681,425	681,425	681,425	681,425		
6/30/2003	601,422	601,422	601,422	601,422	601,422	603,922			
6/30/2004	438,170	438,170	438,170	438,170	438,170				
6/30/2005	699,270	699,270	599,270	599,270					
6/30/2006	766,085	666,085	666,085						
6/30/2007	491,068	491,068							
6/30/2008	363,174								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY

PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.017	0.891	0.911	1.010	0.984	1.000	1.077	0.933	1.000	1.000	1.000
6/30/2001	0.946	1.134	0.954	0.981	0.904	1.159	1.046	1.000	1.000	0.825	1.000
6/30/2002	1.007	1.262	0.925	0.963	1.038	1.125	0.883	0.985	1.023	1.000	1.000
6/30/2003	1.182	1.014	1.000	1.235	1.008	0.965	0.955	1.000	1.000	1.000	1.000
6/30/2004	1.549	1.214	0.962	1.001	0.912	1.001	1.014	1.000	1.000	1.000	1.000
6/30/2005	1.276	0.841	1.021	1.007	1.063	1.294	1.015	1.000	1.000	1.000	1.000
6/30/2006	1.254	0.929	0.982	0.956	1.150	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2007	1.212	0.944	0.999	1.290	0.989	1.000	1.000	1.000	1.000	1.000	0.831
6/30/2008	0.888	0.716	1.280	0.985	1.006	0.998	1.000	1.000	1.000	0.838	1.000
6/30/2009	1.088	0.935	0.934	0.974	1.000	1.033	0.968	1.000	1.000	1.000	
6/30/2010	1.256	0.842	0.994	1.063	0.945	1.000	1.000	1.000	1.000		
6/30/2011	1.372	1.005	0.781	0.941	0.998	1.000	1.000	1.000			
6/30/2012	0.937	1.148	0.872	1.077	0.691	1.000	1.000				
6/30/2013	0.963	1.023	0.984	1.063	0.949	1.000					
6/30/2014	0.591	0.929	1.035	1.130	1.058						
6/30/2015	1.537	0.929	1.332	0.969							
6/30/2016	1.028	1.166	0.921								
6/30/2017	2.041	1.171									
6/30/2018	1.153										

3 Yr Mean 1.407 1.089 1.096 1.054 0.899 1.000 1.000 1.000 1.000 0.946 0.944

Best 3/5 1.239 1.039 0.980 1.036 0.964 1.000 1.000 1.000 1.000 1.000 1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231
6/30/2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *
6/30/2002	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *
6/30/2003	1.000	1.000	1.000	1.000	1.004	1.000 *	1.000 *	1.000 *
6/30/2004	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *
6/30/2005	1.000	0.857	1.000					
6/30/2006	0.869	1.000						
6/30/2007	1.000							

3 Yr Mean 0.956 0.952 1.000 1.000 1.001 @ 1.000 @ 1.000 @ 1.000 @

Best 3/5 1.000 1.000 1.000 1.000 1.000 \* 1.000 \* 1.000 \* 1.000 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.964	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2016				1.036	0.964	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2017			0.980	1.036	0.964	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2018		1.039	0.980	1.036	0.964	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2019	1.239	1.039	0.980	1.036	0.964	1.000	1.000	1.000	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.964
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.999
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.979
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.017
6/30/2019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.260

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E.	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	31,280	94,487	97,257	79,154	101,037	114,462	118,483	158,947	152,136	152,136	152,136
6/30/2001	31,439	28,262	48,821	58,478	35,017	35,848	62,542	128,216	128,216	227,216	301,373
6/30/2002	52,283	104,417	199,611	262,577	290,650	320,045	375,603	390,673	415,977	463,934	435,228
6/30/2003	37,498	17,545	29,860	34,312	47,165	51,249	50,648	51,549	52,805	52,805	52,805
6/30/2004	9,940	79,055	189,414	202,066	216,398	227,831	248,951	271,874	265,941	265,941	265,941
6/30/2005	14,275	87,604	152,128	156,209	145,621	149,865	161,549	168,729	170,685	170,685	170,685
6/30/2006	5,881	25,329	68,540	86,068	91,104	91,104	91,104	83,156	83,156	83,156	83,156
6/30/2007	31,697	75,034	85,185	89,970	102,020	108,336	108,336	108,336	108,336	108,336	108,336
6/30/2008	11,286	56,575	39,027	133,306	135,133	139,689	174,810	199,244	230,084	244,862	253,953
6/30/2009	32,769	110,699	159,422	160,576	150,686	150,686	150,686	150,686	150,686	150,686	150,686
6/30/2010	86,361	100,009	92,126	98,148	132,760	105,353	109,874	109,874	109,874	109,874	
6/30/2011	22,810	108,631	162,622	169,652	153,284	155,958	140,958	140,958	140,958		
6/30/2012	41,551	65,255	81,979	166,577	206,102	187,668	187,668	187,668			
6/30/2013	11,784	15,952	32,959	39,203	119,707	111,339	111,339				
6/30/2014	40,217	39,999	65,150	67,406	77,208	77,208					
6/30/2015	94,443	198,254	1,095,329	1,256,166	1,381,172						
6/30/2016	87,284	122,664	131,549	226,115							
6/30/2017	31,813	126,386	187,300								
6/30/2018	113,750	185,072									
6/30/2019	15,044										

A.Y.E.	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	152,136	152,136	152,136	152,136	152,136	152,136	152,136	152,136	152,136
6/30/2001	301,373	301,373	301,373	301,373	301,373	301,373	301,373	301,373	
6/30/2002	435,228	435,228	435,228	435,228	435,228	435,228	435,228		
6/30/2003	52,805	52,805	52,805	52,805	52,805	52,805			
6/30/2004	265,941	265,941	265,941	265,941	265,941				
6/30/2005	170,685	170,685	170,685	170,685					
6/30/2006	83,156	106,933	146,574						
6/30/2007	108,336	108,336							
6/30/2008	253,953								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	63,207	2,770	-18,103	21,883	13,425	4,021	40,464	-6,811	0	0	0	0	0
6/30/2001	-3,177	20,559	9,657	-23,461	831	26,694	65,674	0	99,000	74,157	0	0	0
6/30/2002	52,134	95,194	62,966	28,073	29,395	55,558	15,070	25,304	47,957	-28,706	0	0	0
6/30/2003	-19,953	12,315	4,452	12,853	4,084	-601	901	1,256	0	0	0	0	0
6/30/2004	69,115	110,359	12,652	14,332	11,433	21,120	22,923	-5,933	0	0	0	0	0
6/30/2005	73,329	64,524	4,081	-10,588	4,244	11,684	7,180	1,956	0	0	0	0	0
6/30/2006	19,448	43,211	17,528	5,036	0	0	-7,948	0	0	0	0	23,777	39,641
6/30/2007	43,337	10,151	4,785	12,050	6,316	0	0	0	0	0	0	0	
6/30/2008	45,289	-17,548	94,279	1,827	4,556	35,121	24,434	30,840	14,778	9,091	0		
6/30/2009	77,930	48,723	1,154	-9,890	0	0	0	0	0	0			
6/30/2010	13,648	-7,883	6,022	34,612	-27,407	4,521	0	0	0				
6/30/2011	85,821	53,991	7,030	-16,368	2,674	-15,000	0	0					
6/30/2012	23,704	16,724	84,598	39,525	-18,434	0	0						
6/30/2013	4,168	17,007	6,244	80,504	-8,368	0							
6/30/2014	-218	25,151	2,256	9,802	0								
6/30/2015	103,811	897,075	160,837	125,006									
6/30/2016	35,380	8,885	94,566										
6/30/2017	94,573	60,914											
6/30/2018	71,322												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.1128	0.0049	-0.0323	0.0391	0.0240	0.0072	0.0722	-0.0122	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2001	-0.0065	0.0418	0.0196	-0.0477	0.0017	0.0543	0.1335	0.0000	0.2013	0.1508	0.0000	0.0000	0.0000
6/30/2002	0.0672	0.1227	0.0812	0.0362	0.0379	0.0716	0.0194	0.0326	0.0618	-0.0370	0.0000	0.0000	0.0000
6/30/2003	-0.0323	0.0199	0.0072	0.0208	0.0066	-0.0010	0.0015	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.1122	0.1791	0.0205	0.0233	0.0186	0.0343	0.0372	-0.0096	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.1156	0.1018	0.0064	-0.0167	0.0067	0.0184	0.0113	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.0162	0.0360	0.0146	0.0042	0.0000	0.0000	-0.0066	0.0000	0.0000	0.0000	0.0000	0.0198	0.0330
6/30/2007	0.0621	0.0145	0.0069	0.0173	0.0091	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
6/30/2008	0.1235	-0.0478	0.2570	0.0050	0.0124	0.0957	0.0666	0.0841	0.0403	0.0248	0.0000		
6/30/2009	0.1029	0.0643	0.0015	-0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
6/30/2010	0.0340	-0.0196	0.0150	0.0862	-0.0682	0.0113	0.0000	0.0000	0.0000				
6/30/2011	0.2662	0.1675	0.0218	-0.0508	0.0083	-0.0465	0.0000	0.0000					
6/30/2012	0.0756	0.0533	0.2698	0.1261	-0.0588	0.0000	0.0000						
6/30/2013	0.0110	0.0449	0.0165	0.2124	-0.0221	0.0000							
6/30/2014	-0.0006	0.0664	0.0060	0.0259	0.0000								
6/30/2015	0.0570	0.4923	0.0883	0.0686									
6/30/2016	0.0276	0.0069	0.0738										
6/30/2017	0.0879	0.0566											
6/30/2018	0.0467												

Best 3/5	0.0438	0.0560	0.0595	0.0735	-0.0270	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:												
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months	
6/30/2000	59,418,355	92,903,542	135,796,146	152,864,283	159,182,471	158,650,099	158,009,893	156,943,675	156,234,483	155,902,671	155,525,041	
6/30/2001	53,942,975	115,086,326	156,563,678	172,700,484	177,528,610	173,046,472	170,084,863	169,016,832	168,539,391	168,606,388	168,200,263	
6/30/2002	53,305,747	92,050,593	121,580,952	137,321,130	136,967,410	133,795,667	131,946,076	130,942,906	130,978,819	130,756,193	131,065,569	
6/30/2003	55,794,240	90,725,178	123,844,045	135,582,193	133,530,278	130,494,948	129,707,971	128,839,604	128,181,122	128,097,281	127,646,370	
6/30/2004	61,340,533	99,705,886	134,005,325	140,743,005	137,354,027	135,520,727	133,241,038	132,229,061	131,880,632	132,112,019	132,041,196	
6/30/2005	57,051,057	93,258,986	121,003,683	129,164,144	126,488,147	123,092,920	121,631,180	121,195,833	120,865,278	121,029,182	121,080,246	
6/30/2006	62,654,103	95,361,286	118,898,942	124,209,042	122,190,344	121,149,378	121,851,932	121,863,620	121,031,125	120,631,780	120,166,823	
6/30/2007	61,740,867	92,737,953	117,457,266	123,026,771	122,536,782	122,081,714	120,948,570	120,974,563	120,928,133	120,629,781	120,776,599	
6/30/2008	66,491,366	100,195,750	128,927,650	135,608,709	134,368,465	133,292,331	133,369,930	132,704,905	132,385,690	132,356,027	132,516,112	
6/30/2009	64,834,643	102,855,362	125,697,635	136,464,284	135,754,710	134,773,903	134,291,961	133,634,051	133,075,824	132,882,288	133,211,412	
6/30/2010	70,335,191	100,246,918	128,277,696	134,834,062	135,786,003	133,812,375	133,263,616	133,604,246	133,850,283	133,670,033		
6/30/2011	70,377,147	110,002,473	136,697,587	148,534,284	146,720,247	144,374,214	144,392,721	144,062,873	143,961,944			
6/30/2012	64,887,463	96,605,360	122,813,008	129,621,313	129,387,677	129,210,121	129,618,314	129,436,208				
6/30/2013	57,311,212	93,947,144	113,245,564	119,790,249	122,453,655	122,378,634	122,093,654					
6/30/2014	68,897,094	102,946,796	135,111,352	147,944,125	146,301,092	145,867,281						
6/30/2015	58,090,373	92,302,966	125,304,935	133,208,386	134,614,821							
6/30/2016	50,703,388	85,059,403	113,941,957	125,265,606								
6/30/2017	58,732,971	89,429,211	119,620,179									
6/30/2018	60,067,530	99,512,710										
6/30/2019	59,345,793											

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
6/30/2000	155,458,479	155,364,375	155,435,839	155,607,307	155,555,602	155,644,751	155,701,139	155,763,405	155,926,674
6/30/2001	168,378,540	168,375,963	168,532,290	168,454,710	168,184,913	168,307,805	168,039,389	168,047,889	
6/30/2002	130,581,907	130,634,441	130,443,570	130,414,208	130,430,599	130,421,165	130,593,721		
6/30/2003	127,962,820	127,772,701	127,532,091	127,502,388	127,452,380	127,655,879			
6/30/2004	132,237,027	132,217,469	132,299,333	132,294,548	132,482,658				
6/30/2005	121,224,244	121,209,442	121,203,919	121,207,415					
6/30/2006	120,257,319	120,761,708	120,721,599						
6/30/2007	120,661,954	120,822,791							
6/30/2008	132,632,299								



PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.564	1.462	1.126	1.041	0.997	0.996	0.993	0.995	0.998	0.998	1.000
6/30/2001	2.133	1.360	1.103	1.028	0.975	0.983	0.994	0.997	1.000	0.998	1.001
6/30/2002	1.727	1.321	1.129	0.997	0.977	0.986	0.992	1.000	0.998	1.002	0.996
6/30/2003	1.626	1.365	1.095	0.985	0.977	0.994	0.993	0.995	0.999	0.996	1.002
6/30/2004	1.625	1.344	1.050	0.976	0.987	0.983	0.992	0.997	1.002	0.999	1.001
6/30/2005	1.635	1.298	1.067	0.979	0.973	0.988	0.996	0.997	1.001	1.000	1.001
6/30/2006	1.522	1.247	1.045	0.984	0.991	1.006	1.000	0.993	0.997	0.996	1.001
6/30/2007	1.502	1.267	1.047	0.996	0.996	0.991	1.000	1.000	0.998	1.001	0.999
6/30/2008	1.507	1.287	1.052	0.991	0.992	1.001	0.995	0.998	1.000	1.001	1.001
6/30/2009	1.586	1.222	1.086	0.995	0.993	0.996	0.995	0.996	0.999	1.002	
6/30/2010	1.425	1.280	1.051	1.007	0.985	0.996	1.003	1.002	0.999		
6/30/2011	1.563	1.243	1.087	0.988	0.984	1.000	0.998	0.999			
6/30/2012	1.489	1.271	1.055	0.998	0.999	1.003	0.999				
6/30/2013	1.639	1.205	1.058	1.022	0.999	0.998					
6/30/2014	1.494	1.312	1.095	0.989	0.997						
6/30/2015	1.589	1.358	1.063	1.011							
6/30/2016	1.678	1.340	1.099								
6/30/2017	1.523	1.338									
6/30/2018	1.657										
3 Yr Mean	1.619	1.345	1.086	1.007	0.998	1.000	1.000	0.999	0.999	1.001	1.000
Best 3/5	1.590	1.330	1.072	0.999	0.994	0.998	0.997	0.999	0.999	1.001	1.001

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.999	1.000	1.001	1.000	1.001	1.000	1.000	1.001			
6/30/2001	1.000	1.001	1.000	0.998	1.001	0.998	1.000	1.001 *			
6/30/2002	1.000	0.999	1.000	1.000	1.000	1.001	1.001 *	1.001 *			
6/30/2003	0.999	0.998	1.000	1.000	1.002	1.001 *	1.001 *	1.001 *			
6/30/2004	1.000	1.001	1.000	1.001	1.000 *	1.001 *	1.001 *	1.001 *			
6/30/2005	1.000	1.000	1.000								
6/30/2006	1.004	1.000									
6/30/2007	1.001										
3 Yr Mean	1.002	1.000	1.000	1.000	1.001 @	1.000 @	1.000 @	1.001 @			
Best 3/5	1.000	1.000	1.000	1.000	1.001 *	1.001 *	1.001 *	1.001 *			

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.994	0.998	0.997	0.999	0.999	1.001	1.001
6/30/2016				0.999	0.994	0.998	0.997	0.999	0.999	1.001	1.001
6/30/2017			1.072	0.999	0.994	0.998	0.997	0.999	0.999	1.001	1.001
6/30/2018		1.330	1.072	0.999	0.994	0.998	0.997	0.999	0.999	1.001	1.001
6/30/2019	1.590	1.330	1.072	0.999	0.994	0.998	0.997	0.999	0.999	1.001	1.001

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004*	0.997
6/30/2016	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004*	0.996
6/30/2017	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004*	1.068
6/30/2018	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004*	1.420
6/30/2019	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.004*	2.258

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
DEDUCTIBLE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	3,941,351	8,127,499	13,489,871	16,670,703	13,604,966	13,791,475	15,135,878	14,367,545	14,191,684	14,233,595	14,052,787
6/30/2001	5,464,491	11,674,896	16,088,050	14,588,558	14,572,751	16,140,363	16,054,237	15,556,710	15,065,178	15,230,310	15,224,462
6/30/2002	5,373,405	10,452,744	13,793,654	15,494,172	15,228,496	15,685,777	14,907,996	15,303,966	14,956,095	15,142,704	15,260,094
6/30/2003	7,665,961	10,442,988	13,918,873	16,383,682	17,052,281	16,018,486	15,821,858	15,479,197	15,468,082	15,283,903	15,691,667
6/30/2004	6,823,508	11,858,280	15,565,208	18,268,194	17,007,661	17,268,751	16,062,622	16,599,207	16,321,870	16,560,908	16,458,238
6/30/2005	7,220,573	12,721,393	16,051,071	16,188,083	16,852,863	16,309,719	16,623,907	16,435,953	16,235,302	15,853,371	15,895,372
6/30/2006	9,325,349	13,883,299	18,547,968	20,126,620	18,918,103	19,237,253	19,476,197	19,248,710	19,229,497	19,082,381	19,239,809
6/30/2007	9,397,504	14,055,412	17,062,934	19,365,173	19,232,756	19,278,946	19,023,794	19,328,510	19,523,111	19,728,336	19,716,901
6/30/2008	11,276,209	15,182,735	19,028,527	20,959,111	21,431,256	20,478,270	20,926,084	20,888,721	20,962,308	20,887,644	20,886,071
6/30/2009	7,078,925	13,737,446	16,607,935	17,342,308	18,508,238	18,295,980	18,515,202	18,274,182	18,514,243	18,646,847	18,812,572
6/30/2010	10,375,187	14,437,696	17,282,575	18,977,518	19,583,440	20,085,579	19,851,581	19,484,941	19,510,868	19,383,868	
6/30/2011	10,692,117	15,791,104	19,399,035	20,786,308	20,682,382	20,780,637	20,892,769	20,673,618	20,622,805		
6/30/2012	8,478,543	14,954,825	19,581,809	20,930,848	21,117,127	21,071,379	21,279,052	21,306,068			
6/30/2013	8,753,818	15,015,028	16,912,388	18,939,284	19,008,857	19,041,920	18,887,546				
6/30/2014	11,103,666	17,321,357	21,063,342	24,173,231	25,243,405	25,509,918					
6/30/2015	9,065,196	15,976,345	21,912,934	25,400,823	25,507,779						
6/30/2016	9,031,618	14,427,489	21,604,143	23,439,341							
6/30/2017	10,134,706	15,883,364	21,357,202								
6/30/2018	12,079,521	19,638,997									
6/30/2019	9,390,308										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	14,101,933	14,192,333	14,174,834	14,179,829	14,174,829	14,081,329	14,081,329	14,118,829	14,081,330		
6/30/2001	15,121,324	15,341,604	15,364,508	15,325,308	15,322,807	15,325,807	15,328,308	15,425,308			
6/30/2002	15,840,417	15,884,346	15,980,006	16,094,407	15,955,735	16,003,235	16,000,235				
6/30/2003	15,874,835	15,931,302	15,927,133	15,878,132	15,935,632	15,935,632					
6/30/2004	16,455,910	16,519,410	16,519,410	16,617,000	16,617,000						
6/30/2005	15,860,795	15,635,162	15,712,662	15,712,662							
6/30/2006	19,373,011	19,397,709	19,397,710								
6/30/2007	19,993,916	19,989,865									
6/30/2008	20,795,571										

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
DEDUCTIBLE  
MULTISTATE  
BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	2.062	1.660	1.236	0.816	1.014	1.097	0.949	0.988	1.003	0.987	1.003
6/30/2001	2.137	1.378	0.907	0.999	1.108	0.995	0.969	0.968	1.011	1.000	0.993
6/30/2002	1.945	1.320	1.123	0.983	1.030	0.950	1.027	0.977	1.012	1.008	1.038
6/30/2003	1.362	1.333	1.177	1.041	0.939	0.988	0.978	0.999	0.988	1.027	1.012
6/30/2004	1.738	1.313	1.174	0.931	1.015	0.930	1.033	0.983	1.015	0.994	1.000
6/30/2005	1.762	1.262	1.009	1.041	0.968	1.019	0.989	0.988	0.976	1.003	0.998
6/30/2006	1.489	1.336	1.085	0.940	1.017	1.012	0.988	0.999	0.992	1.008	1.007
6/30/2007	1.496	1.214	1.135	0.993	1.002	0.987	1.016	1.010	1.011	0.999	1.014
6/30/2008	1.346	1.253	1.101	1.023	0.956	1.022	0.998	1.004	0.996	1.000	0.996
6/30/2009	1.941	1.209	1.044	1.067	0.989	1.012	0.987	1.013	1.007	1.009	
6/30/2010	1.392	1.197	1.098	1.032	1.026	0.988	0.982	1.001	0.993		
6/30/2011	1.477	1.228	1.072	0.995	1.005	1.005	0.990	0.998			
6/30/2012	1.764	1.309	1.069	1.009	0.998	1.010	1.001				
6/30/2013	1.715	1.126	1.120	1.004	1.002	0.992					
6/30/2014	1.560	1.216	1.148	1.044	1.011						
6/30/2015	1.762	1.372	1.159	1.004							
6/30/2016	1.597	1.497	1.085								
6/30/2017	1.567	1.345									
6/30/2018	1.626										
3 Yr Mean	1.597	1.405	1.131	1.017	1.004	1.002	0.991	1.004	0.999	1.003	1.006
Best 3/5	1.597	1.311	1.118	1.006	1.006	1.002	0.992	1.005	0.999	1.004	1.002

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	1.006	0.999	1.000	1.000	0.993	1.000	1.003	0.997			
6/30/2001	1.015	1.001	0.997	1.000	1.000	1.000	1.006	1.001 *			
6/30/2002	1.003	1.006	1.007	0.991	1.003	1.000	1.000 *	1.001 *			
6/30/2003	1.004	1.000	0.997	1.004	1.000	1.000 *	1.000 *	1.001 *			
6/30/2004	1.004	1.000	1.006	1.000	1.000 *	1.000 *	1.000 *	1.001 *			
6/30/2005	0.986	1.005	1.000								
6/30/2006	1.001	1.000									
6/30/2007	1.000										
3 Yr Mean	0.996	1.002	1.001	0.998	1.001 @	1.000 @	1.005 @	0.997 @			
Best 3/5	1.002	1.002	1.001	1.000	1.000 *	1.000 *	1.001 *	1.001 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.006	1.002	0.992	1.005	0.999	1.004	1.002
6/30/2016				1.006	1.006	1.002	0.992	1.005	0.999	1.004	1.002
6/30/2017			1.118	1.006	1.006	1.002	0.992	1.005	0.999	1.004	1.002
6/30/2018		1.311	1.118	1.006	1.006	1.002	0.992	1.005	0.999	1.004	1.002
6/30/2019	1.597	1.311	1.118	1.006	1.006	1.002	0.992	1.005	0.999	1.004	1.002

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.002	1.002	1.001	1.000	1.000	1.000	1.001	1.001	1.004*	1.021
6/30/2016	1.002	1.002	1.001	1.000	1.000	1.000	1.001	1.001	1.004*	1.027
6/30/2017	1.002	1.002	1.001	1.000	1.000	1.000	1.001	1.001	1.004*	1.148
6/30/2018	1.002	1.002	1.001	1.000	1.000	1.000	1.001	1.001	1.004*	1.506
6/30/2019	1.002	1.002	1.001	1.000	1.000	1.000	1.001	1.001	1.004*	2.405

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	9,248,225	21,955,803	43,592,378	65,793,440	79,924,504	85,138,286	92,937,003	94,344,372	92,335,863	95,362,248	92,554,063
6/30/2001	9,356,491	27,217,691	54,387,656	79,181,036	96,065,153	102,504,389	105,559,945	107,902,191	109,440,749	110,327,367	112,122,534
6/30/2002	10,331,026	25,360,625	48,177,854	70,487,716	81,274,951	85,783,657	92,689,904	94,037,031	94,375,218	95,475,571	95,453,003
6/30/2003	10,220,905	26,242,758	46,624,362	65,830,575	75,174,340	81,698,263	84,161,618	86,050,671	87,158,510	87,765,370	87,819,319
6/30/2004	8,948,502	22,926,286	46,845,462	66,081,925	75,535,698	83,216,414	85,474,073	87,139,449	87,539,602	88,104,677	88,351,454
6/30/2005	8,966,025	24,270,727	43,632,406	61,665,625	71,868,133	75,449,639	77,281,036	78,420,410	80,110,303	80,348,780	80,607,989
6/30/2006	6,811,337	22,469,975	44,443,668	61,012,012	72,840,507	78,338,022	83,816,801	86,339,899	87,174,993	89,047,122	89,229,471
6/30/2007	8,306,300	23,871,443	46,249,490	63,264,988	71,917,334	76,986,577	79,041,446	80,342,547	80,828,900	81,362,534	81,456,834
6/30/2008	8,800,275	23,857,367	50,905,523	71,220,445	84,336,032	90,017,263	94,905,269	96,554,400	97,610,032	98,272,189	98,658,181
6/30/2009	9,656,636	24,732,461	47,333,338	67,348,769	78,592,235	88,482,285	90,958,161	92,204,443	92,715,118	93,284,608	94,336,072
6/30/2010	11,724,370	29,261,451	57,691,066	82,063,609	94,543,330	100,139,288	102,098,538	104,452,488	105,292,601	105,563,361	
6/30/2011	12,119,511	34,627,239	57,601,903	81,454,551	93,293,669	105,549,311	107,800,703	109,211,572	110,147,324		
6/30/2012	11,801,174	28,912,171	56,780,056	79,417,456	92,656,997	98,949,182	104,120,329	105,344,808			
6/30/2013	10,051,313	27,554,033	52,415,669	76,025,621	88,712,181	95,207,170	97,995,195				
6/30/2014	10,149,714	28,975,944	59,388,570	84,978,025	96,963,602	104,290,551					
6/30/2015	10,380,228	26,699,496	55,460,451	75,524,687	85,532,854						
6/30/2016	8,872,476	26,975,798	51,288,151	74,930,502							
6/30/2017	11,699,144	29,408,481	55,565,773								
6/30/2018	11,587,264	31,019,854									
6/30/2019	11,804,182										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	92,743,207	92,911,441	92,998,354	93,121,810	93,197,845	93,473,945	93,508,296	93,773,942	93,961,578
6/30/2001	113,158,317	113,225,714	114,089,404	114,792,647	115,084,374	115,842,555	116,690,225	116,891,808	
6/30/2002	95,635,529	96,182,913	96,531,067	96,626,137	96,701,582	96,835,832	97,047,866		
6/30/2003	88,099,650	88,606,400	88,706,745	88,932,185	88,963,620	89,019,579			
6/30/2004	88,367,382	88,365,287	88,409,182	88,144,409	88,145,884				
6/30/2005	80,741,343	81,307,163	81,429,517	81,751,375					
6/30/2006	89,915,588	90,245,391	91,191,078						
6/30/2007	81,617,731	81,618,629							
6/30/2008	98,638,661								

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

A.Y.E.	Increments													
	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>	
6/30/2000	12,707,578	21,636,575	22,201,062	14,131,064	5,213,782	7,798,717	1,407,369	-2,008,509	3,026,385	-2,808,185	189,144	168,234	86,913	
6/30/2001	17,861,200	27,169,965	24,793,380	16,884,117	6,439,236	3,055,556	2,342,246	1,538,558	886,618	1,795,167	1,035,783	67,397	863,690	
6/30/2002	15,029,599	22,817,229	22,309,862	10,787,235	4,508,706	6,906,247	1,347,127	338,187	1,100,353	-22,568	182,526	547,384	348,154	
6/30/2003	16,021,853	20,381,604	19,206,213	9,343,765	6,523,923	2,463,355	1,889,053	1,107,839	606,860	53,949	280,331	506,750	100,345	
6/30/2004	13,977,784	23,919,176	19,236,463	9,453,773	7,680,716	2,257,659	1,665,376	400,153	565,075	246,777	15,928	-2,095	43,895	
6/30/2005	15,304,702	19,361,679	18,033,219	10,202,508	3,581,506	1,831,397	1,139,374	1,689,893	238,477	259,209	133,354	565,820	122,354	
6/30/2006	15,658,638	21,973,693	16,568,344	11,828,495	5,497,515	5,478,779	2,523,098	835,094	1,872,129	182,349	686,117	329,803	945,687	
6/30/2007	15,565,143	22,378,047	17,015,498	8,652,346	5,069,243	2,054,869	1,301,101	486,353	533,634	94,300	160,897	898		
6/30/2008	15,057,092	27,048,156	20,314,922	13,115,587	5,681,231	4,888,006	1,649,131	1,055,632	662,157	385,992	-19,520			
6/30/2009	15,075,825	22,600,877	20,015,431	11,243,466	9,890,050	2,475,876	1,246,282	510,675	569,490	1,051,464				
6/30/2010	17,537,081	28,429,615	24,372,543	12,479,721	5,595,958	1,959,250	2,353,950	840,113	270,760					
6/30/2011	22,507,728	22,974,664	23,852,648	11,839,118	12,255,642	2,251,392	1,410,869	935,752						
6/30/2012	17,110,997	27,867,885	22,637,400	13,239,541	6,292,185	5,171,147	1,224,479							
6/30/2013	17,502,720	24,861,636	23,609,952	12,686,560	6,494,989	2,788,025								
6/30/2014	18,826,230	30,412,626	25,589,455	11,985,577	7,326,949									
6/30/2015	16,319,268	28,760,955	20,064,236	10,008,167										
6/30/2016	18,103,322	24,312,353	23,642,351											
6/30/2017	17,709,337	26,157,292												
6/30/2018	19,432,590													

	Incremental Percentages													
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159	
6/30/2000	0.0445	0.0757	0.0777	0.0494	0.0182	0.0273	0.0049	-0.0070	0.0106	-0.0098	0.0007	0.0006	0.0003	
6/30/2001	0.0583	0.0887	0.0809	0.0551	0.0210	0.0100	0.0076	0.0050	0.0029	0.0059	0.0034	0.0002	0.0028	
6/30/2002	0.0628	0.0953	0.0932	0.0450	0.0188	0.0288	0.0056	0.0014	0.0046	-0.0001	0.0008	0.0023	0.0015	
6/30/2003	0.0669	0.0851	0.0802	0.0390	0.0272	0.0103	0.0079	0.0046	0.0025	0.0002	0.0012	0.0021	0.0004	
6/30/2004	0.0563	0.0963	0.0774	0.0380	0.0309	0.0091	0.0067	0.0016	0.0023	0.0010	0.0001	0.0000	0.0002	
6/30/2005	0.0692	0.0875	0.0815	0.0461	0.0162	0.0083	0.0052	0.0076	0.0011	0.0012	0.0006	0.0026	0.0006	
6/30/2006	0.0682	0.0958	0.0722	0.0515	0.0240	0.0239	0.0110	0.0036	0.0082	0.0008	0.0030	0.0014	0.0041	
6/30/2007	0.0661	0.0950	0.0723	0.0367	0.0215	0.0087	0.0055	0.0021	0.0023	0.0004	0.0007	0.0000		
6/30/2008	0.0576	0.1034	0.0777	0.0501	0.0217	0.0187	0.0063	0.0040	0.0025	0.0015	-0.0001			
6/30/2009	0.0583	0.0875	0.0775	0.0435	0.0383	0.0096	0.0048	0.0020	0.0022	0.0041				
6/30/2010	0.0715	0.1159	0.0993	0.0509	0.0228	0.0080	0.0096	0.0034	0.0011					
6/30/2011	0.0805	0.0822	0.0853	0.0424	0.0438	0.0081	0.0050	0.0033						
6/30/2012	0.0669	0.1089	0.0885	0.0518	0.0246	0.0202	0.0048							
6/30/2013	0.0701	0.0996	0.0946	0.0508	0.0260	0.0112								
6/30/2014	0.0639	0.1032	0.0869	0.0407	0.0249									
6/30/2015	0.0613	0.1081	0.0754	0.0376										
6/30/2016	0.0704	0.0946	0.0920											
6/30/2017	0.0656	0.0969												
6/30/2018	0.0655													

Best 3/5	0.0650	0.0999	0.0891	0.0446	0.0252	0.0096	0.0054	0.0029	0.0023	0.0011	0.0005	0.0012	0.0008
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PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:												
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months	
6/30/2000	102,661,327	127,396,292	129,641,311	135,140,611	135,037,844	134,215,283	133,116,719	133,775,962	134,110,074	134,603,164	134,453,431	
6/30/2001	111,538,077	119,161,517	129,791,407	134,669,083	135,134,427	135,656,279	136,436,945	136,267,325	136,777,176	137,188,395	137,931,509	
6/30/2002	93,247,753	106,511,754	111,445,991	113,125,901	113,081,618	113,999,985	113,776,474	113,911,978	114,065,581	114,547,922	114,865,890	
6/30/2003	80,176,330	89,102,490	93,731,347	95,685,239	95,511,629	96,157,049	96,415,913	97,469,538	97,652,723	97,708,065	97,916,690	
6/30/2004	91,097,100	104,023,086	108,326,329	108,752,689	109,263,429	109,788,692	109,677,538	110,135,059	110,387,581	110,466,061	110,723,407	
6/30/2005	96,308,770	103,379,002	104,206,844	106,362,410	106,817,619	106,810,290	107,300,657	108,185,736	108,370,847	108,848,779	108,885,255	
6/30/2006	97,260,578	106,157,692	108,766,605	109,971,737	110,989,155	111,950,024	112,511,441	112,903,641	113,100,644	113,804,507	113,847,961	
6/30/2007	101,710,422	111,038,262	113,434,698	114,991,640	116,636,567	117,530,068	118,402,116	119,091,838	120,039,903	120,311,120	120,149,706	
6/30/2008	107,974,770	117,763,744	120,152,353	121,600,996	123,404,037	124,334,757	125,205,210	125,774,625	126,453,345	126,741,748	127,821,523	
6/30/2009	107,839,531	115,948,965	119,414,429	122,110,594	121,995,440	122,874,431	123,376,442	123,792,314	125,274,547	125,978,924	126,227,065	
6/30/2010	101,535,047	110,781,053	113,342,073	115,125,335	116,423,377	116,406,473	116,969,109	117,255,541	117,899,628	118,063,577		
6/30/2011	114,084,272	123,547,225	127,119,287	127,536,183	128,131,422	128,814,006	129,069,410	129,990,361	130,486,820			
6/30/2012	115,724,744	124,255,961	126,691,565	127,395,865	128,327,215	128,932,774	130,057,149	130,905,262				
6/30/2013	105,944,724	115,771,450	120,416,815	121,727,791	122,303,481	123,607,964	124,177,079					
6/30/2014	104,719,792	113,325,980	118,453,755	119,970,718	122,801,082	123,726,852						
6/30/2015	102,284,613	112,771,480	119,238,929	125,364,429	126,060,345							
6/30/2016	104,848,319	116,199,437	123,178,745	125,608,239								
6/30/2017	110,932,095	125,964,883	132,488,313									
6/30/2018	120,448,707	135,093,966										
6/30/2019	116,898,691											

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
6/30/2000	135,042,548	134,460,077	134,354,087	134,358,231	134,451,389	134,436,831	134,618,768	134,864,917	135,028,887
6/30/2001	137,921,069	137,846,788	137,993,210	138,039,074	138,150,533	138,314,301	138,567,514	138,697,227	
6/30/2002	114,862,133	115,091,628	115,521,153	116,025,857	116,114,984	115,939,109	116,483,665		
6/30/2003	98,388,268	98,446,522	98,658,658	98,649,807	98,683,986	98,779,275			
6/30/2004	111,026,272	111,148,486	111,578,489	111,780,808	111,814,658				
6/30/2005	108,930,584	109,410,208	109,462,907	109,501,990					
6/30/2006	113,955,874	114,657,351	114,683,094						
6/30/2007	120,456,218	120,515,234							
6/30/2008	128,120,392								

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.241	1.018	1.042	0.999	0.994	0.992	1.005	1.002	1.004	0.999	1.004
6/30/2001	1.068	1.089	1.038	1.003	1.004	1.006	0.999	1.004	1.003	1.005	1.000
6/30/2002	1.142	1.046	1.015	1.000	1.008	0.998	1.001	1.001	1.004	1.003	1.000
6/30/2003	1.111	1.052	1.021	0.998	1.007	1.003	1.011	1.002	1.001	1.002	1.005
6/30/2004	1.142	1.041	1.004	1.005	1.005	0.999	1.004	1.002	1.001	1.002	1.003
6/30/2005	1.073	1.008	1.021	1.004	1.000	1.005	1.008	1.002	1.004	1.000	1.000
6/30/2006	1.091	1.025	1.011	1.009	1.009	1.005	1.003	1.002	1.006	1.000	1.001
6/30/2007	1.092	1.022	1.014	1.014	1.008	1.007	1.006	1.008	1.002	0.999	1.003
6/30/2008	1.091	1.020	1.012	1.015	1.008	1.007	1.005	1.005	1.002	1.009	1.002
6/30/2009	1.075	1.030	1.023	0.999	1.007	1.004	1.003	1.012	1.006	1.002	
6/30/2010	1.091	1.023	1.016	1.011	1.000	1.005	1.002	1.005	1.001		
6/30/2011	1.083	1.029	1.003	1.005	1.005	1.002	1.007	1.004			
6/30/2012	1.074	1.020	1.006	1.007	1.005	1.009	1.007				
6/30/2013	1.093	1.040	1.011	1.005	1.011	1.005					
6/30/2014	1.082	1.045	1.013	1.024	1.008						
6/30/2015	1.103	1.057	1.051	1.006							
6/30/2016	1.108	1.060	1.020								
6/30/2017	1.136	1.052									
6/30/2018	1.122										
3 Yr Mean	1.122	1.056	1.028	1.012	1.008	1.005	1.005	1.007	1.003	1.003	1.002
Best 3/5	1.111	1.051	1.015	1.006	1.006	1.005	1.005	1.006	1.003	1.001	1.002

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.996	0.999	1.000	1.001	1.000	1.001	1.002	1.001			
6/30/2001	0.999	1.001	1.000	1.001	1.001	1.002	1.001	1.001 *			
6/30/2002	1.002	1.004	1.004	1.001	0.998	1.005	1.001 *	1.001 *			
6/30/2003	1.001	1.002	1.000	1.000	1.001	1.001 *	1.001 *	1.001 *			
6/30/2004	1.001	1.004	1.002	1.000	1.001 *	1.001 *	1.001 *	1.001 *			
6/30/2005	1.004	1.000	1.000								
6/30/2006	1.006	1.000									
6/30/2007	1.000										
3 Yr Mean	1.003	1.001	1.001	1.000	1.000 @	1.003 @	1.002 @	1.001 @			
Best 3/5	1.002	1.002	1.001	1.001	1.001 *	1.001 *	1.001 *	1.001 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.006	1.005	1.005	1.006	1.003	1.001	1.002
6/30/2016				1.006	1.006	1.005	1.005	1.006	1.003	1.001	1.002
6/30/2017			1.015	1.006	1.006	1.005	1.005	1.006	1.003	1.001	1.002
6/30/2018		1.051	1.015	1.006	1.006	1.005	1.005	1.006	1.003	1.001	1.002
6/30/2019	1.111	1.051	1.015	1.006	1.006	1.005	1.005	1.006	1.003	1.001	1.002

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.004*	1.043
6/30/2016	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.004*	1.049
6/30/2017	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.004*	1.065
6/30/2018	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.004*	1.119
6/30/2019	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.004*	1.243

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
DEDUCTIBLE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	17,673,675	22,108,271	25,001,569	27,241,256	28,001,814	27,754,507	28,102,944	27,933,654	28,047,877	28,348,695	28,646,289
6/30/2001	20,940,497	26,001,196	28,398,309	29,878,968	30,356,461	30,772,349	31,066,677	31,806,376	32,401,002	32,373,406	32,085,749
6/30/2002	19,194,547	23,680,907	23,886,327	24,026,676	24,379,225	25,607,403	25,660,486	26,313,057	26,291,869	26,357,931	26,355,078
6/30/2003	19,975,742	21,790,867	21,959,531	22,529,924	23,684,404	23,582,781	24,072,694	24,288,895	24,482,993	24,687,867	24,718,206
6/30/2004	20,012,295	22,879,381	24,915,859	25,152,370	25,341,072	25,857,002	26,040,661	26,192,753	26,276,736	26,354,121	26,512,244
6/30/2005	21,094,878	23,983,166	25,747,473	26,303,541	26,396,925	26,084,589	26,360,298	26,494,550	26,959,431	27,145,596	27,241,773
6/30/2006	20,984,380	24,358,050	25,391,313	25,715,173	25,495,867	25,778,894	25,985,259	26,188,650	26,334,463	26,732,434	26,698,176
6/30/2007	24,879,237	26,525,350	27,646,747	27,597,777	27,494,570	27,244,526	27,605,737	27,490,615	27,534,031	27,655,349	27,705,260
6/30/2008	25,902,340	28,878,327	30,205,350	31,036,227	30,481,547	30,971,562	31,129,502	31,103,275	31,547,743	31,672,568	31,815,617
6/30/2009	27,150,650	27,485,317	28,662,436	28,868,280	28,695,095	28,678,532	28,409,304	28,740,068	28,966,992	29,147,572	29,146,740
6/30/2010	21,354,848	23,074,353	23,448,995	23,745,828	23,738,685	23,861,160	24,485,451	24,381,149	24,554,984	24,532,897	
6/30/2011	22,720,306	23,645,352	24,491,764	24,246,283	24,443,116	24,663,483	24,743,616	25,231,705	25,014,563		
6/30/2012	21,917,930	24,092,545	24,879,321	25,157,589	25,131,256	25,318,254	25,513,918	25,500,312			
6/30/2013	20,476,337	22,840,025	23,865,248	23,846,693	23,413,535	23,390,529	23,460,398				
6/30/2014	22,237,658	24,162,553	24,654,007	24,911,288	25,108,344	25,387,437					
6/30/2015	23,708,573	26,288,165	27,062,341	27,962,234	27,956,023						
6/30/2016	24,671,300	26,339,545	27,395,020	26,613,959							
6/30/2017	21,601,096	24,953,274	26,969,719								
6/30/2018	24,312,634	26,344,705									
6/30/2019	22,453,806										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	28,588,071	28,403,187	28,402,784	28,357,784	28,360,115	28,208,092	28,224,659	28,227,838	28,229,522		
6/30/2001	32,263,545	32,436,704	32,545,972	32,554,564	32,454,377	32,503,444	32,516,722	32,528,767			
6/30/2002	26,539,135	26,580,664	26,418,748	26,284,831	26,294,995	26,207,234	26,194,214				
6/30/2003	24,786,803	24,727,745	24,681,698	24,768,514	24,727,942	24,735,216					
6/30/2004	26,500,572	26,467,889	26,504,604	26,512,560	26,621,775						
6/30/2005	27,121,437	27,300,316	27,365,808	27,212,795							
6/30/2006	26,880,154	26,803,603	26,817,228								
6/30/2007	27,801,753	27,793,534									
6/30/2008	31,765,718										



PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 DEDUCTIBLE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

A.Y.E.	Link Ratios										
	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.251	1.131	1.090	1.028	0.991	1.013	0.994	1.004	1.011	1.010	0.998
6/30/2001	1.242	1.092	1.052	1.016	1.014	1.010	1.024	1.019	0.999	0.991	1.006
6/30/2002	1.234	1.009	1.006	1.015	1.050	1.002	1.025	0.999	1.003	1.000	1.007
6/30/2003	1.091	1.008	1.026	1.051	0.996	1.021	1.009	1.008	1.008	1.001	1.003
6/30/2004	1.143	1.089	1.009	1.008	1.020	1.007	1.006	1.003	1.003	1.006	1.000
6/30/2005	1.137	1.074	1.022	1.004	0.988	1.011	1.005	1.018	1.007	1.004	0.996
6/30/2006	1.161	1.042	1.013	0.991	1.011	1.008	1.008	1.006	1.015	0.999	1.007
6/30/2007	1.066	1.042	0.998	0.996	0.991	1.013	0.996	1.002	1.004	1.002	1.003
6/30/2008	1.115	1.046	1.028	0.982	1.016	1.005	0.999	1.014	1.004	1.005	0.998
6/30/2009	1.012	1.043	1.007	0.994	0.999	0.991	1.012	1.008	1.006	1.000	
6/30/2010	1.081	1.016	1.013	1.000	1.005	1.026	0.996	1.007	0.999		
6/30/2011	1.041	1.036	0.990	1.008	1.009	1.003	1.020	0.991			
6/30/2012	1.099	1.033	1.011	0.999	1.007	1.008	0.999				
6/30/2013	1.115	1.045	0.999	0.982	0.999	1.003					
6/30/2014	1.087	1.020	1.010	1.008	1.011						
6/30/2015	1.109	1.029	1.033	1.000							
6/30/2016	1.068	1.040	0.971								
6/30/2017	1.155	1.081									
6/30/2018	1.084										
3 Yr Mean	1.102	1.050	1.005	0.997	1.006	1.005	1.005	1.002	1.003	1.002	1.003
Best 3/5	1.093	1.038	1.007	1.002	1.007	1.005	1.003	1.006	1.005	1.002	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.994	1.000	0.998	1.000	0.995	1.001	1.000	1.000			
6/30/2001	1.005	1.003	1.000	0.997	1.002	1.000	1.000	1.000 *			
6/30/2002	1.002	0.994	0.995	1.000	0.997	1.000	1.000 *	1.000 *			
6/30/2003	0.998	0.998	1.004	0.998	1.000	0.999 *	1.000 *	1.000 *			
6/30/2004	0.999	1.001	1.000	1.004	1.000 *	0.999 *	1.000 *	1.000 *			
6/30/2005	1.007	1.002	0.994								
6/30/2006	0.997	1.001									
6/30/2007	1.000										
3 Yr Mean	1.001	1.001	0.999	1.001	1.000 @	1.000 @	1.000 @	1.000 @			
Best 3/5	0.999	1.000	0.998	0.999	0.999 *	1.000 *	1.000 *	1.000 *			

A.Y.E.	Development From										
	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.007	1.005	1.003	1.006	1.005	1.002	1.000
6/30/2016				1.002	1.007	1.005	1.003	1.006	1.005	1.002	1.000
6/30/2017			1.007	1.002	1.007	1.005	1.003	1.006	1.005	1.002	1.000
6/30/2018		1.038	1.007	1.002	1.007	1.005	1.003	1.006	1.005	1.002	1.000
6/30/2019	1.093	1.038	1.007	1.002	1.007	1.005	1.003	1.006	1.005	1.002	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	0.999	1.000	0.998	0.999	0.999	1.000	1.000	1.000	1.000*	1.023
6/30/2016	0.999	1.000	0.998	0.999	0.999	1.000	1.000	1.000	1.000*	1.025
6/30/2017	0.999	1.000	0.998	0.999	0.999	1.000	1.000	1.000	1.000*	1.032
6/30/2018	0.999	1.000	0.998	0.999	0.999	1.000	1.000	1.000	1.000*	1.072
6/30/2019	0.999	1.000	0.998	0.999	0.999	1.000	1.000	1.000	1.000*	1.171

\* Calculated Using Modified Bondy Method  
 @ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	9,259,565	16,755,240	21,739,170	29,440,835	35,010,131	40,767,178	44,240,220	47,342,439	50,512,090	51,834,831	51,653,659
6/30/2001	10,305,391	15,057,682	24,524,460	35,340,392	46,081,957	52,076,318	57,229,694	60,410,585	62,165,956	63,083,266	64,946,162
6/30/2002	7,318,287	14,569,822	20,992,159	27,748,897	34,186,680	39,049,047	41,604,047	42,805,944	44,218,213	44,453,156	44,966,695
6/30/2003	7,545,176	13,914,707	20,872,557	27,774,546	32,979,096	33,900,466	37,674,083	38,340,977	39,473,984	40,637,086	41,639,401
6/30/2004	6,456,908	13,374,881	21,498,127	28,825,049	33,065,897	36,039,345	37,154,675	38,682,804	39,906,405	40,382,646	40,894,580
6/30/2005	8,104,742	12,968,671	18,822,537	25,054,737	29,519,324	32,320,219	35,278,007	36,671,220	37,844,112	38,342,303	38,724,459
6/30/2006	7,940,920	14,193,778	22,052,718	28,185,528	33,536,663	37,770,224	40,166,051	42,228,197	43,809,935	45,000,716	45,884,753
6/30/2007	7,270,795	13,508,321	21,060,383	27,689,467	33,368,682	37,779,430	40,022,763	41,607,611	43,717,763	44,619,835	45,219,088
6/30/2008	8,943,343	16,889,120	25,871,163	33,289,818	39,144,351	41,116,072	43,145,842	46,774,479	48,587,781	50,788,565	51,820,926
6/30/2009	8,020,100	14,938,514	22,494,974	29,686,293	34,851,746	37,198,843	38,827,029	40,122,646	41,435,642	42,708,422	43,443,876
6/30/2010	8,906,045	17,861,522	23,693,746	30,793,502	34,860,647	36,663,524	39,663,472	40,629,264	42,631,081	43,434,212	
6/30/2011	8,915,118	15,331,728	24,018,708	30,069,115	33,369,369	36,040,563	37,407,109	39,313,407	40,995,695		
6/30/2012	9,966,205	16,695,953	23,398,336	26,357,303	30,428,057	33,236,799	33,941,640	35,111,832			
6/30/2013	9,378,284	18,762,659	28,963,568	38,098,424	44,884,864	49,017,488	51,130,609				
6/30/2014	9,003,782	18,686,345	28,876,549	35,313,476	42,128,460	46,147,356					
6/30/2015	7,590,175	14,890,302	23,783,794	32,794,668	42,811,350						
6/30/2016	9,957,987	20,132,354	27,220,501	33,774,371							
6/30/2017	9,774,690	16,649,737	24,311,703								
6/30/2018	10,569,978	19,072,363									
6/30/2019	11,458,814										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	53,231,730	53,106,119	52,684,170	52,685,513	52,721,322	52,726,609	52,805,172	52,842,520	52,933,234
6/30/2001	66,430,766	66,260,318	65,919,735	66,282,709	66,377,721	66,555,218	66,637,446	66,930,029	
6/30/2002	45,662,297	45,882,068	46,859,157	47,089,715	47,119,114	47,433,658	48,087,820		
6/30/2003	42,522,794	43,602,105	43,868,167	43,957,440	44,114,397	44,303,692			
6/30/2004	41,342,157	41,695,923	43,624,829	44,150,334	44,970,269				
6/30/2005	38,623,439	39,409,469	39,756,612	39,994,423					
6/30/2006	46,775,260	47,371,810	47,924,855						
6/30/2007	45,870,473	46,379,884							
6/30/2008	52,774,447								

PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	7,495,675	4,983,930	7,701,665	5,569,296	5,757,047	3,473,042	3,102,219	3,169,651	1,322,741	-181,172	1,578,071	-125,611	-421,949
6/30/2001	4,752,291	9,466,778	10,815,932	10,741,565	5,994,361	5,153,376	3,180,891	1,755,371	917,310	1,862,896	1,484,604	-170,448	-340,583
6/30/2002	7,251,535	6,422,337	6,756,738	6,437,783	4,862,367	2,555,000	1,201,897	1,412,269	234,943	513,539	695,602	219,771	977,089
6/30/2003	6,369,531	6,957,850	6,901,989	5,204,550	921,370	3,773,617	666,894	1,133,007	1,163,102	1,002,315	883,393	1,079,311	266,062
6/30/2004	6,917,973	8,123,246	7,326,922	4,240,848	2,973,448	1,115,330	1,528,129	1,223,601	476,241	511,934	447,577	353,766	1,928,906
6/30/2005	4,863,929	5,853,866	6,232,200	4,464,587	2,800,895	2,957,788	1,393,213	1,172,892	498,191	382,156	-101,020	786,030	347,143
6/30/2006	6,252,858	7,858,940	6,132,810	5,351,135	4,233,561	2,395,827	2,062,146	1,581,738	1,190,781	884,037	890,507	596,550	553,045
6/30/2007	6,237,526	7,552,062	6,629,084	5,679,215	4,410,748	2,243,333	1,584,848	2,110,152	902,072	599,253	651,385	509,411	
6/30/2008	7,945,777	8,982,043	7,418,655	5,854,533	1,971,721	2,029,770	3,628,637	1,813,302	2,200,784	1,032,361	953,521		
6/30/2009	6,918,414	7,556,460	7,191,319	5,165,453	2,347,097	1,628,186	1,295,617	1,312,996	1,272,780	735,454			
6/30/2010	8,955,477	5,832,224	7,099,756	4,067,145	1,802,877	2,999,948	965,792	2,001,817	803,131				
6/30/2011	6,416,610	8,686,980	6,050,407	3,300,254	2,671,194	1,366,546	1,906,298	1,682,288					
6/30/2012	6,729,748	6,702,383	2,958,967	4,070,754	2,808,742	704,841	1,170,192						
6/30/2013	9,384,375	10,200,909	9,134,856	6,786,440	4,132,624	2,113,121							
6/30/2014	9,682,563	10,190,204	6,436,927	6,814,984	4,018,896								
6/30/2015	7,300,127	8,893,492	9,010,874	10,016,682									
6/30/2016	10,174,367	7,088,147	6,553,870										
6/30/2017	6,875,047	7,661,966											
6/30/2018	8,502,385												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0419	0.0278	0.0430	0.0311	0.0322	0.0194	0.0173	0.0177	0.0074	-0.0010	0.0088	-0.0007	-0.0024
6/30/2001	0.0261	0.0521	0.0595	0.0591	0.0330	0.0283	0.0175	0.0097	0.0050	0.0102	0.0082	-0.0009	-0.0019
6/30/2002	0.0472	0.0418	0.0440	0.0419	0.0316	0.0166	0.0078	0.0092	0.0015	0.0033	0.0045	0.0014	0.0064
6/30/2003	0.0493	0.0538	0.0534	0.0403	0.0071	0.0292	0.0052	0.0088	0.0090	0.0078	0.0068	0.0083	0.0021
6/30/2004	0.0472	0.0555	0.0500	0.0290	0.0203	0.0076	0.0104	0.0084	0.0033	0.0035	0.0031	0.0024	0.0132
6/30/2005	0.0340	0.0410	0.0436	0.0312	0.0196	0.0207	0.0098	0.0082	0.0035	0.0027	-0.0007	0.0055	0.0024
6/30/2006	0.0418	0.0526	0.0410	0.0358	0.0283	0.0160	0.0138	0.0106	0.0080	0.0059	0.0060	0.0040	0.0037
6/30/2007	0.0409	0.0496	0.0435	0.0373	0.0290	0.0147	0.0104	0.0139	0.0059	0.0039	0.0043	0.0033	
6/30/2008	0.0457	0.0517	0.0427	0.0337	0.0113	0.0117	0.0209	0.0104	0.0127	0.0059	0.0055		
6/30/2009	0.0413	0.0452	0.0430	0.0309	0.0140	0.0097	0.0077	0.0078	0.0076	0.0044			
6/30/2010	0.0570	0.0371	0.0452	0.0259	0.0115	0.0191	0.0062	0.0127	0.0051				
6/30/2011	0.0361	0.0489	0.0341	0.0186	0.0150	0.0077	0.0107	0.0095					
6/30/2012	0.0384	0.0382	0.0169	0.0232	0.0160	0.0040	0.0067						
6/30/2013	0.0552	0.0600	0.0537	0.0399	0.0243	0.0124							
6/30/2014	0.0549	0.0578	0.0365	0.0386	0.0228								
6/30/2015	0.0406	0.0494	0.0501	0.0557									
6/30/2016	0.0566	0.0394	0.0365										
6/30/2017	0.0357	0.0398											
6/30/2018	0.0400												

Best 3/5	0.0451	0.0490	0.0410	0.0339	0.0179	0.0099	0.0084	0.0109	0.0072	0.0047	0.0043	0.0043	0.0042
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PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MULTISTATE  
 FRINGE COVERAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	9,984,512	12,876,470	15,631,844	16,857,655	16,738,847	16,662,320	16,820,635	17,141,583	16,781,486	16,753,549	16,797,644
6/30/2001	9,504,099	13,647,728	16,018,935	16,435,285	16,841,736	17,035,114	17,647,573	17,840,740	17,384,247	17,121,743	17,326,861
6/30/2002	9,426,888	13,793,259	14,994,024	15,148,340	15,541,887	15,184,907	14,852,650	14,695,463	14,658,155	14,481,889	14,399,545
6/30/2003	9,511,522	10,525,056	11,906,404	13,237,380	12,452,607	12,543,444	11,661,272	11,807,044	11,879,795	11,662,050	11,709,067
6/30/2004	12,078,325	17,789,587	21,264,516	21,913,501	21,934,636	20,387,268	19,640,961	19,530,632	19,351,208	19,527,080	19,277,244
6/30/2005	12,761,808	15,834,097	17,691,913	18,199,025	17,320,818	16,865,257	16,741,856	16,826,834	16,819,879	16,702,013	16,699,823
6/30/2006	13,552,096	17,608,318	18,485,273	17,736,124	17,608,334	17,388,440	17,229,825	17,201,229	16,951,634	17,243,384	17,120,287
6/30/2007	13,110,068	15,010,194	16,616,390	16,678,277	15,700,846	15,573,029	15,187,716	15,304,570	15,033,355	15,009,697	15,104,063
6/30/2008	9,896,789	11,757,941	12,275,298	12,165,008	12,027,643	11,661,734	11,475,818	11,458,830	11,534,509	11,509,718	11,694,052
6/30/2009	8,334,431	10,657,717	11,227,231	11,146,403	10,989,220	10,923,899	10,558,298	10,502,290	10,365,912	10,378,600	10,233,796
6/30/2010	9,330,643	10,563,486	11,462,719	11,535,597	10,986,165	11,005,756	11,076,715	11,011,441	11,072,976	11,070,073	
6/30/2011	7,674,699	9,075,711	9,971,451	9,104,188	9,238,076	9,336,636	9,698,931	9,686,166	9,741,091		
6/30/2012	5,654,940	6,948,069	7,412,056	8,360,688	7,957,459	8,406,909	8,365,930	8,582,502			
6/30/2013	6,015,486	7,184,946	7,807,475	8,381,477	8,616,479	8,780,057	8,845,854				
6/30/2014	5,599,711	8,451,210	9,865,169	10,287,036	10,242,608	10,305,290					
6/30/2015	7,335,065	9,923,861	10,518,746	11,605,987	11,512,478						
6/30/2016	6,681,718	8,315,546	9,109,036	9,216,090							
6/30/2017	6,012,067	8,176,424	9,228,941								
6/30/2018	7,417,298	8,842,600									
6/30/2019	5,291,569										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	16,811,343	16,809,632	16,797,616	16,841,200	16,822,759	16,820,943	16,814,113	16,814,128	16,814,113		
6/30/2001	17,144,098	17,100,152	17,343,088	17,228,088	17,328,088	17,308,079	17,408,063	17,408,063			
6/30/2002	14,520,574	14,459,463	14,448,932	14,479,752	14,467,248	14,467,248	14,467,248				
6/30/2003	11,460,804	11,460,804	11,560,804	11,568,804	11,568,804	11,668,804					
6/30/2004	19,365,888	19,388,540	19,370,888	19,370,891	19,380,888						
6/30/2005	16,599,823	16,538,843	16,533,843								
6/30/2006	17,013,392	16,999,226	17,001,574								
6/30/2007	15,099,813	15,099,813									
6/30/2008	11,702,849										

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.290	1.214	1.078	0.993	0.995	1.010	1.019	0.979	0.998	1.003	1.001
6/30/2001	1.436	1.174	1.026	1.025	1.011	1.036	1.011	0.974	0.985	1.012	0.989
6/30/2002	1.463	1.087	1.010	1.026	0.977	0.978	0.989	0.997	0.988	0.994	1.008
6/30/2003	1.107	1.131	1.112	0.941	1.007	0.930	1.013	1.006	0.982	1.004	0.979
6/30/2004	1.473	1.195	1.031	1.001	0.929	0.963	0.994	0.991	1.009	0.987	1.005
6/30/2005	1.241	1.117	1.029	0.952	0.974	0.993	1.005	1.000	0.993	1.000	0.994
6/30/2006	1.299	1.050	0.959	0.993	0.988	0.991	0.998	0.985	1.017	0.993	0.994
6/30/2007	1.145	1.107	1.004	0.941	0.992	0.975	1.008	0.982	0.998	1.006	1.000
6/30/2008	1.188	1.044	0.991	0.989	0.970	0.984	0.999	1.007	0.998	1.016	1.001
6/30/2009	1.279	1.053	0.993	0.986	0.994	0.967	0.995	0.987	1.001	0.986	
6/30/2010	1.132	1.085	1.006	0.952	1.002	1.006	0.994	1.006	1.000		
6/30/2011	1.183	1.099	0.913	1.015	1.011	1.039	0.999	1.006			
6/30/2012	1.229	1.067	1.128	0.952	1.056	0.995	1.026				
6/30/2013	1.194	1.087	1.074	1.028	1.019	1.007					
6/30/2014	1.509	1.167	1.043	0.996	1.006						
6/30/2015	1.353	1.060	1.103	0.992							
6/30/2016	1.245	1.095	1.012								
6/30/2017	1.360	1.129									
6/30/2018	1.192										
3 Yr Mean	1.266	1.095	1.053	1.005	1.027	1.014	1.006	1.000	1.000	1.003	0.998
Best 3/5	1.319	1.104	1.073	1.001	1.012	1.003	0.998	1.000	1.000	1.000	0.998

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	1.000	0.999	1.003	0.999	1.000	1.000	1.000	1.000			
6/30/2001	0.997	1.014	0.993	1.006	0.999	1.006	1.000	1.000 *			
6/30/2002	0.996	0.999	1.002	0.999	1.000	1.000	1.000 *	1.000 *			
6/30/2003	1.000	1.009	1.001	1.000	1.009	1.000 *	1.000 *	1.000 *			
6/30/2004	1.001	0.999	1.000	1.001	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2005	0.996	1.000	1.000								
6/30/2006	0.999	1.000									
6/30/2007	1.000										
3 Yr Mean	0.998	1.000	1.000	1.000	1.003 @	1.002 @	1.000 @	1.000 @			
Best 3/5	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.012	1.003	0.998	1.000	1.000	1.000	0.998
6/30/2016				1.001	1.012	1.003	0.998	1.000	1.000	1.000	0.998
6/30/2017			1.073	1.001	1.012	1.003	0.998	1.000	1.000	1.000	0.998
6/30/2018		1.104	1.073	1.001	1.012	1.003	0.998	1.000	1.000	1.000	0.998
6/30/2019	1.319	1.104	1.073	1.001	1.012	1.003	0.998	1.000	1.000	1.000	0.998

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.011
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.012
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.086
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.199
6/30/2019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.581

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	2,605,664	5,408,691	8,551,012	11,487,550	12,440,382	13,789,507	14,508,179	15,128,584	16,853,048	17,850,894	18,276,339
6/30/2001	2,375,468	7,102,112	10,989,865	13,590,095	15,493,861	16,180,282	16,846,136	17,529,139	18,207,581	18,461,038	18,717,657
6/30/2002	1,573,884	6,644,331	10,211,718	11,519,782	12,907,202	14,150,633	14,314,330	14,627,036	14,751,033	14,895,905	14,957,337
6/30/2003	1,643,884	4,283,747	6,386,039	9,453,378	10,339,243	11,137,381	11,335,894	11,868,772	12,208,175	12,279,159	12,324,646
6/30/2004	1,674,051	4,808,252	9,060,436	14,406,091	21,644,440	24,870,986	21,039,807	20,990,499	21,928,963	21,896,805	23,277,409
6/30/2005	2,095,394	4,519,224	10,653,281	12,970,048	15,204,989	16,152,593	16,427,705	16,594,889	17,007,992	18,240,606	18,253,582
6/30/2006	1,299,968	4,375,290	9,892,647	14,959,142	17,021,773	18,502,038	19,102,816	19,240,366	19,635,548	19,488,881	19,711,452
6/30/2007	2,150,932	4,441,432	7,071,929	9,004,086	10,570,784	11,512,753	11,818,750	12,568,868	12,633,094	12,662,568	12,625,069
6/30/2008	1,764,591	5,188,682	10,382,793	11,832,606	13,232,887	14,355,484	14,777,469	15,510,394	15,763,456	15,836,820	15,884,729
6/30/2009	1,123,223	2,939,925	7,132,734	12,123,891	13,387,990	14,801,845	16,019,666	16,350,388	17,271,225	17,864,911	17,696,557
6/30/2010	1,745,763	5,170,238	9,157,729	11,436,829	13,633,987	13,950,913	14,417,905	14,525,760	14,919,381	14,928,305	
6/30/2011	992,739	3,358,549	9,943,926	14,458,367	17,360,989	19,298,922	21,577,015	21,334,425	21,580,439		
6/30/2012	1,072,834	4,071,240	8,076,976	12,429,016	12,725,907	14,039,942	14,727,050	14,653,711			
6/30/2013	1,951,077	4,253,907	8,347,248	10,025,009	11,105,734	11,404,501	12,149,541				
6/30/2014	1,829,817	5,105,348	9,230,862	11,210,950	15,873,753	16,258,868					
6/30/2015	2,741,080	5,126,454	8,508,556	11,976,570	12,648,716						
6/30/2016	1,896,320	5,906,217	8,182,622	11,185,500							
6/30/2017	1,090,762	3,213,608	4,752,667								
6/30/2018	3,505,277	5,889,520									
6/30/2019	1,018,166										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	18,487,343	18,504,050	18,513,924	18,515,338	18,535,968	18,538,208	18,523,443	18,523,454	18,544,215
6/30/2001	18,896,564	19,121,366	20,429,659	19,388,370	20,289,360	20,203,819	20,253,807	20,353,807	
6/30/2002	15,012,790	15,052,474	15,192,842	15,234,085	15,245,091	15,245,091	15,245,091		
6/30/2003	12,466,415	12,459,026	12,459,026	12,459,026	12,459,032	12,665,017			
6/30/2004	23,013,909	23,107,362	23,700,141	23,700,141	23,702,480				
6/30/2005	18,317,884	18,332,152	18,339,490	18,359,639					
6/30/2006	19,765,407	19,766,348	19,767,914						
6/30/2007	12,625,069	12,625,069							
6/30/2008	15,880,490								

PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MULTISTATE  
 FRINGE COVERAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

A.Y.E.	Increments												
	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
6/30/2000	2,803,027	3,142,321	2,936,538	952,832	1,349,125	718,672	620,405	1,724,464	997,846	425,445	211,004	16,707	9,874
6/30/2001	4,726,644	3,887,753	2,600,230	1,903,766	686,421	665,854	683,003	678,442	253,457	256,619	178,907	224,802	1,308,293
6/30/2002	5,070,447	3,567,387	1,308,064	1,387,420	1,243,431	163,697	312,706	123,997	144,872	61,432	55,453	39,684	140,368
6/30/2003	2,639,863	2,102,292	3,067,339	885,865	798,138	198,513	532,878	339,403	70,984	45,487	141,769	-7,389	0
6/30/2004	3,134,201	4,252,184	5,345,655	7,238,349	3,226,546	-3,831,179	-49,308	938,464	-32,158	1,380,604	-263,500	93,453	592,779
6/30/2005	2,423,830	6,134,057	2,316,767	2,234,941	947,604	275,112	167,184	413,103	1,232,614	12,976	64,302	14,268	7,338
6/30/2006	3,075,322	5,517,357	5,066,495	2,062,631	1,480,265	600,778	137,550	395,182	-146,667	222,571	53,955	941	1,566
6/30/2007	2,290,500	2,630,497	1,932,157	1,566,698	941,969	305,997	750,118	64,226	29,474	-37,499	0	0	
6/30/2008	3,424,091	5,194,111	1,449,813	1,400,281	1,122,597	421,985	732,925	253,062	73,364	47,909	-4,239		
6/30/2009	1,816,702	4,192,809	4,991,157	1,264,099	1,413,855	1,217,821	330,722	920,837	593,686	-168,354			
6/30/2010	3,424,475	3,987,491	2,279,100	2,197,158	316,926	466,992	107,855	393,621	8,924				
6/30/2011	2,365,810	6,585,377	4,514,441	2,902,622	1,937,933	2,278,093	-242,590	246,014					
6/30/2012	2,998,406	4,005,736	4,352,040	296,891	1,314,035	687,108	-73,339						
6/30/2013	2,302,830	4,093,341	1,677,761	1,080,725	298,767	745,040							
6/30/2014	3,275,531	4,125,514	1,980,088	4,662,803	385,115								
6/30/2015	2,385,374	3,382,102	3,468,014	672,146									
6/30/2016	4,009,897	2,276,405	3,002,878										
6/30/2017	2,122,846	1,539,059											
6/30/2018	2,384,243												

	Incremental Percentages												
A.Y.E.	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
6/30/2000	0.1025	0.1149	0.1074	0.0348	0.0493	0.0263	0.0227	0.0630	0.0365	0.0156	0.0077	0.0006	0.0004
6/30/2001	0.1686	0.1387	0.0928	0.0679	0.0245	0.0238	0.0244	0.0242	0.0090	0.0092	0.0064	0.0080	0.0467
6/30/2002	0.2185	0.1538	0.0564	0.0598	0.0536	0.0071	0.0135	0.0053	0.0062	0.0026	0.0024	0.0017	0.0060
6/30/2003	0.1365	0.1087	0.1586	0.0458	0.0413	0.0103	0.0276	0.0176	0.0037	0.0024	0.0073	-0.0004	0.0000
6/30/2004	0.1094	0.1485	0.1867	0.2528	0.1127	-0.1338	-0.0017	0.0328	-0.0011	0.0482	-0.0092	0.0033	0.0207
6/30/2005	0.0952	0.2409	0.0910	0.0878	0.0372	0.0108	0.0066	0.0162	0.0484	0.0005	0.0025	0.0006	0.0003
6/30/2006	0.1043	0.1871	0.1718	0.0700	0.0502	0.0204	0.0047	0.0134	-0.0050	0.0075	0.0018	0.0000	0.0001
6/30/2007	0.0928	0.1066	0.0783	0.0635	0.0382	0.0124	0.0304	0.0026	0.0012	-0.0015	0.0000	0.0000	
6/30/2008	0.1869	0.2835	0.0791	0.0764	0.0613	0.0230	0.0400	0.0138	0.0040	0.0026	-0.0002		
6/30/2009	0.1103	0.2547	0.3031	0.0768	0.0859	0.0740	0.0201	0.0559	0.0361	-0.0102			
6/30/2010	0.1979	0.2304	0.1317	0.1270	0.0183	0.0270	0.0062	0.0227	0.0005				
6/30/2011	0.1507	0.4195	0.2876	0.1849	0.1234	0.1451	-0.0155	0.0157					
6/30/2012	0.2033	0.2716	0.2951	0.0201	0.0891	0.0466	-0.0050						
6/30/2013	0.1659	0.2949	0.1209	0.0778	0.0215	0.0537							
6/30/2014	0.1836	0.2312	0.1110	0.2614	0.0216								
6/30/2015	0.1038	0.1472	0.1510	0.0293									
6/30/2016	0.2065	0.1172	0.1546										
6/30/2017	0.1399	0.1014											
6/30/2018	0.1402												

Best 3/5	0.1546	0.1652	0.1422	0.0973	0.0441	0.0581	0.0071	0.0174	0.0019	0.0005	0.0005	0.0002	0.0021
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:												
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months	
6/30/2000	250,988,407	340,310,677	382,592,791	389,089,816	389,831,909	385,589,395	379,898,964	377,742,618	377,146,044	377,200,810	376,838,938	
6/30/2001	241,430,825	312,203,727	348,949,456	366,962,163	366,863,576	359,850,633	358,436,280	356,149,462	355,527,634	354,609,717	354,314,924	
6/30/2002	218,039,819	273,352,058	327,037,646	339,811,794	335,529,209	331,747,258	328,631,675	327,989,070	327,530,414	326,842,981	327,267,103	
6/30/2003	227,345,024	305,483,152	363,774,112	369,566,641	361,264,851	354,945,156	353,062,254	350,355,237	349,054,346	348,852,698	348,834,401	
6/30/2004	255,054,381	342,392,059	369,494,815	375,183,937	370,635,405	366,688,507	364,390,166	363,015,381	362,640,972	362,084,928	361,763,701	
6/30/2005	263,968,800	307,921,559	348,378,289	352,721,860	353,097,601	347,386,573	345,168,986	344,040,180	342,704,342	343,292,865	343,452,336	
6/30/2006	244,042,217	319,994,749	357,966,380	369,142,692	363,492,559	356,883,472	353,740,939	352,711,070	352,033,939	352,134,793	351,759,379	
6/30/2007	271,495,919	346,558,836	386,061,592	391,598,525	385,377,392	379,559,662	376,928,323	375,002,595	373,916,697	373,824,962	373,842,023	
6/30/2008	288,560,090	362,427,969	406,238,059	411,664,237	405,490,515	400,194,562	397,965,121	396,359,819	396,267,830	395,507,996	395,283,236	
6/30/2009	301,307,751	383,931,365	424,214,134	424,634,199	418,331,782	415,403,763	411,712,914	409,678,897	408,802,977	408,515,487	409,306,618	
6/30/2010	324,915,535	409,370,864	458,296,872	461,095,993	454,622,337	449,810,633	446,612,205	445,255,187	444,554,532	444,371,502		
6/30/2011	352,832,615	445,734,922	495,479,125	503,630,658	495,088,069	489,902,599	486,129,116	484,268,098	483,932,801			
6/30/2012	298,826,251	381,453,590	427,073,682	427,439,706	425,473,959	421,862,732	420,658,662	421,033,585				
6/30/2013	301,396,858	383,007,011	417,408,933	424,683,301	425,789,012	423,956,286	423,803,526					
6/30/2014	329,897,308	419,945,122	480,009,739	513,798,761	513,582,038	514,758,428						
6/30/2015	291,922,543	397,367,396	480,582,277	508,999,409	517,157,140							
6/30/2016	276,102,484	391,112,469	467,840,893	503,502,861								
6/30/2017	298,039,533	423,409,119	518,530,495									
6/30/2018	341,329,368	482,975,929										
6/30/2019	325,119,119											
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months			
6/30/2000	377,006,618	376,726,118	376,546,965	376,817,471	376,767,018	376,698,866	376,740,446	376,650,625	376,939,948			
6/30/2001	354,616,842	354,637,553	355,009,091	355,316,831	355,462,989	355,337,210	355,316,039	355,372,513				
6/30/2002	326,975,412	327,270,867	327,768,761	327,343,975	327,540,529	327,500,561	327,613,294					
6/30/2003	348,859,483	348,961,968	349,092,076	349,059,810	349,058,165	349,419,463						
6/30/2004	362,132,620	362,075,860	362,094,302	361,985,356	362,176,970							
6/30/2005	343,391,641	343,456,591	343,794,109	344,246,746								
6/30/2006	351,508,430	351,266,572	351,669,797									
6/30/2007	373,723,700	374,282,276										
6/30/2008	395,472,953											



PREMISES/OPERATIONS (Subline Code 334)  
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FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.356	1.124	1.017	1.002	0.989	0.985	0.994	0.998	1.000	0.999	1.000
6/30/2001	1.293	1.118	1.052	1.000	0.981	0.996	0.994	0.998	0.997	0.999	1.001
6/30/2002	1.254	1.196	1.039	0.987	0.989	0.991	0.998	0.999	0.998	1.001	0.999
6/30/2003	1.344	1.191	1.016	0.978	0.983	0.995	0.992	0.996	0.999	1.000	1.000
6/30/2004	1.342	1.079	1.015	0.988	0.989	0.994	0.996	0.999	0.998	0.999	1.001
6/30/2005	1.167	1.131	1.012	1.001	0.984	0.994	0.997	0.996	1.002	1.000	1.000
6/30/2006	1.311	1.119	1.031	0.985	0.982	0.991	0.997	0.998	1.000	0.999	0.999
6/30/2007	1.276	1.114	1.014	0.984	0.985	0.993	0.995	0.997	1.000	1.000	1.000
6/30/2008	1.256	1.121	1.013	0.985	0.987	0.994	0.996	1.000	0.998	0.999	1.000
6/30/2009	1.274	1.105	1.001	0.985	0.993	0.991	0.995	0.998	0.999	1.002	
6/30/2010	1.260	1.120	1.006	0.986	0.989	0.993	0.997	0.998	1.000		
6/30/2011	1.263	1.112	1.016	0.983	0.990	0.992	0.996	0.999			
6/30/2012	1.277	1.120	1.001	0.995	0.992	0.997	1.001				
6/30/2013	1.271	1.090	1.017	1.003	0.996	1.000					
6/30/2014	1.273	1.143	1.070	1.000	1.002						
6/30/2015	1.361	1.209	1.059	1.016							
6/30/2016	1.417	1.196	1.076								
6/30/2017	1.421	1.225									
6/30/2018	1.415										
3 Yr Mean	1.418	1.210	1.068	1.006	0.997	0.996	0.998	0.998	0.999	1.000	1.000
Best 3/5	1.398	1.183	1.049	0.999	0.993	0.994	0.996	0.998	1.000	1.000	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.999	1.000	1.001	1.000	1.000	1.000	1.000	1.001			
6/30/2001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000 *			
6/30/2002	1.001	1.002	0.999	1.001	1.000	1.000	1.000 *	1.000 *			
6/30/2003	1.000	1.000	1.000	1.000	1.001	1.000 *	1.000 *	1.000 *			
6/30/2004	1.000	1.000	1.000	1.001	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2005	1.000	1.001	1.001								
6/30/2006	0.999	1.001									
6/30/2007	1.001										
3 Yr Mean	1.000	1.001	1.000	1.001	1.000 @	1.000 @	1.000 @	1.001 @			
Best 3/5	1.000	1.001	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.993	0.994	0.996	0.998	1.000	1.000	1.000
6/30/2016				0.999	0.993	0.994	0.996	0.998	1.000	1.000	1.000
6/30/2017			1.049	0.999	0.993	0.994	0.996	0.998	1.000	1.000	1.000
6/30/2018		1.183	1.049	0.999	0.993	0.994	0.996	0.998	1.000	1.000	1.000
6/30/2019	1.398	1.183	1.049	0.999	0.993	0.994	0.996	0.998	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.982
6/30/2016	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.981
6/30/2017	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.029
6/30/2018	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.218
6/30/2019	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.702

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
DEDUCTIBLE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	10,149,048	15,162,861	17,894,751	16,990,301	16,066,363	16,495,646	16,479,942	16,054,875	16,009,429	15,994,428	15,975,678
6/30/2001	13,608,608	20,283,548	23,823,483	24,156,287	23,686,123	24,293,159	24,089,987	23,915,823	23,931,764	23,851,357	23,951,356
6/30/2002	13,721,497	19,771,009	20,060,236	20,081,599	20,842,885	20,486,697	20,679,585	20,413,830	20,580,355	20,490,142	20,490,141
6/30/2003	17,685,547	19,750,585	22,295,114	23,383,728	23,699,305	23,178,322	22,856,213	22,659,021	22,584,178	22,612,219	22,727,940
6/30/2004	18,606,779	26,725,886	25,335,331	27,616,861	26,358,235	25,597,242	24,864,977	24,747,230	24,586,504	24,748,038	24,779,911
6/30/2005	15,928,888	25,154,430	25,385,937	23,442,101	21,900,501	21,110,456	20,698,309	20,498,875	20,493,875	20,377,901	20,377,898
6/30/2006	15,466,080	19,260,905	21,923,157	21,529,779	21,126,070	21,094,787	21,279,980	21,330,090	21,447,488	21,369,282	21,439,282
6/30/2007	15,770,988	21,107,599	24,112,412	24,752,696	24,041,670	23,465,810	23,184,342	23,291,884	23,281,680	23,282,179	23,237,179
6/30/2008	18,021,084	22,317,501	25,006,285	25,037,666	24,782,675	24,243,889	24,303,760	24,214,043	24,065,708	24,055,522	23,975,235
6/30/2009	17,108,317	20,898,537	21,536,046	23,316,589	22,679,562	22,359,613	22,385,841	22,239,005	22,274,227	22,243,373	22,240,468
6/30/2010	13,307,504	14,002,733	16,783,105	17,583,071	18,135,912	17,782,029	17,740,624	17,605,640	17,620,887	17,732,234	
6/30/2011	11,833,510	16,521,332	18,875,990	19,608,344	19,342,626	19,161,100	18,906,232	18,896,367	18,841,890		
6/30/2012	11,991,958	15,751,021	17,193,703	17,401,097	17,615,705	17,365,065	17,684,442	17,953,878			
6/30/2013	12,136,640	15,482,405	17,037,223	17,664,481	18,014,151	18,003,573	17,958,503				
6/30/2014	14,779,456	17,971,206	20,878,501	22,281,299	22,769,481	23,036,029					
6/30/2015	15,151,162	20,881,048	24,556,406	28,232,748	28,156,811						
6/30/2016	17,232,169	21,578,831	27,556,568	28,463,785							
6/30/2017	14,857,184	23,919,027	30,401,340								
6/30/2018	17,927,168	27,534,448									
6/30/2019	19,235,277										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	15,975,678	15,975,928	16,175,928	16,175,928	16,170,928	16,170,928	16,271,928	16,271,928	16,270,928		
6/30/2001	23,931,607	23,936,607	23,936,606	23,836,606	23,836,606	23,936,606	23,936,608	23,937,606			
6/30/2002	20,540,140	20,695,639	20,682,100	20,907,639	20,952,302	20,952,693	20,952,693				
6/30/2003	22,653,991	22,647,623	22,640,930	22,640,930	22,656,930	22,656,930					
6/30/2004	24,756,101	24,778,602	24,828,601	24,828,601	24,828,601						
6/30/2005	20,382,898	20,377,898	20,377,923	20,434,343							
6/30/2006	21,339,282	21,439,282	21,439,282								
6/30/2007	23,120,009	23,120,109									
6/30/2008	23,975,135										

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
DEDUCTIBLE  
MULTISTATE

BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.494	1.180	0.949	0.946	1.027	0.999	0.974	0.997	0.999	0.999	1.000
6/30/2001	1.490	1.175	1.014	0.981	1.026	0.992	0.993	1.001	0.997	1.004	0.999
6/30/2002	1.441	1.015	1.001	1.038	0.983	1.009	0.987	1.008	0.996	1.000	1.002
6/30/2003	1.117	1.129	1.049	1.013	0.978	0.986	0.991	0.997	1.001	1.005	0.997
6/30/2004	1.436	0.948	1.090	0.954	0.971	0.971	0.995	0.994	1.007	1.001	0.999
6/30/2005	1.579	1.009	0.923	0.934	0.964	0.980	0.990	1.000	0.994	1.000	1.000
6/30/2006	1.245	1.138	0.982	0.981	0.999	1.009	1.002	1.006	0.996	1.003	0.995
6/30/2007	1.338	1.142	1.027	0.971	0.976	0.988	1.005	1.000	1.000	0.998	0.995
6/30/2008	1.238	1.120	1.001	0.990	0.978	1.002	0.996	0.994	1.000	0.997	1.000
6/30/2009	1.222	1.031	1.083	0.973	0.986	1.001	0.993	1.002	0.999	1.000	
6/30/2010	1.052	1.199	1.048	1.031	0.980	0.998	0.992	1.001	1.006		
6/30/2011	1.396	1.143	1.039	0.986	0.991	0.987	0.999	0.997			
6/30/2012	1.313	1.092	1.012	1.012	0.986	1.018	1.015				
6/30/2013	1.276	1.100	1.037	1.020	0.999	0.997					
6/30/2014	1.216	1.162	1.067	1.022	1.012						
6/30/2015	1.378	1.176	1.150	0.997							
6/30/2016	1.252	1.277	1.033								
6/30/2017	1.610	1.271									
6/30/2018	1.536										
3 Yr Mean	1.466	1.241	1.083	1.013	0.999	1.001	1.002	1.000	1.002	0.998	0.997
Best 3/5	1.389	1.203	1.046	1.010	0.992	0.999	0.996	0.999	1.000	0.999	0.998

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	1.000	1.013	1.000	1.000	1.000	1.006	1.000	1.000			
6/30/2001	1.000	1.000	0.996	1.000	1.004	1.000	1.000	1.000 *			
6/30/2002	1.008	0.999	1.011	1.002	1.000	1.000	1.000 *	1.000 *			
6/30/2003	1.000	1.000	1.000	1.001	1.000	1.000 *	1.000 *	1.000 *			
6/30/2004	1.001	1.002	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2005	1.000	1.000	1.003								
6/30/2006	1.005	1.000									
6/30/2007	1.000										
3 Yr Mean	1.002	1.001	1.001	1.001	1.001 @	1.002 @	1.000 @	1.000 @			
Best 3/5	1.000	1.000	1.001	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.992	0.999	0.996	0.999	1.000	0.999	0.998
6/30/2016				1.010	0.992	0.999	0.996	0.999	1.000	0.999	0.998
6/30/2017			1.046	1.010	0.992	0.999	0.996	0.999	1.000	0.999	0.998
6/30/2018		1.203	1.046	1.010	0.992	0.999	0.996	0.999	1.000	0.999	0.998
6/30/2019	1.389	1.203	1.046	1.010	0.992	0.999	0.996	0.999	1.000	0.999	0.998

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	0.984
6/30/2016	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	0.994
6/30/2017	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.040
6/30/2018	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.251
6/30/2019	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.737

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	32,920,786	65,227,878	94,772,883	116,430,517	127,051,800	132,150,115	136,494,149	138,341,835	140,703,924	142,137,394	142,188,363
6/30/2001	36,736,995	64,848,053	95,201,155	115,603,068	129,073,792	139,783,558	142,713,174	144,800,114	146,229,644	148,942,734	150,403,243
6/30/2002	35,281,520	58,333,358	96,269,157	117,557,554	136,297,650	141,683,644	146,982,321	149,463,476	150,141,121	151,705,502	151,644,531
6/30/2003	35,484,028	67,071,531	103,994,427	136,401,836	151,055,412	155,857,905	159,611,716	161,154,955	162,899,035	164,345,015	164,447,412
6/30/2004	34,097,995	67,890,028	110,079,803	137,070,594	145,760,842	151,891,843	153,968,684	155,555,279	156,271,657	157,432,354	158,316,777
6/30/2005	31,940,743	67,010,688	109,064,820	136,257,262	148,926,044	154,508,142	157,763,411	160,553,873	161,736,776	163,352,001	163,874,866
6/30/2006	26,393,334	66,942,374	107,279,591	137,032,452	148,896,977	156,120,748	160,586,205	160,125,094	161,743,388	163,165,896	163,830,049
6/30/2007	29,513,067	70,926,920	112,106,156	144,845,214	159,751,689	166,101,390	168,582,699	169,901,836	173,044,081	173,904,593	174,519,804
6/30/2008	29,645,077	71,284,816	126,527,610	165,259,741	184,625,130	193,557,568	197,458,055	200,105,477	201,334,359	200,269,903	201,089,923
6/30/2009	35,381,536	79,439,674	129,879,705	172,154,375	188,112,756	196,160,472	200,271,708	203,836,834	205,996,782	206,434,304	212,681,441
6/30/2010	41,367,143	88,091,681	146,570,449	180,572,446	198,085,926	208,504,091	212,066,910	213,280,435	216,209,451	217,369,648	
6/30/2011	47,101,337	101,729,539	165,530,226	207,028,531	225,638,079	233,860,337	238,341,131	240,154,822	239,800,213		
6/30/2012	42,534,282	90,529,998	149,441,873	189,002,611	210,610,229	220,054,864	224,984,861	227,289,300			
6/30/2013	43,546,598	94,609,091	150,106,546	194,715,120	218,111,119	225,252,313	227,838,039				
6/30/2014	51,088,167	110,993,255	179,720,447	231,530,989	254,780,232	267,277,560					
6/30/2015	46,301,680	104,791,968	173,550,082	221,772,878	243,885,477						
6/30/2016	46,308,304	107,794,690	176,112,343	221,333,307							
6/30/2017	45,247,123	99,032,794	168,270,135								
6/30/2018	48,756,264	109,061,150									
6/30/2019	43,126,984										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	144,252,221	144,633,195	144,594,179	144,838,010	146,186,126	145,801,505	145,876,559	146,761,703	147,933,670
6/30/2001	150,262,877	151,261,620	152,800,960	154,347,364	154,886,154	154,946,003	154,927,100	155,635,637	
6/30/2002	152,182,103	153,719,284	154,184,767	154,860,373	154,975,548	155,283,591	155,377,827		
6/30/2003	165,458,560	165,969,470	166,500,515	166,397,623	166,812,967	166,765,973			
6/30/2004	158,960,189	159,793,132	160,139,304	160,797,159	160,587,499				
6/30/2005	163,708,538	164,327,350	166,344,545	167,977,434					
6/30/2006	164,663,333	164,768,198	165,174,622						
6/30/2007	174,368,434	174,612,161							
6/30/2008	201,347,491								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

	Increments												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	32,307,092	29,545,005	21,657,634	10,621,283	5,098,315	4,344,034	1,847,686	2,362,089	1,433,470	50,969	2,063,858	380,974	-39,016
6/30/2001	28,111,058	30,353,102	20,401,913	13,470,724	10,709,766	2,929,616	2,086,940	1,429,530	2,713,090	1,460,509	-140,366	998,743	1,539,340
6/30/2002	23,051,838	37,935,799	21,288,397	18,740,096	5,385,994	5,298,677	2,481,155	677,645	1,564,381	-60,971	537,572	1,537,181	465,483
6/30/2003	31,587,503	36,922,896	32,407,409	14,653,576	4,802,493	3,753,811	1,543,239	1,744,080	1,445,980	102,397	1,011,148	510,910	531,045
6/30/2004	33,792,033	42,189,775	26,990,791	8,690,248	6,131,001	2,076,841	1,586,595	716,378	1,160,697	884,423	643,412	832,943	346,172
6/30/2005	35,069,945	42,054,132	27,192,442	12,668,782	5,582,098	3,255,269	2,790,462	1,182,903	1,615,225	522,865	-166,328	618,812	2,017,195
6/30/2006	40,549,040	40,337,217	29,752,861	11,864,525	7,223,771	4,465,457	-461,111	1,618,294	1,422,508	664,153	833,284	104,865	406,424
6/30/2007	41,413,853	41,179,236	32,739,058	14,906,475	6,349,701	2,481,309	1,319,137	3,142,245	860,512	615,211	-151,370	243,727	
6/30/2008	41,639,739	55,242,794	38,732,131	19,365,389	8,932,438	3,900,487	2,647,422	1,228,882	-1,064,456	820,020	257,568		
6/30/2009	44,058,138	50,440,031	42,274,670	15,958,381	8,047,716	4,111,236	3,565,126	2,159,948	437,522	6,247,137			
6/30/2010	46,724,538	58,478,768	34,001,997	17,513,480	10,418,165	3,562,819	1,213,525	2,929,016	1,160,197				
6/30/2011	54,628,202	63,800,687	41,498,305	18,609,548	8,222,258	4,480,794	1,813,691	-354,609					
6/30/2012	47,995,716	58,911,875	39,560,738	21,607,618	9,444,635	4,929,997	2,304,439						
6/30/2013	51,062,493	55,497,455	44,608,574	23,395,999	7,141,194	2,585,726							
6/30/2014	59,905,088	68,727,192	51,810,542	23,249,243	12,497,328								
6/30/2015	58,490,288	68,758,114	48,222,796	22,112,599									
6/30/2016	61,486,386	68,317,653	45,220,964										
6/30/2017	53,785,671	69,237,341											
6/30/2018	60,304,886												

	Incremental Percentages												
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0615	0.0562	0.0412	0.0202	0.0097	0.0083	0.0035	0.0045	0.0027	0.0001	0.0039	0.0007	-0.0001
6/30/2001	0.0547	0.0590	0.0397	0.0262	0.0208	0.0057	0.0041	0.0028	0.0053	0.0028	-0.0003	0.0019	0.0030
6/30/2002	0.0473	0.0778	0.0437	0.0385	0.0111	0.0109	0.0051	0.0014	0.0032	-0.0001	0.0011	0.0032	0.0010
6/30/2003	0.0614	0.0718	0.0630	0.0285	0.0093	0.0073	0.0030	0.0034	0.0028	0.0002	0.0020	0.0010	0.0010
6/30/2004	0.0641	0.0800	0.0512	0.0165	0.0116	0.0039	0.0030	0.0014	0.0022	0.0017	0.0012	0.0016	0.0007
6/30/2005	0.0684	0.0820	0.0530	0.0247	0.0109	0.0063	0.0054	0.0023	0.0032	0.0010	-0.0003	0.0012	0.0039
6/30/2006	0.0775	0.0771	0.0569	0.0227	0.0138	0.0085	-0.0009	0.0031	0.0027	0.0013	0.0016	0.0002	0.0008
6/30/2007	0.0728	0.0724	0.0576	0.0262	0.0112	0.0044	0.0023	0.0055	0.0015	0.0011	-0.0003	0.0004	
6/30/2008	0.0684	0.0907	0.0636	0.0318	0.0147	0.0064	0.0043	0.0020	-0.0017	0.0013	0.0004		
6/30/2009	0.0703	0.0804	0.0674	0.0255	0.0128	0.0066	0.0057	0.0034	0.0007	0.0100			
6/30/2010	0.0681	0.0852	0.0495	0.0255	0.0152	0.0052	0.0018	0.0043	0.0017				
6/30/2011	0.0737	0.0861	0.0560	0.0251	0.0111	0.0060	0.0024	-0.0005					
6/30/2012	0.0703	0.0863	0.0579	0.0316	0.0138	0.0072	0.0034						
6/30/2013	0.0751	0.0816	0.0656	0.0344	0.0105	0.0038							
6/30/2014	0.0719	0.0825	0.0622	0.0279	0.0150								
6/30/2015	0.0700	0.0823	0.0577	0.0265									
6/30/2016	0.0720	0.0800	0.0529										
6/30/2017	0.0606	0.0780											
6/30/2018	0.0606												

Best 3/5	0.0675	0.0813	0.0593	0.0287	0.0133	0.0059	0.0034	0.0032	0.0013	0.0012	0.0005	0.0009	0.0009
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	41,678,098	52,083,712	48,270,025	50,529,505	49,930,459	49,891,427	49,734,708	49,656,405	49,945,509	50,395,931	50,446,779
6/30/2001	39,115,859	38,894,115	44,272,047	44,797,526	45,419,342	45,099,635	45,563,830	45,754,913	46,183,106	46,736,408	47,109,298
6/30/2002	30,843,880	35,888,744	37,034,594	38,356,564	38,836,796	39,471,915	40,242,687	40,512,484	40,961,806	41,113,210	41,435,206
6/30/2003	31,985,495	33,980,822	36,356,036	36,127,335	38,699,431	38,861,215	38,841,215	39,158,716	38,776,142	39,208,487	39,471,358
6/30/2004	29,353,055	33,407,005	34,578,538	35,948,309	37,718,298	38,018,519	37,896,838	37,998,621	38,076,135	38,291,479	38,480,936
6/30/2005	28,767,702	30,390,751	33,792,469	34,502,966	35,379,759	35,618,923	35,758,725	36,008,236	36,362,541	36,848,039	36,705,452
6/30/2006	27,668,401	29,950,806	31,621,986	32,232,020	32,679,850	33,505,798	33,824,366	33,914,211	34,055,030	33,882,034	33,957,961
6/30/2007	28,956,659	32,202,557	34,398,667	34,880,322	35,411,689	35,510,263	35,806,463	36,262,324	36,992,938	36,924,952	37,016,141
6/30/2008	33,536,638	37,164,749	38,514,333	38,711,427	39,287,777	40,068,798	40,488,969	40,466,648	40,639,770	40,934,984	40,910,358
6/30/2009	36,500,556	37,956,966	39,884,473	40,191,085	40,254,725	40,719,667	40,645,131	40,653,091	40,871,680	41,197,922	41,428,977
6/30/2010	36,466,493	41,219,683	43,013,216	43,816,132	44,627,418	44,620,151	44,586,879	44,572,550	44,850,075	44,964,290	
6/30/2011	43,136,544	46,881,038	47,688,031	48,077,932	48,174,134	48,429,112	48,761,029	49,292,913	49,391,496		
6/30/2012	42,246,932	45,353,124	47,399,928	47,738,456	48,222,341	48,236,292	48,930,708	49,106,280			
6/30/2013	38,905,468	42,959,008	44,718,663	46,475,153	46,951,911	47,757,175	48,716,462				
6/30/2014	45,773,771	48,334,700	49,951,210	52,032,666	52,597,388	52,948,151					
6/30/2015	44,269,712	48,000,805	49,395,683	52,856,148	54,390,823						
6/30/2016	36,700,671	41,702,761	47,526,303	47,736,297							
6/30/2017	40,296,600	46,850,845	50,896,850								
6/30/2018	41,943,363	51,216,963									
6/30/2019	45,621,033										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	50,141,838	50,115,808	50,253,392	50,424,823	50,449,282	50,446,462	50,801,125	50,642,171	50,812,834		
6/30/2001	47,140,502	47,333,281	47,446,927	47,420,602	47,546,707	47,620,704	47,612,461	47,698,862			
6/30/2002	41,696,166	41,552,332	41,473,009	41,701,952	41,745,098	41,852,533	41,822,073				
6/30/2003	39,488,984	39,542,906	39,620,919	39,661,926	39,678,176	39,757,999					
6/30/2004	38,786,137	38,890,204	38,865,610	38,866,813	39,074,482						
6/30/2005	36,639,491	36,525,948	36,428,527	36,436,167							
6/30/2006	34,050,039	33,938,924	34,091,114								
6/30/2007	36,857,236	36,919,058									
6/30/2008	41,033,414										

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.250	0.927	1.047	0.988	0.999	0.997	0.998	1.006	1.009	1.001	0.994
6/30/2001	0.994	1.138	1.012	1.014	0.993	1.010	1.004	1.009	1.012	1.008	1.001
6/30/2002	1.164	1.032	1.036	1.013	1.016	1.020	1.007	1.011	1.004	1.008	1.006
6/30/2003	1.062	1.070	0.994	1.071	1.004	0.999	1.008	0.990	1.011	1.007	1.000
6/30/2004	1.138	1.035	1.040	1.049	1.008	0.997	1.003	1.002	1.006	1.005	1.008
6/30/2005	1.056	1.112	1.021	1.025	1.007	1.004	1.007	1.010	1.013	0.996	0.998
6/30/2006	1.082	1.056	1.019	1.014	1.025	1.010	1.003	1.004	0.995	1.002	1.003
6/30/2007	1.112	1.068	1.014	1.015	1.003	1.008	1.013	1.020	0.998	1.002	0.996
6/30/2008	1.108	1.036	1.005	1.015	1.020	1.010	0.999	1.004	1.007	0.999	1.003
6/30/2009	1.040	1.051	1.008	1.002	1.012	0.998	1.000	1.005	1.008	1.006	
6/30/2010	1.130	1.044	1.019	1.019	1.000	0.999	1.000	1.006	1.003		
6/30/2011	1.087	1.017	1.008	1.002	1.005	1.007	1.011	1.002			
6/30/2012	1.074	1.045	1.007	1.010	1.000	1.014	1.004				
6/30/2013	1.104	1.041	1.039	1.010	1.017	1.020					
6/30/2014	1.056	1.033	1.042	1.011	1.007						
6/30/2015	1.084	1.029	1.070	1.029							
6/30/2016	1.136	1.140	1.004								
6/30/2017	1.163	1.086									
6/30/2018	1.221										
3 Yr Mean	1.173	1.085	1.039	1.017	1.008	1.014	1.005	1.004	1.006	1.002	1.001
Best 3/5	1.128	1.053	1.029	1.010	1.004	1.007	1.001	1.005	1.003	1.001	1.001

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.999	1.003	1.003	1.000	1.000	1.007	0.997	1.003			
6/30/2001	1.004	1.002	0.999	1.003	1.002	1.000	1.002	1.001 *			
6/30/2002	0.997	0.998	1.006	1.001	1.003	0.999	1.001 *	1.001 *			
6/30/2003	1.001	1.002	1.001	1.000	1.002	1.002 *	1.001 *	1.001 *			
6/30/2004	1.003	0.999	1.000	1.005	1.001 *	1.002 *	1.001 *	1.001 *			
6/30/2005	0.997	0.997	1.000								
6/30/2006	0.997	1.004									
6/30/2007	1.002										
3 Yr Mean	0.999	1.000	1.000	1.002	1.002 @	1.002 @	1.000 @	1.003 @			
Best 3/5	1.000	1.000	1.000	1.001	1.002 *	1.001 *	1.001 *	1.001 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.004	1.007	1.001	1.005	1.003	1.001	1.001
6/30/2016				1.010	1.004	1.007	1.001	1.005	1.003	1.001	1.001
6/30/2017			1.029	1.010	1.004	1.007	1.001	1.005	1.003	1.001	1.001
6/30/2018		1.053	1.029	1.010	1.004	1.007	1.001	1.005	1.003	1.001	1.001
6/30/2019	1.128	1.053	1.029	1.010	1.004	1.007	1.001	1.005	1.003	1.001	1.001

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004*	1.032
6/30/2016	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004*	1.043
6/30/2017	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004*	1.073
6/30/2018	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004*	1.130
6/30/2019	1.000	1.000	1.000	1.001	1.002	1.001	1.001	1.001	1.004*	1.275

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
DEDUCTIBLE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	2,023,894	2,495,511	2,550,760	2,655,301	2,543,311	2,726,909	2,750,901	2,910,342	2,876,453	2,875,973	2,867,648
6/30/2001	2,115,401	2,450,828	2,774,218	2,938,571	2,935,176	3,014,676	3,148,106	2,914,754	3,061,652	3,086,597	3,145,962
6/30/2002	1,631,044	1,913,599	1,983,961	2,097,101	2,202,310	2,313,278	2,249,262	2,181,834	2,287,333	2,287,334	2,293,834
6/30/2003	1,704,068	1,751,684	1,816,374	1,973,402	1,992,020	1,875,474	1,880,101	1,935,816	1,960,933	1,958,083	1,959,083
6/30/2004	2,249,914	2,385,559	2,678,439	3,054,294	3,218,805	3,199,591	3,111,813	3,204,830	3,146,830	3,214,400	3,213,521
6/30/2005	2,337,502	2,349,239	2,283,660	2,670,560	2,614,155	2,785,177	2,630,195	2,749,237	2,710,738	2,722,026	2,718,026
6/30/2006	1,751,365	2,015,934	2,277,807	2,218,811	2,277,794	2,409,480	2,521,179	2,534,276	2,522,235	2,524,458	2,455,092
6/30/2007	1,771,337	2,318,672	2,826,129	2,642,214	2,627,386	2,462,197	2,431,833	2,456,811	2,554,812	2,554,811	2,554,811
6/30/2008	1,483,524	1,910,416	1,473,660	1,513,256	1,452,971	1,485,001	1,463,190	1,455,990	1,457,990	1,458,092	1,479,301
6/30/2009	2,726,359	2,087,022	2,416,032	2,264,497	2,291,958	2,235,384	2,338,306	2,255,885	2,255,884	2,255,884	2,260,884
6/30/2010	1,861,947	1,862,570	1,816,720	1,915,411	2,013,741	2,056,741	2,107,736	2,056,736	2,155,741	2,051,095	
6/30/2011	1,584,144	1,735,017	1,995,440	1,888,856	2,009,342	2,024,056	1,995,965	1,991,964	1,991,964		
6/30/2012	1,198,527	1,532,562	1,680,772	1,970,578	1,950,817	2,415,175	2,463,529	2,342,014			
6/30/2013	1,796,227	1,868,386	1,953,448	1,939,602	2,156,734	2,123,234	2,123,223				
6/30/2014	1,891,310	1,892,728	1,692,279	1,840,245	1,932,595	1,873,349					
6/30/2015	2,471,976	2,612,453	2,424,534	2,645,595	2,456,549						
6/30/2016	1,933,690	2,176,051	2,542,443	2,764,018							
6/30/2017	2,112,821	2,374,454	2,622,789								
6/30/2018	2,842,179	3,448,905									
6/30/2019	2,561,183										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	2,892,173	2,863,048	2,863,048	2,862,948	2,862,948	2,862,948	2,962,948	2,962,948	2,962,948		
6/30/2001	3,141,337	3,141,646	2,991,646	3,016,748	3,041,748	3,131,210	3,131,210	3,131,210	3,141,109		
6/30/2002	2,298,833	2,326,834	2,318,833	2,318,833	2,418,833	2,418,833	2,423,833				
6/30/2003	1,967,583	1,967,583	2,067,583	2,267,583	2,360,914	2,365,692					
6/30/2004	3,314,400	3,316,276	3,324,176	3,314,664	3,314,564						
6/30/2005	2,722,247	2,718,033	2,718,033	2,724,061							
6/30/2006	2,458,857	2,554,047	2,563,194								
6/30/2007	2,554,812	2,640,182									
6/30/2008	1,474,301										



PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
DEDUCTIBLE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.233	1.022	1.041	0.958	1.072	1.009	1.058	0.988	1.000	0.997	1.009
6/30/2001	1.159	1.132	1.059	0.999	1.027	1.044	0.926	1.050	1.008	1.019	0.999
6/30/2002	1.173	1.037	1.057	1.050	1.050	0.972	0.970	1.048	1.000	1.003	1.002
6/30/2003	1.028	1.037	1.086	1.009	0.941	1.002	1.030	1.013	0.999	1.001	1.004
6/30/2004	1.060	1.123	1.140	1.054	0.994	0.973	1.030	0.982	1.021	1.000	1.031
6/30/2005	1.005	0.972	1.169	0.979	1.065	0.944	1.045	0.986	1.004	0.999	1.002
6/30/2006	1.151	1.130	0.974	1.027	1.058	1.046	1.005	0.995	1.001	0.973	1.002
6/30/2007	1.309	1.219	0.935	0.994	0.937	0.988	1.010	1.040	1.000	1.000	1.000
6/30/2008	1.288	0.771	1.027	0.960	1.022	0.985	0.995	1.001	1.000	1.015	0.997
6/30/2009	0.765	1.158	0.937	1.012	0.975	1.046	0.965	1.000	1.000	1.002	
6/30/2010	1.000	0.975	1.054	1.051	1.021	1.025	0.976	1.048	0.951		
6/30/2011	1.095	1.150	0.947	1.064	1.007	0.986	0.998	1.000			
6/30/2012	1.279	1.097	1.172	0.990	1.238	1.020	0.951				
6/30/2013	1.040	1.046	0.993	1.112	0.984	1.000					
6/30/2014	1.001	0.894	1.087	1.050	0.969						
6/30/2015	1.057	0.928	1.091	0.929							
6/30/2016	1.125	1.168	1.087								
6/30/2017	1.124	1.105									
6/30/2018	1.213										
3 Yr Mean	1.154	1.067	1.088	1.030	1.064	1.002	0.975	1.016	0.984	1.006	1.000
Best 3/5	1.102	1.026	1.088	1.035	1.004	1.015	0.979	1.014	1.000	1.000	1.001

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	0.990	1.000	1.000	1.000	1.000	1.035	1.000	1.000			
6/30/2001	1.000	0.952	1.008	1.008	1.029	1.000	1.003	1.001 *			
6/30/2002	1.012	0.997	1.000	1.043	1.000	1.002	1.001 *	1.001 *			
6/30/2003	1.000	1.051	1.097	1.041	1.002	1.002 *	1.001 *	1.001 *			
6/30/2004	1.001	1.002	0.997	1.000	1.016 *	1.002 *	1.001 *	1.001 *			
6/30/2005	0.998	1.000	1.002								
6/30/2006	1.039	1.004									
6/30/2007	1.033										
3 Yr Mean	1.023	1.002	1.032	1.028	1.010 @	1.012 @	1.002 @	1.000 @			
Best 3/5	1.011	1.002	1.003	1.016	1.006 *	1.002 *	1.001 *	1.001 *			

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					1.004	1.015	0.979	1.014	1.000	1.000	1.001
6/30/2016				1.035	1.004	1.015	0.979	1.014	1.000	1.000	1.001
6/30/2017			1.088	1.035	1.004	1.015	0.979	1.014	1.000	1.000	1.001
6/30/2018		1.026	1.088	1.035	1.004	1.015	0.979	1.014	1.000	1.000	1.001
6/30/2019	1.102	1.026	1.088	1.035	1.004	1.015	0.979	1.014	1.000	1.000	1.001

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.011	1.002	1.003	1.016	1.006	1.002	1.001	1.001	1.004*	1.060
6/30/2016	1.011	1.002	1.003	1.016	1.006	1.002	1.001	1.001	1.004*	1.097
6/30/2017	1.011	1.002	1.003	1.016	1.006	1.002	1.001	1.001	1.004*	1.194
6/30/2018	1.011	1.002	1.003	1.016	1.006	1.002	1.001	1.001	1.004*	1.225
6/30/2019	1.011	1.002	1.003	1.016	1.006	1.002	1.001	1.001	1.004*	1.350

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	4,498,312	10,251,623	14,900,066	19,248,926	20,558,052	21,831,280	25,526,900	25,973,353	26,060,286	26,492,727	26,999,590
6/30/2001	5,752,533	10,468,671	17,429,917	20,742,069	25,157,114	29,185,995	32,581,378	36,226,581	37,694,947	37,747,168	37,687,646
6/30/2002	3,628,657	8,254,913	10,605,155	15,682,186	20,032,596	27,778,708	31,412,432	34,867,471	36,859,934	37,525,879	38,477,013
6/30/2003	3,360,394	6,930,329	10,929,349	14,996,335	18,519,904	20,067,957	21,545,499	22,291,266	22,677,864	23,108,927	23,286,496
6/30/2004	3,311,909	7,131,277	11,517,266	15,408,360	19,442,787	22,471,706	24,550,881	25,284,553	26,665,498	27,501,537	27,521,406
6/30/2005	3,707,735	7,304,518	12,951,214	16,440,574	19,381,132	21,300,935	22,287,301	23,018,709	23,935,751	25,709,984	25,975,474
6/30/2006	2,650,519	6,327,238	10,432,883	14,152,089	15,853,055	19,495,180	21,715,494	22,434,377	22,488,494	22,880,705	25,965,676
6/30/2007	3,543,927	8,875,678	13,568,851	18,643,355	20,795,347	22,950,393	25,564,496	26,223,793	28,153,989	28,529,619	28,804,569
6/30/2008	4,377,770	9,003,212	14,731,964	19,598,128	24,175,012	26,606,328	27,499,997	28,600,618	29,728,549	30,603,554	31,625,291
6/30/2009	4,152,909	8,503,243	14,287,048	17,457,592	21,442,508	23,239,955	24,359,599	25,560,399	26,459,293	31,083,293	31,441,786
6/30/2010	4,818,516	10,273,107	16,209,284	21,138,304	24,719,911	26,818,787	29,370,998	30,398,986	31,160,110	31,419,389	
6/30/2011	5,592,872	12,879,858	17,827,927	22,852,401	27,024,498	29,335,207	29,771,161	30,291,809	30,633,141		
6/30/2012	6,525,817	12,009,260	18,389,758	23,335,752	26,725,365	29,162,178	31,092,033	32,661,615			
6/30/2013	5,950,056	11,180,542	17,975,818	25,050,938	27,229,515	27,707,076	28,074,139				
6/30/2014	6,315,586	12,049,467	16,241,473	19,032,412	20,492,885	25,391,746					
6/30/2015	6,365,498	12,382,080	19,758,532	24,745,516	29,265,004						
6/30/2016	5,943,864	10,808,210	18,252,639	23,742,473							
6/30/2017	6,499,336	12,674,110	18,866,550								
6/30/2018	6,873,781	15,362,850									
6/30/2019	5,582,435										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	27,533,976	27,742,539	27,969,020	28,367,185	28,515,200	28,613,783	38,043,450	28,945,738	29,011,227
6/30/2001	38,164,488	38,398,057	38,393,463	38,421,360	38,444,915	38,480,384	38,470,844	38,490,150	
6/30/2002	39,257,295	39,351,368	39,335,961	39,537,330	39,582,460	39,604,515	39,642,502		
6/30/2003	23,334,548	23,385,045	23,335,829	23,485,425	23,510,098	23,538,782			
6/30/2004	28,370,296	28,440,250	28,501,442	28,402,520	28,582,524				
6/30/2005	25,868,995	26,191,239	26,410,417	26,477,680					
6/30/2006	26,288,309	26,160,585	26,374,431						
6/30/2007	28,978,739	29,162,381							
6/30/2008	31,963,857								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	5,753,311	4,648,443	4,348,860	1,309,126	1,273,228	3,695,620	446,453	86,933	432,441	506,863	534,386	208,563	226,481
6/30/2001	4,716,138	6,961,246	3,312,152	4,415,045	4,028,881	3,395,383	3,645,203	1,468,366	52,221	-59,522	476,842	233,569	-4,594
6/30/2002	4,626,256	2,350,242	5,077,031	4,350,410	7,746,112	3,633,724	3,455,039	1,992,463	665,945	951,134	780,282	94,073	-15,407
6/30/2003	3,569,935	3,999,020	4,066,986	3,523,569	1,548,053	1,477,542	745,767	386,598	431,063	177,569	48,052	50,497	-49,216
6/30/2004	3,819,368	4,385,989	3,891,094	4,034,427	3,028,919	2,079,175	733,672	1,380,945	836,039	19,869	848,890	69,954	61,192
6/30/2005	3,596,783	5,646,696	3,489,360	2,940,558	1,919,803	986,366	731,408	917,042	1,774,233	265,490	-106,479	322,244	219,178
6/30/2006	3,676,719	4,105,645	3,719,206	1,700,966	3,642,125	2,220,314	718,883	54,117	392,211	3,084,971	322,633	-127,724	213,846
6/30/2007	5,331,751	4,693,173	5,074,504	2,151,992	2,155,046	2,614,103	659,297	1,930,196	375,630	274,950	174,170	183,642	
6/30/2008	4,625,442	5,728,752	4,866,164	4,576,884	2,431,316	893,669	1,100,621	1,127,931	875,005	1,021,737	338,566		
6/30/2009	4,350,334	5,783,805	3,170,544	3,984,916	1,797,447	1,119,644	1,200,800	898,894	4,624,000	358,493			
6/30/2010	5,454,591	5,936,177	4,929,020	3,581,607	2,098,876	2,552,211	1,027,988	761,124	259,279				
6/30/2011	7,286,986	4,948,069	5,024,474	4,172,097	2,310,709	435,954	520,648	341,332					
6/30/2012	5,483,443	6,380,498	4,945,994	3,389,613	2,436,813	1,929,855	1,569,582						
6/30/2013	5,230,486	6,795,276	7,075,120	2,178,577	477,561	367,063							
6/30/2014	5,733,881	4,192,006	2,790,939	1,460,473	4,898,861								
6/30/2015	6,016,582	7,376,452	4,986,984	4,519,488									
6/30/2016	4,864,346	7,444,429	5,489,834										
6/30/2017	6,174,774	6,192,440											
6/30/2018	8,489,069												

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0865	0.0699	0.0654	0.0197	0.0191	0.0556	0.0067	0.0013	0.0065	0.0076	0.0080	0.0031	0.0034
6/30/2001	0.0747	0.1102	0.0525	0.0699	0.0638	0.0538	0.0577	0.0233	0.0008	-0.0009	0.0076	0.0037	-0.0001
6/30/2002	0.0765	0.0389	0.0839	0.0719	0.1280	0.0601	0.0571	0.0329	0.0110	0.0157	0.0129	0.0016	-0.0003
6/30/2003	0.0661	0.0741	0.0753	0.0653	0.0287	0.0274	0.0138	0.0072	0.0080	0.0033	0.0009	0.0009	-0.0009
6/30/2004	0.0711	0.0816	0.0724	0.0751	0.0564	0.0387	0.0137	0.0257	0.0156	0.0004	0.0158	0.0013	0.0011
6/30/2005	0.0750	0.1178	0.0728	0.0613	0.0400	0.0206	0.0153	0.0191	0.0370	0.0055	-0.0022	0.0067	0.0046
6/30/2006	0.0836	0.0934	0.0846	0.0387	0.0828	0.0505	0.0163	0.0012	0.0089	0.0702	0.0073	-0.0029	0.0049
6/30/2007	0.1083	0.0954	0.1031	0.0437	0.0438	0.0531	0.0134	0.0392	0.0076	0.0056	0.0035	0.0037	
6/30/2008	0.0865	0.1071	0.0909	0.0855	0.0454	0.0167	0.0206	0.0211	0.0164	0.0191	0.0063		
6/30/2009	0.0789	0.1050	0.0575	0.0723	0.0326	0.0203	0.0218	0.0163	0.0839	0.0065			
6/30/2010	0.0908	0.0988	0.0820	0.0596	0.0349	0.0425	0.0171	0.0127	0.0043				
6/30/2011	0.1034	0.0702	0.0713	0.0592	0.0328	0.0062	0.0074	0.0048					
6/30/2012	0.0793	0.0923	0.0715	0.0490	0.0352	0.0279	0.0227						
6/30/2013	0.0779	0.1012	0.1053	0.0324	0.0071	0.0055							
6/30/2014	0.0723	0.0529	0.0352	0.0184	0.0618								
6/30/2015	0.0759	0.0930	0.0629	0.0570									
6/30/2016	0.0699	0.1070	0.0789										
6/30/2017	0.0780	0.0782											
6/30/2018	0.1027												

Best 3/5	0.0754	0.0908	0.0711	0.0462	0.0343	0.0181	0.0198	0.0167	0.0110	0.0104	0.0057	0.0020	0.0018
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
6/30/2000	15,297,290	18,280,082	29,820,483	30,261,906	29,840,355	30,029,979	30,612,675	30,810,199	30,724,357	30,795,409	30,568,570
6/30/2001	12,895,029	28,727,400	31,001,913	34,378,164	36,016,801	36,328,617	36,318,592	36,341,172	36,433,427	36,232,630	36,001,384
6/30/2002	15,378,507	18,501,023	21,759,680	24,407,351	22,565,925	22,023,339	21,910,379	21,669,211	21,856,113	21,860,237	21,717,439
6/30/2003	10,731,046	13,454,207	16,894,978	15,223,502	15,175,252	15,360,861	14,527,968	14,304,808	14,534,740	14,351,609	14,545,276
6/30/2004	16,540,401	21,622,689	18,707,367	19,174,330	18,761,807	18,493,646	18,532,279	18,537,764	18,548,703	18,775,385	18,795,040
6/30/2005	14,503,035	18,632,694	21,005,770	20,558,540	19,978,573	20,095,066	19,716,028	19,814,501	19,910,534	20,185,290	20,129,209
6/30/2006	19,120,964	23,195,768	24,149,221	23,445,572	22,721,488	22,639,832	22,352,322	22,450,851	22,243,914	22,065,066	22,080,067
6/30/2007	18,286,796	22,304,967	22,855,543	22,998,445	22,729,597	22,227,889	22,133,204	22,268,260	22,335,818	22,570,300	22,503,150
6/30/2008	16,951,872	18,626,253	18,274,412	18,025,273	18,056,166	18,130,237	18,312,354	18,512,247	18,439,712	18,488,885	18,380,545
6/30/2009	13,628,971	15,933,773	15,705,532	15,887,788	16,738,751	16,780,241	16,822,545	16,667,068	16,400,472	16,480,473	16,524,569
6/30/2010	11,886,574	15,058,349	16,055,890	15,875,686	16,182,849	16,062,544	15,829,739	15,773,624	15,898,110	16,231,038	
6/30/2011	9,598,453	11,250,454	12,274,394	13,375,169	13,494,175	13,448,225	13,139,376	12,847,309	13,085,464		
6/30/2012	8,801,716	11,272,407	11,129,017	11,366,375	11,765,510	11,204,717	11,114,370	11,245,883			
6/30/2013	9,185,477	10,783,313	12,115,306	12,246,654	12,559,860	12,538,795	12,399,692				
6/30/2014	8,319,513	11,351,046	14,433,596	14,507,326	14,790,114	14,986,658					
6/30/2015	8,906,922	11,413,775	14,844,069	16,823,957	17,582,006						
6/30/2016	10,126,454	13,186,854	16,775,373	17,010,726							
6/30/2017	10,408,366	13,520,313	14,611,090								
6/30/2018	11,014,930	14,464,732									
6/30/2019	7,808,287										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/2000	30,290,710	30,289,710	30,501,027	30,401,027	30,401,027	30,404,527	30,440,669	30,628,527	30,653,558		
6/30/2001	35,900,028	36,084,728	36,084,728	36,174,728	36,185,063	36,184,962	36,289,463	36,289,462			
6/30/2002	21,812,002	21,895,477	21,995,477	21,948,827	21,940,977	22,071,578	22,171,577				
6/30/2003	14,511,006	14,575,907	14,580,204	14,657,704	14,775,202	14,775,202					
6/30/2004	18,590,926	18,666,037	18,710,837	18,823,231	18,823,231						
6/30/2005	19,875,461	20,000,458	20,072,853	19,972,853							
6/30/2006	22,288,817	22,150,317	22,250,316								
6/30/2007	22,452,980	22,513,876									
6/30/2008	18,280,545										

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
6/30/2000	1.195	1.631	1.015	0.986	1.006	1.019	1.006	0.997	1.002	0.993	0.991
6/30/2001	2.228	1.079	1.109	1.048	1.009	1.000	1.001	1.003	0.994	0.994	0.997
6/30/2002	1.203	1.176	1.122	0.925	0.976	0.995	0.989	1.009	1.000	0.993	1.004
6/30/2003	1.254	1.256	0.901	0.997	1.012	0.946	0.985	1.016	0.987	1.013	0.998
6/30/2004	1.307	0.865	1.025	0.978	0.986	1.002	1.000	1.001	1.012	1.001	0.989
6/30/2005	1.285	1.127	0.979	0.972	1.006	0.981	1.005	1.005	1.014	0.997	0.987
6/30/2006	1.213	1.041	0.971	0.969	0.996	0.987	1.004	0.991	0.992	1.001	1.009
6/30/2007	1.220	1.025	1.006	0.988	0.978	0.996	1.006	1.003	1.010	0.997	0.998
6/30/2008	1.099	0.981	0.986	1.002	1.004	1.010	1.011	0.996	1.003	0.994	0.995
6/30/2009	1.169	0.986	1.012	1.054	1.002	1.003	0.991	0.984	1.005	1.003	
6/30/2010	1.267	1.066	0.989	1.019	0.993	0.986	0.996	1.008	1.021		
6/30/2011	1.172	1.091	1.090	1.009	0.997	0.977	0.978	1.019			
6/30/2012	1.281	0.987	1.021	1.035	0.952	0.992	1.012				
6/30/2013	1.174	1.124	1.011	1.026	0.998	0.989					
6/30/2014	1.364	1.272	1.005	1.019	1.013						
6/30/2015	1.281	1.301	1.133	1.045							
6/30/2016	1.302	1.272	1.014								
6/30/2017	1.299	1.081									
6/30/2018	1.313										
3 Yr Mean	1.305	1.218	1.051	1.030	0.988	0.986	0.995	1.004	1.010	0.998	1.001
Best 3/5	1.305	1.223	1.015	1.027	0.996	0.989	0.999	1.002	1.006	0.998	0.994

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/2000	1.000	1.007	0.997	1.000	1.000	1.001	1.006	1.001			
6/30/2001	1.005	1.000	1.002	1.000	1.000	1.003	1.000	1.001 *			
6/30/2002	1.004	1.005	0.998	1.000	1.006	1.005	1.001 *	1.001 *			
6/30/2003	1.004	1.000	1.005	1.008	1.000	1.000 *	1.001 *	1.001 *			
6/30/2004	1.004	1.002	1.006	1.000	1.000 *	1.000 *	1.001 *	1.001 *			
6/30/2005	1.006	1.004	0.995								
6/30/2006	0.994	1.005									
6/30/2007	1.003										
3 Yr Mean	1.001	1.004	1.002	1.003	1.002 @	1.003 @	1.003 @	1.001 @			
Best 3/5	1.004	1.004	1.002	1.000	1.000 *	1.001 *	1.001 *	1.001 *			

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2015					0.996	0.989	0.999	1.002	1.006	0.998	0.994
6/30/2016				1.027	0.996	0.989	0.999	1.002	1.006	0.998	0.994
6/30/2017			1.015	1.027	0.996	0.989	0.999	1.002	1.006	0.998	0.994
6/30/2018		1.223	1.015	1.027	0.996	0.989	0.999	1.002	1.006	0.998	0.994
6/30/2019	1.305	1.223	1.015	1.027	0.996	0.989	0.999	1.002	1.006	0.998	0.994

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
6/30/2015	1.004	1.004	1.002	1.000	1.000	1.001	1.001	1.001	1.004*	1.001
6/30/2016	1.004	1.004	1.002	1.000	1.000	1.001	1.001	1.001	1.004*	1.028
6/30/2017	1.004	1.004	1.002	1.000	1.000	1.001	1.001	1.001	1.004*	1.043
6/30/2018	1.004	1.004	1.002	1.000	1.000	1.001	1.001	1.001	1.004*	1.276
6/30/2019	1.004	1.004	1.002	1.000	1.000	1.001	1.001	1.001	1.004*	1.665

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
6/30/2000	7,179,904	10,345,305	20,636,045	22,404,272	24,770,114	26,821,230	29,384,182	31,513,880	34,127,747	36,744,111	36,309,185
6/30/2001	4,038,320	14,909,376	21,093,962	27,906,248	31,239,417	36,046,759	37,557,651	38,302,298	39,164,951	40,333,161	40,369,875
6/30/2002	5,267,347	10,047,732	14,348,657	18,051,409	17,856,494	20,127,048	21,429,562	21,306,001	21,443,771	21,601,274	21,575,132
6/30/2003	3,530,811	8,644,142	11,629,401	14,981,392	16,862,693	18,233,847	26,457,069	28,320,369	31,927,970	32,143,136	32,415,877
6/30/2004	3,663,369	7,694,986	12,676,540	17,529,007	20,728,422	21,214,216	21,284,936	22,205,373	22,484,011	22,354,371	22,518,397
6/30/2005	2,512,134	8,093,042	13,687,309	16,257,649	17,709,103	19,683,411	19,591,247	19,585,951	20,525,646	21,542,078	21,953,734
6/30/2006	2,837,590	9,030,485	13,354,963	16,525,248	18,238,209	19,512,448	23,191,601	24,436,183	26,820,520	29,449,815	29,559,622
6/30/2007	2,647,425	7,821,025	16,797,441	20,643,871	22,764,833	23,194,367	19,230,344	22,291,308	22,326,105	22,359,217	22,428,644
6/30/2008	2,078,654	7,060,164	12,212,820	16,140,428	16,766,600	17,674,697	18,441,436	19,083,679	19,178,557	19,421,266	19,713,460
6/30/2009	2,997,534	8,087,329	12,148,387	17,701,862	24,010,059	26,583,089	27,311,281	27,796,400	28,147,528	28,639,755	25,390,682
6/30/2010	3,324,238	12,036,337	19,896,029	22,090,304	26,712,060	30,322,472	32,284,172	33,958,116	34,110,789	34,439,625	
6/30/2011	4,056,968	13,091,755	19,760,027	25,075,633	29,846,738	32,128,697	33,910,279	34,347,193	34,641,320		
6/30/2012	3,416,257	10,212,200	13,087,908	23,428,538	24,775,980	28,178,279	30,386,483	31,983,018			
6/30/2013	3,038,860	9,168,884	13,283,791	18,586,296	22,098,481	24,292,233	28,472,822				
6/30/2014	4,471,893	12,196,104	17,911,943	19,115,386	24,356,155	29,443,261					
6/30/2015	4,737,569	9,986,535	16,826,964	25,328,583	27,792,533						
6/30/2016	5,171,147	11,155,652	15,317,484	17,102,785							
6/30/2017	4,087,316	10,348,355	14,545,224								
6/30/2018	4,922,614	15,913,218									
6/30/2019	3,822,895										

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
6/30/2000	36,342,311	36,104,101	36,125,151	36,126,085	36,126,085	36,170,684	36,178,356	36,253,403	36,302,059
6/30/2001	40,326,643	40,327,935	40,334,095	40,323,271	40,324,818	40,324,818	40,324,819	40,340,159	
6/30/2002	21,661,748	21,706,732	21,771,110	21,774,311	21,773,894	21,925,021	21,970,326		
6/30/2003	32,386,143	35,215,134	35,223,353	35,287,269	35,724,029	35,713,443			
6/30/2004	22,480,276	22,691,783	22,674,000	22,720,845	22,756,714				
6/30/2005	22,276,108	23,679,331	23,979,993	24,849,479					
6/30/2006	29,811,735	29,900,041	30,139,662						
6/30/2007	22,458,919	22,553,955							
6/30/2008	19,756,460								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MULTISTATE  
FRINGE COVERAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR INCREMENTAL ALAE DEVELOPMENT

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	3,165,401	10,290,740	1,768,227	2,365,842	2,051,116	2,562,952	2,129,698	2,613,867	2,616,364	-434,926	33,126	-238,210	21,050
6/30/2001	10,871,056	6,184,586	6,812,286	3,333,169	4,807,342	1,510,892	744,647	862,653	1,168,210	36,714	-43,232	1,292	6,160
6/30/2002	4,780,385	4,300,925	3,702,752	-194,915	2,270,554	1,302,514	-123,561	137,770	157,503	-26,142	86,616	44,984	64,378
6/30/2003	5,113,331	2,985,259	3,351,991	1,881,301	1,371,154	8,223,222	1,863,300	3,607,601	215,166	272,741	-29,734	2,828,991	8,219
6/30/2004	4,031,617	4,981,554	4,852,467	3,199,415	485,794	70,720	920,437	278,638	-129,640	164,026	-38,121	211,507	-17,783
6/30/2005	5,580,908	5,594,267	2,570,340	1,451,454	1,974,308	-92,164	-5,296	939,695	1,016,432	411,656	322,374	1,403,223	300,662
6/30/2006	6,192,895	4,324,478	3,170,285	1,712,961	1,274,239	3,679,153	1,244,582	2,384,337	2,629,295	109,807	252,113	88,306	239,621
6/30/2007	5,173,600	8,976,416	3,846,430	2,120,962	429,534	-3,964,023	3,060,964	34,797	33,112	69,427	30,275	95,036	
6/30/2008	4,981,510	5,152,656	3,927,608	626,172	908,097	766,739	642,243	94,878	242,709	292,194	43,000		
6/30/2009	5,089,795	4,061,058	5,553,475	6,308,197	2,573,030	728,192	485,119	351,128	492,227	-3,249,073			
6/30/2010	8,712,099	7,859,692	2,194,275	4,621,756	3,610,412	1,961,700	1,673,944	152,673	328,836				
6/30/2011	9,034,787	6,668,272	5,315,606	4,771,105	2,281,959	1,781,582	436,914	294,127					
6/30/2012	6,795,943	2,875,708	10,340,630	1,347,442	3,402,299	2,208,204	1,596,535						
6/30/2013	6,130,024	4,114,907	5,302,505	3,512,185	2,193,752	4,180,589							
6/30/2014	7,724,211	5,715,839	1,203,443	5,240,769	5,087,106								
6/30/2015	5,248,966	6,840,429	8,501,619	2,463,950									
6/30/2016	5,984,505	4,161,832	1,785,301										
6/30/2017	6,261,039	4,196,869											
6/30/2018	10,990,604												

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
6/30/2000	0.0640	0.2079	0.0357	0.0478	0.0414	0.0518	0.0430	0.0528	0.0529	-0.0088	0.0007	-0.0048	0.0004
6/30/2001	0.1863	0.1060	0.1168	0.0571	0.0824	0.0259	0.0128	0.0148	0.0200	0.0006	-0.0007	0.0000	0.0001
6/30/2002	0.1345	0.1210	0.1042	-0.0055	0.0639	0.0367	-0.0035	0.0039	0.0044	-0.0007	0.0024	0.0013	0.0018
6/30/2003	0.2162	0.1262	0.1417	0.0796	0.0580	0.3477	0.0788	0.1526	0.0091	0.0115	-0.0013	0.1196	0.0003
6/30/2004	0.1298	0.1604	0.1562	0.1030	0.0156	0.0023	0.0296	0.0090	-0.0042	0.0053	-0.0012	0.0068	-0.0006
6/30/2005	0.1643	0.1647	0.0757	0.0427	0.0581	-0.0027	-0.0002	0.0277	0.0299	0.0121	0.0095	0.0413	0.0088
6/30/2006	0.1874	0.1308	0.0959	0.0518	0.0386	0.1113	0.0377	0.0721	0.0795	0.0033	0.0076	0.0027	0.0072
6/30/2007	0.1453	0.2522	0.1081	0.0596	0.0121	-0.1114	0.0860	0.0010	0.0009	0.0020	0.0009	0.0027	
6/30/2008	0.1796	0.1858	0.1416	0.0226	0.0327	0.0276	0.0232	0.0034	0.0088	0.0105	0.0016		
6/30/2009	0.1889	0.1507	0.2061	0.2341	0.0955	0.0270	0.0180	0.0130	0.0183	-0.1206			
6/30/2010	0.2847	0.2568	0.0717	0.1510	0.1180	0.0641	0.0547	0.0050	0.0107				
6/30/2011	0.3858	0.2847	0.2270	0.2037	0.0974	0.0761	0.0187	0.0126					
6/30/2012	0.3434	0.1453	0.5225	0.0681	0.1719	0.1116	0.0807						
6/30/2013	0.2906	0.1951	0.2514	0.1665	0.1040	0.1982							
6/30/2014	0.3025	0.2238	0.0471	0.2052	0.1992								
6/30/2015	0.1805	0.2352	0.2923	0.0847									
6/30/2016	0.1996	0.1388	0.0596										
6/30/2017	0.2386	0.1599											
6/30/2018	0.3072												

Best 3/5	0.2469	0.1929	0.2011	0.1516	0.1313	0.0839	0.0322	0.0070	0.0126	0.0053	0.0033	0.0169	0.0031
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Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2014 - 2018

<u>Item *</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2014 - 2018 Mean</u>
1. Direct Losses Incurred	\$20,338,262	\$25,301,890	\$26,175,083	\$23,084,643	\$26,920,048	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,287,378	\$6,141,101	\$5,079,567	\$6,058,484	\$5,902,031	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,425,208	\$2,534,792	\$2,658,432	\$2,367,750	\$2,313,863	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,625,640	\$31,442,991	\$31,254,650	\$29,143,127	\$32,822,079	
		<u>Incurred Percentage</u>				
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.5%	8.1%	8.5%	8.1%	7.0%	8.2%
6. Selected	8.5%					

Notes: All dollar amounts are displayed in thousands.

\* Items (1) - (4) are from the special call submissions for available writers.



PREMISES / OPERATIONS  
TREND SUMMARY  
AVERAGE ANNUAL PERCENT CHANGES

(1) <u>EXPOSURE TREND</u>	<u>MANUFACTURERS</u>	<u>CONTRACTORS</u>	<u>OL&amp;T</u> <u>CLASS GROUPS 1-13 *</u>	<u>OL&amp;T</u> <u>CLASS GROUP 16</u>	<u>PREMISES/</u> <u>OPERATIONS</u>
a) 1/1/2017 to 1/1/2022 AYE 6/30/2017	+ 1.0%	+ 2.1%	+ 0.8%	+ 2.0%	+ 0.8%
b) 1/1/2018 to 1/1/2022 AYE 6/30/2018	+ 1.0%	+ 1.8%	+ 0.8%	+ 1.6%	+ 0.8%
c) 1/1/2019 to 1/1/2022 AYE 6/30/2019	+ 0.8%	+ 1.2%	+ 0.8%	+ 1.1%	+ 0.6%

	<u>MANUFACTURERS &amp; CONTRACTORS</u>			<u>OWNERS, LANDLORDS &amp; TENANTS</u>		
(2) <u>OCCURRENCE SEVERITY</u>	<u>Bodily</u> <u>Injury</u>	<u>Property</u> <u>Damage</u>	<u>Fringe</u>	<u>Bodily</u> <u>Injury</u>	<u>Property</u> <u>Damage</u>	<u>Fringe</u>
a) Fitted						
All Years (20 Points)	+ 4.1%	+ 5.1%	- 0.3%	+ 4.5%	+ 4.9%	- 3.8%
Eight Year (16 Points)	+ 4.2%	+ 4.6%	- 1.2%	+ 4.6%	+ 5.2%	- 6.1%
Six Year (12 Points)	+ 4.8%	+ 2.6%	- 4.1%	+ 4.7%	+ 6.7%	- 1.7%
b) Selected	+ 4.5%	+ 4.5%	0.0%	+ 4.0%	+ 5.0%	+ 1.0%

(3) <u>FREQUENCY TREND</u>	<u>M&amp;C</u>	<u>OL&amp;T</u>
Selected	0.0%	- 0.5%
(4) <u>TOTAL ANNUAL NET TREND</u>	+ 3.4%	+ 3.3%

Net trend = (frequency trend × severity trend) / exposure trend

Note: The medical payments trend is equal to the bodily injury trend. The bodily injury deductible trend is equal to the bodily injury trend and the property damage deductible trend is equal to the property damage trend.

\* The OL&T trend for class groups 1-13 is applied only to those classes which have inflation sensitive exposure bases.

MANUFACTURERS AND CONTRACTORS  
AVERAGE ANNUAL EXPOSURE TRENDS  
FOR ACCIDENT YEARS ENDING 6/30/2017, 6/30/2018 & 6/30/2019

(1)				(2)				(3)			
YEAR ENDING		MANUFACTURERS		CONTRACTORS		MANUFACTURERS		CONTRACTORS			
QUARTER*		CLASS GROUP		CLASS GROUP		CLASS GROUP		CLASS GROUP			
		SALES EXPOSURE		PAYROLL EXPOSURE		SALES EXPOSURE		PAYROLL EXPOSURE			
		INDICES		INDICES		INDICES		INDICES			
2009	1	0.961	22.128	2016	1	1.030	25.313				
	2	0.966	22.349		2	1.031	25.481				
	3	0.969	22.502		3	1.030	25.735				
	4	0.968	22.653		4	1.030	25.943				
2010	1	0.964	22.806	2017	1	1.033	26.166				
	2	0.962	22.928		2	1.034	26.330				
	3	0.962	23.080		3	1.037	26.530				
	4	0.965	23.208		4	1.040	26.719				
2011	1	0.968	23.312	2018	1	1.043	26.958				
	2	0.973	23.427		2	1.048	27.208				
	3	0.978	23.556		3	1.052	27.441				
	4	0.982	23.638		4	1.056	27.728				
2012	1	0.986	23.715	2019	1	1.059	27.949				
	2	0.990	23.794		2	1.062	28.183				
	3	0.995	23.873		3	1.064	28.355				
	4	1.000	23.965		4	1.065	28.506				
2013	1	1.004	24.062	2020	1P	1.068	28.680				
	2	1.006	24.140		2P	1.069	28.795				
	3	1.008	24.167		3P	1.069	28.894				
	4	1.010	24.208		4P	1.069	28.944				
2014	1	1.012	24.299	2021	1P	1.068	28.956				
	2	1.016	24.405		2P	1.069	28.975				
	3	1.019	24.538		3P	1.072	29.006				
	4	1.022	24.663		4P	1.076	29.055				
2015	1	1.024	24.759	2022	1P	1.082	29.123				
	2	1.026	24.909		2P	1.088	29.208				
	3	1.028	25.013		3P	1.095	29.312				
	4	1.030	25.172		4P	1.101	29.436				
CHANGE IN EXPOSURES				MANUFACTURERS				CONTRACTORS			
1/1/2017 to 1/1/2022		(2022:2/2017:2)	1.052	1.109							
1/1/2018 to 1/1/2022		(2022:2/2018:2)	1.039	1.074							
1/1/2019 to 1/1/2022		(2022:2/2019:2)	1.024	1.036							
AVERAGE ANNUAL TREND FACTOR											
1/1/2017 to 1/1/2022		( 5.0 YRS )	1.010	1.021							
1/1/2018 to 1/1/2022		( 4.0 YRS )	1.010	1.018							
1/1/2019 to 1/1/2022		( 3.0 YRS )	1.008	1.012							

\* Projected values are identified by a 'P' in column (1).

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PREMISES / OPERATIONS  
OWNERS, LANDLORDS AND TENANTS  
AVERAGE ANNUAL EXPOSURE TRENDS <sup>1</sup>

<u>TYPE OF CLASS</u>	<u>VOLUME</u> <sup>2</sup>	<u>INFLATION TREND</u> <sup>3</sup>
FURNITURE	9.5%	-1.4%
OTHER DURABLES	6.2%	-1.5%
CLOTHING	9.6%	-0.5%
FOOD	43.8%	1.6%
OTHER NON-DURABLES	26.7%	1.2%
RECREATION SERVICES	4.2%	1.9%
TOTAL	100.0%	0.8% <sup>4</sup>

<sup>1</sup> These figures were derived from data supplied by Moody's Analytics. Neither Moody's Analytics nor any of its third party licensors makes any warranties, expressed or implied, as to the results obtained using their data and forecasts.

<sup>2</sup> Volume weights are based on each type of class's inflation-adjusted contribution to GDP in year ending 6/30/2019. Inflation adjusted GDP is measured in terms of 2012 prices.

<sup>3</sup> Inflation trends are based on average annual growth rates in consumption components starting 2017 to 2022.

<sup>4</sup> This OL&T exposure trend is applied only to those classes in class groups 1-13 which have inflation-sensitive exposure bases.

OWNERS, LANDLORDS AND TENANTS  
CLASS GROUPS 1-13  
AVERAGE ANNUAL EXPOSURE TREND  
PRICE DEFLATOR - PERSONAL CONSUMPTION EXPENDITURE COMPONENTS

YEAR ENDING QUARTER		FURNITURE	OTHER DURABLE GOODS	CLOTHING AND SHOES	FOOD AND BEVERAGES	OTHER NONDURABLE GOODS	RECREATION SERVICES	YEAR ENDING QUARTER		FURNITURE	OTHER DURABLE GOODS	CLOTHING AND SHOES	FOOD AND BEVERAGES	OTHER NONDURABLE GOODS	RECREATION SERVICES
2009	1	1.066	0.986	0.947	0.931	0.919	0.940	2016	1	0.920	0.902	0.999	1.061	1.027	1.058
	2	1.069	0.986	0.950	0.936	0.930	0.942		2	0.913	0.901	0.998	1.063	1.029	1.064
	3	1.066	0.985	0.952	0.937	0.942	0.944		3	0.907	0.899	0.998	1.064	1.034	1.071
	4	1.061	0.986	0.956	0.936	0.953	0.947		4	0.900	0.899	0.998	1.065	1.038	1.078
2010	1	1.051	0.984	0.957	0.936	0.962	0.949	2017	1	0.895	0.897	0.999	1.066	1.042	1.086
	2	1.039	0.983	0.956	0.937	0.966	0.953		2	0.888	0.893	0.997	1.068	1.046	1.092
	3	1.027	0.982	0.953	0.940	0.968	0.955		3	0.882	0.890	0.995	1.071	1.048	1.100
	4	1.015	0.982	0.949	0.943	0.970	0.957		4	0.875	0.887	0.992	1.075	1.050	1.108
2011	1	1.006	0.987	0.947	0.948	0.973	0.960	2018	1	0.869	0.885	0.991	1.078	1.051	1.114
	2	1.001	0.994	0.949	0.955	0.977	0.964		2	0.866	0.882	0.994	1.082	1.054	1.120
	3	1.000	1.002	0.955	0.965	0.981	0.968		3	0.864	0.878	0.993	1.086	1.054	1.125
	4	1.000	1.008	0.965	0.975	0.985	0.973		4	0.866	0.871	0.993	1.090	1.055	1.131
2012	1	1.001	1.011	0.976	0.984	0.990	0.980	2019	1	0.868	0.862	0.991	1.095	1.055	1.136
	2	1.001	1.009	0.988	0.991	0.993	0.986		2	0.869	0.857	0.984	1.101	1.055	1.142
	3	1.000	1.005	0.994	0.996	0.997	0.993		3	0.872	0.853	0.984	1.106	1.056	1.147
	4	1.000	1.000	1.000	1.000	1.000	1.000		4	0.872	0.851	0.980	1.111	1.059	1.153
2013	1	0.998	0.994	1.005	1.004	1.001	1.005	2020	1P	0.869	0.850	0.977	1.114	1.063	1.160
	2	0.994	0.989	1.006	1.008	1.001	1.009		2P	0.865	0.845	0.977	1.116	1.066	1.164
	3	0.988	0.985	1.009	1.012	1.001	1.013		3P	0.859	0.841	0.974	1.119	1.070	1.169
	4	0.981	0.979	1.010	1.015	1.002	1.017		4P	0.853	0.838	0.975	1.123	1.074	1.171
2014	1	0.972	0.970	1.010	1.018	1.004	1.022	2021	1P	0.846	0.835	0.974	1.127	1.080	1.172
	2	0.962	0.959	1.012	1.024	1.006	1.028		2P	0.842	0.834	0.975	1.133	1.086	1.178
	3	0.954	0.950	1.013	1.030	1.009	1.032		3P	0.836	0.832	0.974	1.138	1.093	1.184
	4	0.947	0.940	1.013	1.038	1.013	1.036		4P	0.832	0.831	0.974	1.144	1.099	1.190
2015	1	0.940	0.931	1.011	1.045	1.017	1.038	2022	1P	0.829	0.830	0.973	1.150	1.105	1.196
	2	0.935	0.923	1.007	1.050	1.021	1.042		2P	0.827	0.830	0.973	1.156	1.111	1.201
	3	0.930	0.914	1.004	1.054	1.023	1.047		3P	0.827	0.830	0.973	1.162	1.117	1.206
	4	0.924	0.906	1.001	1.058	1.025	1.052		4P	0.828	0.830	0.973	1.168	1.123	1.212
Change In Exposures*								Average Annual Trend Factor							
1/1/2017 to 1/1/2022 (2022:2/2017:2)								1/1/2017 to 1/1/2022 (5.0 Years)							
		0.931	0.929	0.976	1.082	1.063	1.100			-1.4%	-1.5%	-0.5%	1.6%	1.2%	1.9%

\*Assumes a loss cost revision date of January 1, 2021, and a prospective average date of coverage one year later (January 1, 2022).

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PREMISES/OPERATIONS  
GOVERNMENTAL SUBDIVISIONS  
OWNERS, LANDLORDS AND TENANTS  
AVERAGE ANNUAL EXPOSURE TRENDS  
FOR ACCIDENT YEARS ENDING 6/30/2017, 6/30/2018 & 6/30/2019

(1) YEAR ENDING QUARTER		(2) YEARLY VALUES BASED ON MOODY'S ANALYTICS EXPOSURE HISTORY AND FORECASTS @		(1) YEAR ENDING QUARTER		(2) YEARLY VALUES BASED ON MOODY'S ANALYTICS EXPOSURE HISTORY AND FORECASTS @	
2009	1		0.926	2016	1		1.056
	2		0.924		2		1.056
	3		0.920		3		1.056
	4		0.920		4		1.059
2010	1		0.926	2017	1		1.065
	2		0.933		2		1.071
	3		0.940		3		1.078
	4		0.947		4		1.087
2011	1		0.954	2018	1		1.096
	2		0.962		2		1.107
	3		0.971		3		1.118
	4		0.977		4		1.128
2012	1		0.984	2019	1		1.135
	2		0.988		2		1.141
	3		0.992		3		1.147
	4		1.000		4		1.152
2013	1		1.007	2020	1P		1.158
	2		1.016		2P		1.160
	3		1.025		3P		1.161
	4		1.033		4P		1.159
2014	1		1.040	2021	1P		1.157
	2		1.046		2P		1.158
	3		1.052		3P		1.161
	4		1.056		4P		1.167
2015	1		1.057	2022	1P		1.174
	2		1.058		2P		1.181
	3		1.058		3P		1.187
	4		1.057		4P		1.192
CHANGE IN EXPOSURES				AVERAGE ANNUAL TREND FACTOR			
1/1/2017 to 1/1/2022		(2022:2/2017:2)	1.102	1/1/2017 to 1/1/2022		( 5.0 YRS )	1.020
1/1/2018 to 1/1/2022		(2022:2/2018:2)	1.067	1/1/2018 to 1/1/2022		( 4.0 YRS )	1.016
1/1/2019 to 1/1/2022		(2022:2/2019:2)	1.034	1/1/2019 to 1/1/2022		( 3.0 YRS )	1.011

\* Projected values are identified by a 'P' in column (1).

@ Based on a year-ended quarterly implicit price deflator of state and local government expenditures. GDP accounts are based on 2012 dollars.

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OCCURRENCE SEVERITY TREND  
MULTISTATE  
MANUFACTURERS AND CONTRACTORS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Bodily Injury

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 235,622,274	4,219	\$ 55,848	\$ 54,215		
6/30/2010	241,062,562	4,244	56,801	55,325		
12/31/2010	237,530,308	4,359	54,492	56,458		
6/30/2011	256,426,904	4,517	56,769	57,614		
12/31/2011	262,424,287	4,357	60,230	58,793	\$ 58,571	
6/30/2012	236,406,866	3,830	61,725	59,997	59,797	
12/31/2012	218,327,726	3,601	60,630	61,225	61,050	
6/30/2013	221,312,657	3,621	61,119	62,479	62,328	
12/31/2013	229,206,087	3,711	61,764	63,758	63,633	\$ 62,594
6/30/2014	258,653,361	3,938	65,681	65,064	64,966	64,065
12/31/2014	250,350,005	3,667	68,271	66,396	66,326	65,569
6/30/2015	227,440,436	3,434	66,232	67,755	67,715	67,109
12/31/2015	215,545,550	3,379	63,790	69,142	69,133	68,685
6/30/2016	218,469,251	3,098	70,519	70,558	70,581	70,298
12/31/2016	226,198,154	3,140	72,038	72,002	72,059	71,949
6/30/2017	233,688,687	3,209	72,823	73,477	73,568	73,639
12/31/2017	250,513,546	3,225	77,679	74,981	75,108	75,369
6/30/2018	261,020,444	3,224	80,962	76,516	76,681	77,139
12/31/2018	251,380,934	3,218	78,117	78,083	78,287	78,950
6/30/2019	249,251,940	3,166	78,728	79,681	79,926	80,804
Goodness of Fit Statistic, R-Squared:				0.936	0.904	0.863
Average Annual Severity Trend (10 yr)				+ 4.1%		
Average Annual Severity Trend ( 8 yr)				+ 4.2%		
Average Annual Severity Trend ( 6 yr)				+ 4.8%		
Selected Annual Severity Trend				+ 4.5%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors

(See Section B- Explanation of Trend Calculation).

OCCURRENCE SEVERITY TREND  
MULTISTATE  
MANUFACTURERS AND CONTRACTORS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Property Damage

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 166,786,475	15,221	\$ 10,958	\$ 10,602		
6/30/2010	165,560,608	15,591	10,619	10,869		
12/31/2010	169,511,123	16,140	10,503	11,143		
6/30/2011	175,185,043	16,218	10,802	11,424		
12/31/2011	178,200,069	16,030	11,117	11,713	\$ 12,027	
6/30/2012	171,166,242	15,315	11,176	12,008	12,298	
12/31/2012	182,222,087	14,398	12,656	12,311	12,575	
6/30/2013	182,896,889	13,822	13,232	12,621	12,858	
12/31/2013	176,657,072	13,041	13,546	12,940	13,147	\$ 13,996
6/30/2014	183,108,491	12,708	14,409	13,266	13,443	14,179
12/31/2014	184,234,738	12,485	14,756	13,601	13,745	14,364
6/30/2015	182,719,812	12,187	14,993	13,944	14,055	14,552
12/31/2015	181,519,836	12,263	14,802	14,296	14,371	14,742
6/30/2016	181,577,722	12,437	14,600	14,656	14,695	14,935
12/31/2016	187,699,571	12,699	14,781	15,026	15,025	15,130
6/30/2017	187,479,162	12,660	14,809	15,405	15,363	15,328
12/31/2017	198,129,894	12,478	15,878	15,794	15,709	15,528
6/30/2018	198,836,145	12,565	15,825	16,192	16,063	15,731
12/31/2018	197,899,451	12,400	15,960	16,600	16,424	15,937
6/30/2019	196,352,560	12,081	16,253	17,019	16,794	16,145
Goodness of Fit Statistic, R-Squared:				0.897	0.824	0.807
Average Annual Severity Trend (10 yr)				+ 5.1%		
Average Annual Severity Trend ( 8 yr)				+ 4.6%		
Average Annual Severity Trend ( 6 yr)				+ 2.6%		
Selected Annual Severity Trend				+ 4.5%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors

(See Section B- Explanation of Trend Calculation).

OCCURRENCE SEVERITY TREND  
MULTISTATE  
MANUFACTURERS AND CONTRACTORS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Fringe

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 23,727,055	515	\$ 46,072	\$ 40,081		
6/30/2010	22,834,697	604	37,806	40,029		
12/31/2010	18,644,387	574	32,482	39,977		
6/30/2011	18,603,120	504	36,911	39,926		
12/31/2011	18,857,007	500	37,714	39,874	\$ 41,871	
6/30/2012	18,369,412	474	38,754	39,823	41,616	
12/31/2012	16,582,405	439	37,773	39,771	41,363	
6/30/2013	17,923,327	423	42,372	39,720	41,111	
12/31/2013	23,458,969	474	49,491	39,669	40,861	\$ 45,151
6/30/2014	22,900,787	526	43,538	39,617	40,612	44,227
12/31/2014	20,406,375	508	40,170	39,566	40,365	43,322
6/30/2015	22,271,191	513	43,414	39,515	40,119	42,435
12/31/2015	20,544,898	525	39,133	39,464	39,874	41,566
6/30/2016	21,575,377	529	40,785	39,413	39,632	40,716
12/31/2016	19,932,691	483	41,269	39,362	39,390	39,882
6/30/2017	16,638,613	515	32,308	39,312	39,150	39,066
12/31/2017	22,739,690	549	41,420	39,261	38,912	38,266
6/30/2018	26,419,036	556	47,516	39,210	38,675	37,483
12/31/2018	17,832,335	519	34,359	39,160	38,439	36,716
6/30/2019	16,680,880	492	33,904	39,109	38,205	35,965
Goodness of Fit Statistic, R-Squared:				0.004	0.064	0.326
Average Annual Severity Trend (10 yr)				- 0.3%		
Average Annual Severity Trend ( 8 yr)				- 1.2%		
Average Annual Severity Trend ( 6 yr)				- 4.1%		
Selected Annual Severity Trend				0.0%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors  
(See Section B- Explanation of Trend Calculation).



OCCURRENCE SEVERITY TREND  
MULTISTATE  
OWNERS, LANDLORDS, AND TENANTS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Bodily Injury

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 631,697,147	19,190	\$ 32,918	\$ 32,318		
6/30/2010	649,384,967	19,772	32,844	33,044		
12/31/2010	679,989,083	20,120	33,797	33,786		
6/30/2011	706,040,379	20,420	34,576	34,546		
12/31/2011	693,639,284	19,556	35,469	35,322	\$ 35,169	
6/30/2012	632,588,124	17,277	36,614	36,116	35,976	
12/31/2012	598,038,420	16,386	36,497	36,927	36,802	
6/30/2013	632,849,703	17,125	36,955	37,757	37,646	
12/31/2013	682,175,634	18,101	37,687	38,605	38,510	\$ 38,442
6/30/2014	758,994,700	19,245	39,439	39,473	39,394	39,337
12/31/2014	751,824,475	18,444	40,763	40,360	40,298	40,253
6/30/2015	741,371,872	17,773	41,713	41,267	41,222	41,191
12/31/2015	770,650,459	17,980	42,862	42,194	42,168	42,150
6/30/2016	743,503,511	16,859	44,101	43,142	43,136	43,132
12/31/2016	743,205,883	16,972	43,790	44,112	44,126	44,136
6/30/2017	774,704,688	17,612	43,987	45,103	45,138	45,164
12/31/2017	810,415,611	18,224	44,470	46,116	46,174	46,215
6/30/2018	887,140,288	18,962	46,785	47,153	47,234	47,291
12/31/2018	896,651,764	18,347	48,872	48,212	48,318	48,393
6/30/2019	854,872,588	16,807	50,864	49,296	49,426	49,520
Goodness of Fit Statistic, R-Squared:				0.982	0.970	0.942
Average Annual Severity Trend (10 yr)				+ 4.5%		
Average Annual Severity Trend ( 8 yr)				+ 4.6%		
Average Annual Severity Trend ( 6 yr)				+ 4.7%		
Selected Annual Severity Trend				+ 4.0%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors  
(See Section B- Explanation of Trend Calculation).

OCCURRENCE SEVERITY TREND  
MULTISTATE  
OWNERS, LANDLORDS, AND TENANTS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Property Damage

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 73,232,389	8,179	\$ 8,954	\$ 8,352		
6/30/2010	75,009,598	8,430	8,898	8,552		
12/31/2010	74,500,774	8,699	8,564	8,757		
6/30/2011	76,462,777	8,911	8,581	8,967		
12/31/2011	83,833,363	8,830	9,494	9,183	\$ 9,031	
6/30/2012	78,466,258	8,078	9,714	9,403	9,265	
12/31/2012	75,845,345	7,657	9,905	9,629	9,505	
6/30/2013	73,310,116	7,748	9,462	9,860	9,752	
12/31/2013	77,305,431	7,732	9,998	10,096	10,004	\$ 9,544
6/30/2014	75,542,238	7,915	9,544	10,339	10,263	9,859
12/31/2014	74,630,074	7,879	9,472	10,587	10,529	10,185
6/30/2015	85,047,587	7,600	11,190	10,841	10,802	10,521
12/31/2015	88,187,021	7,630	11,558	11,101	11,082	10,869
6/30/2016	81,885,166	7,616	10,752	11,368	11,369	11,228
12/31/2016	88,337,111	7,702	11,469	11,640	11,663	11,599
6/30/2017	91,341,382	8,065	11,326	11,920	11,965	11,982
12/31/2017	97,981,909	7,888	12,422	12,206	12,275	12,377
6/30/2018	101,042,321	7,562	13,362	12,499	12,593	12,786
12/31/2018	95,731,886	7,352	13,021	12,799	12,919	13,208
6/30/2019	96,767,122	7,001	13,822	13,106	13,254	13,645
Goodness of Fit Statistic, R-Squared:				0.884	0.852	0.865
Average Annual Severity Trend (10 yr)				+ 4.9%		
Average Annual Severity Trend ( 8 yr)				+ 5.2%		
Average Annual Severity Trend ( 6 yr)				+ 6.7%		
Selected Annual Severity Trend				+ 5.0%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors

(See Section B- Explanation of Trend Calculation).

OCCURRENCE SEVERITY TREND  
MULTISTATE  
OWNERS, LANDLORDS, AND TENANTS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Fringe

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Occurrences at <u>Ultimate</u>	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$ 40,246,685	518	\$ 77,696	\$ 85,914		
6/30/2010	42,409,254	558	76,002	84,276		
12/31/2010	33,732,674	525	64,253	82,669		
6/30/2011	40,466,044	470	86,098	81,093		
12/31/2011	45,486,533	422	107,788	79,547	\$ 89,311	
6/30/2012	33,496,081	348	96,253	78,030	86,551	
12/31/2012	30,740,405	339	90,680	76,542	83,877	
6/30/2013	30,894,768	380	81,302	75,083	81,285	
12/31/2013	32,396,888	415	78,065	73,651	78,773	\$ 67,325
6/30/2014	36,512,408	470	77,686	72,247	76,339	66,757
12/31/2014	30,877,757	513	60,191	70,869	73,980	66,193
6/30/2015	36,474,370	589	61,926	69,518	71,694	65,634
12/31/2015	39,551,020	674	58,681	68,192	69,478	65,080
6/30/2016	36,520,342	697	52,396	66,892	67,332	64,530
12/31/2016	35,257,959	639	55,177	65,617	65,251	63,985
6/30/2017	32,972,807	555	59,410	64,366	63,235	63,445
12/31/2017	39,822,818	539	73,883	63,138	61,281	62,909
6/30/2018	45,980,991	544	84,524	61,934	59,387	62,378
12/31/2018	36,205,589	549	65,948	60,754	57,552	61,851
6/30/2019	24,292,445	460	52,810	59,595	55,773	61,329
Goodness of Fit Statistic, R-Squared:				0.302	0.443	0.035
Average Annual Severity Trend (10 yr)				- 3.8%		
Average Annual Severity Trend ( 8 yr)				- 6.1%		
Average Annual Severity Trend ( 6 yr)				- 1.7%		
Selected Annual Severity Trend				+ 1.0%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors

(See Section B- Explanation of Trend Calculation).

PREMISES/OPERATIONS  
MANUFACTURERS AND CONTRACTORS

FREQUENCY TREND INCLUDING FRINGE OCCURRENCES<sup>1</sup>

MULTISTATE

Manual Classes (Full and Deductible Coverage)

Monoline and Multiline Combined

CGL Policies Only

Bodily Injury and Property Damage Combined

(1) Accident Year <u>Ending</u>	(2) Aggregate Loss Costs at <u>Current Level</u>	(3) Occurrences at <u>Ultimate</u> <sup>1</sup>	(4) Occurrence Frequency <u>(3)/(2)</u> <sup>2</sup>
6/30/2006	\$ 721,613,388	25,267	35.01
6/30/2007	751,277,830	26,185	34.85
6/30/2008	755,025,104	25,992	34.43
6/30/2009	775,427,520	26,700	34.43
6/30/2010	717,057,601	26,137	36.45
6/30/2011	731,358,117	26,642	36.43
6/30/2012	749,798,952	25,485	33.99
6/30/2013	737,937,479	24,353	33.00
6/30/2014	790,462,467	24,980	31.60
6/30/2015	811,616,912	24,342	29.99
6/30/2016	825,144,162	25,037	30.34
6/30/2017	844,199,482	25,903	30.68
6/30/2018	871,728,318	26,057	29.89
6/30/2019	871,743,920	25,356	29.09

Selected Annual Frequency Trend: 0.0%

<sup>1</sup> Occurrences are based on reported paid amounts developed to ultimate using paid development factors.

<sup>2</sup> Frequency is per \$1,000,000 Aggregate Loss Costs at Current Level.

PREMISES/OPERATIONS  
OWNERS, LANDLORDS AND TENANTS

FREQUENCY TREND INCLUDING FRINGE OCCURRENCES<sup>1</sup>

MULTISTATE

Manual Classes (Full and Deductible Coverage)

Monoline and Multiline Combined

CGL Policies Only

Bodily Injury and Property Damage Combined

(1) Accident Year <u>Ending</u>	(2) Aggregate Loss Costs at <u>Current Level</u>	(3) Occurrences at Ultimate <sup>1</sup>	(4) Occurrence Frequency <u>(3)/(2)<sup>2</sup></u>
6/30/2006	\$ 894,632,808	31,310	35.00
6/30/2007	930,392,767	31,765	34.14
6/30/2008	976,215,453	31,299	32.06
6/30/2009	1,102,336,999	32,696	29.66
6/30/2010	1,157,997,997	32,475	28.04
6/30/2011	1,193,430,305	32,674	27.38
6/30/2012	1,188,601,097	28,328	23.83
6/30/2013	1,158,488,042	27,947	24.12
6/30/2014	1,207,113,512	31,171	25.82
6/30/2015	1,294,691,707	30,012	23.18
6/30/2016	1,321,706,843	29,381	22.23
6/30/2017	1,349,131,616	30,612	22.69
6/30/2018	1,362,715,346	32,441	23.81
6/30/2019	1,336,936,749	29,652	22.18

Selected Annual Frequency Trend:      - 0.5%

<sup>1</sup> Occurrences are based on reported paid amounts developed to ultimate using paid development factors.

<sup>2</sup> Frequency is per \$1,000,000 Aggregate Loss Costs at Current Level.

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS

\*Base Class

CLASS GROUP 01

10100	1.03	
10146	0.46	
10352	0.60	
11258	1.24	
11259	1.33	
11288	1.52	
13111	1.15	
13673	0.94	
13720	0.53	
14401	1.25	
15224	0.56	
18435	1.09	
18436	0.88	
18501	1.00	*

CLASS GROUP 02

16900	1.95	
16901	1.25	
16902	1.06	
16905	2.05	
16906	1.31	
16910	1.17	
16911	1.06	
16915	1.20	
16916	1.00	*
16920	2.66	
16921	2.43	
16930	1.53	
16931	1.65	
16940	3.32	
16941	1.33	

CLASS GROUP 03

10026	1.24	
10042	0.71	
10060	0.34	
10065	0.51	
10066	0.52	
10071	0.61	
10101	0.46	
10105	4.98	
10113	0.69	
10115	1.37	
10130	6.79	
10132	5.85	
10150	0.95	
10151	23.92	
10160	4.26	
10204	0.43	
10205	0.48	
10220	9.04	
10309	0.31	
10315	0.73	
11020	0.58	
11126	0.12	
11155	0.41	
11204	0.60	
11234	0.54	
11273	26.77	
11274	25.69	
12356	2.27	
12374	1.18	
12375	0.58	
12393	0.77	
12467	0.32	

12805	0.62
12841	1.03
12927	0.18
13314	0.23
13351	0.56
13352	0.57
13506	1.76
13507	2.12
13716	0.87
13759	0.34
14068	0.075
14101	0.88
14655	0.17
14733	1.19
14734	0.51
14913	0.64
15314	0.41
15538	0.73
15600	1.84
15608	0.41
15656	12.11
15839	0.55
15991	0.45
15993	0.38
16402	2.72
16403	1.72
16404	2.17
16676	0.57
16750	0.20
16751	0.20
16881	3.13
18109	0.75
18110	0.60
18206	0.97

18335	0.70	
18437	1.00	*
18438	1.92	
18507	0.36	
18570	3.76	
18708	0.22	
18834	0.57	
18911	1.80	
18912	3.39	
18920	0.88	
19795	0.59	
19796	0.69	
41510	90.50	
45900	0.21	
45901	0.18	
48808	3.10	
49111	4.74	

CLASS GROUP 04

10133	12.18	
11052	12.67	
11167	2.92	
11168	15.14	
14731	12.57	
14732	0.93	
15123	12.15	
15124	4.25	
19007	4.75	
19051	10.53	
44009	14.81	
49617	1.00	*
49618	0.84	
49619	1.58	
49763	10.26	

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS

\*Base Class

<u>CLASS GROUP 05</u>		18707	0.15	43626	4.77	44433	310.66
		18833	1.79	43628	61.99	44434	594.24
10140	0.46	<u>CLASS GROUP 07</u>		43629	52.53	44435	615.31
10141	0.92	10015	2.95	43760	1.75	44436	718.67
10145	4.43	10052	2.04	44069	5.10	44437	595.63
12361	1.00	10054	1.81	44070	1.51	44438	470.71
13049	0.52	10110	10.04	44071	1.68	44439	916.25
13112	0.85	10117	2.93	44072	1.16	44440	758.14
13670	0.56	10120	6.57	44311	3.08	46112	1.00
15223	0.66	10331	4.00	44315	2.07	<u>CLASS GROUP 09</u>	
<u>CLASS GROUP 06</u>		10332	6.90	46911	9.44	45190	1.00
10010	1.59	10378	4.05	46912	17.29	45191	0.71
10040	1.21	10379	1.88	47318	3.88	45192	0.83
10070	0.91	10380	3.21	47420	0.85	45193	0.49
10111	1.99	10381	2.78	48206	12.62	45210	0.62
11127	5.07	11138	1.00	48441	0.053	46202	1.27
11128	6.84	16670	1.66	48557	5.30	64074	7.06
11203	11.79	40045	91.94	48558	4.61	64075	4.97
12362	1.00	40046	18.17	48637	4.05		
12373	0.38	40047	6.48	48638	2.01		
12391	0.75	40059	2.32	48925	96.91		
12707	6.56	40061	1.23	49870	40.51		
12797	1.38	40063	41.16	63217	18.47		
13715	1.00	40064	12.10	63218	6.22		
13930	2.13	40111	3.26	<u>CLASS GROUP 08</u>			
14527	4.07	41001	0.11	40101	254.14		
16005	0.53	41664	13.92	40102	224.55		
16501	1.12	41665	1.63	44427	918.85		
16527	1.72	41667	38.05	44428	924.07		
16705	3.19	41668	35.67	44429	13.85		
18078	1.81	41669	0.25	44430	9.63		
18205	2.79	41670	0.42	44431	30.76		
		43518	5.97	44432	9.75		

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS

\*Base Class

<u>CLASS GROUP 10</u>		61000	0.99	65007	1.65	49181	0.82	
41421	0.015	63010	1.80	66122	0.71	49183	1.00	*
41422	0.008	63011	2.25	66123	0.39	49184	2.11	
41603	0.71	63012	3.20	66309	1.14	49185	1.92	
41604	0.39	63013	3.03	66561	2.64	49292	0.060	
41650	1.00	68500	0.22	67017	2.45	49333	0.44	
41680	0.52	<u>CLASS GROUP 12</u>		67634	2.12	49801	6.88	
41715	0.33	41678	3.04	67635	1.50	49802	0.61	
41716	0.21	43152	0.91	68001	4.58	49803	1.08	
46004	0.95	46362	10.61	68439	5.89			
46005	0.76	46426	1.55	68604	0.11			
47469	0.15	46427	2.07	68606	0.43			
47471	0.13	46603	0.13	68607	0.34			
47473	0.17	46604	0.15	68702	0.28			
47474	0.19	46606	0.40	68703	0.21			
47475	0.15	46607	0.55	68706	0.90			
47476	0.15	48600	3.10	68707	0.89			
47477	0.20	60035	1.86	<u>CLASS GROUP 13</u>				
47478	0.21	61212	1.00	40075	1.87			
67508	1.20	61216	1.11	43151	0.93			
67509	0.88	61217	1.01	43200	3.54			
67510	0.49	61218	0.69	43421	0.97			
67511	0.53	61223	4.66	43422	5.09			
67512	2.27	61224	1.65	43550	3.46			
67513	1.44	61225	2.29	43551	1.92			
<u>CLASS GROUP 11</u>		61226	3.65	44276	4.75			
60010	1.00	61227	3.34	44277	3.08			
60011	1.15	62000	0.76	45334	2.04			
60012	1.89	62001	0.57	45450	0.60			
60013	1.62	62002	0.26	45937	0.008			
60015	1.21	62003	0.82	46700	7.12			
60016	1.36	63215	2.71	47221	7.81			
		63216	1.88	48039	2.51			



PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS  
\*Base Class

CLASS GROUP 14

10020	(a)
10119	(a)
10135	(a)
10375	(a)
11101	(a)
11120	(a)
11160	(a)
13208	(a)
13461	(a)
15119	(a)
15120	(a)
15300	(a)
16722	(a)
16723	(a)
18200	(a)
18991	(a)
19061	(a)
40005	(a)
40006	(a)
40010	(a)
40015	(a)
40020	(a)
40026	(a)
40031	(a)
40032	(a)
40040	(a)
40041	(a)
40042	(a)
40066	(a)
40067	(a)
40069	(a)
40072	(a)
40115	(a)
40117	(a)

40140	(a)
41210	(a)
41666	(a)
41672	(a)
41673	(a)
41700	(a)
43007	(a)
43117	(a)
43215	(a)
43424	(a)
43517	(a)
43754	(a)
43945	(a)
43946	(a)
43990	(a)
43991	(a)
44105	(a)
44106	(a)
44113	(a)
44193	(a)
44194	(a)
44222	(a)
44500	(a)
44501	(a)
45224	(a)
45225	(a)
45523	(a)
45524	(a)
45539	(a)
45993	(a)
46510	(a)
46590	(a)
46671	(a)
46773	(a)
46822	(a)

46881	(a)
46882	(a)
46913	(a)
46914	(a)
46915	(a)
46916	(a)
47051	(a)
47052	(a)
47103	(a)
47146	(a)
47147	(a)
47253	(a)
47254	(a)
47468	(a)
47600	(a)
47610	(a)
48177	(a)
48178	(a)
48252	(a)
48610	(a)
48727	(a)
48924	(a)
49305	(a)
49451	(a)
49452	(a)
49800	(a)
49890	(a)
49891	(a)
49902	(a)
49903	(a)
63219	(a)
63220	(a)
64500	(a)
97501	(a)

97502	(a)
97503	(a)
97504	(a)

CLASS GROUP 16

44100	0.96
44101	1.00
44102	0.78
44103	0.69
44104	0.29
44108	0.34
44109	0.86
44110	0.88
44111	0.54
44112	0.32

\*

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS  
\*Base Class

CLASS GROUP 30		CLASS GROUP 31		CLASS GROUP 32			
91111	1.07	91302	2.47	90089	2.69	94099	1.56
91127	0.72	91315	0.75	91125	1.62	94225	5.49
91150	0.68	91324	1.67	91160	0.65	94276	2.86
91155	1.51	91340	1.09	91175	0.56	94404	2.71
91235	0.83	91342	1.00	91177	2.45	94569	1.83
91250	1.25	91405	1.27	91179	2.46	94590	7.89
91555	0.50	95625	1.18	91190	1.32	94617	2.49
92215	1.19	96611	0.25	91341	2.81	95124	0.92
92451	0.83	97047	0.76	91343	0.62	95233	1.97
92593	10.90	97050	0.59	91436	3.18	95305	2.14
94304	1.06	98305	0.61	91481	11.61	95310	5.11
94381	1.99	98306	1.57	91507	1.71	95410	2.76
95647	1.00	98344	0.17	91523	26.37	95487	1.48
96053	0.76	98405	0.28	91547	0.15	95620	1.20
97222	0.55	98810	0.86	91551	0.93	96408	2.39
97223	0.83	98813	0.83	91562	2.07	96409	2.21
98111	0.21	99004	0.69	91577	7.41	96410	1.94
98164	0.70	99600	0.30	91590	2.15	96702	2.75
98636	1.02	99614	0.67	91666	0.58	96816	2.58
98806	0.95	99777	1.49	91746	2.07	97111	3.30
98993	1.95	99826	0.17	91805	0.13	97650	2.28
99505	1.65	99952	1.26	92053	0.32	97653	1.95
99506	2.03	99953	1.36	92054	0.11	97654	3.40
99507	1.77	99954	0.99	92055	3.07	98003	0.61
99570	0.95	99955	1.24	92101	4.80	98090	0.082
99571	0.23	99975	1.10	92102	2.89	98091	0.089
99572	0.45			92338	1.11	98092	0.27
99573	0.43			92446	3.65	98257	0.92
99650	0.45			92447	3.19	98304	3.41
99709	1.11			92453	2.02	98307	1.08
99948	2.35			92478	1.00	98308	0.71
				94007	6.85	98413	8.98
						98414	8.22
						98415	1.08

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS  
\*Base Class

CLASS GROUP 32 (cont'd)						CLASS GROUP 34	
98423	2.57	99321	6.22	96317	0.29	10036	2.70
98424	4.36	99613	5.51	96872	1.03	10073	4.20
98425	1.79	99620	0.30	97220	0.075	10075	31.17
98426	1.58	99718	0.88	97308	0.14	10107	12.84
98427	1.54	99746	1.49	97447	0.46	10255	1.00
98449	2.21	99760	0.17	97651	1.36	10256	3.66
98482	2.37	99793	1.89	97652	1.18	10257	0.69
98483	3.50	99827	0.27	97655	1.05	11039	3.65
98502	3.35	99851	1.10	98002	0.19	11248	0.19
98555	1.56	99917	1.78	98152	0.64	12014	0.41
98597	0.35	99938	2.00	98153	0.72	12509	0.25
98598	0.12	99943	5.80	98154	0.85	12510	3.17
98601	4.01	99946	4.32	98155	1.19	12583	1.41
98624	0.63	99963	0.43	98157	0.76	12651	4.11
98640	69.14	CLASS GROUP 33		98159	0.51	12683	1.88
98677	10.90	91130	0.28	98160	1.08	13201	3.63
98678	9.68	91135	0.078	98161	1.21	13204	4.11
98699	3.15	91200	0.16	98163	1.27	13205	1.58
98710	2.19	91265	3.42	98303	2.39	13410	5.75
98805	2.86	91266	1.81	98309	1.20	13412	1.94
98820	5.46	91266	1.81	98429	0.25	13453	2.24
98884	1.42	91560	1.00	98658	1.23	13454	2.62
98967	2.23	91580	1.32	98659	0.22	13455	2.66
99003	1.06	91606	2.74	98705	1.74	13590	1.98
99080	0.75	91629	0.56	98751	0.93	13621	0.50
99111	1.09	91636	0.96	98914	0.15	14279	1.91
99163	2.60	91641	0.26	98949	0.21	14855	0.88
99165	0.57	91722	0.84	99220	0.33	15062	0.79
99223	0.16	92445	0.55	99222	0.62	15063	0.92
99303	8.72	92663	0.13	99471	0.15	15188	1.39
99310	2.18	95306	1.10	99969	0.60	15404	0.36
99315	6.41	95357	0.28	99988	0.53	15405	0.53
		95455	1.16				
		95505	0.54				

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS

\*Base Class

CLASS GROUP 34 (cont'd)		CLASS GROUP 35		59647		51752	
15406	1.35	51300	0.91	59773	0.17	51796	1.96
15488	3.37	51305	0.91	59774	0.14	51808	6.97
15733	0.88	51350	1.53	59775	0.18	51809	8.65
16009	1.08	51351	1.37	59889	0.56	51869	2.31
16588	0.50	51352	1.88	CLASS GROUP 36		51877	13.01
16604	0.84	51355	1.28	50010	5.03	51889	2.14
16694	1.66	51356	1.38	50015	3.27	51896	1.00
16819	4.78	51575	0.41	50017	2.49	51919	2.16
16820	3.70	51666	0.65	50045	5.69	51926	2.20
16890	0.56	51767	0.19	50047	0.64	51927	1.19
16891	0.61	51777	0.66	51201	0.86	51934	2.41
16892	1.11	51790	1.10	51205	2.62	51941	2.19
18506	1.76	51833	0.99	51206	0.41	51942	3.50
18616	1.34	51900	0.74	51240	10.34	51956	9.45
45380	1.03	52315	0.86	51241	30.72	51957	8.33
45771	1.57	52744	3.79	51251	0.89	51958	7.40
45819	0.51	53374	1.00	51252	3.12	51959	7.58
49239	0.77	53375	0.53	51253	2.66	51960	1.00
51315	0.50	53376	0.85	51254	0.83	51970	4.35
51357	0.71	53377	0.87	51340	0.85	51982	1.28
51358	1.71	53403	0.55	51370	10.10	51986	5.03
51359	1.50	53565	0.64	51380	1.01	51999	2.12
59925	1.54	55371	2.55	51500	1.91	52002	1.86
59926	1.31	55802	0.66	51550	2.36	52109	0.47
59927	0.88	56488	1.10	51551	0.82	52134	6.23
		56690	0.57	51552	1.42	52150	11.47
		57403	1.35	51553	2.53	52402	0.47
		58020	1.45	51554	0.24	52432	2.33
		58713	0.42	51576	4.54	52433	2.13
		59188	2.88	51600	3.09	52435	2.67
		59189	3.95	51613	2.04	52438	1.93
		59482	3.00	51741	5.38	52440	3.03
						52467	2.80

\*

\*

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS  
\*Base Class

CLASS GROUP 36 (cont'd)		56041	1.78	58058	2.38	59725	1.87
		56042	2.24	58095	3.35	59726	1.36
52469	0.98	56202	1.78	58096	4.45	59738	4.34
52505	4.88	56390	3.11	58302	1.20	59790	3.35
52581	23.79	56391	2.67	58397	6.97	59867	3.77
52619	1.67	56427	4.30	58503	1.86	59886	0.51
52911	1.33	56699	1.98	58532	2.40	59905	2.36
52967	0.50	56758	1.68	58559	0.49	59914	13.86
53001	4.89	56759	1.72	58560	1.18	59923	0.34
53077	2.35	56760	2.47	58575	1.52	59931	6.23
53095	1.61	56805	3.25	58627	4.88	59932	6.71
53096	2.24	56806	2.30	58682	4.34	59941	2.09
53121	6.37	56807	2.28	58737	3.15	59955	0.80
53271	1.20	56808	2.98	58757	10.62	59963	5.95
53631	0.74	56900	2.86	58759	1.31	59964	13.94
53632	0.85	56910	1.43	58802	1.49	59973	3.84
53731	0.78	56980	2.48	58822	4.10	59984	1.05
53732	5.32	57001	0.85	58903	0.94	59985	4.11
53733	3.46	57002	0.55	58904	0.72	59986	3.14
53907	2.34	57202	2.20	59005	1.78	59989	0.55
54077	3.20	57257	2.73	59057	13.18		
55010	9.66	57401	1.55	59058	8.53		
55011	2.61	57410	0.75	59257	0.48		
55012	3.11	57572	0.44	59306	3.01		
55214	2.52	57600	1.31	59481	8.09		
55597	0.63	57625	11.52	59601	3.05		
55647	1.26	57651	1.40	59660	5.61		
55648	0.57	57798	0.71	59661	2.75		
55649	0.68	57800	2.65	59693	0.46		
55715	5.00	57913	3.43	59701	0.22		
55716	7.23	57998	1.52	59713	5.02		
55918	2.86	58010	3.53	59722	2.60		
55919	0.39	58056	4.21	59723	0.98		
56040	0.27	58057	2.65	59724	1.50		

PREMISES/OPERATIONS (SUBLINE CODE 334)  
 CLASS GROUPS AND DIFFERENTIALS  
 \*Base Class

<u>CLASS GROUP 37</u>		52341	0.30	57411	0.28	59917	0.32
48636	10.49	52342	0.87	57611	0.60	59947	0.52
51001	0.36	52343	0.53	57690	0.78	59970	0.70
51005	0.074	52401	1.64	57716	0.37	59975	0.98
51116	0.91	52547	1.42	57725	0.81	59977	0.56
51210	0.63	52767	1.30	57726	0.63	59988	0.25
51220	2.16	53147	0.22	57808	0.31		
51221	1.20	53229	1.23	57809	0.32		
51222	1.46	53333	1.21	57810	0.31		
51224	1.53	53425	1.14	57871	0.37		
51230	0.26	53803	2.72	57999	0.51		
51250	1.66	55013	1.03	58009	0.51		
51255	4.21	55426	1.25	58301	0.39		
51330	0.64	55717	1.65	58663	2.57		
51333	0.21	55718	1.60	58756	0.48		
51400	1.50	56170	1.12	58813	1.18		
51401	2.21	56171	0.55	58837	2.37		
51625	0.33	56567	1.16	58840	0.71		
51702	0.99	56650	3.55	58873	1.13		
51703	0.41	56651	1.93	58922	1.88		
51734	0.77	56652	1.38	59223	1.17		
51850	1.55	56653	1.33	59378	0.76		
51851	1.05	56654	0.68	59537	0.82		
51852	2.46	56911	1.00	59750	0.61		
51853	0.99	56912	0.81	59751	0.22		
51854	2.22	56913	0.66	59781	0.53		
51855	2.33	56915	3.91	59782	0.79		
51856	1.28	56916	3.53	59783	0.77		
51857	2.19	56917	1.02	59784	0.59		
51909	1.40	56918	0.49	59798	2.01		
52075	1.22	56919	1.25	59806	1.44		
52076	1.47	56920	1.14	59892	0.77		
52137	0.48	57090	1.83	59904	0.52		
		57146	1.16	59915	1.73		

\*

PREMISES/OPERATIONS (SUBLINE CODE 334)  
CLASS GROUPS AND DIFFERENTIALS

\*Base Class

<u>CLASS GROUP 38</u>		46622	10.69	*	53905	(a)	98158	(a)
10072	4.39	47050	1.00		53951	(a)	98162	(a)
10367	3.88	47367	0.25		53952	(a)	98428	(a)
10368	5.67	49005	0.17		53953	(a)	98430	(a)
11007	1.65	49840	1.03		54444	(a)	98622	(a)
11201	14.44	51516	0.075		55014	(a)	98623	(a)
11202	4.27	51517	0.085		55410	(a)	98698	(a)
11206	0.67	51985	0.070		58561	(a)	98871	(a)
11207	8.46	52660	0.089		59695	(a)	99081	(a)
11208	1.45	53734	0.45		91210	(a)	99082	(a)
11209	6.81	54012	0.045		91280	(a)	99083	(a)
11210	2.90	57997	0.10		91325	(a)	99084	(a)
11211	15.07	58408	0.059		91581	(a)	99085	(a)
11212	2.28	58409	0.075		91582	(a)	99160	(a)
11213	1.86	58456	0.040		91583	(a)	99221	(a)
11214	4.58	58457	0.058		91584	(a)	99445	(a)
11222	0.077	58458	0.075		91585	(a)	99798	(a)
14405	0.97	58459	0.09		91586	(a)	99803	(a)
15070	0.13	<u>CLASS GROUP 39</u>			91587	(a)	99986	(a)
15607	0.17	11205	(a)		91588	(a)	99987	(a)
15699	0.42	13206	(a)		91589	(a)		
16471	0.24	13207	(a)		91591	(a)		
41620	1.21	13411	(a)		91618	(a)		
41677	0.25	15060	(a)		94444	(a)		
41696	0.79	15061	(a)		94638	(a)		
41697	0.55	18575	(a)		95358	(a)		
43470	4.60	41675	(a)		95630	(a)		
43822	3.66	41679	(a)		95648	(a)		
43840	0.045	44010	(a)		96703	(a)		
43860	2.88	51211	(a)		96930	(a)		
43889	1.03	52876	(a)		97002	(a)		
44280	0.25	53901	(a)		97003	(a)		
45678	0.27	53902	(a)		97221	(a)		
		53903	(a)		98150	(a)		
		53904	(a)		98151	(a)		
					98156	(a)		

## CLASS EXCEPTIONS

# The following class exceptions apply by state:

### Class Group 10

47469 Not valid for New Jersey

### Class Group 13

49292 For New York, territory 01, class is mapped to Class Group 14 {(a)-rated}  
49920 Valid only for New York, territory 01, with a differential of 1.00

### Class Group 14

49910 Valid only for New York  
49913 Valid only for New York

### Class Group 32

92447 Not valid for New York, territory 01  
92453 Not valid for New York, territory 01  
93166 Valid only for Louisiana, with a differential of 0.17  
93167 Valid only for Louisiana, with a differential of 1.62

### Class Group 33

91130 For New York, class is mapped to Class Group 39 {(a)-rated}  
91600 Valid only for New York, with a differential of 1.32  
91636 For New York, class is mapped to Class Group 39 {(a)-rated}  
98751 For New York, class is mapped to Class Group 39 {(a)-rated}

### Class Group 35

51029 Valid only for Hawaii, with a differential of 1.00  
51098 Valid only for Hawaii, with a differential of 1.00

### Class Group 38

41620 Not valid for New York

### Class Group 39

93169 Valid only for Louisiana



SECTION F  
SUPPORTING MATERIAL -- PRODUCTS  
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MULTISTATE  
PRODUCTS  
CALCULATION OF AGGREGATE LOSS COSTS  
AT CURRENT LEVEL

TYPE OF POLICY -----	ACCIDENT YEAR ENDING -----	\$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----	EXPOSURE DEVELOPMENT FACTOR+ -----	X	EXPOSURE TREND# -----	X	AVERAGE IPMF* -----	=	TRENDED \$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL -----
MONOLINE	12/31/2016	\$23,878,780	1.000		1.062				\$25,359,264
	12/31/2017	25,804,701	1.000		1.052				27,146,545
	12/31/2018	26,885,500	1.006		1.037				28,047,545
MULTILINE	12/31/2016	\$83,435,135	1.000		1.063		0.859		\$76,186,040
	12/31/2017	86,784,843	1.000		1.054		0.859		78,573,782
	12/31/2018	88,688,712	1.006		1.038		0.859		79,553,052
TOTAL	12/31/2016								\$101,545,304
	12/31/2017								105,720,327
	12/31/2018								107,600,597

+ THE DERIVATION OF THE EXPOSURE DEVELOPMENT FACTOR IS SHOWN IN SECTION F - CALCULATION OF EXPOSURE DEVELOPMENT FACTORS.

# AGGREGATE LOSS COSTS AT CURRENT LEVEL HAVE BEEN TRENDING FROM AN AVERAGE DATE OF COVERAGE TO ONE YEAR BEYOND AN ASSUMED EFFECTIVE DATE OF 07/01/2020 BY AN EXPONENTIAL PROJECTION OF THE AVERAGE ANNUAL EXPOSURE TREND FACTOR. THE DERIVATION OF THIS EXPOSURE TREND FACTOR IS SHOWN IN SECTION F - AVERAGE ANNUAL EXPOSURE TRENDS.

\* THE IMPLICIT PACKAGE MODIFICATION FACTORS APPLIED TO THE DATA FOR INDIVIDUAL PROGRAMS ARE SHOWN IN SECTION F - IMPLICIT PACKAGE MODIFICATION FACTORS.

MULTISTATE  
PRODUCTS  
OCCURRENCE  
FULL COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	BASIC LIMIT DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ. FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	12/31/2016	\$11,436,770		1.093		1.085		1.159		0.927		\$14,571,909
		12/31/2017	9,406,618		1.443		1.085		1.126		0.941		15,604,778
		12/31/2018	6,940,526		2.035		1.085		1.093		0.956		16,012,701
BI	ALAE	12/31/2016	\$18,375,350				1.085		1.159		0.927		\$21,420,447
		12/31/2017	14,473,583				1.085		1.126		0.941		16,639,252
		12/31/2018	20,442,677				1.085		1.093		0.956		23,176,378
PD	B/L INDEMNITY	12/31/2016	\$18,812,804		1.209		1.085		1.338		0.927		\$30,608,738
		12/31/2017	17,734,316		1.311		1.085		1.262		0.941		29,956,830
		12/31/2018	12,754,743		1.529		1.085		1.191		0.956		24,092,318
PD	ALAE	12/31/2016	\$28,336,036				1.085		1.338		0.927		\$38,133,326
		12/31/2017	27,060,311				1.085		1.262		0.941		34,866,753
		12/31/2018	21,891,329				1.085		1.191		0.956		27,044,037
	TOTAL												
	FULL COVERAGE	12/31/2016											\$104,734,419
		12/31/2017											97,067,612
		12/31/2018											90,325,434

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.

MULTISTATE  
PRODUCTS  
OCCURRENCE  
DED COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	X	BASIC LIMIT DEVELOPMENT FACTOR	X	UNALLOCATED LOSS ADJ. FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	12/31/2016	\$1,590,170		1.234		1.085		1.159		0.927		\$2,287,450
		12/31/2017	1,621,225		1.485		1.085		1.126		0.941		2,767,754
		12/31/2018	813,295		2.426		1.085		1.093		0.956		2,236,901
BI	ALAE	12/31/2016	\$2,146,076				1.085		1.159		0.927		\$2,501,716
		12/31/2017	2,883,401				1.085		1.126		0.941		3,314,842
		12/31/2018	3,023,366				1.085		1.093		0.956		3,427,666
PD	B/L INDEMNITY	12/31/2016	\$2,207,724		1.085		1.085		1.338		0.927		\$3,223,592
		12/31/2017	3,102,310		1.123		1.085		1.262		0.941		4,488,939
		12/31/2018	2,386,977		1.308		1.085		1.191		0.956		3,857,051
PD	ALAE	12/31/2016	\$2,805,848				1.085		1.338		0.927		\$3,775,980
		12/31/2017	6,391,807				1.085		1.262		0.941		8,235,735
		12/31/2018	3,944,204				1.085		1.191		0.956		4,872,578
TOTAL DED COVERAGE		12/31/2016											\$11,788,739
		12/31/2017											18,807,269
		12/31/2018											14,394,195
TOTAL		12/31/2016											\$116,523,158
		12/31/2017											115,874,882
		12/31/2018											104,719,629

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.

MULTISTATE  
Products  
Subline Code 336  
Combined Single Limit

Implicit Package Modification Factors (A) by Type of Policy

Type of Policy (B) -----	Description -----	Implicit Package Modification Factors -----
31	Not Applicable	--
32	Not Applicable	--
33	Not Applicable	--
34	Mercantile Policy	0.843
35	Not Applicable	--
36	Service Policy	0.909
37	Industrial/Processing Policy	0.866
38	Not Applicable	--

(A) Implicit Package Modification Factors shown above reflect the package modifications currently in the ISO manual for Products for each type of package policy. More specifically, the G.L. and Property Implicit Package Modification Factors are calculated so that they average to the current manual CPP modification factors that apply separately for property and liability.

(B) Combined data for risks written under the ISO CPP Program and individual insurer CMP programs have been used. These Implicit Package Modification Factors were applied to the aggregate loss costs at current level in each accident year. The average implicit package modification factor for each accident year is shown in Section F - Calculation of Aggregate Loss Costs at Current Level. The difference in average implicit package modification factor results from varying aggregate loss-costs-at-current-level distributions by Type of Policy in each year.

MULTISTATE  
PRODUCTS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 336  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months
12/31/2011	204,835,056	208,164,225	208,042,486	208,037,218	208,037,597	208,035,967	208,035,999	208,035,999
12/31/2012	214,724,779	217,698,788	217,681,536	217,695,894	217,687,776	217,688,000	217,685,880	
12/31/2013	225,261,039	227,627,237	227,623,277	227,562,626	227,560,295	227,560,819		
12/31/2014	232,396,278	238,264,563	237,985,796	237,948,271	237,871,639			
12/31/2015	235,028,602	235,761,953	235,508,577	235,439,321				
12/31/2016	224,899,093	224,647,735	224,822,866					
12/31/2017	220,373,248	221,519,070						
12/31/2018	218,683,098							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
12/31/2011	1.016	0.999	1.000	1.000	1.000	1.000	1.000
12/31/2012	1.014	1.000	1.000	1.000	1.000	1.000	
12/31/2013	1.011	1.000	1.000	1.000	1.000		
12/31/2014	1.025	0.999	1.000	1.000			
12/31/2015	1.003	0.999	1.000				
12/31/2016	0.999	1.001					
12/31/2017	1.005						
12/31/2018							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.006	1.000

Accident Year Ending	Exposure Development From <u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>	<u>Factor</u>
12/31/2016			1.000	1.000
12/31/2017		1.000	1.000	1.000
12/31/2018	1.006	1.000	1.000	1.006

## MULTISTATE PRODUCTS LOSS DEVELOPMENT DATA

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PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	5,717,015	10,569,732	14,356,450	16,981,064	17,081,349	16,929,106	16,893,460	16,604,162	17,052,217	17,286,547	17,112,687
12/31/2000	6,449,962	10,033,274	13,729,433	15,431,034	15,323,473	15,192,172	15,868,032	15,345,582	15,225,466	15,293,967	15,207,277
12/31/2001	7,537,915	11,487,533	15,110,683	15,697,373	16,074,033	16,099,785	16,387,745	16,733,846	16,433,076	16,289,764	16,609,946
12/31/2002	6,793,461	10,503,399	14,106,818	15,968,391	15,448,574	14,723,038	14,522,061	14,285,828	14,281,474	14,309,545	14,598,065
12/31/2003	7,104,756	11,402,396	14,372,287	15,265,769	14,684,755	13,983,099	13,681,336	14,216,365	14,559,196	14,748,307	14,718,788
12/31/2004	6,651,990	10,441,136	13,710,157	15,174,010	14,832,935	13,841,888	13,850,098	13,729,546	14,091,358	14,203,538	14,205,116
12/31/2005	8,388,932	10,021,755	12,984,688	12,649,875	12,987,896	13,143,146	13,019,008	13,289,851	13,064,271	12,964,345	12,917,622
12/31/2006	7,717,029	11,993,600	15,910,477	16,192,312	15,887,278	16,078,375	15,954,977	16,219,028	16,474,800	16,427,133	16,066,903
12/31/2007	8,901,689	13,932,807	17,205,969	18,297,746	18,098,623	18,250,071	17,760,766	17,751,594	17,533,520	17,427,818	17,555,300
12/31/2008	9,101,834	13,238,554	15,942,410	16,274,984	17,980,803	16,728,097	16,604,973	16,425,051	16,461,558	16,505,746	16,743,765
12/31/2009	10,881,954	13,556,300	16,014,683	16,208,587	15,902,856	15,995,618	15,897,357	15,979,180	15,924,448	16,188,362	
12/31/2010	10,846,473	15,004,305	16,577,497	17,234,052	17,530,587	16,100,506	15,901,753	15,895,140	15,920,906		
12/31/2011	8,727,742	11,726,521	14,822,904	14,979,662	14,308,465	14,177,131	14,036,555	14,166,737			
12/31/2012	8,420,808	12,625,212	16,559,269	16,946,741	16,954,821	16,626,019	16,440,010				
12/31/2013	6,669,511	9,461,665	13,116,130	13,884,875	14,228,247	14,050,212					
12/31/2014	7,382,818	10,139,074	13,608,235	15,279,621	14,775,408						
12/31/2015	7,287,436	9,520,900	12,456,831	13,847,593							
12/31/2016	6,051,107	8,703,775	11,202,564								
12/31/2017	6,629,159	9,812,226									
12/31/2018	6,778,342										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	17,044,753	16,931,356	17,037,761	17,293,386	18,083,352	18,329,418	18,382,966	17,460,390	17,346,771
12/31/2000	15,218,304	15,368,268	15,413,455	15,610,958	15,910,110	15,960,093	16,410,539	16,447,518	
12/31/2001	16,929,441	17,035,066	17,263,078	17,590,532	17,529,555	17,760,304	17,773,256		
12/31/2002	15,064,726	14,748,163	14,862,938	14,539,610	14,785,186	14,768,063			
12/31/2003	14,735,626	14,910,007	14,830,563	14,898,154	15,064,348				
12/31/2004	14,073,211	13,963,202	14,140,362	14,187,343					
12/31/2005	12,830,165	12,848,326	12,845,367						
12/31/2006	16,359,934	16,563,503							
12/31/2007	17,532,898								



PRODUCTS (Subline Code 336)

FULL COVERAGE

MULTISTATE

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.849	1.358	1.183	1.006	0.991	0.998	0.983	1.027	1.014	0.990	0.996
12/31/2000	1.556	1.368	1.124	0.993	0.991	1.044	0.967	0.992	1.004	0.994	1.001
12/31/2001	1.524	1.315	1.039	1.024	1.002	1.018	1.021	0.982	0.991	1.020	1.019
12/31/2002	1.546	1.343	1.132	0.967	0.953	0.986	0.984	1.000	1.002	1.020	1.032
12/31/2003	1.605	1.260	1.062	0.962	0.952	0.978	1.039	1.024	1.013	0.998	1.001
12/31/2004	1.570	1.313	1.107	0.978	0.933	1.001	0.991	1.026	1.008	1.000	0.991
12/31/2005	1.195	1.296	0.974	1.027	1.012	0.991	1.021	0.983	0.992	0.996	0.993
12/31/2006	1.554	1.327	1.018	0.981	1.012	0.992	1.017	1.016	0.997	0.978	1.018
12/31/2007	1.565	1.235	1.063	0.989	1.008	0.973	0.999	0.988	0.994	1.007	0.999
12/31/2008	1.454	1.204	1.021	1.105	0.930	0.993	0.989	1.002	1.003	1.014	
12/31/2009	1.246	1.181	1.012	0.981	1.006	0.994	1.005	0.997	1.017		
12/31/2010	1.383	1.105	1.040	1.017	0.918	0.988	1.000	1.002			
12/31/2011	1.344	1.264	1.011	0.955	0.991	0.990	1.009				
12/31/2012	1.499	1.312	1.023	1.000	0.981	0.989					
12/31/2013	1.419	1.386	1.059	1.025	0.987						
12/31/2014	1.373	1.342	1.123	0.967							
12/31/2015	1.306	1.308	1.112								
12/31/2016	1.438	1.287									
12/31/2017	1.480										
3 Yr Mean	1.408	1.312	1.098	0.997	0.986	0.989	1.005	1.000	1.005	1.000	1.003
Best 3/5	1.410	1.321	1.065	0.995	0.986	0.991	1.001	1.000	0.998	1.001	0.998

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.993	1.006	1.015	1.046	1.014	1.003	0.950	0.993			
12/31/2000	1.010	1.003	1.013	1.019	1.003	1.028	1.002	1.002 *			
12/31/2001	1.006	1.013	1.019	0.997	1.013	1.001	1.003 *	1.002 *			
12/31/2002	0.979	1.008	0.978	1.017	0.999	1.006 *	1.003 *	1.002 *			
12/31/2003	1.012	0.995	1.005	1.011	1.016 *	1.006 *	1.003 *	1.002 *			
12/31/2004	0.992	1.013	1.003								
12/31/2005	1.001	1.000									
12/31/2006	1.012										
3 Yr Mean	1.002	1.003	0.995	1.008	1.005 @	1.011 @	0.976 @	0.993 @			
Best 3/5	1.002	1.007	1.007	1.016	1.010 *	1.005 *	1.003 *	1.002 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					0.986	0.991	1.001	1.000	0.998	1.001	0.998
12/31/2015				0.995	0.986	0.991	1.001	1.000	0.998	1.001	0.998
12/31/2016			1.065	0.995	0.986	0.991	1.001	1.000	0.998	1.001	0.998
12/31/2017		1.321	1.065	0.995	0.986	0.991	1.001	1.000	0.998	1.001	0.998
12/31/2018	1.410	1.321	1.065	0.995	0.986	0.991	1.001	1.000	0.998	1.001	0.998

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.002	1.007	1.007	1.016	1.010	1.005	1.003	1.002	1.004*	1.031
12/31/2015	1.002	1.007	1.007	1.016	1.010	1.005	1.003	1.002	1.004*	1.026
12/31/2016	1.002	1.007	1.007	1.016	1.010	1.005	1.003	1.002	1.004*	1.093
12/31/2017	1.002	1.007	1.007	1.016	1.010	1.005	1.003	1.002	1.004*	1.443
12/31/2018	1.002	1.007	1.007	1.016	1.010	1.005	1.003	1.002	1.004*	2.035

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PRODUCTS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	489,628	684,095	942,281	1,109,567	1,227,393	1,100,508	1,319,661	1,155,355	1,144,023	1,070,122	1,193,595
12/31/2000	870,239	1,069,778	1,256,990	1,495,480	1,409,661	1,375,363	1,531,917	1,595,954	1,673,321	1,559,785	1,688,780
12/31/2001	498,354	1,028,391	1,417,213	1,703,023	1,477,859	1,673,159	1,988,228	1,953,088	1,991,661	1,908,726	1,929,624
12/31/2002	553,001	1,105,166	1,453,740	1,389,328	1,624,546	1,622,279	1,695,928	1,520,005	1,468,078	1,471,973	1,469,628
12/31/2003	630,019	904,600	939,108	1,634,794	1,374,153	1,335,817	1,390,331	1,381,834	1,384,309	1,389,957	1,392,068
12/31/2004	1,179,217	1,433,888	2,231,909	2,366,761	2,365,969	2,239,999	2,102,002	2,087,667	2,087,050	2,088,514	2,102,805
12/31/2005	706,817	985,457	1,733,435	1,813,687	1,197,901	1,201,595	1,239,458	1,172,627	1,070,138	1,065,713	1,070,204
12/31/2006	1,012,660	1,790,467	2,007,740	1,972,457	1,682,504	1,614,930	1,643,339	1,690,785	1,594,811	1,599,313	1,627,214
12/31/2007	1,775,707	2,300,635	2,174,000	2,490,444	2,554,309	2,089,228	2,095,655	2,202,232	2,206,643	2,231,632	2,241,907
12/31/2008	1,030,087	1,440,957	1,766,961	1,859,373	1,963,092	2,013,719	2,129,233	2,101,703	2,024,204	2,011,854	2,009,628
12/31/2009	893,756	969,404	1,137,659	1,272,024	1,495,638	1,642,179	1,586,940	1,581,941	1,674,167	1,671,940	
12/31/2010	1,046,857	1,879,906	2,031,526	2,136,140	2,267,507	2,464,744	2,417,405	2,216,188	2,705,107		
12/31/2011	1,213,415	1,646,204	2,053,142	1,769,937	1,745,346	1,750,128	1,848,096	1,855,194			
12/31/2012	1,026,582	1,252,871	1,743,602	1,627,904	1,495,152	1,692,087	1,795,150				
12/31/2013	693,051	981,104	1,044,864	1,228,706	1,315,719	1,375,968					
12/31/2014	754,627	1,610,710	1,872,354	2,138,741	2,078,516						
12/31/2015	880,830	1,190,955	1,183,366	1,486,877							
12/31/2016	876,851	1,130,282	1,561,883								
12/31/2017	509,952	1,322,768									
12/31/2018	847,528										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	1,193,496	1,477,295	1,416,737	1,333,829	1,342,618	1,329,540	1,329,540	1,275,033	1,275,033
12/31/2000	1,740,903	1,721,132	1,837,562	1,883,321	1,873,869	1,962,250	1,965,249	1,966,124	
12/31/2001	1,951,898	1,913,648	1,923,502	1,920,740	1,916,741	1,923,340	1,916,740		
12/31/2002	1,469,628	1,470,258	1,471,607	1,474,308	1,474,307	1,499,307			
12/31/2003	1,392,084	1,392,183	1,394,884	1,394,883	1,394,883				
12/31/2004	2,098,729	2,101,430	2,101,429	2,101,429					
12/31/2005	1,072,911	1,073,003	1,072,904						
12/31/2006	1,602,011	1,602,011							
12/31/2007	2,259,132								

PRODUCTS (Subline Code 336)

DEDUCTIBLE

MULTISTATE

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.397	1.377	1.178	1.106	0.897	1.199	0.875	0.990	0.935	1.115	1.000
12/31/2000	1.229	1.175	1.190	0.943	0.976	1.114	1.042	1.048	0.932	1.083	1.031
12/31/2001	2.064	1.378	1.202	0.868	1.132	1.188	0.982	1.020	0.958	1.011	1.012
12/31/2002	1.998	1.315	0.956	1.169	0.999	1.045	0.896	0.966	1.003	0.998	1.000
12/31/2003	1.436	1.038	1.741	0.841	0.972	1.041	0.994	1.002	1.004	1.002	1.000
12/31/2004	1.216	1.557	1.060	1.000	0.947	0.938	0.993	1.000	1.001	1.007	0.998
12/31/2005	1.394	1.759	1.046	0.660	1.003	1.032	0.946	0.913	0.996	1.004	1.003
12/31/2006	1.768	1.121	0.982	0.853	0.960	1.018	1.029	0.943	1.003	1.017	0.985
12/31/2007	1.296	0.945	1.146	1.026	0.818	1.003	1.051	1.002	1.011	1.005	1.008
12/31/2008	1.399	1.226	1.052	1.056	1.026	1.057	0.987	0.963	0.994	0.999	
12/31/2009	1.085	1.174	1.118	1.176	1.098	0.966	0.997	1.058	0.999		
12/31/2010	1.796	1.081	1.051	1.061	1.087	0.981	0.917	1.221			
12/31/2011	1.357	1.247	0.862	0.986	1.003	1.056	1.004				
12/31/2012	1.220	1.392	0.934	0.918	1.132	1.061					
12/31/2013	1.416	1.065	1.176	1.071	1.046						
12/31/2014	2.134	1.162	1.142	0.972							
12/31/2015	1.352	0.994	1.256								
12/31/2016	1.289	1.382									
12/31/2017	2.594										
3 Yr Mean	1.745	1.179	1.191	0.987	1.060	1.033	0.973	1.081	1.001	1.007	0.999
Best 3/5	1.634	1.203	1.084	1.006	1.077	1.031	0.996	1.008	0.999	1.005	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.238	0.959	0.941	1.007	0.990	1.000	0.959	1.000			
12/31/2000	0.989	1.068	1.025	0.995	1.047	1.002	1.000	1.000 *			
12/31/2001	0.980	1.005	0.999	0.998	1.003	0.997	1.002 *	1.000 *			
12/31/2002	1.000	1.001	1.002	1.000	1.017	1.006 *	1.002 *	1.000 *			
12/31/2003	1.000	1.002	1.000	1.000	0.999 *	1.006 *	1.002 *	1.000 *			
12/31/2004	1.001	1.000	1.000								
12/31/2005	1.000	1.000									
12/31/2006	1.000										
3 Yr Mean	1.000	1.001	1.001	0.999	1.022 @	1.000 @	0.980 @	1.000 @			
Best 3/5	1.000	1.001	1.001	0.999	1.006 *	1.003 *	1.001 *	1.000 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.077	1.031	0.996	1.008	0.999	1.005	1.000
12/31/2015				1.006	1.077	1.031	0.996	1.008	0.999	1.005	1.000
12/31/2016			1.084	1.006	1.077	1.031	0.996	1.008	0.999	1.005	1.000
12/31/2017		1.203	1.084	1.006	1.077	1.031	0.996	1.008	0.999	1.005	1.000
12/31/2018	1.634	1.203	1.084	1.006	1.077	1.031	0.996	1.008	0.999	1.005	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.000	1.001	1.001	0.999	1.006	1.003	1.001	1.000	1.000*	1.132
12/31/2015	1.000	1.001	1.001	0.999	1.006	1.003	1.001	1.000	1.000*	1.138
12/31/2016	1.000	1.001	1.001	0.999	1.006	1.003	1.001	1.000	1.000*	1.234
12/31/2017	1.000	1.001	1.001	0.999	1.006	1.003	1.001	1.000	1.000*	1.485
12/31/2018	1.000	1.001	1.001	0.999	1.006	1.003	1.001	1.000	1.000*	2.426

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:											
A.Y.E	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	1,161,678	3,985,613	7,387,691	10,668,200	13,233,772	14,548,644	15,046,702	15,197,863	16,154,995	17,507,138	18,212,354
12/31/2000	1,120,843	4,194,972	8,278,858	11,903,286	13,579,226	14,892,898	17,194,649	17,887,365	19,023,750	19,778,183	19,958,554
12/31/2001	1,749,799	5,171,981	8,442,798	10,704,339	13,917,491	15,584,906	17,349,240	19,004,466	19,379,048	19,351,876	19,689,370
12/31/2002	1,599,652	3,784,060	8,215,607	12,445,362	15,871,320	18,902,695	19,187,685	19,940,615	20,453,984	20,909,959	21,184,268
12/31/2003	1,390,196	4,232,804	8,816,128	14,113,556	17,963,232	19,410,673	20,052,354	21,073,727	20,775,505	21,728,862	22,881,859
12/31/2004	963,866	3,137,637	6,575,179	10,512,971	13,408,866	13,685,622	15,164,856	16,013,952	16,903,080	18,100,276	18,247,993
12/31/2005	1,467,363	3,040,154	5,503,467	7,694,767	9,975,868	12,148,120	12,239,645	12,581,531	12,796,693	13,157,614	13,451,044
12/31/2006	1,914,530	6,329,533	8,227,758	11,090,346	12,902,778	14,472,025	16,502,307	17,833,084	16,905,923	16,987,308	17,004,217
12/31/2007	2,349,364	6,833,692	10,526,282	14,448,149	17,648,878	19,486,806	20,643,209	20,870,362	21,097,686	25,424,744	25,431,969
12/31/2008	1,739,266	4,066,748	8,121,453	13,713,388	17,755,230	19,922,808	19,832,125	20,252,091	20,562,572	20,729,111	20,878,511
12/31/2009	3,228,503	5,776,824	10,277,218	13,501,689	15,820,824	16,890,759	16,949,491	17,221,537	17,213,012	17,312,308	
12/31/2010	2,015,921	5,540,961	9,555,638	14,943,874	17,277,804	18,031,842	18,245,560	18,420,474	18,543,926		
12/31/2011	2,319,665	5,503,119	9,998,365	13,375,894	15,347,227	16,612,662	17,673,645	17,615,972			
12/31/2012	2,394,118	7,047,002	15,699,422	20,885,254	24,280,165	27,045,761	27,252,110				
12/31/2013	1,553,046	4,820,251	8,692,872	11,512,617	13,661,849	15,094,943					
12/31/2014	1,584,286	4,365,831	8,163,959	12,070,876	15,019,566						
12/31/2015	2,191,076	4,724,577	8,307,097	12,511,444							
12/31/2016	1,434,181	3,963,589	8,916,348								
12/31/2017	1,249,751	3,364,322									
12/31/2018	2,045,496										

A.Y.E	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	18,624,785	19,125,647	19,695,875	20,534,413	21,868,607	22,419,334	22,841,682	23,368,424	23,630,162
12/31/2000	20,286,810	20,586,684	20,968,539	21,098,560	21,347,767	21,525,516	21,664,477	21,962,086	
12/31/2001	19,987,812	20,329,171	20,609,279	20,912,049	21,122,306	21,422,486	21,577,685		
12/31/2002	23,638,152	23,557,837	23,531,498	22,785,011	22,903,075	23,404,020			
12/31/2003	22,818,076	23,080,027	22,412,276	22,507,667	22,549,549				
12/31/2004	18,404,058	18,527,598	18,657,113	18,911,037					
12/31/2005	13,626,250	13,729,752	13,855,899						
12/31/2006	17,017,417	17,191,531							
12/31/2007	25,534,736								

PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

	Increments												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	2,823,935	3,402,078	3,280,509	2,565,572	1,314,872	498,058	151,161	957,132	1,352,143	705,216	412,431	500,862	570,228
12/31/2000	3,074,129	4,083,886	3,624,428	1,675,940	1,313,672	2,301,751	692,716	1,136,385	754,433	180,371	328,256	299,874	381,855
12/31/2001	3,422,182	3,270,817	2,261,541	3,213,152	1,667,415	1,764,334	1,655,226	374,582	-27,172	337,494	298,442	341,359	280,108
12/31/2002	2,184,408	4,431,547	4,229,755	3,425,958	3,031,375	284,990	752,930	513,369	455,975	274,309	2,453,884	-80,315	-26,339
12/31/2003	2,842,608	4,583,324	5,297,428	3,849,676	1,447,441	641,681	1,021,373	-298,222	953,357	1,152,997	-63,783	261,951	-667,751
12/31/2004	2,173,771	3,437,542	3,937,792	2,895,895	276,756	1,479,234	849,096	889,128	1,197,196	147,717	156,065	123,540	129,515
12/31/2005	1,572,791	2,463,313	2,191,300	2,281,101	2,172,252	91,525	341,886	215,162	360,921	293,430	175,206	103,502	126,147
12/31/2006	4,415,003	1,898,225	2,862,588	1,812,432	1,569,247	2,030,282	1,330,777	-927,161	81,385	16,909	13,200	174,114	
12/31/2007	4,484,328	3,692,590	3,921,867	3,200,729	1,837,928	1,156,403	227,153	227,324	4,327,058	7,225	102,767		
12/31/2008	2,327,482	4,054,705	5,591,935	4,041,842	2,167,578	-90,683	419,966	310,481	166,539	149,400			
12/31/2009	2,548,321	4,500,394	3,224,471	2,319,135	1,069,935	58,732	272,046	-8,525	99,296				
12/31/2010	3,525,040	4,014,677	5,388,236	2,333,930	754,038	213,718	174,914	123,452					
12/31/2011	3,183,454	4,495,246	3,377,529	1,971,333	1,265,435	1,060,983	-57,673						
12/31/2012	4,652,884	8,652,420	5,185,832	3,394,911	2,765,596	206,349							
12/31/2013	3,267,205	3,872,621	2,819,745	2,149,232	1,433,094								
12/31/2014	2,781,545	3,798,128	3,906,917	2,948,690									
12/31/2015	2,533,501	3,582,520	4,204,347										
12/31/2016	2,529,408	4,952,759											
12/31/2017	2,114,571												

	Incremental Percentages												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	0.0858	0.1033	0.0996	0.0779	0.0399	0.0151	0.0046	0.0291	0.0411	0.0214	0.0125	0.0152	0.0173
12/31/2000	0.1003	0.1333	0.1183	0.0547	0.0429	0.0751	0.0226	0.0371	0.0246	0.0059	0.0107	0.0098	0.0125
12/31/2001	0.1052	0.1006	0.0695	0.0988	0.0513	0.0543	0.0509	0.0115	-0.0008	0.0104	0.0092	0.0105	0.0086
12/31/2002	0.0761	0.1545	0.1474	0.1194	0.1057	0.0099	0.0262	0.0179	0.0159	0.0096	0.0855	-0.0028	-0.0009
12/31/2003	0.0893	0.1440	0.1665	0.1210	0.0455	0.0202	0.0321	-0.0094	0.0300	0.0362	-0.0020	0.0082	-0.0210
12/31/2004	0.0812	0.1284	0.1471	0.1082	0.0103	0.0553	0.0317	0.0332	0.0447	0.0055	0.0058	0.0046	0.0048
12/31/2005	0.0534	0.0837	0.0745	0.0775	0.0738	0.0031	0.0116	0.0073	0.0123	0.0100	0.0060	0.0035	0.0043
12/31/2006	0.1263	0.0543	0.0819	0.0519	0.0449	0.0581	0.0381	-0.0265	0.0023	0.0005	0.0004	0.0050	
12/31/2007	0.1157	0.0953	0.1012	0.0826	0.0474	0.0298	0.0059	0.0059	0.1117	0.0002	0.0027		
12/31/2008	0.0706	0.1229	0.1696	0.1226	0.0657	-0.0027	0.0127	0.0094	0.0050	0.0045			
12/31/2009	0.0686	0.1212	0.0868	0.0624	0.0288	0.0016	0.0073	-0.0002	0.0027				
12/31/2010	0.0999	0.1138	0.1527	0.0661	0.0214	0.0061	0.0050	0.0035					
12/31/2011	0.1139	0.1609	0.1209	0.0706	0.0453	0.0380	-0.0021						
12/31/2012	0.1325	0.2463	0.1476	0.0967	0.0787	0.0059							
12/31/2013	0.1127	0.1336	0.0973	0.0741	0.0494								
12/31/2014	0.0838	0.1144	0.1177	0.0888									
12/31/2015	0.0903	0.1277	0.1499										
12/31/2016	0.1050	0.2055											
12/31/2017	0.0841												

Best 3/5	0.0931	0.1556	0.1287	0.0778	0.0412	0.0045	0.0060	0.0030	0.0067	0.0035	0.0030	0.0044	0.0027
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PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	Link Ratios <u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>Ult:243</u>	
12/31/1999	1.043	1.065	1.025	1.019	1.023	1.011	1.043	*
12/31/2000	1.006	1.012	1.008	1.006	1.014	1.011 *	1.043	*
12/31/2001	1.015	1.010	1.014	1.007	1.010 *	1.011 *	1.043	*
12/31/2002	0.968	1.005	1.022	1.015 *	1.010 *	1.011 *	1.043	*
12/31/2003	1.004	1.002	1.009 *	1.015 *	1.010 *	1.011 *	1.043	*
12/31/2004	1.014							
Best 3/5	1.008	1.009	1.015 *	1.012 *	1.011 *	1.011 *	1.043	*

171 to Ultimate Factor: 1.114

	Cumulative Incremental Factors						
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.530	0.437	0.282	0.153	0.075	0.034	0.029
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.023	0.020	0.014	0.010	0.007	0.003	0.000

<u>A.Y.E</u>	Reported ALAE <u>as of 3/31/19</u>	\$500,000 <u>Ultimate Indemnity</u>	ALAE <u>Factor</u>	Additional <u>ALAE</u>	ALAE at <u>171 Months</u>	171-Ultimate <u>Factor</u>	Ultimate <u>ALAE</u>
12/31/2016	9,454,560	24,966,681	0.282	7,040,617	16,495,177	1.114	18,375,350
12/31/2017	2,930,700	23,025,028	0.437	10,061,952	12,992,652	1.114	14,473,583
12/31/2018	2,013,902	30,824,497	0.530	16,336,996	18,350,898	1.114	20,442,677

\* Calculated Using Modified Bondy Method

PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	8,775,392	11,535,910	13,261,731	14,911,838	14,482,216	15,518,987	15,373,379	16,532,220	17,305,331	17,611,023	17,653,455
12/31/2000	9,359,243	12,279,206	13,973,001	14,691,586	15,996,268	16,853,143	17,692,485	18,458,300	18,703,896	19,022,889	19,036,275
12/31/2001	10,869,760	13,663,578	17,452,620	18,711,416	18,613,153	19,344,924	20,491,312	20,372,410	20,877,064	21,074,729	21,359,528
12/31/2002	8,533,174	13,870,196	16,823,277	16,055,637	16,062,495	17,132,778	17,509,920	17,773,076	18,044,002	18,222,620	18,780,953
12/31/2003	9,012,463	11,099,270	13,275,916	14,336,459	15,527,939	16,801,077	17,205,204	17,822,810	18,396,081	18,716,324	18,777,872
12/31/2004	9,194,145	10,781,272	12,043,858	12,480,851	13,822,864	14,106,820	14,439,410	14,835,573	14,979,087	15,374,665	15,540,431
12/31/2005	10,979,382	12,763,283	13,035,554	13,750,429	14,035,423	14,503,047	14,469,086	15,492,129	15,509,844	16,185,873	16,497,692
12/31/2006	11,369,031	12,856,270	14,049,961	14,489,775	15,494,160	16,034,032	16,521,529	18,384,856	18,986,993	18,863,137	18,978,220
12/31/2007	14,784,289	16,984,723	18,098,424	18,003,843	19,189,763	20,022,203	21,337,826	22,022,132	22,351,476	23,106,876	23,683,391
12/31/2008	15,223,786	18,435,601	19,820,517	20,915,565	21,673,701	22,709,746	23,331,127	23,849,672	24,460,633	24,942,823	25,121,810
12/31/2009	19,321,608	21,973,561	23,335,793	23,271,289	23,573,579	24,283,393	23,955,543	24,646,473	25,055,441	24,939,758	
12/31/2010	17,768,740	20,278,971	21,797,115	22,267,455	22,236,153	22,989,117	23,109,074	23,544,158	23,897,400		
12/31/2011	14,929,478	16,713,856	17,323,735	18,800,347	19,119,554	19,604,687	20,122,246	20,706,268			
12/31/2012	15,698,829	16,385,698	17,963,339	20,079,613	20,557,137	20,965,072	21,264,832				
12/31/2013	14,944,259	17,246,442	18,606,227	18,693,570	19,509,190	19,945,664					
12/31/2014	14,004,454	16,007,816	17,455,808	17,647,602	17,971,473						
12/31/2015	14,471,682	15,353,443	16,073,751	16,952,446							
12/31/2016	14,794,173	17,753,973	19,289,844								
12/31/2017	14,180,555	17,619,101									
12/31/2018	12,984,057										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	17,506,343	17,396,753	17,490,157	17,460,685	17,488,900	17,615,392	17,619,270	17,607,101	17,601,191
12/31/2000	18,806,380	18,952,041	18,800,922	18,787,279	18,788,670	18,787,298	18,789,499	18,778,999	
12/31/2001	21,382,074	21,181,581	21,095,311	21,144,984	21,097,835	21,104,662	21,093,862		
12/31/2002	18,866,142	18,971,235	19,005,707	19,129,786	19,129,492	19,060,980			
12/31/2003	19,271,550	19,070,628	19,030,715	19,060,957	19,043,720				
12/31/2004	15,744,795	15,631,858	15,809,273	15,560,951					
12/31/2005	16,361,715	16,273,213	16,500,520						
12/31/2006	18,801,803	19,126,281							
12/31/2007	23,820,491								

PRODUCTS (Subline Code 336)

FULL COVERAGE

MULTISTATE

PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.315	1.150	1.124	0.971	1.072	0.991	1.075	1.047	1.018	1.002	0.992
12/31/2000	1.312	1.138	1.051	1.089	1.054	1.050	1.043	1.013	1.017	1.001	0.988
12/31/2001	1.257	1.277	1.072	0.995	1.039	1.059	0.994	1.025	1.009	1.014	1.001
12/31/2002	1.625	1.213	0.954	1.000	1.067	1.022	1.015	1.015	1.010	1.031	1.005
12/31/2003	1.232	1.196	1.080	1.083	1.082	1.024	1.036	1.032	1.017	1.003	1.026
12/31/2004	1.173	1.117	1.036	1.108	1.021	1.024	1.027	1.010	1.026	1.011	1.013
12/31/2005	1.162	1.021	1.055	1.021	1.033	0.998	1.071	1.001	1.044	1.019	0.992
12/31/2006	1.131	1.093	1.031	1.069	1.035	1.030	1.113	1.033	0.993	1.006	0.991
12/31/2007	1.149	1.066	0.995	1.066	1.043	1.066	1.032	1.015	1.034	1.025	1.006
12/31/2008	1.211	1.075	1.055	1.036	1.048	1.027	1.022	1.026	1.020	1.007	
12/31/2009	1.137	1.062	0.997	1.013	1.030	0.986	1.029	1.017	0.995		
12/31/2010	1.141	1.075	1.022	0.999	1.034	1.005	1.019	1.015			
12/31/2011	1.120	1.036	1.085	1.017	1.025	1.026	1.029				
12/31/2012	1.044	1.096	1.118	1.024	1.020	1.014					
12/31/2013	1.154	1.079	1.005	1.044	1.022						
12/31/2014	1.143	1.090	1.011	1.018							
12/31/2015	1.061	1.047	1.055								
12/31/2016	1.200	1.087									
12/31/2017	1.242										
3 Yr Mean	1.168	1.075	1.024	1.029	1.022	1.015	1.026	1.019	1.016	1.013	0.996
Best 3/5	1.166	1.085	1.050	1.020	1.026	1.015	1.027	1.019	1.016	1.012	1.004

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.994	1.005	0.998	1.002	1.007	1.000	0.999	1.000			
12/31/2000	1.008	0.992	0.999	1.000	1.000	1.000	0.999	1.000 *			
12/31/2001	0.991	0.996	1.002	0.998	1.000	0.999	1.000 *	1.000 *			
12/31/2002	1.006	1.002	1.007	1.000	0.996	1.000 *	1.000 *	1.000 *			
12/31/2003	0.990	0.998	1.002	0.999	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	0.993	1.011	0.984								
12/31/2005	0.995	1.014									
12/31/2006	1.017										
3 Yr Mean	1.002	1.008	0.998	0.999	0.999 @	1.000 @	0.999 @	1.000 @			
Best 3/5	0.998	1.004	1.001	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.026	1.015	1.027	1.019	1.016	1.012	1.004
12/31/2015				1.020	1.026	1.015	1.027	1.019	1.016	1.012	1.004
12/31/2016			1.050	1.020	1.026	1.015	1.027	1.019	1.016	1.012	1.004
12/31/2017		1.085	1.050	1.020	1.026	1.015	1.027	1.019	1.016	1.012	1.004
12/31/2018	1.166	1.085	1.050	1.020	1.026	1.015	1.027	1.019	1.016	1.012	1.004

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	0.998	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.128
12/31/2015	0.998	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.151
12/31/2016	0.998	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.209
12/31/2017	0.998	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.311
12/31/2018	0.998	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.529

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios



PRODUCTS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	871,891	974,564	1,240,484	1,804,131	1,825,758	1,990,773	2,124,460	2,280,180	2,603,467	2,813,817	2,899,708
12/31/2000	911,481	1,418,161	1,856,733	1,701,306	1,789,637	1,959,252	2,347,075	2,540,978	2,684,924	2,899,930	2,969,897
12/31/2001	1,714,268	1,906,815	2,501,349	2,794,304	2,722,663	3,033,211	3,480,995	4,053,613	4,295,842	4,413,920	4,562,554
12/31/2002	816,127	1,498,288	1,749,234	2,165,704	2,663,778	2,788,020	2,940,334	2,979,663	3,626,446	3,613,477	3,612,678
12/31/2003	1,112,048	1,100,271	1,034,747	1,198,168	1,258,275	1,407,272	1,758,440	1,800,015	1,823,913	1,978,839	2,303,717
12/31/2004	646,934	1,032,419	1,566,269	1,341,372	1,264,125	1,315,198	1,328,885	1,297,252	1,410,397	1,511,868	1,508,696
12/31/2005	1,247,844	2,341,128	2,237,914	2,570,256	2,665,469	2,564,226	2,830,164	2,951,706	2,948,330	2,896,340	2,831,657
12/31/2006	2,259,717	3,642,554	4,041,624	3,732,114	3,655,686	3,767,640	4,204,456	4,276,901	4,402,958	4,507,887	4,541,307
12/31/2007	3,147,462	2,878,702	2,861,591	2,951,695	3,267,561	3,203,908	3,281,797	3,460,666	3,555,960	3,569,190	3,689,724
12/31/2008	2,300,534	2,356,105	2,912,852	2,942,863	2,719,539	2,777,845	2,954,737	3,042,876	3,053,072	2,973,285	3,080,284
12/31/2009	3,491,893	3,487,472	3,033,187	3,092,760	3,240,776	3,461,193	3,368,806	3,494,914	3,533,663	3,721,210	
12/31/2010	2,146,474	3,013,663	3,275,886	3,013,927	3,001,696	3,111,554	3,178,635	3,098,837	3,148,850		
12/31/2011	3,103,138	3,172,965	3,030,473	3,019,418	3,195,289	3,108,294	3,072,212	3,071,735			
12/31/2012	2,717,493	2,633,520	2,996,093	2,829,308	2,967,153	2,644,919	2,658,274				
12/31/2013	3,542,774	3,578,990	3,636,208	3,715,846	3,657,084	3,731,285					
12/31/2014	3,144,357	4,105,220	4,108,647	4,323,418	4,244,684						
12/31/2015	2,628,499	2,808,688	3,060,015	2,943,331							
12/31/2016	2,860,766	3,201,787	2,881,966								
12/31/2017	2,022,128	2,644,590									
12/31/2018	2,507,459										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	2,852,363	2,836,252	2,837,368	2,842,280	2,842,280	2,842,275	2,842,275	2,842,275	2,842,275
12/31/2000	2,883,052	2,833,259	2,840,932	2,838,796	2,833,475	2,833,475	2,898,404	2,898,403	
12/31/2001	4,404,880	4,363,049	4,313,378	4,294,049	4,221,521	4,226,524	4,219,520		
12/31/2002	3,357,877	3,307,655	3,256,554	3,246,554	3,248,888	3,247,052			
12/31/2003	2,371,415	2,373,258	2,405,716	2,403,729	2,401,665				
12/31/2004	1,478,231	1,507,118	1,502,117	1,501,455					
12/31/2005	2,922,590	2,953,469	2,969,594						
12/31/2006	4,580,000	4,562,597							
12/31/2007	3,668,685								

PRODUCTS (Subline Code 336)

DEDUCTIBLE

MULTISTATE

PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.118	1.273	1.454	1.012	1.090	1.067	1.073	1.142	1.081	1.031	0.984
12/31/2000	1.556	1.309	0.916	1.052	1.095	1.198	1.083	1.057	1.080	1.024	0.971
12/31/2001	1.112	1.312	1.117	0.974	1.114	1.148	1.164	1.060	1.027	1.034	0.965
12/31/2002	1.836	1.167	1.238	1.230	1.047	1.055	1.013	1.217	0.996	1.000	0.929
12/31/2003	0.989	0.940	1.158	1.050	1.118	1.250	1.024	1.013	1.085	1.164	1.029
12/31/2004	1.596	1.517	0.856	0.942	1.040	1.010	0.976	1.087	1.072	0.998	0.980
12/31/2005	1.876	0.956	1.149	1.037	0.962	1.104	1.043	0.999	0.982	0.978	1.032
12/31/2006	1.612	1.110	0.923	0.980	1.031	1.116	1.017	1.029	1.024	1.007	1.009
12/31/2007	0.915	0.994	1.031	1.107	0.981	1.024	1.055	1.028	1.004	1.034	0.994
12/31/2008	1.024	1.236	1.010	0.924	1.021	1.064	1.030	1.003	0.974	1.036	
12/31/2009	0.999	0.870	1.020	1.048	1.068	0.973	1.037	1.011	1.053		
12/31/2010	1.404	1.087	0.920	0.996	1.037	1.022	0.975	1.016			
12/31/2011	1.023	0.955	0.996	1.058	0.973	0.988	1.000				
12/31/2012	0.969	1.138	0.944	1.049	0.891	1.005					
12/31/2013	1.010	1.016	1.022	0.984	1.020						
12/31/2014	1.306	1.001	1.052	0.982							
12/31/2015	1.069	1.089	0.962								
12/31/2016	1.119	0.900									
12/31/2017	1.308										
3 Yr Mean	1.165	0.997	1.012	1.005	0.961	1.005	1.004	1.010	1.010	1.026	1.012
Best 3/5	1.165	1.035	0.993	1.010	1.010	1.005	1.022	1.018	1.003	1.013	1.011

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.994	1.000	1.002	1.000	1.000	1.000	1.000	1.000			
12/31/2000	0.983	1.003	0.999	0.998	1.000	1.023	1.000	1.000 *			
12/31/2001	0.991	0.989	0.996	0.983	1.001	0.998	1.000 *	1.000 *			
12/31/2002	0.985	0.985	0.997	1.001	0.999	1.000 *	1.000 *	1.000 *			
12/31/2003	1.001	1.014	0.999	0.999	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	1.020	0.997	1.000								
12/31/2005	1.011	1.005									
12/31/2006	0.996										
3 Yr Mean	1.009	1.005	0.999	0.994	1.000 @	1.007 @	1.000 @	1.000 @			
Best 3/5	1.003	0.997	0.998	0.999	1.000 *	1.000 *	1.000 *	1.000 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.010	1.005	1.022	1.018	1.003	1.013	1.011
12/31/2015				1.010	1.010	1.005	1.022	1.018	1.003	1.013	1.011
12/31/2016			0.993	1.010	1.010	1.005	1.022	1.018	1.003	1.013	1.011
12/31/2017		1.035	0.993	1.010	1.010	1.005	1.022	1.018	1.003	1.013	1.011
12/31/2018	1.165	1.035	0.993	1.010	1.010	1.005	1.022	1.018	1.003	1.013	1.011

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.003	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000*	1.082
12/31/2015	1.003	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000*	1.092
12/31/2016	1.003	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000*	1.085
12/31/2017	1.003	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000*	1.123
12/31/2018	1.003	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000*	1.308

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:											
A.Y.E	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	2,236,078	2,923,050	5,002,466	7,456,789	9,063,390	11,342,974	12,648,405	13,995,192	15,199,380	16,979,200	17,433,747
12/31/2000	2,436,637	3,528,799	5,887,588	9,635,930	12,277,809	15,448,008	17,907,448	18,816,792	19,420,901	20,234,853	20,673,129
12/31/2001	1,941,404	3,379,635	5,693,716	9,187,551	12,702,114	14,637,546	17,286,451	18,744,195	20,071,255	19,258,821	19,463,337
12/31/2002	1,064,656	3,023,275	6,096,449	8,057,161	9,942,851	11,153,024	11,808,507	13,816,822	13,078,246	13,482,527	14,034,064
12/31/2003	1,528,827	3,689,806	6,304,344	10,109,555	12,021,349	14,071,820	15,859,131	16,951,382	18,200,161	19,218,252	20,028,300
12/31/2004	1,756,954	2,793,625	5,286,754	7,556,249	9,670,461	11,707,085	13,047,669	14,065,505	15,260,903	16,304,671	16,988,803
12/31/2005	2,176,549	4,351,877	7,329,555	7,568,888	8,775,932	10,020,141	12,244,290	13,848,025	14,909,714	16,108,119	17,226,397
12/31/2006	1,556,752	3,554,437	6,620,332	9,355,081	11,255,688	13,355,834	14,448,432	16,644,186	19,751,203	20,344,735	21,134,637
12/31/2007	2,030,682	4,017,040	6,213,935	9,584,306	12,329,454	14,520,131	15,944,561	18,235,074	19,395,303	21,231,632	22,413,217
12/31/2008	2,094,777	5,066,963	9,023,775	12,679,518	15,853,993	18,335,323	19,622,588	20,758,294	21,468,964	22,265,558	22,571,546
12/31/2009	4,238,228	9,628,945	15,931,037	19,259,344	22,356,925	26,195,992	27,176,020	28,728,269	30,268,075	30,911,811	
12/31/2010	2,505,220	5,648,138	10,757,893	16,167,461	19,612,371	21,591,240	23,181,074	23,632,040	24,189,652		
12/31/2011	2,602,259	4,895,333	8,641,190	12,238,844	14,673,854	16,677,960	17,978,116	19,202,947			
12/31/2012	3,069,155	7,407,903	12,016,307	18,543,749	20,685,455	23,204,185	27,260,998				
12/31/2013	3,113,482	6,443,148	9,665,648	13,183,320	15,612,260	17,474,776					
12/31/2014	3,327,355	5,911,994	9,096,123	11,776,669	13,718,661						
12/31/2015	2,504,083	5,298,861	8,694,128	11,209,287							
12/31/2016	4,170,281	10,085,461	16,375,713								
12/31/2017	2,616,762	4,840,021									
12/31/2018	2,407,376										

A.Y.E	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	18,031,174	17,603,932	17,739,167	17,675,290	17,789,698	17,715,960	17,729,959	17,742,390	17,794,898
12/31/2000	21,187,968	21,540,017	21,700,857	21,640,476	21,897,494	21,894,579	21,872,286	21,874,588	
12/31/2001	19,947,949	20,409,721	20,953,766	21,009,985	21,005,430	21,056,134	21,059,325		
12/31/2002	14,409,665	14,715,566	14,932,696	15,046,206	15,079,675	15,079,395			
12/31/2003	21,303,483	21,503,618	22,164,360	22,218,546	22,124,598				
12/31/2004	17,902,751	18,156,938	18,201,241	18,339,306					
12/31/2005	18,067,854	19,130,261	19,500,421						
12/31/2006	21,236,320	21,436,710							
12/31/2007	23,130,390								

PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

	Increments												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	686,972	2,079,416	2,454,323	1,606,601	2,279,584	1,305,431	1,346,787	1,204,188	1,779,820	454,547	597,427	-427,242	135,235
12/31/2000	1,092,162	2,358,789	3,748,342	2,641,879	3,170,199	2,459,440	909,344	604,109	813,952	438,276	514,839	352,049	160,840
12/31/2001	1,438,231	2,314,081	3,493,835	3,514,563	1,935,432	2,648,905	1,457,744	1,327,060	-812,434	204,516	484,612	461,772	544,045
12/31/2002	1,958,619	3,073,174	1,960,712	1,885,690	1,210,173	655,483	2,008,315	-738,576	404,281	551,537	375,601	305,901	217,130
12/31/2003	2,160,979	2,614,538	3,805,211	1,911,794	2,050,471	1,787,311	1,092,251	1,248,779	1,018,091	810,048	1,275,183	200,135	660,742
12/31/2004	1,036,671	2,493,129	2,269,495	2,114,212	2,036,624	1,340,584	1,017,836	1,195,398	1,043,768	684,132	913,948	254,187	44,303
12/31/2005	2,175,328	2,977,678	239,333	1,207,044	1,244,209	2,224,149	1,603,735	1,061,689	1,198,405	1,118,278	841,457	1,062,407	370,160
12/31/2006	1,997,685	3,065,895	2,734,749	1,900,607	2,100,146	1,092,598	2,195,754	3,107,017	593,532	789,902	101,683	200,390	
12/31/2007	1,986,358	2,196,895	3,370,371	2,745,148	2,190,677	1,424,430	2,290,513	1,160,229	1,836,329	1,181,585	717,173		
12/31/2008	2,972,186	3,956,812	3,655,743	3,174,475	2,481,330	1,287,265	1,135,706	710,670	796,594	305,988			
12/31/2009	5,390,717	6,302,092	3,328,307	3,097,581	3,839,067	980,028	1,552,249	1,539,806	643,736				
12/31/2010	3,142,918	5,109,755	5,409,568	3,444,910	1,978,869	1,589,834	450,966	557,612					
12/31/2011	2,293,074	3,745,857	3,597,654	2,435,010	2,004,106	1,300,156	1,224,831						
12/31/2012	4,338,748	4,608,404	6,527,442	2,141,706	2,518,730	4,056,813							
12/31/2013	3,329,666	3,222,500	3,517,672	2,428,940	1,862,516								
12/31/2014	2,584,639	3,184,129	2,680,546	1,941,992									
12/31/2015	2,794,778	3,395,267	2,515,159										
12/31/2016	5,915,180	6,290,252											
12/31/2017	2,223,259												

	Incremental Percentages												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	0.0268	0.0811	0.0958	0.0627	0.0889	0.0509	0.0526	0.0470	0.0694	0.0177	0.0233	-0.0167	0.0053
12/31/2000	0.0386	0.0834	0.1325	0.0934	0.1120	0.0869	0.0321	0.0213	0.0288	0.0155	0.0182	0.0124	0.0057
12/31/2001	0.0460	0.0741	0.1118	0.1125	0.0619	0.0848	0.0466	0.0425	-0.0260	0.0065	0.0155	0.0148	0.0174
12/31/2002	0.0711	0.1115	0.0711	0.0684	0.0439	0.0238	0.0729	-0.0268	0.0147	0.0200	0.0136	0.0111	0.0079
12/31/2003	0.0763	0.0923	0.1343	0.0675	0.0724	0.0631	0.0385	0.0441	0.0359	0.0286	0.0450	0.0071	0.0233
12/31/2004	0.0489	0.1177	0.1071	0.0998	0.0962	0.0633	0.0481	0.0564	0.0493	0.0323	0.0431	0.0120	0.0021
12/31/2005	0.0928	0.1270	0.0102	0.0515	0.0531	0.0949	0.0684	0.0453	0.0511	0.0477	0.0359	0.0453	0.0158
12/31/2006	0.0683	0.1048	0.0934	0.0649	0.0718	0.0373	0.0750	0.1062	0.0203	0.0270	0.0035	0.0068	
12/31/2007	0.0565	0.0625	0.0959	0.0781	0.0623	0.0405	0.0652	0.0330	0.0523	0.0336	0.0204		
12/31/2008	0.0766	0.1020	0.0943	0.0818	0.0640	0.0332	0.0293	0.0183	0.0205	0.0079			
12/31/2009	0.1301	0.1521	0.0803	0.0748	0.0926	0.0237	0.0375	0.0372	0.0155				
12/31/2010	0.0828	0.1346	0.1425	0.0908	0.0521	0.0419	0.0119	0.0147					
12/31/2011	0.0661	0.1080	0.1038	0.0702	0.0578	0.0375	0.0353						
12/31/2012	0.1106	0.1175	0.1664	0.0546	0.0642	0.1034							
12/31/2013	0.0907	0.0878	0.0958	0.0662	0.0507								
12/31/2014	0.0700	0.0863	0.0726	0.0526									
12/31/2015	0.0882	0.1072	0.0794										
12/31/2016	0.1364	0.1451											
12/31/2017	0.0525												

Best 3/5	0.0830	0.1042	0.0930	0.0637	0.0581	0.0375	0.0340	0.0295	0.0306	0.0310	0.0332	0.0101	0.0137
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PRODUCTS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	Link Ratios <u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>Ult:243</u>
12/31/1999	0.996	1.006	0.996	1.001	1.001	1.003	1.000 *
12/31/2000	0.997	1.012	1.000	0.999	1.000	1.000 *	1.000 *
12/31/2001	1.003	1.000	1.002	1.000	1.000 *	1.000 *	1.000 *
12/31/2002	1.008	1.002	1.000	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2003	1.002	0.996	1.002 *	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2004	1.008						
Best 3/5	1.004	1.003	1.001 *	1.000 *	1.000 *	1.000 *	1.000 *

171 to Ultimate Factor: 1.008

	Cumulative Incremental Factors						
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.621	0.538	0.434	0.341	0.278	0.220	0.182
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.148	0.119	0.088	0.057	0.024	0.014	0.000

<u>A.Y.E</u>	Reported ALAE <u>as of 3/31/19</u>	\$500,000 <u>Ultimate Indemnity</u>	ALAE <u>Factor</u>	Additional <u>ALAE</u>	ALAE at <u>171 Months</u>	171-Ultimate <u>Factor</u>	Ultimate <u>ALAE</u>
12/31/2016	10,235,451	41,188,959	0.434	17,876,013	28,111,464	1.008	28,336,036
12/31/2017	5,241,533	40,156,636	0.538	21,604,285	26,845,818	1.008	27,060,311
12/31/2018	2,197,136	31,434,283	0.621	19,520,697	21,717,833	1.008	21,891,329

\* Calculated Using Modified Bondy Method

Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2014 - 2018

<u>Item *</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2014 - 2018 Mean</u>
1. Direct Losses Incurred	\$20,338,262	\$25,301,890	\$26,175,083	\$23,084,643	\$26,920,048	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,287,378	\$6,141,101	\$5,079,567	\$6,058,484	\$5,902,031	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,425,208	\$2,534,792	\$2,658,432	\$2,367,750	\$2,313,863	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,625,640	\$31,442,991	\$31,254,650	\$29,143,127	\$32,822,079	
		<u>Incurred Percentage</u>				
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.5%	8.1%	8.5%	8.1%	7.0%	8.2%
6. Selected	8.5%					

Notes: All dollar amounts are displayed in thousands.

\* Items (1) - (4) are from the special call submissions for available writers.

## PRODUCTS TREND SUMMARY

(1)	<u>EXPOSURE TREND</u>	<u>PRODUCTS</u>	
	Average Annual Percent Change		
	a) 7/1/2016 to 7/1/2021 AYE 12/31/2016	+ 1.3%	
	b) 7/1/2017 to 7/1/2021 AYE 12/31/2017	+ 1.4%	
	c) 7/1/2018 to 7/1/2021 AYE 12/31/2018	+ 1.3%	
(2)	<u>OCCURRENCE SEVERITY</u>	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>
	a) Fitted		
	All Years	+ 4.6%	+ 4.4%
	Eight Years	+ 3.7%	+ 4.8%
	Six Years	+ 3.0%	+ 5.1%
	b) Selected	+ 3.0%	+ 6.0%
(3)	<u>FREQUENCY TREND</u>		
	Selected	- 1.5%	

NOTE: The BI deductible trend is equal to the bodily injury trend. The PD deductible trend is equal to the property damage trend.

PRODUCTS  
AVERAGE ANNUAL EXPOSURE TRENDS  
FOR ACCIDENT YEARS ENDING 12/31/2016, 12/31/2017 & 12/31/2018

(1)			(2)		
YEAR ENDING			PRODUCTS		
<u>QUARTER*</u>			CLASS GROUP		
			SALES EXPOSURE		
			<u>INDICES</u>		
2008	1		0.962		
	2		0.958		
	3		0.956		
	4		0.957		
2009	1		0.961		
	2		0.966		
	3		0.969		
	4		0.968		
2010	1		0.964		
	2		0.962		
	3		0.962		
	4		0.965		
2011	1		0.968		
	2		0.973		
	3		0.978		
	4		0.982		
2012	1		0.986		
	2		0.990		
	3		0.995		
	4		1.000		
2013	1		1.004		
	2		1.006		
	3		1.008		
	4		1.010		
2014	1		1.012		
	2		1.016		
	3		1.019		
	4		1.022		
2015	1		1.024		
	2		1.026		
	3		1.028		
	4		1.030		
2016	1		1.030		
	2		1.031		
	3		1.030		
	4		1.030		
2017	1		1.033		
	2		1.034		
	3		1.037		
	4		1.040		
2018	1		1.043		
	2		1.048		
	3		1.052		
	4		1.056		
2019	1		1.059		
	2		1.062		
	3P		1.064		
	4P		1.067		
2020	1P		1.071		
	2P		1.074		
	3P		1.076		
	4P		1.079		
2021	1P		1.082		
	2P		1.087		
	3P		1.093		
	4P		1.099		

CHANGE IN EXPOSURES		PRODUCTS
7/1/2016 to 7/1/2021	(2021:4/2016:4)	1.067
7/1/2017 to 7/1/2021	(2021:4/2017:4)	1.057
7/1/2018 to 7/1/2021	(2021:4/2018:4)	1.041
AVERAGE ANNUAL TREND FACTOR		
7/1/2016 to 7/1/2021	( 5.0 YRS )	1.013
7/1/2017 to 7/1/2021	( 4.0 YRS )	1.014
7/1/2018 to 7/1/2021	( 3.0 YRS )	1.013

\* Projected values are identified by a 'P' in column (1).

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OCCURRENCE SEVERITY TREND  
MULTISTATE  
PRODUCTS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Bodily Injury

(1) Accident Year <u>Ending</u>	(2) Basic Limit Paid <u>Losses *</u>	(3) Paid <u>Occurrences</u>	(4) (2)/(3) Actual <u>Severity</u>	(5) Exponential Curve of <u>Best Fit to Col (4)</u>		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$28,565,779	1,159	\$24,647	\$26,075		
12/31/2010	29,467,318	1,090	27,034	27,269		
12/31/2011	25,948,972	992	26,158	28,517	\$29,597	
12/31/2012	31,873,679	918	34,721	29,822	30,696	
12/31/2013	22,372,670	757	29,554	31,187	31,836	\$32,409
12/31/2014	21,688,425	603	35,968	32,615	33,018	33,374
12/31/2015	20,197,679	565	35,748	34,108	34,244	34,368
12/31/2016	19,211,222	540	35,576	35,669	35,515	35,391
12/31/2017	18,912,072	502	37,673	37,302	36,834	36,445
12/31/2018	13,390,360	379	35,331	39,010	38,202	37,530
Goodness of Fit Statistic, R-Squared:				0.739	0.519	0.424
Average Annual Severity Trend (10 yr)				+ 4.6%		
Average Annual Severity Trend ( 8 yr)				+ 3.7%		
Average Annual Severity Trend ( 6 yr)				+ 3.0%		
Selected Annual Severity Trend				+ 3.0%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors.

(See Section B - Explanation of Trend Calculation).

OCCURRENCE SEVERITY TREND  
MULTISTATE  
PRODUCTS  
Calculation of Annual Trend Factor  
Based on Average Occurrence Severity  
Full Coverage Occurrence Data  
Monoline and Multiline Combined  
Property Damage

(1) Accident Year Ending	(2) Basic Limit Paid Losses *	(3) Paid Occurrences	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				<u>10 Year</u>	<u>8 Year</u>	<u>6 Year</u>
12/31/2009	\$57,034,846	1,411	\$40,422	\$35,339		
12/31/2010	48,625,042	1,492	32,591	36,881		
12/31/2011	42,230,492	1,247	33,866	38,490	\$37,858	
12/31/2012	53,993,780	1,161	46,506	40,170	39,682	
12/31/2013	43,501,646	1,056	41,195	41,923	41,594	\$40,951
12/31/2014	40,342,493	958	42,111	43,752	43,598	43,057
12/31/2015	37,267,761	882	42,254	45,661	45,699	45,271
12/31/2016	49,417,322	897	55,092	47,654	47,901	47,599
12/31/2017	39,238,271	805	48,743	49,733	50,210	50,047
12/31/2018	37,259,846	733	50,832	51,903	52,629	52,620

Goodness of Fit Statistic, R-Squared:      0.599      0.582      0.607

Average Annual Severity Trend (10 yr)      + 4.4%

Average Annual Severity Trend ( 8 yr)      + 4.8%

Average Annual Severity Trend ( 6 yr)      + 5.1%

Selected Annual Severity Trend      + 6.0%

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors.

(See Section B - Explanation of Trend Calculation).

PRODUCTS

FREQUENCY TREND  
MULTISTATE

Manual Classes (Full and Deductible Coverage)  
Monoline and Multiline Combined  
CGL Policies Only

Bodily Injury and Property Damage Combined

(1) Accident Year <u>Ending</u>	(2) Aggregate Loss Costs at <u>Current Level</u>	(3) Occurrences at <u>Ultimate</u> <sup>1</sup>	(4) Occurrence Frequency <u>(3)/(2)</u> <sup>2</sup>
12/31/2005	\$ 83,491,885	2,649	31.73
12/31/2006	82,060,342	2,702	32.93
12/31/2007	83,804,483	2,993	35.71
12/31/2008	89,261,632	2,887	32.34
12/31/2009	98,079,867	3,299	33.63
12/31/2010	103,715,205	3,361	32.41
12/31/2011	105,990,684	3,048	28.75
12/31/2012	107,859,086	2,884	26.74
12/31/2013	107,304,542	2,793	26.03
12/31/2014	107,809,725	2,473	22.94
12/31/2015	111,727,306	2,224	19.91
12/31/2016	113,953,385	2,095	18.38
12/31/2017	118,247,160	2,010	17.00
12/31/2018	119,863,952	1,951	16.28

Selected Annual Frequency Trend: - 1.5%

<sup>1</sup> Occurrences are based on reported paid amounts developed to ultimate using paid development factors.

<sup>2</sup> Frequency is per \$1,000,000 Aggregate Loss Costs at Current Level.

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes

The following are definitions of the columns for the Products calculation of proposed loss costs shown on pages F-31-40.

Column (1) is the latest year multistate Monoline/Multiline Aggregate Loss Costs at Current Level (ALCCL) for the respective class.

Column (2) is the five year multistate Monoline/Multiline Aggregate Loss Costs at Current Level.

Column (3) is the five year Monoline/Multiline Experience Ratio. Losses are developed and trended, and ALCCL has been exposure trended. IPMFs and Deductible Discounts have been applied to ALCCL.

Column (4) is the credibility ( $Z_i$ ) of the individual class with respect to the class group. This is calculated based on the equation:

$$Z_i = \frac{K-3}{K} \left( \frac{\bar{P}_i}{\bar{P}_i + \frac{\Sigma^2}{T^2}} \right) + \frac{3}{K}$$

$K$  = The number of classes within the class group.

$\bar{P}_i$  = The 5 year total Mono / Multi ALCCL for class  $i$ .

$\Sigma^2$  = The average within class variance for the class group. (Sigma Squared)

$T^2$  = The between class variance for the class group. (Tau Squared)

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes (Cont'd)

Column (5) is the Formula Experience Ratio. This is found by credibility weighting the class experience ratio with the class group experience ratio and is based on the equation:

$$FER_i = Z_i \bar{X}_i + (1 - Z_i) \bar{X} \quad \text{where:}$$

$\bar{X}_i$  = The 5 year average experience ratio for class  $i$  from column (3).

$$\bar{X} = \frac{\sum_{i=1}^K Z_i \bar{X}_i}{\sum_{i=1}^K Z_i}$$

Column (6) is the Index or the class relative change factor, which is the quotient of the Formula Experience Ratio ( $FER_i$ ) and  $\tilde{X}_{\text{monoline}}$  which is the column (5) total using column (1) as weights.

Note:  $\tilde{X}$  (X - tilde) is the 5 year Mono / Multi ALCCL weighted class group experience ratio, where

$\tilde{X}_{\text{monoline}}$  (X - tilde monoline) is weighted based on monoline/multiline ALCCL for the latest year only.

Column (7) is the change factor, which is to be applied to the present loss cost. The formula for this is given as:

Change Factor = (Index) (Class Group Relative Change) (SWRL) (Off balance factor)  
where "SWRL" is the selected multistate monoline loss cost level change.  
The off balance factor of 1.001 results from capping.

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes (Cont'd)

Column (8) is the current multistate occurrence loss cost for each class.

Column (9) is the proposed multistate occurrence loss cost based on the product of column (7) and column (8), with the effects of capping and CGL rounding.

Column (10) is the percent change of the proposed state occurrence loss cost (column (12)) for each class with respect to the current state occurrence loss cost (column (11)).

Column (11) is the current state occurrence loss cost for each class.

Column (12) is the proposed state occurrence loss cost for each class. These are equal to the multistate proposed loss costs.

LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 03

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .942 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
10140	306156	1111065	.92536	.1644	.944	1.047	.986	.021	.021	0.0	.021	.021
10141	470932	2159212	.84188	.2422	.922	1.022	.963	.024	.023	-4.2	.024	.023
12361	1881752	9659480	.86356	.5451	.902	1.000	.942	.082	.077	-6.1	.082	.077
12373	92941	687773	.73278	.1283	.920	1.020	.961	.025	.024	-4.0	.025	.024
13049	218217	1040155	1.30149	.1586	1.004	1.113	1.048	.054	.057	5.6	.054	.057
13111	36150	190726	.59825	.0817	.919	1.019	.960	.097	.093	-4.1	.097	.093
13112	1620094	7762805	.78649	.4939	.868	.962	.906	.069	.063	-8.7	.069	.063
13621	131893	1262520	.42455	.1767	.855	.948	.893	.360	.320	-11.1	.360	.320
13670	229038	1289863	1.99222	.1788	1.134	1.257	1.184	.013	.015	15.4	.013	.015
15223	921185	4548275	1.68246	.3748	1.223	1.356	1.277	.033	.041	24.2	.033	.041
15406	308594	1293542	1.46372	.1791	1.040	1.153	1.086	.044	.048	9.1	.044	.048
16604	614655	2968068	.95741	.2930	.950	1.053	.992	.147	.146	-0.7	.147	.146
51300	6740	35928	.00000	.0662	.885	.981	.924	.173	.160	-7.5	.173	.160
51305	488	43041	.13287	.0669	.893	.990	.933	1.030	.960	-6.8	1.030	.960
51315	789468	3808612	.96281	.3390	.953	1.057	.996	.106	.106	0.0	.106	.106
51350	185978	920336	.67701	.1486	.907	1.006	.948	.142	.135	-4.9	.142	.135
51351	24365	90838	.30397	.0718	.901	.999	.941	.045	.042	-6.7	.045	.042
51352	116409	474969	.57460	.1090	.907	1.006	.948	.114	.108	-5.3	.114	.108
51355	155037	833906	.90492	.1412	.942	1.044	.983	.096	.094	-2.1	.096	.094
51356	87707	290815	.03097	.0915	.864	.958	.902	.690	.620	-10.1	.690	.620
51357	3485	15681	6.66864	.0641	1.314	1.457	1.372	.530	.660	24.5	.530	.660
51358	19910	71592	.37420	.0698	.908	1.007	.949	.149	.141	-5.4	.149	.141
51359	95596	283695	.29166	.0908	.888	.984	.927	.840	.780	-7.1	.840	.780
51752	613978	3011314	1.09820	.2955	.992	1.100	1.036	.159	.165	3.8	.159	.165
52002	1298303	6645564	1.16569	.4580	1.047	1.161	1.094	.118	.129	9.3	.118	.129
53001	977109	5445556	.94025	.4133	.945	1.048	.987	.330	.330	0.0	.330	.330
53374	5883044	26908599	.73819	.7630	.788	.874	.823	.380	.310	-18.4	.380	.310
53375	1778485	9051461	.77300	.5298	.855	.948	.893	.250	.223	-10.8	.250	.223
53376	416486	1951271	1.14739	.2279	.993	1.101	1.037	.187	.194	3.7	.187	.194
53377	2130376	10248713	.83187	.5589	.883	.979	.922	.211	.195	-7.6	.211	.195
53565	211770	832438	.11386	.1410	.830	.920	.867	.124	.108	-12.9	.124	.108
55371	14588	83605	.00000	.0710	.880	.976	.919	.130	.119	-8.5	.130	.119
56488	65138	215555	.96785	.0842	.949	1.052	.991	.034	.034	0.0	.034	.034
56758	112975	458859	.63105	.1075	.913	1.012	.953	.155	.148	-4.5	.155	.148
56759	848416	3480501	.57039	.3217	.826	.916	.863	.093	.080	-14.0	.093	.080
56760	1530880	7124840	.81444	.4740	.884	.980	.923	.106	.098	-7.5	.106	.098
57002	193613	840602	.78317	.1417	.924	1.024	.965	.110	.106	-3.6	.110	.106

X-TILDE: .898 X-TILDE (MONOLINE): .902 PI-TILDE: .0038385  
TAU SQUARED: .03000 SIGMA SQUARED: 273180.77234

L - CAPPED DOWN  
U - CAPPED UP  
N - NOT SUBJECT TO CAPPING  
E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 03

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .942 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
57651	140753	728840	.74736	.1320	.921	1.021	.962	.043	.041	-4.7	.043	.041
57913	594422	2567286	.72143	.2687	.887	.983	.926	.310	.290	-6.5	.310	.290
59537	210333	862698	2.95502	.1436	1.236	1.370	1.291	.168	.210	25.0	.168	.210 U
59647	45216	224265	.70249	.0850	.927	1.028	.968	.176	.170	-3.4	.176	.170
59904	6549	37542	.00000	.0663	.885	.981	.924	.066	.061	-7.6	.066	.061
59905	137598	570781	1.17306	.1178	.974	1.080	1.017	.130	.132	1.5	.130	.132
59925	1250	5251	2.51362	.0630	1.046	1.160	1.093	1.090	1.190	9.2	1.090	1.190
59926	260506	1148304	1.35239	.1675	1.015	1.125	1.060	.420	.450	7.1	.420	.450
59927	168553	429683	.22217	.1047	.872	.967	.911	1.560	1.420	-9.0	1.560	1.420
59963	50513	155335	.05700	.0782	.878	.973	.917	.450	.410	-8.9	.450	.410
59964	169588	850337	1.93491	.1426	1.088	1.206	1.136	.061	.069	13.1	.061	.069

X-TILDE: .898 X-TILDE (MONOLINE): .902 PI-TILDE: .0038385  
 TAU SQUARED: .03000 SIGMA SQUARED: 273180.77234

L - CAPPED DOWN  
 U - CAPPED UP  
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LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 04

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.044 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
10010	129803	644093	1.23203	.1273	1.094	1.013	1.058	.184	.195	6.0	.184	.195
10040	742489	4043356	1.18404	.3224	1.109	1.027	1.072	.280	.300	7.1	.280	.300
10070	1611598	8963972	1.19639	.4880	1.133	1.049	1.095	.141	.154	9.2	.141	.154
10101	329349	1687342	1.34162	.1981	1.127	1.044	1.090	.166	.181	9.0	.166	.181
10111	184837	842580	.38108	.1417	.975	.903	.943	.083	.078	-6.0	.083	.078
10255	2341872	10785181	1.23909	.5305	1.161	1.075	1.122	.131	.147	12.2	.131	.147
10256	11008	55413	.99045	.0815	1.067	.988	1.031	.147	.152	3.4	.147	.152
10257	3033512	12895158	1.02241	.5717	1.044	.967	1.010	.167	.169	1.2	.167	.169
11126	144902	715703	1.42449	.1325	1.120	1.037	1.083	.020	.022	10.0	.020	.022
11203	8874	36762	.00000	.0800	.988	.915	.955	.540	.520	-3.7	.540	.520
11248	9911	50307	.00000	.0811	.986	.913	.953	.019	.018	-5.3	.019	.018
12391	1597669	7534975	.74912	.4489	.928	.859	.897	.091	.082	-9.9	.091	.082
12509	43795	209831	.04034	.0940	.976	.904	.944	.038	.036	-5.3	.038	.036
12651	579219	2767112	1.25361	.2603	1.120	1.037	1.083	.490	.530	8.2	.490	.530
12707	294500	1017929	.70205	.1541	1.016	.941	.982	.650	.640	-1.5	.650	.640
12797	1016214	4684545	1.43674	.3498	1.201	1.112	1.161	.169	.196	16.0	.169	.196
13201	32046	103961	.12846	.0854	.993	.919	.959	.167	.160	-4.2	.167	.160
13204	1134469	6535576	1.06460	.4178	1.070	.991	1.035	1.400	1.450	3.6	1.400	1.450
13205	305694	1463843	1.19784	.1839	1.096	1.015	1.060	.430	.460	7.0	.430	.460
13314	119	482	.00000	.0770	.991	.918	.958	.017	.016	-5.9	.017	.016
13410	2862718	14790089	1.39678	.6030	1.268	1.174	1.226	2.440	2.990	22.5	2.440	2.990
13412	586455	3501588	1.38543	.2973	1.166	1.080	1.128	1.010	1.140	12.9	1.010	1.140
13590	3911061	17277202	1.00651	.6377	1.031	.955	.997	.740	.740	0.0	.740	.740
13715	1711513	8536428	1.15083	.4769	1.110	1.028	1.073	.154	.165	7.1	.154	.165
13930	1120922	4936834	.82400	.3600	.984	.911	.951	.211	.201	-4.7	.211	.201
14068	6739	39460	.00000	.0802	.987	.914	.954	.015	.014	-6.7	.015	.014
14527	342227	1644340	1.10932	.1954	1.080	1.000	1.044	.181	.189	4.4	.181	.189
14855	15400	120453	.05639	.0868	.985	.912	.952	.162	.154	-4.9	.162	.154
16005	356543	1752474	.95351	.2022	1.049	.971	1.014	.034	.034	0.0	.034	.034
16009	33022	156321	2.86933	.0897	1.235	1.144	1.194	.079	.094	19.0	.079	.094
16527	4913152	22173136	.98667	.6909	1.013	.938	.979	.360	.350	-2.8	.360	.350
16705	234200	875965	.59749	.1441	1.005	.931	.972	.152	.148	-2.6	.152	.148
16750	436085	1821197	1.00629	.2064	1.060	.981	1.024	.031	.032	3.2	.031	.032
18205	409843	2023613	1.50814	.2186	1.168	1.081	1.129	.310	.350	12.9	.310	.350
18616	2640988	11002187	1.18986	.5351	1.136	1.052	1.098	.540	.590	9.3	.540	.590
18707	11908	56794	4.84250	.0816	1.381	1.279	1.335	.003	.004	33.3	.003	.004
45771	152655	638426	.19541	.1269	.962	.891	.930	.176	.164	-6.8	.176	.164

X-TILDE: 1.094 X-TILDE (MONOLINE): 1.080 PI-TILDE: .0048100  
 TAU SQUARED: .03000 SIGMA SQUARED: 334909.49915

L - CAPPED DOWN  
 U - CAPPED UP  
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LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 04

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.044 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
45901	321294	1748523	1.14006	.2019	1.087	1.006	1.050	.047	.049	4.3	.047	.049
53907	1630456	6831241	.80957	.4273	.961	.890	.929	.111	.103	-7.2	.111	.103

X-TILDE: 1.094 X-TILDE (MONOLINE): 1.080 PI-TILDE: .0048100

TAU SQUARED: .03000 SIGMA SQUARED: 334909.49915

L - CAPPED DOWN

U - CAPPED UP

N - NOT SUBJECT TO CAPPING

E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 05

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.013 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
51380	2201	7084	.36674	.1510	.937	.877	.888	.050	.044	-12.0	.050	.044
51575	175662	989822	1.15409	.2687	1.069	1.001	1.014	.020	.020	0.0	.020	.020
51576	186213	755247	2.54079	.2437	1.404	1.315	1.332	.075	.093	24.0	.075	.093 U
51613	68459	403672	1.15534	.2028	1.062	.994	1.007	.138	.139	0.7	.138	.139
51666	43426	223395	1.03486	.1800	1.037	.971	.984	.103	.101	-1.9	.103	.101
51767	1146	6452	.00000	.1509	.881	.825	.836	.009	.008	-11.1	.009	.008
51833	2645	7923	.00000	.1511	.881	.825	.836	.072	.060	-16.7	.072	.060
51869	135945	579644	.97474	.2238	1.024	.959	.971	.140	.136	-2.9	.140	.136
51889	878	4569	.00000	.1506	.882	.826	.837	.014	.012	-14.3	.014	.012
51941	1593933	7800887	1.15004	.6271	1.108	1.037	1.050	.039	.041	5.1	.039	.041
52469	2669525	11999188	.99444	.7136	1.007	.943	.955	.109	.104	-4.6	.109	.104
55647	357888	1666778	1.42499	.3325	1.167	1.093	1.107	.056	.062	10.7	.056	.062
55802	21960	104274	1.32333	.1643	1.085	1.016	1.029	.009	.009	0.0	.009	.009
56040	655	3397	.00000	.1505	.882	.826	.837	.040	.033	-17.5	.040	.033
57257	30650	123442	.94573	.1669	1.023	.958	.970	.036	.035	-2.8	.036	.035
57410	22477	110804	2.86057	.1652	1.339	1.254	1.270	.130	.162	24.6	.130	.162 U
58503	28809	106947	2.80489	.1647	1.329	1.244	1.260	.061	.076	24.6	.061	.076 U
58627	1837	10682	.00000	.1515	.881	.825	.836	.016	.013	-18.8	.016	.013
59257	179	2034	.00000	.1503	.882	.826	.837	.015	.013	-13.3	.015	.013
59923	393	12881	.00000	.1518	.880	.824	.835	.005	.004	-20.0	.005	.004

X-TILDE: 1.144 X-TILDE (MONOLINE): 1.068 PI-TILDE: .0066889  
TAU SQUARED: .03000 SIGMA SQUARED: 182943.56666

L - CAPPED DOWN  
U - CAPPED UP  
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## LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 06

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .996 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
15733	6663	40088	.03911	.0324	1.010	.985	.981	.038	.037	-2.6	.038	.037
51001	4483	6936	.00000	.0272	1.014	.989	.985	.460	.450	-2.2	.460	.450
51116	631631	2987528	1.61692	.3449	1.240	1.210	1.205	.570	.690	21.1	.570	.690
51240	60289	252885	1.11128	.0646	1.047	1.021	1.017	.182	.185	1.6	.182	.185
51241	398561	1890233	.49436	.2554	.902	.880	.876	.300	.260	-13.3	.300	.260
51330	159165	745756	5.70138	.1316	1.655	1.615	1.609	.430	.530	23.3	.430	.530
51370	188610	485122	.00000	.0974	.941	.918	.914	5.000	4.570	-8.6	5.000	4.570
51500	322150	1583578	1.42369	.2258	1.128	1.100	1.096	.109	.119	9.2	.109	.119
51550	14084	60235	3.33844	.0356	1.124	1.097	1.093	.360	.390	8.3	.360	.390
51551	2445	47958	.29987	.0336	1.017	.992	.988	.920	.910	-1.1	.920	.910
51552	2585	21460	.53015	.0295	1.027	1.002	.998	.159	.159	0.0	.159	.159
51600	136764	648012	.60877	.1191	.991	.967	.963	.198	.191	-3.5	.198	.191
51734	25104	53542	.94167	.0345	1.039	1.014	1.010	.310	.310	0.0	.310	.310
51741	128078	670814	1.33913	.1220	1.078	1.052	1.048	.250	.260	4.0	.250	.260
51777	130678	641491	1.10594	.1182	1.050	1.024	1.020	.076	.078	2.6	.076	.078
51808	140245	710467	.90283	.1271	1.025	1.000	.996	.730	.730	0.0	.730	.730
51809	52120	115157	.00000	.0440	.996	.972	.968	.158	.153	-3.2	.158	.153
51877	98271	383929	.44984	.0834	.993	.969	.965	.220	.212	-3.6	.220	.212
51896	688935	3441683	.74265	.3760	.930	.907	.903	.020	.018	-10.0	.020	.018
51900	12030	56422	1.19533	.0350	1.048	1.022	1.018	.093	.095	2.2	.093	.095
51909	0	759	.00000	.0262	1.015	.990	.986	.057	.056	-1.8	.057	.056
51926	242825	1237425	.70721	.1895	.979	.955	.951	.040	.038	-5.0	.040	.038
51927	331655	1741014	1.57827	.2413	1.172	1.143	1.138	.115	.131	13.9	.115	.131
51934	169043	764549	.01838	.1340	.905	.883	.879	.142	.125	-12.0	.142	.125
51956	1633547	7764567	.83444	.5700	.924	.901	.897	.246	.221	-10.2	.246	.221
51957	1197338	6083901	1.13548	.5109	1.090	1.063	1.059	.400	.420	5.0	.400	.420
51960	4183	33896	.00000	.0314	1.010	.985	.981	.360	.350	-2.8	.360	.350
51982	8268	56927	.00000	.0350	1.006	.981	.977	.085	.083	-2.4	.085	.083
51986	38465	249898	.20058	.0642	.988	.964	.960	.107	.103	-3.7	.107	.103
51999	135849	722703	.66516	.1287	.994	.970	.966	.460	.440	-4.3	.460	.440
52075	47273	225850	.33691	.0607	.999	.975	.971	.250	.243	-2.8	.250	.243
52134	2335007	11333471	.85571	.6579	.920	.898	.894	.700	.630	-10.0	.700	.630
52315	434286	2071142	1.38224	.2718	1.135	1.107	1.103	.240	.260	8.3	.240	.260
52505	55795	240014	1.88247	.0627	1.095	1.068	1.064	.203	.216	6.4	.203	.216
52547	233537	1205580	.32449	.1860	.909	.887	.883	.088	.078	-11.4	.088	.078
52911	958327	4559605	.68681	.4412	.885	.863	.860	.520	.450	-13.5	.520	.450
52967	29487	130562	.06542	.0464	.997	.973	.969	.064	.062	-3.1	.064	.062

X-TILDE: 1.026 X-TILDE (MONOLINE): 1.025 PI-TILDE: .0016697  
 TAU SQUARED: .05482 SIGMA SQUARED: 336466.91420

L - CAPPED DOWN

U - CAPPED UP

N - NOT SUBJECT TO CAPPING

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## LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 06

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .996 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
53121	87258	248469	.11687	.0640	.983	.959	.955	.460	.440	-4.3	.460	.440
53333	57838	299221	2.59564	.0714	1.153	1.125	1.120	.213	.239	12.2	.213	.239
53631	383	1379	.00000	.0263	1.015	.990	.986	.022	.022	0.0	.022	.022
53632	518	6093	.00000	.0271	1.014	.989	.985	.035	.034	-2.9	.035	.034
53732	1319467	6635174	.99183	.5320	1.015	.990	.986	.460	.450	-2.2	.460	.450
53733	4793737	19427350	1.06817	.7662	1.062	1.036	1.032	.260	.270	3.8	.260	.270
54077	687079	3279799	1.23565	.3653	1.113	1.086	1.082	.370	.400	8.1	.370	.400
55010	82064	435324	.68484	.0906	1.010	.985	.981	1.100	1.080	-1.8	1.100	1.080
55011	298257	1514717	2.68411	.2189	1.402	1.368	1.363	1.260	1.570	24.6	1.260	1.570
55012	71692	215705	1.02138	.0592	1.041	1.016	1.012	1.170	1.180	0.9	1.170	1.180
55013	375449	1518864	1.68836	.2193	1.184	1.155	1.150	.990	1.140	15.2	.990	1.140
55214	1009	5164	.00000	.0269	1.014	.989	.985	.089	.088	-1.1	.089	.088
55715	53324	173618	.00000	.0529	.987	.963	.959	.234	.224	-4.3	.234	.224
55716	27033	149769	.79450	.0493	1.030	1.005	1.001	.520	.520	0.0	.520	.520
56202	110865	1238910	.38459	.1897	.918	.896	.892	.100	.089	-11.0	.100	.089
56390	403356	1046610	1.00915	.1680	1.037	1.012	1.008	.630	.640	1.6	.630	.640
56391	683816	3900760	1.01966	.4045	1.033	1.008	1.004	.320	.320	0.0	.320	.320
56427	14982	79686	.65009	.0386	1.027	1.002	.998	.125	.125	0.0	.125	.125
56690	3673	12222	.00000	.0280	1.013	.988	.984	.360	.350	-2.8	.360	.350
56699	231345	837912	1.75053	.1431	1.144	1.116	1.112	.051	.057	11.8	.051	.057
56916	685470	3047907	1.28192	.3492	1.126	1.099	1.095	.187	.205	9.6	.187	.205
57090	101480	541374	1.36971	.1050	1.077	1.051	1.047	.630	.660	4.8	.630	.660
57401	9168	40307	.00000	.0324	1.008	.983	.979	.098	.096	-2.0	.098	.096
57403	585	3306	.00000	.0266	1.015	.990	.986	.036	.035	-2.8	.036	.035
57572	92065	345100	2.91906	.0779	1.188	1.159	1.154	.094	.108	14.9	.094	.108
57600	49324	206783	1.23641	.0578	1.053	1.027	1.023	.033	.034	3.0	.033	.034
57611	74170	241609	.43741	.0630	1.004	.980	.976	.064	.062	-3.1	.064	.062
57690	271160	1194145	.71597	.1847	.982	.958	.954	.510	.490	-3.9	.510	.490
57716	224806	1223662	.68365	.1880	.975	.951	.947	.087	.082	-5.7	.087	.082
57725	935181	3762730	.92298	.3962	.995	.971	.967	.091	.088	-3.3	.091	.088
57726	59619	263802	2.49240	.0662	1.138	1.110	1.106	.019	.021	10.5	.019	.021
57810	5491	22947	.00000	.0297	1.011	.986	.982	.109	.107	-1.8	.109	.107
57871	89627	261746	1.13335	.0659	1.048	1.022	1.018	.116	.118	1.7	.116	.118
57998	26769	128537	.19009	.0461	1.003	.979	.975	.059	.058	-1.7	.059	.058
57999	5172	30645	.85140	.0309	1.036	1.011	1.007	.071	.071	0.0	.071	.071
58095	1525188	7274265	1.18509	.5543	1.121	1.094	1.090	1.830	1.990	8.7	1.830	1.990
58096	1062759	6138089	1.37607	.5131	1.214	1.184	1.179	1.040	1.230	18.3	1.040	1.230

X-TILDE: 1.026 X-TILDE (MONOLINE): 1.025 PI-TILDE: .0016697  
 TAU SQUARED: .05482 SIGMA SQUARED: 336466.91420

L - CAPPED DOWN

U - CAPPED UP

N - NOT SUBJECT TO CAPPING

E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 06

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .996 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
58301	77103	247755	2.09027	.0639	1.109	1.082	1.078	.082	.088	7.3	.082	.088
58302	44551	232484	.76868	.0616	1.025	1.000	.996	.055	.055	0.0	.055	.055
58397	1440834	5633085	.78100	.4922	.914	.892	.888	.830	.740	-10.8	.830	.740
58575	26172	92765	.00000	.0406	1.000	.976	.972	.123	.120	-2.4	.123	.120
58663	1463116	6273340	.55383	.5184	.789	.770	.767	1.590	1.280	-19.5	1.590	1.280
58802	28363	182262	2.20058	.0542	1.105	1.078	1.074	.450	.480	6.7	.450	.480
58837	7600	41749	.00000	.0327	1.008	.983	.979	.165	.162	-1.8	.165	.162
58840	3886	13420	5.80112	.0282	1.176	1.147	1.142	.111	.127	14.4	.111	.127
58873	237631	1009427	.93769	.1636	1.025	1.000	.996	.030	.030	0.0	.030	.030
58904	11786	57446	.00000	.0351	1.006	.981	.977	.131	.128	-2.3	.131	.128
58922	1192474	5490688	.80316	.4860	.926	.903	.899	.187	.168	-10.2	.187	.168
59005	171273	854165	.91947	.1451	1.024	.999	.995	.096	.096	0.0	.096	.096
59188	321	972	.00000	.0262	1.015	.990	.986	.056	.055	-1.8	.056	.055
59189	4360	15413	.00000	.0285	1.013	.988	.984	.300	.300	0.0	.300	.300
59223	120370	601825	2.27852	.1131	1.182	1.153	1.148	.077	.088	14.3	.077	.088
59378	0	52	.00000	.0261	1.015	.990	.986	.152	.150	-1.3	.152	.150
59481	83569	354019	2.54948	.0792	1.162	1.134	1.129	.088	.099	12.5	.088	.099
59701	3659	53399	6.47937	.0345	1.230	1.200	1.195	.244	.290	18.9	.244	.290
59713	326896	1504045	.76038	.2178	.981	.957	.953	.330	.310	-6.1	.330	.310
59722	58084	277751	.46562	.0683	1.003	.979	.975	.032	.031	-3.1	.032	.031
59723	13603	98150	.00000	.0414	.999	.975	.971	.038	.037	-2.6	.038	.037
59726	96958	688208	1.08508	.1243	1.048	1.022	1.018	.024	.024	0.0	.024	.024
59738	9774	58404	.00000	.0353	1.005	.980	.976	.066	.064	-3.0	.066	.064
59773	1	232	.00000	.0261	1.015	.990	.986	.028	.028	0.0	.028	.028
59774	903	1719	.00000	.0264	1.015	.990	.986	.152	.150	-1.3	.152	.150
59775	0	0	.00000	.0000	.000	.000	.000	.189	.188	-0.5	.189	.188
59798	686293	3182185	1.22730	.3586	1.109	1.082	1.078	.460	.500	8.7	.460	.500
59886	19174	116421	.00000	.0442	.996	.972	.968	.112	.108	-3.6	.112	.108
59889	11249	77718	2.83138	.0383	1.111	1.084	1.080	.153	.165	7.8	.153	.165
59914	754179	3575524	1.25843	.3846	1.125	1.098	1.094	.620	.680	9.7	.620	.680
59915	166847	580536	.60667	.1102	.994	.970	.966	.780	.750	-3.8	.780	.750
59917	65053	345965	4.03154	.0781	1.276	1.245	1.240	.165	.205	24.2	.165	.205
59931	157624	727687	.39466	.1293	.959	.936	.932	.590	.550	-6.8	.590	.550
59932	55156	269839	.00000	.0671	.972	.948	.944	.930	.880	-5.4	.930	.880
59947	14211	100306	.00000	.0417	.999	.975	.971	.330	.320	-3.0	.330	.320
59955	16698	92312	.00000	.0405	1.000	.976	.972	.147	.143	-2.7	.147	.143
59970	19173	100498	.87050	.0418	1.035	1.010	1.006	.182	.183	0.5	.182	.183

X-TILDE: 1.026 X-TILDE (MONOLINE): 1.025 PI-TILDE: .0016697  
 TAU SQUARED: .05482 SIGMA SQUARED: 336466.91420

L - CAPPED DOWN  
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LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 06

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .996 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
59975	688472	3064097	.81139	.3504	.961	.938	.934	.243	.227	-6.6	.243	.227
59984	26363	123926	.00000	.0454	.995	.971	.967	.055	.053	-3.6	.055	.053
59988	606	5353	.00000	.0269	1.014	.989	.985	.060	.059	-1.7	.060	.059
59989	0	7	.00000	.0261	1.015	.990	.986	.045	.044	-2.2	.045	.044

X-TILDE: 1.026 X-TILDE (MONOLINE): 1.025 PI-TILDE: .0016697  
 TAU SQUARED: .05482 SIGMA SQUARED: 336466.91420

L - CAPPED DOWN  
 U - CAPPED UP  
 N - NOT SUBJECT TO CAPPING  
 E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: PRODUCTS

CLASS GROUP: 07

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.003 \* 1.000

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	PRESENT MULTI- STATE OCCUR (8)	PROPOSED MULTI- STATE OCCUR (9)	STATE- WIDE % CHANGE (10)	PRESENT STATEWIDE OCCUR (11)	PROPOSED STATEWIDE OCCUR (12)
49239	68346	412471	.68425	.1332	.901	.916	.919	.650	.600	-7.7	.650	.600
50010	42105	213949	.04838	.1160	.831	.845	.848	.580	.490	-15.5	.580	.490
51205	3266	8167	.00000	.0975	.843	.857	.860	.083	.071	-14.5	.083	.071
51206	4568	29611	.00000	.0995	.841	.855	.858	.450	.390	-13.3	.450	.390
51220	107472	451136	.44385	.1365	.867	.881	.884	2.580	2.280	-11.6	2.580	2.280
51221	616280	2662714	.80705	.2895	.897	.912	.915	1.940	1.780	-8.2	1.940	1.780
51222	106289	971222	2.16583	.1781	1.153	1.172	1.176	3.120	3.670	17.6	3.120	3.670
51224	680612	3312985	1.34645	.3247	1.068	1.085	1.088	1.330	1.450	9.0	1.330	1.450
51230	0	0	.00000	.0000	.000	.000	.000	.790	.790	0.0	.790	.790
51252	1933540	8579189	1.01074	.5180	.974	.990	.993	.101	.100	-1.0	.101	.100
51254	6288	18336	.00000	.0985	.842	.856	.859	.045	.039	-13.3	.045	.039
51333	177428	409127	1.88783	.1329	1.061	1.078	1.081	.310	.340	9.7	.310	.340
51958	282950	1375872	1.38392	.2078	1.027	1.044	1.047	.390	.410	5.1	.390	.410
51970	779460	3633163	.93386	.3407	.934	.949	.952	.250	.238	-4.8	.250	.238
52433	147816	400368	.17212	.1322	.833	.847	.850	1.200	1.020	-15.0	1.200	1.020
52581	34747	1209284	.11380	.1958	.773	.786	.788	3.680	2.950	-19.8	3.680	2.950
52744	10165	11526	.00000	.0978	.843	.857	.860	.094	.081	-13.8	.094	.081
53077	134389	640514	1.55702	.1521	1.029	1.046	1.049	.197	.207	5.1	.197	.207
55597	0	0	.00000	.0000	.000	.000	.000	1.780	1.790	0.6	1.780	1.790
55918	108	7338	.00000	.0974	.843	.857	.860	3.190	2.740	-14.1	3.190	2.740
55919	0	0	.00000	.0000	.000	.000	.000	3.640	3.650	0.3	3.640	3.650
56912	877737	4076544	1.27343	.3618	1.057	1.074	1.077	.084	.090	7.1	.084	.090
57146	392492	1595496	1.44372	.2230	1.048	1.065	1.068	.670	.720	7.5	.670	.720
58737	30405	140966	.00000	.1096	.832	.846	.849	.740	.630	-14.9	.740	.630
59601	177159	490034	1.44222	.1397	1.005	1.021	1.024	2.310	2.370	2.6	2.310	2.370
59660	488381	2466144	1.23156	.2781	1.017	1.034	1.037	1.140	1.180	3.5	1.140	1.180
59724	37681	121778	.00831	.1078	.834	.848	.851	.022	.019	-13.6	.022	.019
59725	426137	2153255	1.56260	.2592	1.097	1.115	1.118	.104	.116	11.5	.104	.116
59750	7845	38547	.68802	.1003	.909	.924	.927	.240	.222	-7.5	.240	.222
59781	491766	2486418	.71799	.2793	.874	.888	.891	.076	.068	-10.5	.076	.068
59782	391006	1658601	.86861	.2273	.919	.934	.937	.490	.460	-6.1	.490	.460

X-TILDE: 1.089 X-TILDE (MONOLINE): .984 PI-TILDE: .0058740  
 TAU SQUARED: .03000 SIGMA SQUARED: 294539.44808

L - CAPPED DOWN  
 U - CAPPED UP  
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SECTION G  
SUPPORTING MATERIAL -- LOCAL PRODUCTS/COMPLETED OPERATIONS  
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MULTISTATE  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
CALCULATION OF AGGREGATE LOSS COSTS  
AT CURRENT LEVEL

TYPE OF POLICY	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL	EXPOSURE DEVELOPMENT FACTOR+	EXPOSURE TREND#	AVERAGE IPMF*	TRENDED \$100,000 BASIC LIMIT AGGREGATE LOSS COSTS AT CURRENT LEVEL
MONOLINE	12/31/2016	\$79,728,640	1.000	1.128		\$89,933,906
	12/31/2017	86,199,771	1.000	1.098		94,647,349
	12/31/2018	91,515,149	1.022	1.062		99,327,248
MULTILINE	12/31/2016	\$175,132,791	1.000	1.130	0.986	\$195,129,453
	12/31/2017	186,638,893	1.000	1.099	0.989	202,859,866
	12/31/2018	191,459,955	1.022	1.062	0.991	205,933,509
TOTAL	12/31/2016					\$285,063,359
	12/31/2017					297,507,215
	12/31/2018					305,260,757

+ The derivation of the exposure development factors are shown in Section G - Calculation of Exposure Development Factors.

# Aggregate loss costs at current level have been trended from an average date of coverage to one year beyond an assumed effective date of 7/1/2020 by an exponential projection of the average annual exposure trend factor. The derivation of this exposure trend factor is shown in Section G - Average Annual Exposure Trends.

\* The implicit package modification factors applied to the data for individual programs are shown in Section G - Implicit Package Modification Factors.

NOTE: The factors shown above are weighted averages over all states.

MULTISTATE  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
OCCURRENCE  
FULL COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BASIC LIMIT LOSSES AND ALAE*	BASIC LIMIT DEVELOPMENT X FACTOR#	UNALLOCATED LOSS ADJ. X FACTOR	SEVERITY X TREND	FREQUENCY X TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	12/31/2016	\$21,199,760	1.072	1.085	1.217	0.975		\$29,251,589
		12/31/2017	15,975,410	1.455	1.085	1.170	0.980		28,922,462
		12/31/2018	10,385,050	2.714	1.085	1.125	0.985		33,883,437
BI	ALAE	12/31/2016	\$18,549,665		1.085	1.217	0.975		\$23,881,467
		12/31/2017	22,665,168		1.085	1.170	0.980		28,196,852
		12/31/2018	26,257,253		1.085	1.125	0.985		31,569,506
PD	B/L INDEMNITY	12/31/2016	\$63,624,298	1.328	1.085	1.246	0.975		\$111,343,255
		12/31/2017	59,117,671	1.497	1.085	1.193	0.980		112,291,464
		12/31/2018	53,232,022	1.728	1.085	1.141	0.985		112,179,861
PD	ALAE	12/31/2016	\$70,077,018		1.085	1.246	0.975		\$92,369,376
		12/31/2017	69,156,913		1.085	1.193	0.980		87,726,713
		12/31/2018	75,580,762		1.085	1.141	0.985		92,164,332
TOTAL									
	FULL COVERAGE	12/31/2016							\$256,845,686
		12/31/2017							257,137,491
		12/31/2018							269,797,135

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.  
# The indemnity development factors shown are weighted averages over all states and all Local Products/Completed Operations class groups.

MULTISTATE  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
OCCURRENCE  
DED COVERAGE  
CALCULATION OF INCURRED LOSSES

REPORT TYPE	LOSS DESCRIPTION	ACCIDENT YEAR ENDING	\$100,000 BAISC LIMIT LOSSES AND ALAE*	X	BASIC LIMIT DEVELOPMENT FACTOR#	X	UNALLOCATED LOSS ADJ. FACTOR	X	SEVERITY TREND	X	FREQUENCY TREND	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE
BI	B/L INDEMNITY	12/31/2016	\$3,683,706		1.282		1.085		1.217		0.975		\$6,077,763
		12/31/2017	2,832,806		1.494		1.085		1.170		0.980		5,264,394
		12/31/2018	1,215,820		2.394		1.085		1.125		0.985		3,498,862
BI	ALAE	12/31/2016	\$4,548,501				1.085		1.217		0.975		\$5,855,894
		12/31/2017	4,757,503				1.085		1.170		0.980		5,918,624
		12/31/2018	3,499,316				1.085		1.125		0.985		4,207,282
PD	B/L INDEMNITY	12/31/2016	\$18,540,702		1.402		1.085		1.246		0.975		\$34,268,408
		12/31/2017	15,115,878		1.523		1.085		1.193		0.980		29,195,459
		12/31/2018	13,579,471		1.808		1.085		1.141		0.985		29,946,729
PD	ALAE	12/31/2016	\$26,360,846				1.085		1.246		0.975		\$34,746,554
		12/31/2017	20,154,871				1.085		1.193		0.980		25,566,794
		12/31/2018	20,271,246				1.085		1.141		0.985		24,719,066
	TOTAL DED COVERAGE	12/31/2016											\$80,948,619
		12/31/2017											65,945,272
		12/31/2018											62,371,939
	TOTAL OCCURRENCE	12/31/2016											\$337,794,306
		12/31/2017											323,082,763
		12/31/2018											332,169,074

\* Incurred indemnity losses are as reported. The ALAE have been developed, using the additive ALAE development procedure as explained in Section B.  
# The indemnity development factors shown are weighted averages over all states and all Local Products/Completed Operations class groups.

KENTUCKY  
Local Products/Completed Operations  
Subline Code 336  
Combined Single Limit

Implicit Package Modification Factors (A) by Type of Policy		
Type of Policy (B) -----	Description -----	Implicit Package Modification Factors -----
31	Not Applicable	--
32	Not Applicable	--
33	Not Applicable	--
34	Mercantile Policy	0.576
35	Not Applicable	--
36	Service Policy	0.727
37	Industrial/Processing Policy	0.652
38	Contractors Policy	0.603

(A) Implicit Package Modification Factors shown above reflect the package modifications currently in the ISO manual for Local Products/Completed Operations for each type of package policy. More specifically, the G.L. and Property Implicit Package Modification Factors are calculated so that they average to the current manual CPP modification factors that apply to both property and liability.

(B) Combined data for risks written under the ISO CPP Program and individual insurer CMP programs have been used. These Implicit Package Modification Factors were applied to the aggregate loss costs at current level in each accident year. The average implicit package modification factor for each accident year is shown in Section F - Calculation of Aggregate Loss Costs at Current Level. The difference in average implicit package modification factor results from varying aggregate loss-costs-at-current-level distributions by Type of Policy in each year.

# KENTUCKY

## LOCAL PRODUCTS/COMPLETED OPERATIONS

### FULL & DEDUCTIBLE COMBINED TOTAL LIMITS PREMIUM

#### CALCULATION OF EXPOSURE DEVELOPMENT FACTORS

(1) Evaluation Period	(2) Multistate Ratio (a)	(3) State Ratio (b)	(4) <u>Credibility (c)</u>	(5) Weighted Ratio (d)	(6) Credibility Constant(Ki)
15 to 27 Months	1.022	1.012	0.8694	1.013	5,000,000
27 to 39 Months	1.000	0.999	0.6792	0.999	15,000,000
Accident Year Ending	Exposure Development From				Factor
	<u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>		
12/31/2016			1.000		1.000
12/31/2017		0.999	1.000		0.999
12/31/2018	1.013	0.999	1.000		1.012

(a) See Section G - Multistate Premium Development.

(b) See Section G - Statewide Premium Development.

(c) Credibility is based upon the statewide premium for each evaluation period. Exposures are assumed to be mature at 39 months.

(d)  $\{(3) \times (4)\} + \{(2) \times \{1.000-(4)\}\}$

KENTUCKY  
LOCAL PRODUCTS/COMPLETED OPERATIONS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 336  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
12/31/2011	6,509,601	6,607,544	6,607,678	6,607,715	6,607,729	6,607,803	6,607,803	6,607,803
12/31/2012	7,411,752	7,480,486	7,473,897	7,473,330	7,473,361	7,473,361	7,473,340	
12/31/2013	8,362,756	8,425,332	8,407,238	8,402,881	8,402,937	8,402,773		
12/31/2014	9,630,680	9,716,134	9,710,672	9,712,050	9,711,160			
12/31/2015	10,359,618	10,559,050	10,578,575	10,577,018				
12/31/2016	11,228,528	11,483,960	11,485,197					
12/31/2017	11,690,740	11,633,886						
12/31/2018	11,036,548							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
12/31/2011	1.015	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2012	1.009	0.999	1.000	1.000	1.000	1.000	
12/31/2013	1.007	0.998	0.999	1.000	1.000		
12/31/2014	1.009	0.999	1.000	1.000			
12/31/2015	1.019	1.002	1.000				
12/31/2016	1.023	1.000					
12/31/2017	0.995						
12/31/2018							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.012	0.999

MULTISTATE  
LOCAL PRODUCTS/COMPLETED OPERATIONS

COMBINED SINGLE LIMIT  
TOTAL LIMITS PREMIUM DEVELOPMENT  
SUBLINE 336  
FULL & DEDUCTIBLE  
ACCIDENT YEAR DATA

Accident Year Ending	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>
12/31/2011	402,939,396	411,400,813	411,106,492	411,069,882	411,039,584	411,052,309	411,052,224	411,052,914
12/31/2012	440,752,735	450,346,818	450,323,727	450,018,512	450,048,049	450,046,154	450,027,591	
12/31/2013	498,518,668	509,510,229	508,843,480	508,797,707	508,829,793	508,799,691		
12/31/2014	550,938,805	564,476,906	564,049,349	564,153,593	564,138,889			
12/31/2015	584,590,720	597,187,349	596,932,950	596,982,581				
12/31/2016	610,932,211	624,043,373	624,287,580					
12/31/2017	631,529,680	641,677,183						
12/31/2018	649,512,149							

LINK RATIOS

Accident Year Ending	<u>27:15</u>	<u>39:27</u>	<u>51:39</u>	<u>63:51</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>
12/31/2011	1.021	0.999	1.000	1.000	1.000	1.000	1.000
12/31/2012	1.022	1.000	0.999	1.000	1.000	1.000	
12/31/2013	1.022	0.999	1.000	1.000	1.000		
12/31/2014	1.025	0.999	1.000	1.000			
12/31/2015	1.022	1.000	1.000				
12/31/2016	1.021	1.000					
12/31/2017	1.016						
12/31/2018							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.022	1.000



LOCAL PRODUCTS/COMPLETED OPERATIONS LOSS DEVELOPMENT DATA  
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LOCAL PRODUCTS

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KENTUCKY

Completed Operations  
Bodily Injury  
Full Coverage  
Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.960	8.092	0.3632	4.187	360,000
27 to 39 Months	1.486	1.171	0.6466	1.282	380,000
39 to 51 Months	1.091	0.827	0.6247	0.926	410,000
51 to 63 Months	1.009	1.007	0.5634	1.008	430,000
63 to 75 Months	1.002	1.000	0.6064	1.001	470,000
75 to 87 Months	0.983	1.000	0.6583	0.994	500,000
87 to 99 Months	0.990	1.000	0.6169	0.996	540,000
99 to 111 Months	0.997	0.994	0.5415	0.995	570,000
111 to 123 Months	0.992	1.000	0.3798	0.995	610,000
123 to 135 Months	1.001	1.000	0.3977	1.001	660,000
135 to 147 Months	1.002	1.000	0.3999	1.001	710,000
147 to 159 Months	1.001	1.000	0.3479	1.001	760,000
159 to 171 Months	1.001	1.000	0.1794	1.001	820,000
171 to 183 Months	1.002	1.000	0.3141	1.001	880,000
183 to 195 Months	1.000	1.000	0.3078	1.000	950,000
195 to 207 Months	1.000	1.000	0.3659	1.000	1,000,000
207 to 219 Months	1.000	1.000	0.2650	1.000	1,100,000
219 to 231 Months	1.000	1.000	0.1990	1.000	1,200,000
231 to 243 Months	1.000	1.000	0.0697	1.000	1,300,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
12/31/2016			0.926	1.008	1.001	0.994	0.996	0.995	0.995	1.001	1.001
12/31/2017		1.282	0.926	1.008	1.001	0.994	0.996	0.995	0.995	1.001	1.001
12/31/2018	4.187	1.282	0.926	1.008	1.001	0.994	0.996	0.995	0.995	1.001	1.001
	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243	Factor	
12/31/2016	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	0.920	
12/31/2017	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.180	
12/31/2018	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	4.940	

(A) See Section G - Multistate Loss Development.

(B) See Section G - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000 - (4)\}\}$

KENTUCKY

Completed Operations  
Bodily Injury  
Full Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.0604
27 to 39 Months	0.1264
39 to 51 Months	0.1138
51 to 63 Months	0.0832
63 to 75 Months	0.0471
75 to 87 Months	0.0277
87 to 99 Months	0.0098
99 to 111 Months	0.0117
111 to 123 Months	0.0078
123 to 135 Months	0.0027
135 to 147 Months	0.0054
147 to 159 Months	0.0055
159 to 171 Months	0.0031
171 to Ultimate	A multistate link ratio factor of 1.012 has been used.

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.505	0.444	0.318	0.204	0.121	0.074	0.046
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.036	0.024	0.017	0.014	0.009	0.003	0.000

A.Y.E	Reported ALAE as of 3/31/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2016	42,188	538,254	0.318	171,165	213,353	1.012	215,910
12/31/2017	85,655	382,314	0.444	169,748	255,403	1.012	258,463
12/31/2018	19,883	918,133	0.505	463,657	483,540	1.012	489,340

(A) See Section G - Multistate Loss Development.

Note: Completed Operations Incremental ALAE Factors are calculated using multistate data.

KENTUCKY

Completed Operations  
Property Damage  
Full Coverage  
Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1)	(2)	(3)	(4)	(5)	
EVALUATION PERIOD	MULTISTATE RATIO (A)	STATE RATIO (B)	CREDIBILITY (C)	WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.185	1.248	0.7298	1.231	1,100,000
27 to 39 Months	1.095	1.083	0.7235	1.086	1,200,000
39 to 51 Months	1.046	1.023	0.6656	1.031	1,200,000
51 to 63 Months	1.037	0.989	0.6268	1.007	1,300,000
63 to 75 Months	1.032	0.991	0.6159	1.007	1,400,000
75 to 87 Months	1.028	0.988	0.6478	1.002	1,500,000
87 to 99 Months	1.028	0.996	0.6523	1.007	1,600,000
99 to 111 Months	1.042	1.003	0.6448	1.017	1,700,000
111 to 123 Months	1.016	1.003	0.6105	1.008	1,800,000
123 to 135 Months	1.027	0.994	0.5320	1.009	2,000,000
135 to 147 Months	1.012	1.000	0.4297	1.007	2,100,000
147 to 159 Months	1.009	1.000	0.3231	1.006	2,300,000
159 to 171 Months	1.005	1.000	0.3047	1.003	2,400,000
171 to 183 Months	1.004	1.000	0.3636	1.003	2,600,000
183 to 195 Months	1.002	1.000	0.3926	1.001	2,800,000
195 to 207 Months	1.002	1.000	0.4619	1.001	3,000,000
207 to 219 Months	1.002	1.000	0.4280	1.001	3,200,000
219 to 231 Months	1.002	1.000	0.3363	1.001	3,400,000
231 to 243 Months	1.002	1.000	0.1271	1.002	3,700,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year	Loss Development From										
Ending	27:15	39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
12/31/2016			1.031	1.007	1.007	1.002	1.007	1.017	1.008	1.009	1.007
12/31/2017		1.086	1.031	1.007	1.007	1.002	1.007	1.017	1.008	1.009	1.007
12/31/2018	1.231	1.086	1.031	1.007	1.007	1.002	1.007	1.017	1.008	1.009	1.007
	<u>159:147</u>	<u>171:159</u>	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	<u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>ULT:243</u>		<u>Factor</u>
12/31/2016	1.006	1.003	1.003	1.001	1.001	1.001	1.001	1.002	1.008		1.128
12/31/2017	1.006	1.003	1.003	1.001	1.001	1.001	1.001	1.002	1.008		1.225
12/31/2018	1.006	1.003	1.003	1.001	1.001	1.001	1.001	1.002	1.008		1.508

(A) See Section G - Multistate Loss Development.

(B) See Section G - Statewide Loss Development.

(C) Credibility is based upon the statewide losses for each evaluation period.

(D)  $\{(3) \times (4)\} + \{(2) \times \{1.000 - (4)\}\}$

KENTUCKY

Completed Operations  
Property Damage  
Full Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.0686
27 to 39 Months	0.0750
39 to 51 Months	0.0707
51 to 63 Months	0.0579
63 to 75 Months	0.0463
75 to 87 Months	0.0344
87 to 99 Months	0.0306
99 to 111 Months	0.0332
111 to 123 Months	0.0328
123 to 135 Months	0.0302
135 to 147 Months	0.0192
147 to 159 Months	0.0178
159 to 171 Months	0.0075
171 to Ultimate	A multistate link ratio factor of 1.032 has been used.

Cumulative Incremental Factors							
<u>Months-to-Ultimate</u>	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.524	0.456	0.381	0.310	0.252	0.206	0.171
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.141	0.108	0.075	0.044	0.025	0.007	0.000

A.Y.E	Reported ALAE as of 3/31/19	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2016	1,132,095	3,267,143	0.381	1,244,782	2,376,877	1.032	2,452,927
12/31/2017	276,228	2,574,571	0.456	1,174,004	1,450,232	1.032	1,496,630
12/31/2018	152,381	3,307,067	0.524	1,732,903	1,885,284	1.032	1,945,600

(A) See Section G - Multistate Loss Development.

Note: Completed Operations Incremental ALAE Factors are calculated using multistate data.

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	48,122	75,984	60,984	97,336	97,336	97,336	97,336	97,336	97,336	97,336	97,336
12/31/2000	76,276	185,276	181,277	187,478	199,715	200,715	200,715	200,715	200,715	200,715	200,715
12/31/2001	38,256	85,491	83,491	123,491	113,491	108,491	108,491	108,491	108,491	108,491	108,491
12/31/2002	33,628	83,628	311,652	278,052	283,052	277,952	277,952	277,952	277,952	277,952	277,952
12/31/2003	38,400	51,400	23,900	28,900	28,900	28,900	45,900	45,900	45,900	45,900	45,900
12/31/2004	148,492	171,900	86,150	84,150	79,150	79,150	79,150	79,150	79,150	79,150	79,150
12/31/2005	53,863	135,663	196,663	108,163	104,163	54,163	54,163	54,163	54,163	54,163	54,163
12/31/2006	186,100	286,860	354,884	290,573	307,174	302,174	302,174	277,174	272,174	272,174	272,174
12/31/2007	10,000	122,051	147,300	171,750	171,750	171,750	146,750	151,750	146,750	146,750	146,750
12/31/2008	65,166	53,666	61,716	35,166	35,166	16,916	16,916	16,916	16,916	16,916	16,916
12/31/2009	120,703	148,137	159,887	209,887	209,887	209,887	209,887	209,887	209,887	209,887	209,887
12/31/2010	93,561	194,162	295,412	353,412	360,412	426,412	446,412	446,412	446,412		
12/31/2011	148,389	136,252	230,002	182,236	220,852	213,419	213,419	213,419			
12/31/2012	19,812	170,732	323,312	323,412	323,312	323,312	323,312				
12/31/2013	78,736	190,501	236,935	211,315	180,001	180,001					
12/31/2014	8,977	159,303	163,203	20,202	20,202						
12/31/2015	18,824	226,723	282,363	225,362							
12/31/2016	31,511	309,250	304,924								
12/31/2017	155,000	298,449									
12/31/2018	128,500										

  

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	97,336	97,336	97,336	97,336	97,336	97,336	97,336	97,336	97,336
12/31/2000	200,715	200,715	200,715	200,715	200,715	200,715	200,715	200,715	
12/31/2001	98,491	98,491	98,491	98,491	98,491	98,491	98,491		
12/31/2002	277,952	277,952	277,952	277,952	277,952	277,952			
12/31/2003	45,900	45,900	45,900	45,900	45,900				
12/31/2004	79,150	79,150	79,150	79,150					
12/31/2005	54,163	54,163	54,163						
12/31/2006	272,174	272,174							
12/31/2007	146,750								

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

	Link Ratios										
A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.579	0.803	1.596	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2000	2.429	0.978	1.034	1.065	1.005	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2001	2.235	0.977	1.479	0.919	0.956	1.000	1.000	1.000	1.000	1.000	0.908
12/31/2002	2.487	3.727	0.892	1.018	0.982	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2003	1.339	0.465	1.209	1.000	1.000	1.588	1.000	1.000	1.000	1.000	1.000
12/31/2004	1.158	0.501	0.977	0.941	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2005	2.519	1.450	0.550	0.963	0.520	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.541	1.237	0.819	1.057	0.984	1.000	0.917	0.982	1.000	1.000	1.000
12/31/2007	12.205	1.207	1.166	1.000	1.000	0.854	1.034	0.967	1.000	1.000	1.000
12/31/2008	0.824	1.150	0.570	1.000	0.481	1.000	1.000	1.000	1.000	1.000	
12/31/2009	1.227	1.079	1.313	1.000	1.000	1.000	1.000	1.000	1.000		
12/31/2010	2.075	1.521	1.196	1.020	1.183	1.047	1.000	1.000			
12/31/2011	0.918	1.688	0.792	1.212	0.966	1.000	1.000				
12/31/2012	8.618	1.894	1.000	1.000	1.000	1.000					
12/31/2013	2.419	1.244	0.892	0.852	1.000						
12/31/2014	17.746	1.024	0.124	1.000							
12/31/2015	12.044	1.245	0.798								
12/31/2016	9.814	0.986									
12/31/2017	1.925										

3 Yr Mean	7.928	1.085	0.605	0.951	0.989	1.016	1.000	1.000	1.000	1.000	1.000
Best 3/5	8.092	1.171	0.827	1.007	1.000	1.000	1.000	0.994	1.000	1.000	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/31/2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *			
12/31/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *			
12/31/2002	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *			
12/31/2003	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	1.000	1.000	1.000								
12/31/2005	1.000	1.000									
12/31/2006	1.000										

3 Yr Mean	1.000	1.000	1.000	1.000	1.000 @	1.000 @	1.000 @	1.000 @			
Best 3/5	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

	Development From										
A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.000	1.000	1.000	0.994	1.000	1.000	1.000
12/31/2015				1.007	1.000	1.000	1.000	0.994	1.000	1.000	1.000
12/31/2016			0.827	1.007	1.000	1.000	1.000	0.994	1.000	1.000	1.000
12/31/2017		1.171	0.827	1.007	1.000	1.000	1.000	0.994	1.000	1.000	1.000
12/31/2018	8.092	1.171	0.827	1.007	1.000	1.000	1.000	0.994	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
12/31/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.994
12/31/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.001
12/31/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.828
12/31/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.969
12/31/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	7.844

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E	Allocated Expenses as of:										
	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	2,557	18,408	11,575	41,071	41,071	41,071	41,071	41,071	41,071	41,071	41,071
12/31/2000	11,647	406,252	438,913	476,949	128,041	129,019	129,019	129,019	129,019	129,019	129,019
12/31/2001	10,003	27,784	32,330	49,215	55,647	57,300	53,585	51,221	50,583	50,865	50,425
12/31/2002	6,356	20,261	95,294	186,632	196,122	196,298	196,298	196,298	196,298	196,298	196,298
12/31/2003	8,269	28,713	38,284	54,668	57,165	60,881	78,924	79,545	79,545	79,545	79,545
12/31/2004	20,000	3,925	9,970	36,147	36,527	36,527	36,527	36,527	36,527	36,527	36,527
12/31/2005	13,032	43,519	84,849	132,295	174,905	75,395	75,395	75,395	75,395	75,395	75,395
12/31/2006	8,703	46,753	128,160	149,607	183,827	253,806	269,702	272,040	272,040	272,040	272,040
12/31/2007	0	57,654	93,152	109,271	112,071	99,733	71,989	71,989	71,989	71,989	71,989
12/31/2008	0	20,822	58,949	63,547	66,652	69,393	69,393	69,393	69,393	69,393	69,393
12/31/2009	732	34,323	48,483	90,723	90,723	98,710	98,710	98,710	98,710	98,710	
12/31/2010	4,170	45,504	96,010	132,720	172,043	213,427	232,941	233,295	233,295		
12/31/2011	13,274	31,662	82,240	69,272	111,873	106,100	106,100	106,100			
12/31/2012	106	46,286	497,493	734,535	553,178	553,289	553,289				
12/31/2013	15,542	34,366	119,619	163,805	181,195	181,195					
12/31/2014	0	32,813	69,393	73,092	73,092						
12/31/2015	7,065	51,540	87,384	141,753							
12/31/2016	1	14,873	42,188								
12/31/2017	15,497	85,655									
12/31/2018	19,883										

A.Y.E	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	41,071	41,071	41,071	41,071	41,071	41,071	41,071	41,071	41,071
12/31/2000	129,019	129,019	129,019	129,019	129,019	129,019	129,019	129,019	
12/31/2001	45,899	45,899	45,899	45,899	45,899	45,899	45,899		
12/31/2002	196,298	196,298	196,298	196,298	196,298	196,298			
12/31/2003	79,545	79,545	79,545	79,545	79,545				
12/31/2004	36,527	36,527	36,527	36,527					
12/31/2005	75,395	75,395	75,395						
12/31/2006	272,040	272,040							
12/31/2007	71,989								



COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	319,357	466,461	438,262	401,030	463,703	463,703	413,703	413,703	447,036	447,036	448,849
12/31/2000	455,560	617,671	693,718	645,458	705,782	764,326	819,624	958,083	957,350	982,350	883,798
12/31/2001	414,407	593,587	632,594	646,886	646,111	636,111	686,111	695,111	707,611	707,611	707,611
12/31/2002	613,279	667,279	631,819	811,464	759,399	709,574	699,574	724,574	774,526	714,526	714,526
12/31/2003	245,171	307,443	300,861	329,510	299,971	316,471	366,471	415,471	415,471	422,471	425,471
12/31/2004	297,128	252,738	235,045	325,045	353,434	353,434	351,767	351,767	351,767	351,767	351,767
12/31/2005	103,467	182,328	172,030	173,543	160,294	190,294	241,294	241,294	241,294	266,294	266,294
12/31/2006	375,067	468,899	562,644	552,436	467,982	467,197	469,697	464,697	469,697	473,697	464,697
12/31/2007	615,354	868,926	896,790	935,777	897,709	894,477	969,477	1,056,477	937,676	886,604	851,477
12/31/2008	727,600	727,981	868,549	836,834	878,306	905,548	919,798	913,548	913,548	913,548	913,548
12/31/2009	758,769	964,504	1,063,779	993,767	995,252	993,461	993,461	969,539	969,539	969,539	
12/31/2010	1,170,335	1,228,210	1,139,763	1,234,461	1,242,898	1,207,198	1,202,898	1,202,898	1,212,898		
12/31/2011	778,337	1,020,427	775,789	886,397	971,663	831,670	805,256	802,256			
12/31/2012	847,555	915,667	901,925	818,957	717,094	720,094	690,335				
12/31/2013	614,204	460,123	625,291	568,365	555,993	622,076					
12/31/2014	551,437	663,851	695,299	795,643	781,512						
12/31/2015	831,372	1,098,426	1,067,774	1,085,327							
12/31/2016	1,129,929	1,377,462	1,677,880								
12/31/2017	1,009,438	1,336,112									
12/31/2018	1,004,858										

  

<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	438,850	538,849	538,849	538,849	538,849	538,849	538,849	538,849	538,849
12/31/2000	1,083,797	1,083,797	1,108,797	1,108,797	1,183,797	1,183,797	1,183,797	1,183,797	
12/31/2001	671,611	671,611	671,611	671,611	671,611	671,611	671,611		
12/31/2002	714,526	714,526	715,026	719,526	719,526	714,526			
12/31/2003	418,621	418,621	418,621	418,621	418,621				
12/31/2004	351,767	351,767	351,767	351,767					
12/31/2005	281,294	281,294	281,294						
12/31/2006	464,697	464,697							
12/31/2007	851,477								

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

A.Y.E.	Link Ratios										
	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.461	0.940	0.915	1.156	1.000	0.892	1.000	1.081	1.000	1.004	0.978
12/31/2000	1.356	1.123	0.930	1.093	1.083	1.072	1.169	0.999	1.026	0.900	1.226
12/31/2001	1.432	1.066	1.023	0.999	0.985	1.079	1.013	1.018	1.000	1.000	0.949
12/31/2002	1.088	0.947	1.284	0.936	0.934	0.986	1.036	1.069	0.923	1.000	1.000
12/31/2003	1.254	0.979	1.095	0.910	1.055	1.158	1.134	1.000	1.017	1.007	0.984
12/31/2004	0.851	0.930	1.383	1.087	1.000	0.995	1.000	1.000	1.000	1.000	1.000
12/31/2005	1.762	0.944	1.009	0.924	1.187	1.268	1.000	1.000	1.104	1.000	1.056
12/31/2006	1.250	1.200	0.982	0.847	0.998	1.005	0.989	1.011	1.009	0.981	1.000
12/31/2007	1.412	1.032	1.043	0.959	0.996	1.084	1.090	0.888	0.946	0.960	1.000
12/31/2008	1.001	1.193	0.963	1.050	1.031	1.016	0.993	1.000	1.000	1.000	
12/31/2009	1.271	1.103	0.934	1.001	0.998	1.000	0.976	1.000	1.000		
12/31/2010	1.049	0.928	1.083	1.007	0.971	0.996	1.000	1.008			
12/31/2011	1.311	0.760	1.143	1.096	0.856	0.968	0.996				
12/31/2012	1.080	0.985	0.908	0.876	1.004	0.959					
12/31/2013	0.749	1.359	0.909	0.978	1.119						
12/31/2014	1.204	1.047	1.144	0.982							
12/31/2015	1.321	0.972	1.016								
12/31/2016	1.219	1.218									
12/31/2017	1.324										

3 Yr Mean	1.288	1.079	1.023	0.945	0.993	0.974	0.991	1.003	0.982	0.980	1.019
Best 3/5	1.248	1.083	1.023	0.989	0.991	0.988	0.996	1.003	1.003	0.994	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.228	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/31/2000	1.000	1.023	1.000	1.068	1.000	1.000	1.000	1.000 *			
12/31/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *			
12/31/2002	1.000	1.001	1.006	1.000	0.993	1.000 *	1.000 *	1.000 *			
12/31/2003	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	1.000	1.000	1.000								
12/31/2005	1.000	1.000									
12/31/2006	1.000										

3 Yr Mean	1.000	1.000	1.002	1.000	0.998 @	1.000 @	1.000 @	1.000 @			
Best 3/5	1.000	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

A.Y.E.	Development From										
	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					0.991	0.988	0.996	1.003	1.003	0.994	1.000
12/31/2015				0.989	0.991	0.988	0.996	1.003	1.003	0.994	1.000
12/31/2016			1.023	0.989	0.991	0.988	0.996	1.003	1.003	0.994	1.000
12/31/2017		1.083	1.023	0.989	0.991	0.988	0.996	1.003	1.003	0.994	1.000
12/31/2018	1.248	1.083	1.023	0.989	0.991	0.988	0.996	1.003	1.003	0.994	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.975
12/31/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.964
12/31/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.987
12/31/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.069
12/31/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.334

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
KENTUCKY  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E	Allocated Expenses as of:										
	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	52,827	80,729	128,608	127,699	150,727	153,270	160,627	161,268	176,991	188,263	198,538
12/31/2000	83,814	84,810	119,401	158,523	188,452	202,907	197,577	225,796	240,202	259,045	262,068
12/31/2001	37,328	98,393	184,925	216,118	230,855	235,008	235,629	248,290	273,238	272,887	274,169
12/31/2002	22,581	101,248	169,801	489,872	428,101	400,748	386,611	386,611	390,746	390,773	390,773
12/31/2003	27,940	76,397	279,434	279,809	299,493	339,838	339,838	382,425	382,425	384,684	389,339
12/31/2004	24,730	26,333	23,643	83,397	50,721	73,528	67,842	67,842	67,842	67,842	67,842
12/31/2005	13,248	77,147	52,029	57,412	66,930	157,314	159,617	309,619	309,620	325,024	352,575
12/31/2006	55,912	21,003	125,363	163,978	121,248	126,661	135,141	148,433	150,965	158,558	157,916
12/31/2007	57,474	215,339	294,946	333,421	396,903	406,539	531,552	580,305	596,141	579,016	579,016
12/31/2008	89,645	71,899	128,522	152,107	168,651	179,336	201,789	192,781	193,104	193,104	193,104
12/31/2009	94,428	303,987	518,572	683,682	743,175	749,100	749,100	749,213	749,213	749,213	
12/31/2010	388,155	288,760	426,152	474,297	508,018	508,719	508,719	508,719	510,578		
12/31/2011	67,734	144,192	187,679	296,761	325,708	316,411	332,459	338,118			
12/31/2012	114,473	226,876	314,405	305,273	330,974	337,283	340,343				
12/31/2013	49,087	75,579	144,841	190,631	270,537	301,994					
12/31/2014	56,290	97,509	90,841	131,232	166,430						
12/31/2015	71,168	213,077	174,993	239,300							
12/31/2016	237,644	558,726	1,057,724								
12/31/2017	67,956	298,238									
12/31/2018	149,061										

A.Y.E	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	200,442	201,037	201,037	201,037	201,037	201,037	201,037	201,037	201,349
12/31/2000	262,663	262,663	283,605	344,532	578,471	582,978	582,978	583,290	
12/31/2001	254,842	254,842	254,842	254,842	254,842	254,842	255,154		
12/31/2002	390,773	390,773	390,775	405,852	413,157	419,540			
12/31/2003	386,301	386,301	386,301	386,301	386,613				
12/31/2004	67,842	67,842	67,842	67,842					
12/31/2005	384,388	594,390	398,442						
12/31/2006	157,916	157,916							
12/31/2007	579,016								

COMPLETED OPERATIONS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	4,956,833	6,997,254	9,702,054	11,503,345	11,550,057	11,806,217	11,486,813	11,275,709	11,277,262	11,301,812	11,324,606
12/31/2000	3,161,020	7,032,572	9,020,885	10,626,496	10,512,292	10,857,836	10,356,898	10,420,083	10,270,732	10,309,376	10,306,797
12/31/2001	3,122,564	6,716,472	8,908,525	9,878,483	10,467,130	10,520,411	10,353,113	10,107,990	10,003,388	9,901,935	9,923,305
12/31/2002	2,897,561	6,865,145	9,002,579	9,805,765	10,739,856	10,865,771	11,151,148	11,357,869	11,502,501	11,555,831	11,589,549
12/31/2003	3,612,890	6,617,194	9,969,513	10,646,523	10,531,387	10,340,245	10,114,947	10,077,141	10,060,673	10,097,074	10,148,084
12/31/2004	4,686,540	7,094,003	9,584,995	10,682,560	10,795,982	10,316,931	10,629,712	10,584,946	10,568,534	10,603,697	10,708,555
12/31/2005	4,166,570	7,107,994	9,954,107	11,194,209	10,993,689	11,195,470	11,511,084	11,421,373	11,338,779	11,435,715	11,391,261
12/31/2006	4,486,358	8,514,115	12,455,387	13,076,313	12,929,083	13,111,153	12,966,886	13,179,515	13,090,804	13,005,483	12,932,373
12/31/2007	4,289,508	8,282,118	11,145,959	12,269,098	12,290,037	12,327,570	12,034,326	12,184,965	12,381,873	12,167,398	12,147,985
12/31/2008	4,236,718	7,704,790	10,965,360	11,869,482	11,630,179	11,626,770	12,289,095	12,070,191	12,126,593	12,082,352	12,246,758
12/31/2009	4,868,191	7,733,590	10,813,605	11,349,866	11,444,053	11,835,965	11,440,685	11,428,102	11,314,699	11,155,367	
12/31/2010	4,787,074	9,758,644	12,146,043	13,409,582	14,363,567	14,411,482	13,965,812	13,822,151	13,714,384		
12/31/2011	4,592,218	7,281,911	10,926,404	12,942,917	12,904,776	11,881,715	11,971,646	11,755,069			
12/31/2012	3,366,624	7,210,935	13,070,709	12,851,616	13,154,080	13,084,601	12,729,945				
12/31/2013	4,432,335	9,778,399	11,756,233	13,418,362	13,483,211	13,579,893					
12/31/2014	5,447,688	8,149,646	12,314,193	13,091,886	12,678,787						
12/31/2015	4,437,364	8,197,069	12,273,824	13,104,598							
12/31/2016	3,002,552	8,418,869	12,205,818								
12/31/2017	5,253,013	9,593,527									
12/31/2018	6,008,084										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	11,281,838	11,243,570	11,229,697	11,229,396	11,229,397	11,229,396	11,229,396	11,229,395	11,229,395
12/31/2000	10,343,090	10,395,934	10,338,583	10,391,837	10,386,833	10,401,832	10,401,832	10,400,282	
12/31/2001	9,974,307	9,977,990	10,015,032	10,058,239	10,034,875	10,004,674	10,099,719		
12/31/2002	11,522,754	11,553,287	11,697,521	11,698,231	11,687,193	11,731,321			
12/31/2003	10,183,588	10,196,646	10,235,388	10,215,387	10,215,887				
12/31/2004	10,772,825	10,969,285	10,905,069	10,912,070					
12/31/2005	11,284,522	11,236,614	11,175,273						
12/31/2006	12,934,372	12,926,819							
12/31/2007	12,172,480								

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE  
Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.412	1.387	1.186	1.004	1.022	0.973	0.982	1.000	1.002	1.002	0.996
12/31/2000	2.225	1.283	1.178	0.989	1.033	0.954	1.006	0.986	1.004	1.000	1.004
12/31/2001	2.151	1.326	1.109	1.060	1.005	0.984	0.976	0.990	0.990	1.002	1.005
12/31/2002	2.369	1.311	1.089	1.095	1.012	1.026	1.019	1.013	1.005	1.003	0.994
12/31/2003	1.832	1.507	1.068	0.989	0.982	0.978	0.996	0.998	1.004	1.005	1.003
12/31/2004	1.514	1.351	1.115	1.011	0.956	1.030	0.996	0.998	1.003	1.010	1.006
12/31/2005	1.706	1.400	1.125	0.982	1.018	1.028	0.992	0.993	1.009	0.996	0.991
12/31/2006	1.898	1.463	1.050	0.989	1.014	0.989	1.016	0.993	0.993	0.994	1.000
12/31/2007	1.931	1.346	1.101	1.002	1.003	0.976	1.013	1.016	0.983	0.998	1.002
12/31/2008	1.819	1.423	1.082	0.980	1.000	1.057	0.982	1.005	0.996	1.014	
12/31/2009	1.589	1.398	1.050	1.008	1.034	0.967	0.999	0.990	0.986		
12/31/2010	2.039	1.245	1.104	1.071	1.003	0.969	0.990	0.992			
12/31/2011	1.586	1.500	1.185	0.997	0.921	1.008	0.982				
12/31/2012	2.142	1.813	0.983	1.024	0.995	0.973					
12/31/2013	2.206	1.202	1.141	1.005	1.007						
12/31/2014	1.496	1.511	1.063	0.968							
12/31/2015	1.847	1.497	1.068								
12/31/2016	2.804	1.450									
12/31/2017	1.826										

3 Yr Mean      2.159      1.486      1.091      0.999      0.974      0.983      0.990      0.996      0.988      1.002      0.998

Best 3/5      1.960      1.486      1.091      1.009      1.002      0.983      0.990      0.997      0.992      1.001      1.002

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000			
12/31/2000	1.005	0.994	1.005	1.000	1.001	1.000	1.000	1.000 *			
12/31/2001	1.000	1.004	1.004	0.998	0.997	1.010	1.000 *	1.000 *			
12/31/2002	1.003	1.012	1.000	0.999	1.004	1.000 *	1.000 *	1.000 *			
12/31/2003	1.001	1.004	0.998	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	1.018	0.994	1.001								
12/31/2005	0.996	0.995									
12/31/2006	0.999										

3 Yr Mean      1.004      0.998      1.000      0.999      1.001 @      1.003 @      1.000 @      1.000 @

Best 3/5      1.001      1.001      1.002      1.000      1.000 \*      1.000 \*      1.000 \*      1.000 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.002	0.983	0.990	0.997	0.992	1.001	1.002
12/31/2015				1.009	1.002	0.983	0.990	0.997	0.992	1.001	1.002
12/31/2016			1.091	1.009	1.002	0.983	0.990	0.997	0.992	1.001	1.002
12/31/2017		1.486	1.091	1.009	1.002	0.983	0.990	0.997	0.992	1.001	1.002
12/31/2018	1.960	1.486	1.091	1.009	1.002	0.983	0.990	0.997	0.992	1.001	1.002

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000*	0.971
12/31/2015	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000*	0.980
12/31/2016	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000*	1.069
12/31/2017	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000*	1.589
12/31/2018	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000*	3.114

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	404,714	874,417	1,874,163	2,237,696	2,297,649	1,809,642	1,786,359	1,845,557	1,883,682	1,920,172	1,991,256
12/31/2000	350,798	514,262	1,161,368	1,461,454	1,251,531	1,824,321	1,645,592	1,526,792	1,602,111	1,592,811	1,521,613
12/31/2001	341,894	717,993	931,446	983,561	925,921	1,006,703	1,264,056	1,362,273	1,314,023	1,301,223	1,308,023
12/31/2002	229,242	650,739	1,124,018	1,164,317	1,373,666	1,361,220	1,672,423	1,722,423	1,546,341	1,493,066	1,515,902
12/31/2003	319,688	867,685	1,366,084	1,255,628	1,211,547	1,314,289	1,316,395	1,340,895	1,420,195	1,420,197	1,443,795
12/31/2004	267,810	621,021	1,029,012	1,052,518	1,091,198	1,010,394	847,293	874,261	891,150	878,580	829,980
12/31/2005	666,837	1,045,465	1,124,246	1,101,235	1,202,588	1,059,558	1,149,104	1,150,432	1,118,532	1,252,441	1,197,866
12/31/2006	818,931	1,320,993	1,476,958	1,588,453	1,683,437	1,415,017	1,390,016	1,610,616	1,750,067	1,700,298	1,596,566
12/31/2007	270,668	948,364	953,464	1,093,194	1,160,444	1,273,644	1,213,956	1,206,781	1,181,807	1,181,308	1,229,358
12/31/2008	288,189	736,486	765,196	902,388	835,573	1,014,521	1,107,977	1,245,724	1,258,771	1,196,313	1,195,313
12/31/2009	566,791	1,045,400	1,069,085	1,263,752	1,084,741	1,154,076	1,098,109	1,097,244	1,038,243	1,153,243	
12/31/2010	641,422	781,803	1,438,274	1,851,833	1,583,598	1,516,454	1,441,164	1,487,665	1,582,736		
12/31/2011	270,205	819,627	1,230,077	1,689,436	1,722,481	1,706,863	1,706,863	1,706,863			
12/31/2012	383,511	1,139,597	1,405,578	1,652,860	1,649,357	1,695,210	1,692,710				
12/31/2013	1,675,399	2,417,513	2,662,315	2,672,081	2,667,808	2,768,307					
12/31/2014	1,950,981	2,466,662	2,836,296	3,126,175	3,209,813						
12/31/2015	980,710	1,453,033	1,925,708	2,328,985							
12/31/2016	1,110,372	2,429,268	2,968,685								
12/31/2017	554,719	1,996,465									
12/31/2018	870,529										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	1,986,257	1,921,257	1,867,257	1,867,257	1,867,260	1,867,257	1,867,257	1,867,257	1,867,257
12/31/2000	1,538,613	1,533,111	1,503,111	1,570,611	1,565,611	1,565,611	1,566,111	1,567,161	
12/31/2001	1,261,828	1,261,831	1,309,828	1,274,827	1,274,828	1,299,828	1,332,327		
12/31/2002	1,467,700	1,579,904	1,581,334	1,581,333	1,581,333	1,681,332			
12/31/2003	1,446,695	1,424,195	1,423,696	1,423,696	1,523,695				
12/31/2004	828,318	828,219	833,218	933,217					
12/31/2005	1,237,867	1,311,837	1,312,086						
12/31/2006	1,555,316	1,655,313							
12/31/2007	1,438,357								

COMPLETED OPERATIONS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE  
 Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	2.161	2.143	1.194	1.027	0.788	0.987	1.033	1.021	1.019	1.037	0.997
12/31/2000	1.466	2.258	1.258	0.856	1.458	0.902	0.928	1.049	0.994	0.955	1.011
12/31/2001	2.100	1.297	1.056	0.941	1.087	1.256	1.078	0.965	0.990	1.005	0.965
12/31/2002	2.839	1.727	1.036	1.180	0.991	1.229	1.030	0.898	0.966	1.015	0.968
12/31/2003	2.714	1.574	0.919	0.965	1.085	1.002	1.019	1.059	1.000	1.017	1.002
12/31/2004	2.319	1.657	1.023	1.037	0.926	0.839	1.032	1.019	0.986	0.945	0.998
12/31/2005	1.568	1.075	0.980	1.092	0.881	1.085	1.001	0.972	1.120	0.956	1.033
12/31/2006	1.613	1.118	1.075	1.060	0.841	0.982	1.159	1.087	0.972	0.939	0.974
12/31/2007	3.504	1.005	1.147	1.062	1.098	0.953	0.994	0.979	1.000	1.041	1.170
12/31/2008	2.556	1.039	1.179	0.926	1.214	1.092	1.124	1.010	0.950	0.999	
12/31/2009	1.844	1.023	1.182	0.858	1.064	0.952	0.999	0.946	1.111		
12/31/2010	1.219	1.840	1.288	0.855	0.958	0.950	1.032	1.064			
12/31/2011	3.033	1.501	1.373	1.020	0.991	1.000	1.000				
12/31/2012	2.971	1.233	1.176	0.998	1.028	0.999					
12/31/2013	1.443	1.101	1.004	0.998	1.038						
12/31/2014	1.264	1.150	1.102	1.027							
12/31/2015	1.482	1.325	1.209								
12/31/2016	2.188	1.222									
12/31/2017	3.599										

3 Yr Mean      2.423      1.232      1.105      1.008      1.019      0.983      1.010      1.007      1.020      0.993      1.059

Best 3/5      1.704      1.202      1.162      1.005      1.019      0.984      1.010      1.018      1.028      0.967      1.011

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.967	0.972	1.000	1.000	1.000	1.000	1.000	1.000			
12/31/2000	0.996	0.980	1.045	0.997	1.000	1.000	1.001	1.002 *			
12/31/2001	1.000	1.038	0.973	1.000	1.020	1.025	1.004 *	1.002 *			
12/31/2002	1.076	1.001	1.000	1.000	1.063	1.007 *	1.004 *	1.002 *			
12/31/2003	0.984	1.000	1.000	1.070	1.000 *	1.007 *	1.004 *	1.002 *			
12/31/2004	1.000	1.006	1.120								
12/31/2005	1.060	1.000									
12/31/2006	1.064										

3 Yr Mean      1.041      1.002      1.040      1.023      1.028 @      1.008 @      1.001 @      1.000 @

Best 3/5      1.041      1.002      1.015      1.000      1.007 \*      1.005 \*      1.003 \*      1.002 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.019	0.984	1.010	1.018	1.028	0.967	1.011
12/31/2015				1.005	1.019	0.984	1.010	1.018	1.028	0.967	1.011
12/31/2016			1.162	1.005	1.019	0.984	1.010	1.018	1.028	0.967	1.011
12/31/2017		1.202	1.162	1.005	1.019	0.984	1.010	1.018	1.028	0.967	1.011
12/31/2018	1.704	1.202	1.162	1.005	1.019	0.984	1.010	1.018	1.028	0.967	1.011

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.041	1.002	1.015	1.000	1.007	1.005	1.003	1.002	1.004*	1.120
12/31/2015	1.041	1.002	1.015	1.000	1.007	1.005	1.003	1.002	1.004*	1.126
12/31/2016	1.041	1.002	1.015	1.000	1.007	1.005	1.003	1.002	1.004*	1.308
12/31/2017	1.041	1.002	1.015	1.000	1.007	1.005	1.003	1.002	1.004*	1.572
12/31/2018	1.041	1.002	1.015	1.000	1.007	1.005	1.003	1.002	1.004*	2.679

\* Calculated Using Modified Bondy Method  
 @ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:											
A.Y.E	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	890,508	1,598,954	3,254,883	5,425,757	6,421,483	7,327,626	7,305,050	7,918,594	8,530,517	8,648,466	8,917,435
12/31/2000	643,848	2,331,874	3,566,128	5,837,479	6,471,043	7,149,476	7,182,915	7,183,356	7,234,045	7,482,173	7,492,689
12/31/2001	564,536	1,841,013	3,740,473	5,597,252	7,365,879	8,104,983	8,750,061	8,750,391	8,813,420	8,823,647	8,795,893
12/31/2002	654,307	2,802,220	4,513,704	7,859,619	8,633,167	10,041,112	10,369,555	10,736,012	10,986,348	11,002,397	11,074,764
12/31/2003	1,047,161	2,229,991	4,639,200	7,434,876	8,340,416	9,003,483	9,652,654	9,648,716	9,520,081	9,559,102	9,611,250
12/31/2004	541,289	1,809,061	4,208,694	6,668,763	8,457,521	9,621,299	10,825,994	10,459,506	10,530,647	10,559,053	10,882,331
12/31/2005	737,161	1,341,851	3,695,927	6,083,030	7,439,433	8,214,925	8,761,458	8,973,491	9,291,777	9,584,330	9,754,869
12/31/2006	889,126	3,634,712	6,271,204	7,909,774	9,265,894	10,466,936	11,033,230	11,367,400	11,641,649	11,656,624	11,635,939
12/31/2007	817,267	2,516,874	5,470,176	9,150,556	10,174,735	10,788,755	11,080,063	11,364,093	11,545,473	11,658,184	11,686,938
12/31/2008	825,433	1,909,021	4,206,120	6,424,317	8,462,232	9,680,025	10,405,279	10,968,718	11,666,928	14,924,775	14,717,385
12/31/2009	544,523	1,995,974	4,184,545	6,498,331	8,786,455	9,366,439	9,651,394	9,873,136	9,885,249	10,002,293	
12/31/2010	797,308	2,771,965	5,305,585	7,969,842	10,483,462	11,590,011	12,445,934	12,482,184	12,868,867		
12/31/2011	779,416	1,912,711	4,295,522	7,598,311	9,969,328	10,824,179	11,313,052	11,440,687			
12/31/2012	284,923	1,563,412	5,459,116	8,055,321	9,703,087	11,271,406	11,948,835				
12/31/2013	518,869	2,133,963	4,889,049	8,365,829	10,301,339	11,660,764					
12/31/2014	543,643	2,213,840	5,318,837	7,434,580	8,571,200						
12/31/2015	462,007	1,841,087	4,870,573	7,051,384							
12/31/2016	405,440	1,822,495	3,879,852								
12/31/2017	634,607	2,440,841									
12/31/2018	431,665										

A.Y.E	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	9,111,478	9,008,442	8,999,982	9,001,121	9,001,346	9,001,814	8,999,916	9,002,839	9,011,923
12/31/2000	7,605,229	7,601,711	7,591,025	7,596,838	7,600,594	7,612,821	7,620,353	7,631,608	
12/31/2001	8,828,357	8,817,081	8,829,441	8,899,194	8,903,841	8,914,042	8,917,930		
12/31/2002	11,145,226	11,313,906	11,401,767	11,504,625	11,516,458	11,775,404			
12/31/2003	9,722,536	9,760,173	9,837,471	9,854,237	9,869,654				
12/31/2004	11,065,743	11,191,855	11,242,185	11,287,030					
12/31/2005	9,895,179	10,121,308	10,181,566						
12/31/2006	11,732,750	11,730,831							
12/31/2007	11,684,458								

Link Ratios: 171 to Ultimate									
A.Y.E	183:171	195:183	207:195	219:207	231:219	243:231	Ult:243		
12/31/1999	1.000	1.000	1.000	1.000	1.000	1.001	1.002	*	
12/31/2000	1.001	1.000	1.002	1.001	1.001	1.001	1.002	*	
12/31/2001	1.008	1.001	1.001	1.000	1.001	*	1.001	*	
12/31/2002	1.009	1.001	1.022	1.001	*	1.001	*	1.002	*
12/31/2003	1.002	1.002	1.000	*	1.001	*	1.001	*	1.002
12/31/2004	1.004								

Best 3/5      1.005      1.001      1.001 \*      1.001 \*      1.001 \*      1.001 \*      1.002 \*

171 to Ultimate Factor: 1.012

\* Calculated Using Modified Bondy Method



COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

	Increments												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	708,446	1,655,929	2,170,874	995,726	906,143	-22,576	613,544	611,923	117,949	268,969	194,043	-103,036	-8,460
12/31/2000	1,688,026	1,234,254	2,271,351	633,564	678,433	33,439	441	50,689	248,128	10,516	112,540	-3,518	-10,686
12/31/2001	1,276,477	1,899,460	1,856,779	1,768,627	739,104	645,078	330	63,029	10,227	-27,754	32,464	-11,276	12,360
12/31/2002	2,147,913	1,711,484	3,345,915	773,548	1,407,945	328,443	366,457	250,336	16,049	72,367	70,462	168,680	87,861
12/31/2003	1,182,830	2,409,209	2,795,676	905,540	663,067	649,171	-3,938	-128,635	39,021	52,148	111,286	37,637	77,298
12/31/2004	1,267,772	2,399,633	2,460,069	1,788,758	1,163,778	1,204,695	-366,488	71,141	28,406	323,278	183,412	126,112	50,330
12/31/2005	604,690	2,354,076	2,387,103	1,356,403	775,492	546,533	212,033	318,286	292,553	170,539	140,310	226,129	60,258
12/31/2006	2,745,586	2,636,492	1,638,570	1,356,120	1,201,042	566,294	334,170	274,249	14,975	-20,685	96,811	-1,919	
12/31/2007	1,699,607	2,953,302	3,680,380	1,024,179	614,020	291,308	284,030	181,380	112,711	28,754	-2,480		
12/31/2008	1,083,588	2,297,099	2,218,197	2,037,915	1,217,793	725,254	563,439	698,210	3,257,847	-207,390			
12/31/2009	1,451,451	2,188,571	2,313,786	2,288,124	579,984	284,955	221,742	12,113	117,044				
12/31/2010	1,974,657	2,533,620	2,664,257	2,513,620	1,106,549	855,923	36,250	386,683					
12/31/2011	1,133,295	2,382,811	3,302,789	2,371,017	854,851	488,873	127,635						
12/31/2012	1,278,489	3,895,704	2,596,205	1,647,766	1,568,319	677,429							
12/31/2013	1,615,094	2,755,086	3,476,780	1,935,510	1,359,425								
12/31/2014	1,670,197	3,104,997	2,115,743	1,136,620									
12/31/2015	1,379,080	3,029,486	2,180,811										
12/31/2016	1,417,055	2,057,357											
12/31/2017	1,806,234												

A.Y.E	Incremental Percentages												
	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
12/31/1999	0.0349	0.0816	0.1070	0.0491	0.0446	-0.0011	0.0302	0.0301	0.0058	0.0133	0.0096	-0.0051	-0.0004
12/31/2000	0.0869	0.0635	0.1169	0.0326	0.0349	0.0017	0.0000	0.0026	0.0128	0.0005	0.0058	-0.0002	-0.0005
12/31/2001	0.0731	0.1088	0.1063	0.1013	0.0423	0.0369	0.0000	0.0036	0.0006	-0.0016	0.0019	-0.0006	0.0007
12/31/2002	0.0960	0.0765	0.1495	0.0346	0.0629	0.0147	0.0164	0.0112	0.0007	0.0032	0.0031	0.0075	0.0039
12/31/2003	0.0677	0.1380	0.1601	0.0519	0.0380	0.0372	-0.0002	-0.0074	0.0022	0.0030	0.0064	0.0022	0.0044
12/31/2004	0.0678	0.1283	0.1315	0.0956	0.0622	0.0644	-0.0196	0.0038	0.0015	0.0173	0.0098	0.0067	0.0027
12/31/2005	0.0265	0.1032	0.1046	0.0594	0.0340	0.0240	0.0093	0.0139	0.0128	0.0075	0.0061	0.0099	0.0026
12/31/2006	0.1072	0.1030	0.0640	0.0530	0.0469	0.0221	0.0130	0.0107	0.0006	-0.0008	0.0038	-0.0001	
12/31/2007	0.0798	0.1386	0.1728	0.0481	0.0288	0.0137	0.0133	0.0085	0.0053	0.0013	-0.0001		
12/31/2008	0.0486	0.1030	0.0994	0.0914	0.0546	0.0325	0.0253	0.0313	0.1460	-0.0093			
12/31/2009	0.0660	0.0995	0.1052	0.1041	0.0264	0.0130	0.0101	0.0006	0.0053				
12/31/2010	0.0818	0.1050	0.1104	0.1042	0.0458	0.0355	0.0015	0.0160					
12/31/2011	0.0535	0.1125	0.1560	0.1120	0.0404	0.0231	0.0060						
12/31/2012	0.0520	0.1583	0.1055	0.0670	0.0637	0.0275							
12/31/2013	0.0654	0.1116	0.1409	0.0784	0.0551								
12/31/2014	0.0729	0.1355	0.0923	0.0496									
12/31/2015	0.0601	0.1321	0.0951										
12/31/2016	0.0545	0.0791											
12/31/2017	0.0555												

Best 3/5	0.0604	0.1264	0.1138	0.0832	0.0471	0.0277	0.0098	0.0117	0.0078	0.0027	0.0054	0.0055	0.0031
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COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	17,599,989	22,454,473	26,046,127	29,562,061	32,370,320	35,877,922	37,653,769	38,643,310	39,594,313	40,570,468	40,738,228
12/31/2000	20,148,215	28,117,537	33,733,241	38,083,537	40,534,637	43,442,144	47,070,033	48,693,596	49,659,853	50,864,816	51,204,766
12/31/2001	22,510,580	30,442,420	36,303,332	39,979,579	43,246,242	44,802,398	45,830,354	48,128,085	49,452,012	49,989,510	49,995,824
12/31/2002	23,942,676	32,500,184	36,636,196	41,459,403	42,462,013	43,302,516	45,305,257	47,063,599	47,981,622	47,466,223	47,890,555
12/31/2003	27,265,666	32,650,070	36,957,858	37,463,953	39,827,295	40,944,922	41,480,008	42,523,955	43,740,689	43,931,137	44,470,197
12/31/2004	27,439,588	33,954,287	37,809,524	41,667,059	44,039,186	45,918,270	47,701,876	48,688,019	50,558,507	51,255,498	52,665,600
12/31/2005	24,441,902	30,021,631	34,159,132	38,667,459	41,089,600	43,660,220	46,355,866	47,633,893	49,215,729	49,424,547	50,472,459
12/31/2006	33,251,639	40,963,717	47,016,396	52,296,103	58,005,321	59,899,447	61,613,000	61,134,942	62,533,335	63,360,384	65,294,375
12/31/2007	37,478,911	45,385,473	54,043,566	56,932,040	59,518,933	61,515,339	62,521,476	64,578,463	66,303,739	68,449,195	70,993,010
12/31/2008	46,746,190	55,030,465	60,846,012	63,453,576	64,664,973	65,907,275	68,135,592	69,345,267	77,558,317	85,573,198	80,392,789
12/31/2009	50,614,467	59,080,856	65,592,058	66,906,596	68,558,709	69,306,834	70,387,519	73,634,396	78,978,315	79,312,015	
12/31/2010	50,249,441	59,040,061	62,599,203	64,398,679	66,662,622	68,124,844	69,513,387	71,647,625	73,500,618		
12/31/2011	50,195,255	56,010,649	58,198,283	58,649,085	59,965,899	62,392,350	64,582,427	65,916,858			
12/31/2012	42,530,139	48,022,963	49,922,237	52,558,947	55,321,739	57,911,305	59,680,496				
12/31/2013	37,680,360	42,122,567	46,464,088	48,430,126	51,135,291	52,876,083					
12/31/2014	38,513,971	44,501,138	47,606,411	49,609,846	50,564,942						
12/31/2015	35,973,160	42,715,059	47,871,650	51,342,816							
12/31/2016	35,239,568	45,331,006	50,354,922								
12/31/2017	38,074,708	46,164,945									
12/31/2018	41,103,743										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
12/31/1999	40,957,384	41,152,372	41,043,145	41,246,586	41,187,833	41,307,131	41,306,349	41,381,160	41,374,042		
12/31/2000	51,776,232	51,670,398	51,668,291	51,689,055	51,572,415	51,442,716	51,489,129	51,490,970			
12/31/2001	50,324,295	50,035,846	50,162,941	50,378,683	50,345,144	50,483,753	50,770,646				
12/31/2002	48,212,469	48,315,325	48,445,558	48,467,239	48,973,417	49,091,954					
12/31/2003	44,530,235	44,960,842	45,372,085	45,920,923	46,247,275						
12/31/2004	53,486,742	53,985,474	54,030,819	54,502,221							
12/31/2005	50,794,958	51,242,946	51,786,291								
12/31/2006	66,435,190	67,420,635									
12/31/2007	71,946,233										

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE  
Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.276	1.160	1.135	1.095	1.108	1.049	1.026	1.025	1.025	1.004	1.005
12/31/2000	1.396	1.200	1.129	1.064	1.072	1.084	1.034	1.020	1.024	1.007	1.011
12/31/2001	1.352	1.193	1.101	1.082	1.036	1.023	1.050	1.028	1.011	1.000	1.007
12/31/2002	1.357	1.127	1.132	1.024	1.020	1.046	1.039	1.020	0.989	1.009	1.007
12/31/2003	1.197	1.132	1.014	1.063	1.028	1.013	1.025	1.029	1.004	1.012	1.001
12/31/2004	1.237	1.114	1.102	1.057	1.043	1.039	1.021	1.038	1.014	1.028	1.016
12/31/2005	1.228	1.138	1.132	1.063	1.063	1.062	1.028	1.033	1.004	1.021	1.006
12/31/2006	1.232	1.148	1.112	1.109	1.033	1.029	0.992	1.023	1.013	1.031	1.017
12/31/2007	1.211	1.191	1.053	1.045	1.034	1.016	1.033	1.027	1.032	1.037	1.013
12/31/2008	1.177	1.106	1.043	1.019	1.019	1.034	1.018	1.118	1.103	0.939	
12/31/2009	1.167	1.110	1.020	1.025	1.011	1.016	1.046	1.073	1.004		
12/31/2010	1.175	1.060	1.029	1.035	1.022	1.020	1.031	1.026			
12/31/2011	1.116	1.039	1.008	1.022	1.040	1.035	1.021				
12/31/2012	1.129	1.040	1.053	1.053	1.047	1.031					
12/31/2013	1.118	1.103	1.042	1.056	1.034						
12/31/2014	1.155	1.070	1.042	1.019							
12/31/2015	1.187	1.121	1.073								
12/31/2016	1.286	1.111									
12/31/2017	1.212										

3 Yr Mean      1.228      1.101      1.052      1.043      1.040      1.029      1.033      1.072      1.046      1.002      1.012

Best 3/5      1.185      1.095      1.046      1.037      1.032      1.028      1.028      1.042      1.016      1.027      1.012

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.005	0.997	1.005	0.999	1.003	1.000	1.002	1.000			
12/31/2000	0.998	1.000	1.000	0.998	0.997	1.001	1.000	1.002 *			
12/31/2001	0.994	1.003	1.004	0.999	1.003	1.006	1.002 *	1.002 *			
12/31/2002	1.002	1.003	1.000	1.010	1.002	1.002 *	1.002 *	1.002 *			
12/31/2003	1.010	1.009	1.012	1.007	1.001 *	1.002 *	1.002 *	1.002 *			
12/31/2004	1.009	1.001	1.009								
12/31/2005	1.009	1.011									
12/31/2006	1.015										

3 Yr Mean      1.011      1.007      1.007      1.005      1.001 @      1.002 @      1.001 @      1.000 @

Best 3/5      1.009      1.005      1.004      1.002      1.002 \*      1.002 \*      1.002 \*      1.002 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.032	1.028	1.028	1.042	1.016	1.027	1.012
12/31/2015				1.037	1.032	1.028	1.028	1.042	1.016	1.027	1.012
12/31/2016			1.046	1.037	1.032	1.028	1.028	1.042	1.016	1.027	1.012
12/31/2017		1.095	1.046	1.037	1.032	1.028	1.028	1.042	1.016	1.027	1.012
12/31/2018	1.185	1.095	1.046	1.037	1.032	1.028	1.028	1.042	1.016	1.027	1.012

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.009	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.008*	1.244
12/31/2015	1.009	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.008*	1.290
12/31/2016	1.009	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.008*	1.349
12/31/2017	1.009	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.008*	1.477
12/31/2018	1.009	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.008*	1.751

\* Calculated Using Modified Bondy Method  
@ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	3,142,541	4,977,597	5,527,609	7,197,579	8,141,449	9,579,842	11,039,408	12,035,649	12,734,940	13,067,600	13,561,726
12/31/2000	3,400,770	5,146,115	7,094,639	9,275,829	11,482,702	14,262,234	16,346,990	18,132,176	18,953,322	21,225,933	22,978,551
12/31/2001	3,489,097	5,541,713	7,596,604	10,340,541	13,626,492	16,865,666	21,643,955	23,053,258	25,546,037	25,617,725	27,154,935
12/31/2002	3,869,547	5,269,389	7,634,451	9,448,387	11,115,022	13,703,839	15,356,116	17,226,965	19,460,727	19,390,207	19,372,934
12/31/2003	4,149,510	6,037,111	7,638,180	8,422,617	9,776,188	10,377,702	11,377,578	12,070,965	12,746,610	13,596,034	13,514,320
12/31/2004	5,713,030	7,273,617	9,072,102	9,621,873	10,360,231	11,365,247	12,050,208	13,233,590	13,816,700	14,195,450	14,420,607
12/31/2005	6,367,860	8,777,525	9,741,409	10,326,087	11,626,756	12,389,964	12,824,831	13,608,783	14,235,890	14,331,722	14,545,124
12/31/2006	7,279,926	8,817,707	9,982,104	10,720,177	10,771,667	11,702,567	12,317,963	13,039,835	13,456,151	14,670,374	15,511,896
12/31/2007	9,403,204	11,511,865	11,956,531	12,390,151	13,164,956	13,680,133	14,775,331	15,475,514	16,228,583	17,474,496	17,511,929
12/31/2008	8,712,888	11,525,141	13,850,601	14,313,077	15,269,695	16,210,357	17,369,962	17,860,780	18,589,934	18,718,045	19,223,791
12/31/2009	7,979,788	10,320,500	11,838,366	12,625,681	13,654,353	15,195,568	16,397,696	16,933,219	17,598,778	18,050,046	
12/31/2010	9,056,769	10,657,449	10,911,041	11,745,824	12,597,278	12,949,027	13,227,231	14,123,135	14,480,770		
12/31/2011	8,411,352	10,340,541	11,336,352	11,446,268	12,211,032	12,892,273	13,370,415	13,812,048			
12/31/2012	7,813,203	9,214,668	9,925,070	10,448,675	11,837,770	12,473,737	12,737,058				
12/31/2013	10,344,923	12,289,236	12,950,872	13,773,169	14,353,939	15,031,095					
12/31/2014	10,480,704	12,363,373	14,118,754	15,606,041	16,471,188						
12/31/2015	12,410,417	15,384,247	16,277,335	16,843,450							
12/31/2016	13,146,314	15,132,055	17,680,734								
12/31/2017	11,707,532	14,190,927									
12/31/2018	12,594,173										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
12/31/1999	13,773,043	14,046,320	13,885,369	13,817,430	13,835,222	13,783,045	13,783,045	13,783,404	13,795,325		
12/31/2000	23,550,809	23,750,305	23,668,239	23,641,027	23,416,548	23,246,003	23,296,276	23,291,802			
12/31/2001	27,315,593	27,393,881	27,015,323	26,923,448	26,761,541	26,807,288	26,739,738				
12/31/2002	19,691,678	19,493,471	19,197,635	18,967,507	19,046,399	19,042,195					
12/31/2003	13,360,804	13,561,372	13,214,880	13,166,186	13,111,180						
12/31/2004	14,456,912	14,600,056	14,634,325	14,713,020							
12/31/2005	15,129,417	15,334,155	15,512,099								
12/31/2006	15,568,205	15,844,351									
12/31/2007	17,949,138										

COMPLETED OPERATIONS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE  
 Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.584	1.110	1.302	1.131	1.177	1.152	1.090	1.058	1.026	1.038	1.016
12/31/2000	1.513	1.379	1.307	1.238	1.242	1.146	1.109	1.045	1.120	1.083	1.025
12/31/2001	1.588	1.371	1.361	1.318	1.238	1.283	1.065	1.108	1.003	1.060	1.006
12/31/2002	1.362	1.449	1.238	1.176	1.233	1.121	1.122	1.130	0.996	0.999	1.016
12/31/2003	1.455	1.265	1.103	1.161	1.062	1.096	1.061	1.056	1.067	0.994	0.989
12/31/2004	1.273	1.247	1.061	1.077	1.097	1.060	1.098	1.044	1.027	1.016	1.003
12/31/2005	1.378	1.110	1.060	1.126	1.066	1.035	1.061	1.046	1.007	1.015	1.040
12/31/2006	1.211	1.132	1.074	1.005	1.086	1.053	1.059	1.032	1.090	1.057	1.004
12/31/2007	1.224	1.039	1.036	1.063	1.039	1.080	1.047	1.049	1.077	1.002	1.025
12/31/2008	1.323	1.202	1.033	1.067	1.062	1.072	1.028	1.041	1.007	1.027	
12/31/2009	1.293	1.147	1.067	1.081	1.113	1.079	1.033	1.039	1.026		
12/31/2010	1.177	1.024	1.077	1.072	1.028	1.021	1.068	1.025			
12/31/2011	1.229	1.096	1.010	1.067	1.056	1.037	1.033				
12/31/2012	1.179	1.077	1.053	1.133	1.054	1.021					
12/31/2013	1.188	1.054	1.063	1.042	1.047						
12/31/2014	1.180	1.142	1.105	1.055							
12/31/2015	1.240	1.058	1.035								
12/31/2016	1.151	1.168									
12/31/2017	1.212										

3 Yr Mean      1.201      1.123      1.068      1.077      1.052      1.026      1.045      1.035      1.037      1.029      1.023

Best 3/5      1.193      1.092      1.050      1.065      1.052      1.043      1.038      1.037      1.037      1.019      1.011

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.020	0.989	0.995	1.001	0.996	1.000	1.000	1.001			
12/31/2000	1.008	0.997	0.999	0.991	0.993	1.002	1.000	1.000 *			
12/31/2001	1.003	0.986	0.997	0.994	1.002	0.997	1.000 *	1.000 *			
12/31/2002	0.990	0.985	0.988	1.004	1.000	0.999 *	1.000 *	1.000 *			
12/31/2003	1.015	0.974	0.996	0.996	0.997 *	0.999 *	1.000 *	1.000 *			
12/31/2004	1.010	1.002	1.005								
12/31/2005	1.014	1.012									
12/31/2006	1.018										

3 Yr Mean      1.014      0.996      0.996      0.998      0.998 @      1.000 @      1.000 @      1.001 @

Best 3/5      1.013      0.991      0.997      0.997      0.998 \*      0.999 \*      1.000 \*      1.000 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.052	1.043	1.038	1.037	1.037	1.019	1.011
12/31/2015				1.065	1.052	1.043	1.038	1.037	1.037	1.019	1.011
12/31/2016			1.050	1.065	1.052	1.043	1.038	1.037	1.037	1.019	1.011
12/31/2017		1.092	1.050	1.065	1.052	1.043	1.038	1.037	1.037	1.019	1.011
12/31/2018	1.193	1.092	1.050	1.065	1.052	1.043	1.038	1.037	1.037	1.019	1.011

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.013	0.991	0.997	0.997	0.998	0.999	1.000	1.000	1.000*	1.255
12/31/2015	1.013	0.991	0.997	0.997	0.998	0.999	1.000	1.000	1.000*	1.337
12/31/2016	1.013	0.991	0.997	0.997	0.998	0.999	1.000	1.000	1.000*	1.404
12/31/2017	1.013	0.991	0.997	0.997	0.998	0.999	1.000	1.000	1.000*	1.533
12/31/2018	1.013	0.991	0.997	0.997	0.998	0.999	1.000	1.000	1.000*	1.829

\* Calculated Using Modified Bondy Method  
 @ Three year mean Excludes Modified Bondy ratios

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:											
A.Y.E	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	1,668,153	3,336,316	6,423,228	11,359,815	14,943,484	18,872,478	22,475,790	25,613,716	28,564,868	30,260,585	30,908,184
12/31/2000	1,766,693	4,118,532	7,955,148	12,936,180	16,843,886	21,472,254	27,802,647	31,797,032	33,570,681	36,189,547	38,084,926
12/31/2001	3,226,880	6,490,590	12,441,692	18,154,439	23,560,982	29,302,373	35,452,222	39,569,142	42,814,608	44,842,276	45,917,075
12/31/2002	2,581,677	6,833,339	13,159,921	18,902,345	23,353,458	26,527,709	29,133,819	31,455,087	34,681,377	36,361,483	37,623,838
12/31/2003	3,980,548	6,843,257	12,896,746	17,537,418	21,971,378	26,148,320	28,055,619	30,760,075	32,857,264	34,779,255	36,359,446
12/31/2004	2,907,478	6,312,396	12,432,312	18,820,466	23,132,519	27,486,354	32,181,841	36,251,739	41,917,825	45,922,525	50,549,761
12/31/2005	2,078,294	6,544,724	12,017,280	18,070,477	23,101,679	29,091,715	32,902,584	36,663,507	41,170,343	44,789,283	47,493,933
12/31/2006	4,056,419	8,910,100	16,372,653	23,646,982	30,533,489	36,573,120	42,719,189	46,378,212	53,034,326	55,954,270	58,905,773
12/31/2007	4,482,298	9,178,174	17,272,566	23,812,316	30,002,254	36,368,263	40,982,320	45,906,718	50,057,115	54,549,809	56,940,320
12/31/2008	5,357,486	12,833,987	21,319,711	31,631,934	40,623,873	46,521,177	50,243,526	53,349,509	57,231,987	59,030,697	61,184,078
12/31/2009	7,511,748	15,425,832	26,729,294	38,180,516	46,834,262	52,887,028	57,319,303	62,568,183	64,898,716	67,818,596	
12/31/2010	6,215,465	14,390,125	25,396,884	36,902,451	43,783,473	49,068,325	52,949,562	54,961,417	57,853,487		
12/31/2011	7,189,460	14,183,919	21,615,590	28,000,327	32,813,918	37,942,294	42,388,604	44,604,807			
12/31/2012	5,535,629	11,817,006	19,276,840	26,806,682	34,990,010	39,116,020	40,961,492				
12/31/2013	4,584,476	11,549,212	17,755,808	26,350,128	32,244,133	35,001,536					
12/31/2014	4,485,014	10,676,701	17,653,654	23,910,588	28,157,111						
12/31/2015	5,242,900	11,061,224	17,938,069	24,272,558							
12/31/2016	5,490,531	12,613,714	21,269,132								
12/31/2017	4,454,932	10,203,609									
12/31/2018	4,383,119										

A.Y.E	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	32,142,125	33,272,857	33,596,207	33,888,911	34,348,528	34,434,686	34,454,939	34,498,730	34,499,997
12/31/2000	40,170,887	40,271,257	40,171,695	40,453,710	40,838,032	40,920,177	40,795,783	40,806,871	
12/31/2001	46,713,802	47,012,447	47,250,589	47,692,448	48,239,176	48,396,668	48,698,540		
12/31/2002	39,337,746	40,960,608	41,148,157	42,080,692	42,821,429	43,204,983			
12/31/2003	38,081,011	38,665,391	39,588,629	40,338,114	40,531,628				
12/31/2004	55,167,421	57,139,531	58,119,898	58,462,098					
12/31/2005	48,022,351	49,245,719	49,762,119						
12/31/2006	60,346,320	61,700,418							
12/31/2007	58,641,395								

Link Ratios: 171 to Ultimate									
A.Y.E	183:171	195:183	207:195	219:207	231:219	243:231	Ult:243		
12/31/1999	1.009	1.014	1.003	1.001	1.001	1.000	1.000	*	
12/31/2000	1.007	1.010	1.002	0.997	1.000	1.000	1.000	*	
12/31/2001	1.009	1.011	1.003	1.006	1.001	1.000	1.000	*	
12/31/2002	1.023	1.018	1.009	1.002	*	1.001	1.000	*	
12/31/2003	1.019	1.005	1.011	*	1.002	*	1.001	*	
12/31/2004	1.006								
Best 3/5	1.012	1.012	1.005	*	1.002	*	1.001	*	1.000

171 to Ultimate Factor: 1.032

\* Calculated Using Modified Bondy Method

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Increments													
A.Y.E	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
12/31/1999	1,668,163	3,086,912	4,936,587	3,583,669	3,928,994	3,603,312	3,137,926	2,951,152	1,695,717	647,599	1,233,941	1,130,732	323,350
12/31/2000	2,351,839	3,836,616	4,981,032	3,907,706	4,628,368	6,330,393	3,994,385	1,773,649	2,618,866	1,895,379	2,085,961	100,370	-99,562
12/31/2001	3,263,710	5,951,102	5,712,747	5,406,543	5,741,391	6,149,849	4,116,920	3,245,466	2,027,668	1,074,799	796,727	298,645	238,142
12/31/2002	4,251,662	6,326,582	5,742,424	4,451,113	3,174,251	2,606,110	2,321,268	3,226,290	1,680,106	1,262,355	1,713,908	1,622,862	187,549
12/31/2003	2,862,709	6,053,489	4,640,672	4,433,960	4,176,942	1,907,299	2,704,456	2,097,189	1,921,991	1,580,191	1,721,565	584,380	923,238
12/31/2004	3,404,918	6,119,916	6,388,154	4,312,053	4,353,835	4,695,487	4,069,898	5,666,086	4,004,700	4,627,236	4,617,660	1,972,110	980,367
12/31/2005	4,466,430	5,472,556	6,053,197	5,031,202	5,990,036	3,810,869	3,760,923	4,506,836	3,618,940	2,704,650	528,418	1,223,368	516,400
12/31/2006	4,853,681	7,462,553	7,274,329	6,886,507	6,039,631	6,146,069	3,659,023	6,656,114	2,919,944	2,951,503	1,440,547	1,354,098	
12/31/2007	4,695,876	8,094,392	6,539,750	6,189,938	6,366,009	4,614,057	4,924,398	4,150,397	4,492,694	2,390,511	1,701,075		
12/31/2008	7,476,501	8,485,724	10,312,223	8,991,939	5,897,304	3,722,349	3,105,983	3,882,478	1,798,710	2,153,381			
12/31/2009	7,914,084	11,303,462	11,451,222	8,653,746	6,052,766	4,432,275	5,248,880	2,330,533	2,919,880				
12/31/2010	8,174,660	11,006,759	11,505,567	6,881,022	5,284,852	3,881,237	2,011,855	2,892,070					
12/31/2011	6,994,459	7,431,671	6,384,737	4,813,591	5,128,376	4,446,310	2,216,203						
12/31/2012	6,281,377	7,459,834	7,529,842	8,183,328	4,126,010	1,845,472							
12/31/2013	6,964,736	6,206,596	8,594,320	5,894,005	2,757,403								
12/31/2014	6,191,687	6,976,953	6,256,934	4,246,523									
12/31/2015	5,818,324	6,876,845	6,334,489										
12/31/2016	7,123,183	8,655,418											
12/31/2017	5,748,677												

Incremental Percentages													
A.Y.E	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
12/31/1999	0.0287	0.0531	0.0849	0.0616	0.0676	0.0620	0.0540	0.0508	0.0292	0.0111	0.0212	0.0194	0.0056
12/31/2000	0.0319	0.0521	0.0676	0.0530	0.0628	0.0859	0.0542	0.0241	0.0355	0.0257	0.0283	0.0014	-0.0014
12/31/2001	0.0451	0.0822	0.0789	0.0747	0.0793	0.0850	0.0569	0.0448	0.0280	0.0148	0.0110	0.0041	0.0033
12/31/2002	0.0594	0.0884	0.0803	0.0622	0.0444	0.0364	0.0324	0.0451	0.0235	0.0176	0.0240	0.0227	0.0026
12/31/2003	0.0436	0.0922	0.0706	0.0675	0.0636	0.0290	0.0412	0.0319	0.0293	0.0241	0.0262	0.0089	0.0141
12/31/2004	0.0422	0.0758	0.0791	0.0534	0.0539	0.0581	0.0504	0.0701	0.0496	0.0573	0.0572	0.0244	0.0121
12/31/2005	0.0609	0.0746	0.0826	0.0686	0.0817	0.0520	0.0513	0.0615	0.0494	0.0369	0.0072	0.0167	0.0070
12/31/2006	0.0500	0.0768	0.0749	0.0709	0.0622	0.0633	0.0377	0.0685	0.0301	0.0304	0.0148	0.0139	
12/31/2007	0.0460	0.0793	0.0640	0.0606	0.0623	0.0452	0.0482	0.0406	0.0440	0.0234	0.0167		
12/31/2008	0.0644	0.0731	0.0888	0.0774	0.0508	0.0321	0.0267	0.0334	0.0155	0.0185			
12/31/2009	0.0660	0.0942	0.0955	0.0721	0.0505	0.0370	0.0438	0.0194	0.0243				
12/31/2010	0.0722	0.0972	0.1016	0.0608	0.0467	0.0343	0.0178	0.0255					
12/31/2011	0.0677	0.0719	0.0618	0.0466	0.0496	0.0430	0.0214						
12/31/2012	0.0651	0.0773	0.0780	0.0848	0.0428	0.0191							
12/31/2013	0.0763	0.0680	0.0941	0.0646	0.0302								
12/31/2014	0.0707	0.0797	0.0715	0.0485									
12/31/2015	0.0575	0.0679	0.0626										
12/31/2016	0.0739	0.0898											
12/31/2017	0.0612												

Best 3/5	0.0686	0.0750	0.0707	0.0579	0.0463	0.0344	0.0306	0.0332	0.0328	0.0302	0.0192	0.0178	0.0075
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LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	5,640,125	7,221,932	8,055,559	8,625,494	8,777,928	8,432,303	8,308,730	8,429,844	8,381,635	8,399,607	8,444,616
12/31/2000	6,241,893	7,846,057	8,878,581	10,028,395	9,114,290	9,074,853	9,040,929	9,098,117	9,015,129	9,029,862	9,013,288
12/31/2001	6,156,159	7,697,139	9,047,316	9,348,983	9,229,080	9,477,420	9,527,338	9,414,451	9,459,412	9,426,291	9,474,711
12/31/2002	6,742,206	7,904,813	9,350,937	10,575,598	10,464,773	10,397,019	10,389,624	10,423,004	10,423,204	10,419,382	10,525,383
12/31/2003	4,685,836	6,556,178	8,907,379	9,498,317	9,914,560	9,824,811	9,608,111	9,501,928	9,510,106	9,595,145	9,476,207
12/31/2004	5,613,023	6,798,347	8,144,858	8,903,857	8,633,061	8,292,971	8,366,133	8,209,619	8,248,611	8,270,040	8,241,575
12/31/2005	6,094,066	6,419,364	7,839,512	7,961,490	7,857,496	7,799,132	7,787,265	7,825,588	7,718,468	7,697,337	7,697,188
12/31/2006	5,468,803	6,585,107	8,165,220	8,060,168	7,846,753	7,673,354	7,486,282	7,495,698	7,557,198	7,557,198	7,557,198
12/31/2007	5,201,096	6,085,661	7,372,132	7,290,050	7,403,475	7,343,964	7,191,507	6,969,119	6,859,510	6,874,507	6,874,507
12/31/2008	5,734,718	7,045,916	7,954,815	7,621,748	7,378,809	7,502,155	7,520,572	7,401,821	7,401,821	7,450,821	7,450,821
12/31/2009	6,515,923	7,293,853	8,861,484	8,980,255	8,885,741	8,877,591	8,805,994	8,829,750	8,833,309	8,833,309	
12/31/2010	7,165,961	8,624,516	10,319,979	10,403,977	10,700,973	10,530,937	10,486,321	10,484,377	10,484,377		
12/31/2011	6,869,010	7,909,904	8,771,702	9,287,381	9,167,732	9,019,138	8,957,329	8,844,656			
12/31/2012	4,808,486	6,082,740	7,123,457	7,430,014	7,478,687	7,439,147	7,378,280				
12/31/2013	5,276,794	6,270,021	7,096,192	7,057,264	6,940,634	6,947,707					
12/31/2014	4,988,998	5,952,292	6,355,184	6,521,458	6,518,864						
12/31/2015	5,224,079	5,537,235	6,263,232	6,755,984							
12/31/2016	3,868,575	5,202,920	6,940,214								
12/31/2017	4,055,265	5,550,470									
12/31/2018	3,982,612										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	8,424,070	8,407,121	8,506,121	8,510,922	8,515,922	8,530,922	8,530,922	8,512,724	8,512,724
12/31/2000	9,109,788	9,035,332	9,071,627	9,108,127	9,097,875	9,078,125	9,203,125	9,173,125	
12/31/2001	9,480,470	9,479,470	9,521,370	9,478,470	9,458,835	9,434,595	9,541,595		
12/31/2002	10,498,445	10,511,444	10,518,974	10,638,973	10,538,974	10,543,975			
12/31/2003	9,465,207	9,455,208	9,455,207	9,465,207	9,458,012				
12/31/2004	8,244,074	8,242,431	8,242,431	8,242,431					
12/31/2005	7,704,612	7,696,145	7,698,145						
12/31/2006	7,557,198	7,557,198							
12/31/2007	6,874,507								



LOCAL PRODUCTS (Subline Code 336)

FULL COVERAGE

MULTISTATE

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.280	1.115	1.071	1.018	0.961	0.985	1.015	0.994	1.002	1.005	0.998
12/31/2000	1.257	1.132	1.130	0.909	0.996	0.996	1.006	0.991	1.002	0.998	1.011
12/31/2001	1.250	1.175	1.033	0.987	1.027	1.005	0.988	1.005	0.996	1.005	1.001
12/31/2002	1.172	1.183	1.131	0.990	0.994	0.999	1.003	1.000	1.000	1.010	0.997
12/31/2003	1.399	1.359	1.066	1.044	0.991	0.978	0.989	1.001	1.009	0.988	0.999
12/31/2004	1.211	1.198	1.093	0.970	0.961	1.009	0.981	1.005	1.003	0.997	1.000
12/31/2005	1.053	1.221	1.016	0.987	0.993	0.998	1.005	0.986	0.997	1.000	1.001
12/31/2006	1.204	1.240	0.987	0.974	0.978	0.976	1.001	1.008	1.000	1.000	1.000
12/31/2007	1.170	1.211	0.989	1.016	0.992	0.979	0.969	0.984	1.002	1.000	1.000
12/31/2008	1.229	1.129	0.958	0.968	1.017	1.002	0.984	1.000	1.007	1.000	
12/31/2009	1.119	1.215	1.013	0.989	0.999	0.992	1.003	1.000	1.000		
12/31/2010	1.204	1.197	1.008	1.029	0.984	0.996	1.000	1.000			
12/31/2011	1.152	1.109	1.059	0.987	0.984	0.993	0.987				
12/31/2012	1.265	1.171	1.043	1.007	0.995	0.992					
12/31/2013	1.188	1.132	0.995	0.983	1.001						
12/31/2014	1.193	1.068	1.026	1.000							
12/31/2015	1.060	1.131	1.079								
12/31/2016	1.345	1.334									
12/31/2017	1.369										
3 Yr Mean	1.258	1.178	1.033	0.997	0.993	0.994	0.997	1.000	1.003	1.000	1.000
Best 3/5	1.242	1.145	1.043	0.998	0.993	0.994	0.990	1.000	1.001	1.000	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	0.998	1.012	1.001	1.001	1.002	1.000	0.998	1.000			
12/31/2000	0.992	1.004	1.004	0.999	0.998	1.014	0.997	1.000 *			
12/31/2001	1.000	1.004	0.995	0.998	0.997	1.011	1.003 *	1.000 *			
12/31/2002	1.001	1.001	1.011	0.991	1.000	0.999 *	1.003 *	1.000 *			
12/31/2003	0.999	1.000	1.001	0.999	0.999 *	0.999 *	1.003 *	1.000 *			
12/31/2004	1.000	1.000	1.000								
12/31/2005	0.999	1.000									
12/31/2006	1.000										
3 Yr Mean	1.000	1.000	1.004	0.996	0.998 @	1.008 @	0.998 @	1.000 @			
Best 3/5	1.000	1.000	1.002	0.999	0.999 *	1.003 *	1.001 *	1.000 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					0.993	0.994	0.990	1.000	1.001	1.000	1.000
12/31/2015				0.998	0.993	0.994	0.990	1.000	1.001	1.000	1.000
12/31/2016			1.043	0.998	0.993	0.994	0.990	1.000	1.001	1.000	1.000
12/31/2017		1.145	1.043	0.998	0.993	0.994	0.990	1.000	1.001	1.000	1.000
12/31/2018	1.242	1.145	1.043	0.998	0.993	0.994	0.990	1.000	1.001	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.000	1.000	1.002	0.999	0.999	1.003	1.001	1.000	1.000*	0.982
12/31/2015	1.000	1.000	1.002	0.999	0.999	1.003	1.001	1.000	1.000*	0.980
12/31/2016	1.000	1.000	1.002	0.999	0.999	1.003	1.001	1.000	1.000*	1.022
12/31/2017	1.000	1.000	1.002	0.999	0.999	1.003	1.001	1.000	1.000*	1.170
12/31/2018	1.000	1.000	1.002	0.999	0.999	1.003	1.001	1.000	1.000*	1.454

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

LOCAL PRODUCTS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	357,147	246,142	223,437	219,338	221,172	221,172	221,172	221,172	221,172	221,172	221,172
12/31/2000	313,656	527,947	556,053	475,991	500,991	490,335	486,335	487,335	487,335	486,335	521,335
12/31/2001	278,206	352,745	423,834	497,226	463,174	463,174	453,174	453,174	453,174	466,578	466,578
12/31/2002	396,353	425,131	379,361	487,852	474,098	435,359	435,358	435,358	435,358	435,358	435,358
12/31/2003	136,107	223,208	194,856	249,570	167,177	98,892	100,392	75,291	75,291	75,291	75,291
12/31/2004	426,879	386,565	768,260	1,012,432	611,871	613,151	590,752	590,751	590,751	590,751	590,751
12/31/2005	535,698	701,320	1,015,466	911,971	807,001	889,418	889,417	889,467	889,467	890,096	890,096
12/31/2006	402,493	741,418	759,635	666,429	694,212	693,655	693,655	693,655	693,655	693,655	693,655
12/31/2007	355,039	497,801	855,370	821,579	771,410	761,510	761,510	767,510	767,510	767,510	761,510
12/31/2008	525,801	362,912	467,874	427,853	351,603	368,464	367,964	367,964	367,964	367,964	367,964
12/31/2009	266,620	294,750	308,023	241,039	337,719	338,719	338,619	338,630	338,619	338,619	
12/31/2010	428,140	317,606	396,643	284,143	289,473	289,473	289,473	283,473	283,473		
12/31/2011	377,122	632,936	765,902	820,402	827,902	811,503	898,003	898,003			
12/31/2012	330,321	456,809	556,018	580,856	715,382	669,186	669,186				
12/31/2013	324,760	426,869	456,567	606,205	621,994	521,520					
12/31/2014	856,109	1,073,449	956,310	1,139,407	1,089,407						
12/31/2015	602,349	778,768	834,080	1,028,194							
12/31/2016	426,205	566,004	827,794								
12/31/2017	448,173	1,292,407									
12/31/2018	387,906										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	221,172	221,172	247,673	247,673	247,673	247,673	247,673	247,673	248,578
12/31/2000	504,435	504,936	571,270	560,254	566,376	565,418	561,417	542,080	
12/31/2001	466,578	463,774	505,428	505,428	480,116	475,915	559,769		
12/31/2002	435,358	435,358	435,358	427,858	427,858	427,858			
12/31/2003	75,291	75,291	75,291	75,291	81,916				
12/31/2004	590,754	590,751	590,751	590,751					
12/31/2005	890,096	890,096	890,096						
12/31/2006	693,655	693,685							
12/31/2007	761,510								

## LOCAL PRODUCTS (Subline Code 336)

DEDUCTIBLE

MULTISTATE

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	0.689	0.908	0.982	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2000	1.683	1.053	0.856	1.053	0.979	0.992	1.002	1.000	0.998	1.072	0.968
12/31/2001	1.268	1.202	1.173	0.932	1.000	0.978	1.000	1.000	1.030	1.000	1.000
12/31/2002	1.073	0.892	1.286	0.972	0.918	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2003	1.640	0.873	1.281	0.670	0.592	1.015	0.750	1.000	1.000	1.000	1.000
12/31/2004	0.906	1.987	1.318	0.604	1.002	0.963	1.000	1.000	1.000	1.000	1.000
12/31/2005	1.309	1.448	0.898	0.885	1.102	1.000	1.000	1.000	1.001	1.000	1.000
12/31/2006	1.842	1.025	0.877	1.042	0.999	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2007	1.402	1.718	0.960	0.939	0.987	1.000	1.008	1.000	1.000	0.992	1.000
12/31/2008	0.690	1.289	0.914	0.822	1.048	0.999	1.000	1.000	1.000	1.000	
12/31/2009	1.106	1.045	0.783	1.401	1.003	1.000	1.000	1.000	1.000		
12/31/2010	0.742	1.249	0.716	1.019	1.000	1.000	0.979	1.000			
12/31/2011	1.678	1.210	1.071	1.009	0.980	1.107	1.000				
12/31/2012	1.383	1.217	1.045	1.232	0.935	1.000					
12/31/2013	1.314	1.070	1.328	1.026	0.838						
12/31/2014	1.254	0.891	1.191	0.956							
12/31/2015	1.293	1.071	1.233								
12/31/2016	1.328	1.463									
12/31/2017	2.884										

3 Yr Mean      1.835      1.142      1.251      1.071      0.918      1.036      0.993      1.000      1.000      0.997      1.000

Best 3/5      1.312      1.119      1.165      1.018      0.972      1.000      1.000      1.000      1.000      1.000      1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231
12/31/1999	1.000	1.120	1.000	1.000	1.000	1.000	1.000	1.004
12/31/2000	1.001	1.131	0.981	1.011	0.998	0.993	0.966	0.999 *
12/31/2001	0.994	1.090	1.000	0.950	0.991	1.176	0.999 *	0.999 *
12/31/2002	1.000	1.000	0.983	1.000	1.000	0.999 *	0.999 *	0.999 *
12/31/2003	1.000	1.000	1.000	1.088	1.004 *	0.999 *	0.999 *	0.999 *
12/31/2004	1.000	1.000	1.000					
12/31/2005	1.000	1.000						
12/31/2006	1.000							

3 Yr Mean      1.000      1.000      0.994      1.013      0.996 @      1.056 @      0.983 @      1.004 @

Best 3/5      1.000      1.000      0.994      1.004      0.999 \*      0.999 \*      0.999 \*      0.999 \*

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					0.972	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2015				1.018	0.972	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2016			1.165	1.018	0.972	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2017		1.119	1.165	1.018	0.972	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2018	1.312	1.119	1.165	1.018	0.972	1.000	1.000	1.000	1.000	1.000	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	1.000	1.000	0.994	1.004	0.999	0.999	0.999	0.999	0.996*	0.962
12/31/2015	1.000	1.000	0.994	1.004	0.999	0.999	0.999	0.999	0.996*	0.980
12/31/2016	1.000	1.000	0.994	1.004	0.999	0.999	0.999	0.999	0.996*	1.141
12/31/2017	1.000	1.000	0.994	1.004	0.999	0.999	0.999	0.999	0.996*	1.277
12/31/2018	1.000	1.000	0.994	1.004	0.999	0.999	0.999	0.999	0.996*	1.676

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:

<u>A.Y.E</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	778,081	1,683,697	2,225,782	3,069,536	3,437,968	3,442,907	3,541,657	3,934,735	3,931,369	3,968,930	3,979,748
12/31/2000	1,045,243	1,520,295	2,429,255	3,731,523	4,469,662	4,828,234	4,977,128	4,920,617	4,961,264	4,979,456	5,005,127
12/31/2001	934,953	1,971,556	3,436,205	4,320,115	5,433,123	5,931,830	6,835,823	7,087,364	7,340,810	7,177,505	7,333,670
12/31/2002	1,614,509	2,423,104	3,765,270	4,502,974	5,508,908	5,847,872	5,968,163	6,118,858	6,181,039	6,184,554	6,282,700
12/31/2003	739,154	1,535,315	2,390,516	3,072,303	3,908,152	4,276,475	4,454,629	4,432,746	4,441,994	4,477,242	4,551,208
12/31/2004	683,625	1,429,228	2,426,622	3,084,970	3,618,994	3,825,965	3,968,670	4,110,763	4,108,705	4,107,920	4,108,665
12/31/2005	535,061	1,209,728	2,207,724	2,754,521	3,885,922	3,193,301	3,318,523	3,328,446	3,324,675	3,305,488	3,305,518
12/31/2006	652,567	1,564,105	2,661,008	3,729,388	4,330,201	4,747,517	4,855,758	4,812,874	4,846,184	4,841,505	4,841,505
12/31/2007	627,439	1,484,311	2,776,866	3,352,762	3,947,746	4,209,996	4,404,857	4,243,255	4,281,515	4,277,394	4,279,530
12/31/2008	563,620	1,274,355	2,586,309	3,123,872	3,357,018	3,471,156	3,542,133	3,572,329	3,586,603	3,590,643	3,590,643
12/31/2009	585,015	1,497,728	3,302,450	3,339,250	3,961,355	3,918,666	3,929,406	3,943,062	3,941,217	3,951,547	
12/31/2010	917,867	1,834,899	3,240,511	4,548,548	5,658,899	5,851,891	5,786,418	5,793,827	5,816,358		
12/31/2011	717,665	1,345,682	2,434,473	3,596,587	4,155,193	4,485,469	4,636,342	4,649,481			
12/31/2012	573,328	1,514,295	3,204,137	4,066,515	4,481,390	4,839,973	4,930,584				
12/31/2013	919,825	2,006,991	3,279,382	4,322,482	4,947,403	5,416,463					
12/31/2014	750,099	1,411,700	2,243,492	2,705,567	2,943,701						
12/31/2015	539,990	1,048,895	1,792,918	2,558,970							
12/31/2016	457,616	1,166,998	2,266,878								
12/31/2017	484,595	1,390,207									
12/31/2018	634,766										

<u>A.Y.E</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	4,011,271	4,025,072	4,216,013	4,246,726	4,194,975	4,210,736	4,224,824	4,225,201	4,225,202
12/31/2000	5,404,432	5,169,291	5,239,408	5,292,147	5,354,338	5,377,591	5,420,969	5,465,151	
12/31/2001	7,438,804	7,607,614	7,717,841	7,860,860	8,044,771	8,181,952	8,241,025		
12/31/2002	6,335,393	6,399,152	6,404,975	6,670,033	6,441,505	6,454,006			
12/31/2003	4,531,498	4,531,498	4,529,391	4,579,391	4,571,628				
12/31/2004	4,105,865	4,128,532	4,125,411	4,125,739					
12/31/2005	3,305,518	3,335,965	3,359,026						
12/31/2006	4,841,505	4,841,645							
12/31/2007	4,278,597								

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

	Increments												
A.Y.E	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	905,616	542,085	843,754	368,432	4,939	98,750	393,078	-3,366	37,561	10,818	31,523	13,801	190,941
12/31/2000	475,052	908,960	1,302,268	738,139	358,572	148,894	-56,511	40,647	18,192	25,671	399,305	-235,141	70,117
12/31/2001	1,036,603	1,464,649	883,910	1,113,008	498,707	903,993	251,541	253,446	-163,305	156,165	105,134	168,810	110,227
12/31/2002	808,595	1,342,166	737,704	1,005,934	338,964	120,291	150,695	62,181	3,515	98,146	52,693	63,759	5,823
12/31/2003	796,161	855,201	681,787	835,849	368,323	178,154	-21,883	9,248	35,248	73,966	-19,710	0	-2,107
12/31/2004	745,603	997,394	658,348	534,024	206,971	142,705	142,093	-2,058	-785	745	-2,800	22,667	-3,121
12/31/2005	674,667	997,996	546,797	1,131,401	-692,621	125,222	9,923	-3,771	-19,187	30	0	30,447	23,061
12/31/2006	911,538	1,096,903	1,068,380	600,813	417,316	108,241	-42,884	33,310	-4,679	0	0	140	
12/31/2007	856,872	1,292,555	575,896	594,984	262,250	194,861	-161,602	38,260	-4,121	2,136	-933		
12/31/2008	710,735	1,311,954	537,563	233,146	114,138	70,977	30,196	14,274	4,040	0			
12/31/2009	912,713	1,804,722	36,800	622,105	-42,689	10,740	13,656	-1,845	10,330				
12/31/2010	917,032	1,405,612	1,308,037	1,110,351	192,992	-65,473	7,409	22,531					
12/31/2011	628,017	1,088,791	1,162,114	558,606	330,276	150,873	13,139						
12/31/2012	940,967	1,689,842	862,378	414,875	358,583	90,611							
12/31/2013	1,087,166	1,272,391	1,043,100	624,921	469,060								
12/31/2014	661,601	831,792	462,075	238,134									
12/31/2015	508,905	744,023	766,052										
12/31/2016	709,382	1,099,880											
12/31/2017	905,612												

	Incremental Percentages													
A.Y.E	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159	
12/31/1999	0.0742	0.0444	0.0692	0.0302	0.0004	0.0081	0.0322	-0.0003	0.0031	0.0009	0.0026	0.0011	0.0157	
12/31/2000	0.0357	0.0684	0.0980	0.0555	0.0270	0.0112	-0.0043	0.0031	0.0014	0.0019	0.0300	-0.0177	0.0053	
12/31/2001	0.0772	0.1090	0.0658	0.0829	0.0371	0.0673	0.0187	0.0189	-0.0122	0.0116	0.0078	0.0126	0.0082	
12/31/2002	0.0470	0.0781	0.0429	0.0585	0.0197	0.0070	0.0088	0.0036	0.0002	0.0057	0.0031	0.0037	0.0003	
12/31/2003	0.0513	0.0551	0.0439	0.0538	0.0237	0.0115	-0.0014	0.0006	0.0023	0.0048	-0.0013	0.0000	-0.0001	
12/31/2004	0.0640	0.0857	0.0566	0.0459	0.0178	0.0123	0.0122	-0.0002	-0.0001	0.0001	-0.0002	0.0019	-0.0003	
12/31/2005	0.0581	0.0859	0.0471	0.0974	-0.0596	0.0108	0.0009	-0.0003	-0.0017	0.0000	0.0000	0.0026	0.0020	
12/31/2006	0.0768	0.0925	0.0901	0.0506	0.0352	0.0091	-0.0036	0.0028	-0.0004	0.0000	0.0000	0.0000		
12/31/2007	0.0666	0.1005	0.0448	0.0463	0.0204	0.0151	-0.0126	0.0030	-0.0003	0.0002	-0.0001			
12/31/2008	0.0554	0.1023	0.0419	0.0182	0.0089	0.0055	0.0024	0.0011	0.0003	0.0000				
12/31/2009	0.0703	0.1390	0.0028	0.0479	-0.0033	0.0008	0.0011	-0.0001	0.0008					
12/31/2010	0.0607	0.0930	0.0866	0.0735	0.0128	-0.0043	0.0005	0.0015						
12/31/2011	0.0439	0.0761	0.0812	0.0390	0.0231	0.0105	0.0009							
12/31/2012	0.0791	0.1421	0.0725	0.0349	0.0302	0.0076								
12/31/2013	0.0976	0.1143	0.0937	0.0561	0.0421									
12/31/2014	0.0682	0.0858	0.0476	0.0246										
12/31/2015	0.0438	0.0640	0.0659											
12/31/2016	0.0525	0.0813												
12/31/2017	0.0620													

Best 3/5	0.0609	0.0938	0.0732	0.0433	0.0220	0.0047	0.0008	0.0018	-0.0001	0.0000	-0.0001	0.0015	0.0007
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LOCAL PRODUCTS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	Link Ratios						
	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	<u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>Ult:243</u>
12/31/1999	1.007	0.988	1.004	1.003	1.000	1.000	1.019 *
12/31/2000	1.010	1.012	1.004	1.008	1.008	1.005 *	1.019 *
12/31/2001	1.019	1.023	1.017	1.007	1.005 *	1.005 *	1.019 *
12/31/2002	1.041	0.966	1.002	1.003 *	1.005 *	1.005 *	1.019 *
12/31/2003	1.011	0.998	0.999 *	1.003 *	1.005 *	1.005 *	1.019 *
12/31/2004	1.000						
Best 3/5	1.013	0.999	1.003 *	1.005 *	1.005 *	1.005 *	1.019 *

171 to Ultimate Factor: 1.050

<u>Months-to-Ultimate</u>	Cumulative Incremental Factors						
	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.303	0.242	0.148	0.075	0.031	0.009	0.005
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.004	0.002	0.002	0.002	0.002	0.001	0.000

<u>A.Y.E</u>	Reported ALAE <u>as of 3/31/19</u>	\$500,000 <u>Ultimate Indemnity</u>	ALAE <u>Factor</u>	Additional <u>ALAE</u>	ALAE at <u>171 Months</u>	171-Ultimate <u>Factor</u>	Ultimate <u>ALAE</u>
12/31/2016	2,509,692	15,512,724	0.148	2,295,882	4,805,574	1.050	5,045,702
12/31/2017	1,295,863	15,939,944	0.242	3,857,468	5,153,331	1.050	5,410,843
12/31/2018	453,054	9,717,099	0.303	2,944,277	3,397,331	1.050	3,567,056

\* Calculated Using Modified Bondy Method

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:

<u>A.Y.E.</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	1,572,065	1,987,939	2,042,232	2,211,684	2,206,231	2,199,548	2,303,744	2,276,465	2,293,317	2,238,872	2,256,844
12/31/2000	2,115,148	2,324,418	2,530,971	2,623,392	2,812,834	3,161,406	3,018,819	3,039,295	3,201,971	3,281,154	3,289,070
12/31/2001	1,627,013	1,654,011	1,972,348	2,039,048	1,900,818	1,952,852	2,119,627	2,292,203	2,299,929	2,337,585	2,345,731
12/31/2002	1,530,717	1,727,573	1,876,362	1,886,504	1,836,568	1,863,842	1,922,590	1,938,029	1,988,648	1,998,770	2,063,155
12/31/2003	1,321,533	1,887,161	2,163,441	2,172,909	2,449,305	2,450,817	2,487,331	2,501,397	2,506,543	2,547,183	2,557,986
12/31/2004	2,137,719	2,399,596	2,432,571	2,373,608	2,438,915	2,430,493	2,374,120	2,402,603	2,423,452	2,431,935	2,426,902
12/31/2005	2,865,381	3,103,309	3,333,662	3,422,623	3,483,267	3,365,079	3,378,435	3,424,923	3,434,293	3,428,003	3,428,281
12/31/2006	3,072,125	3,517,399	3,516,881	3,550,710	3,565,561	3,714,164	3,722,919	3,896,127	3,943,556	4,000,352	4,013,426
12/31/2007	2,844,645	2,853,095	2,933,768	3,269,723	3,545,542	3,514,845	3,597,290	3,574,891	3,567,151	3,540,362	3,549,074
12/31/2008	3,600,421	3,870,935	3,993,658	4,085,032	4,277,221	4,524,770	4,780,726	5,135,464	5,377,606	5,432,551	5,399,596
12/31/2009	3,534,085	3,753,341	3,751,263	3,780,076	3,763,549	3,990,026	3,999,860	4,145,232	4,210,482	4,240,123	
12/31/2010	4,401,926	4,575,257	4,861,935	4,838,710	4,442,350	4,679,912	4,681,113	4,616,073	4,635,092		
12/31/2011	4,091,786	4,327,021	4,618,039	4,544,531	4,651,918	4,844,335	4,801,436	4,878,153			
12/31/2012	3,868,440	4,015,567	3,840,908	3,695,235	3,852,599	3,849,831	3,901,446				
12/31/2013	3,562,555	3,598,755	4,135,664	4,002,305	4,028,293	4,107,933					
12/31/2014	3,323,473	3,533,086	3,456,269	3,653,060	3,622,449						
12/31/2015	4,560,156	4,854,521	5,463,196	5,478,878							
12/31/2016	4,374,337	4,459,644	4,829,183								
12/31/2017	4,261,821	4,407,193									
12/31/2018	4,851,824										
<u>A.Y.E.</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>		
12/31/1999	2,269,121	2,294,943	2,305,226	2,279,715	2,344,614	2,345,815	2,343,314	2,343,314	2,347,988		
12/31/2000	3,295,715	3,288,963	3,292,462	3,285,460	3,285,459	3,283,459	3,283,459	3,283,459			
12/31/2001	2,333,120	2,290,449	2,295,943	2,297,122	2,309,129	2,309,129	2,309,128				
12/31/2002	2,045,051	2,110,693	2,107,568	2,116,168	2,133,461	2,132,211					
12/31/2003	2,598,043	2,580,329	2,566,579	2,589,074	2,589,074						
12/31/2004	2,402,124	2,408,903	2,521,395	2,506,394							
12/31/2005	3,422,181	3,407,940	3,407,940								
12/31/2006	4,065,946	4,050,802									
12/31/2007	3,551,076										

LOCAL PRODUCTS (Subline Code 336)

FULL COVERAGE

MULTISTATE

PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	1.265	1.027	1.083	0.998	0.997	1.047	0.988	1.007	0.976	1.008	1.005
12/31/2000	1.099	1.089	1.037	1.072	1.124	0.955	1.007	1.054	1.025	1.002	1.002
12/31/2001	1.017	1.192	1.034	0.932	1.027	1.085	1.081	1.003	1.016	1.003	0.995
12/31/2002	1.129	1.086	1.005	0.974	1.015	1.032	1.008	1.026	1.005	1.032	0.991
12/31/2003	1.428	1.146	1.004	1.127	1.001	1.015	1.006	1.002	1.016	1.004	1.016
12/31/2004	1.123	1.014	0.976	1.028	0.997	0.977	1.012	1.009	1.004	0.998	0.990
12/31/2005	1.083	1.074	1.027	1.018	0.966	1.004	1.014	1.003	0.998	1.000	0.998
12/31/2006	1.145	1.000	1.010	1.004	1.042	1.002	1.047	1.012	1.014	1.003	1.013
12/31/2007	1.003	1.028	1.115	1.084	0.991	1.023	0.994	0.998	0.992	1.002	1.001
12/31/2008	1.075	1.032	1.023	1.047	1.058	1.057	1.074	1.047	1.010	0.994	
12/31/2009	1.062	0.999	1.008	0.996	1.060	1.002	1.036	1.016	1.007		
12/31/2010	1.039	1.063	0.995	0.918	1.053	1.000	0.986	1.004			
12/31/2011	1.057	1.067	0.984	1.024	1.041	0.991	1.016				
12/31/2012	1.038	0.957	0.962	1.043	0.999	1.013					
12/31/2013	1.010	1.149	0.968	1.006	1.020						
12/31/2014	1.063	0.978	1.057	0.992							
12/31/2015	1.065	1.125	1.003								
12/31/2016	1.020	1.083									
12/31/2017	1.034										

3 Yr Mean 1.040 1.062 1.009 1.014 1.020 1.001 1.013 1.022 1.003 1.000 1.004

Best 3/5 1.039 1.062 0.985 1.007 1.038 1.005 1.015 1.011 1.005 1.000 1.004

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.011	1.004	0.989	1.028	1.001	0.999	1.000	1.002			
12/31/2000	0.998	1.001	0.998	1.000	0.999	1.000	1.000	1.000 *			
12/31/2001	0.982	1.002	1.001	1.005	1.000	1.000	1.000 *	1.000 *			
12/31/2002	1.032	0.999	1.004	1.008	0.999	1.000 *	1.000 *	1.000 *			
12/31/2003	0.993	0.995	1.009	1.000	1.004 *	1.000 *	1.000 *	1.000 *			
12/31/2004	1.003	1.047	0.994								
12/31/2005	0.996	1.000									
12/31/2006	0.996										

3 Yr Mean 0.998 1.014 1.002 1.004 0.999 @ 1.000 @ 1.000 @ 1.002 @

Best 3/5 0.998 1.000 1.001 1.004 1.000 \* 1.000 \* 1.000 \* 1.000 \*

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.038	1.005	1.015	1.011	1.005	1.000	1.004
12/31/2015				1.007	1.038	1.005	1.015	1.011	1.005	1.000	1.004
12/31/2016			0.985	1.007	1.038	1.005	1.015	1.011	1.005	1.000	1.004
12/31/2017		1.062	0.985	1.007	1.038	1.005	1.015	1.011	1.005	1.000	1.004
12/31/2018	1.039	1.062	0.985	1.007	1.038	1.005	1.015	1.011	1.005	1.000	1.004

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	0.998	1.000	1.001	1.004	1.000	1.000	1.000	1.000	1.000*	1.083
12/31/2015	0.998	1.000	1.001	1.004	1.000	1.000	1.000	1.000	1.000*	1.091
12/31/2016	0.998	1.000	1.001	1.004	1.000	1.000	1.000	1.000	1.000*	1.075
12/31/2017	0.998	1.000	1.001	1.004	1.000	1.000	1.000	1.000	1.000*	1.141
12/31/2018	0.998	1.000	1.001	1.004	1.000	1.000	1.000	1.000	1.000*	1.186

\* Calculated Using Modified Bondy Method  
 @ Three year mean Excludes Modified Bondy ratios



LOCAL PRODUCTS (Subline Code 336)  
 DEDUCTIBLE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

\$100,000 Basic Limit Losses as of:											
A.Y.E.	15 Months	27 Months	39 Months	51 Months	63 Months	75 Months	87 Months	99 Months	111 Months	123 Months	135 Months
12/31/1999	120,168	311,306	312,394	277,393	303,006	287,030	267,972	267,474	274,472	267,472	267,472
12/31/2000	150,416	248,134	188,848	196,780	189,280	253,280	237,878	257,878	215,285	215,285	215,285
12/31/2001	208,337	185,152	211,169	225,824	225,824	216,726	265,726	270,726	265,727	267,726	365,726
12/31/2002	119,421	133,880	171,299	184,812	251,892	369,610	483,705	465,706	502,946	539,631	567,026
12/31/2003	298,214	270,546	283,673	398,283	518,855	600,389	644,503	716,619	797,603	987,207	1,083,677
12/31/2004	267,359	144,698	230,234	354,867	441,630	632,353	616,235	904,464	1,008,422	1,087,637	1,296,374
12/31/2005	171,817	242,042	293,021	372,892	413,788	517,693	577,501	578,079	622,969	1,071,187	1,185,450
12/31/2006	278,672	268,892	383,670	529,121	648,904	746,115	720,042	744,136	932,230	1,066,447	970,261
12/31/2007	336,478	539,242	569,442	510,576	480,010	471,031	474,898	571,898	569,048	565,826	565,826
12/31/2008	281,982	200,447	330,593	329,110	331,110	329,110	429,110	429,110	422,611	442,611	513,281
12/31/2009	177,301	176,935	144,535	143,435	143,535	250,348	250,248	350,248	350,248	350,918	
12/31/2010	258,564	260,233	259,733	263,829	357,829	357,829	357,829	357,829	357,829		
12/31/2011	280,389	309,310	282,139	303,639	281,728	291,728	283,728	283,728			
12/31/2012	261,577	237,466	244,631	252,528	238,888	263,888	268,902				
12/31/2013	484,229	529,028	523,333	708,674	689,763	739,763					
12/31/2014	399,307	500,486	493,548	589,554	564,554						
12/31/2015	651,157	644,581	623,070	644,969							
12/31/2016	899,662	1,029,846	1,085,929								
12/31/2017	827,278	1,120,224									
12/31/2018	1,186,664										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1999	267,472	267,472	267,472	267,472	267,472	267,472	267,472	267,472	267,472
12/31/2000	215,285	215,285	215,285	215,285	215,285	215,285	215,285	215,285	
12/31/2001	365,727	365,726	365,726	365,726	365,726	365,726	365,726		
12/31/2002	566,252	561,006	561,362	567,567	567,567	580,067			
12/31/2003	1,277,496	1,297,868	1,219,478	1,168,621	1,170,312				
12/31/2004	1,288,735	1,183,053	1,176,984	1,176,939					
12/31/2005	1,174,440	1,184,550	1,153,446						
12/31/2006	943,991	917,548							
12/31/2007	565,826								

LOCAL PRODUCTS (Subline Code 336)

DEDUCTIBLE

MULTISTATE

PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

A.Y.E.	27: 15	39: 27	51: 39	63: 51	75: 63	87: 75	99: 87	111: 99	123:111	135:123	147:135
12/31/1999	2.591	1.003	0.888	1.092	0.947	0.934	0.998	1.026	0.974	1.000	1.000
12/31/2000	1.650	0.761	1.042	0.962	1.338	0.939	1.084	0.835	1.000	1.000	1.000
12/31/2001	0.889	1.141	1.069	1.000	0.960	1.226	1.019	0.982	1.008	1.366	1.000
12/31/2002	1.121	1.279	1.079	1.363	1.467	1.309	0.963	1.080	1.073	1.051	0.999
12/31/2003	0.907	1.049	1.404	1.303	1.157	1.073	1.112	1.113	1.238	1.098	1.179
12/31/2004	0.541	1.591	1.541	1.244	1.432	0.975	1.468	1.115	1.079	1.192	0.994
12/31/2005	1.409	1.211	1.273	1.110	1.251	1.116	1.001	1.078	1.719	1.107	0.991
12/31/2006	0.965	1.427	1.379	1.226	1.150	0.965	1.033	1.253	1.144	0.910	0.973
12/31/2007	1.603	1.056	0.897	0.940	0.981	1.008	1.204	0.995	0.994	1.000	1.000
12/31/2008	0.711	1.649	0.996	1.006	0.994	1.304	1.000	0.985	1.047	1.160	
12/31/2009	0.998	0.817	0.992	1.001	1.744	1.000	1.400	1.000	1.002		
12/31/2010	1.006	0.998	1.016	1.356	1.000	1.000	1.000	1.000			
12/31/2011	1.103	0.912	1.076	0.928	1.035	0.973	1.000				
12/31/2012	0.908	1.030	1.032	0.946	1.105	1.019					
12/31/2013	1.093	0.989	1.354	0.973	1.072						
12/31/2014	1.253	0.986	1.195	0.958							
12/31/2015	0.990	0.967	1.035								
12/31/2016	1.145	1.054									
12/31/2017	1.354										
3 Yr Mean	1.163	1.002	1.195	0.959	1.071	0.997	1.133	0.995	1.014	1.023	0.988
Best 3/5	1.164	1.002	1.102	0.959	1.071	1.006	1.068	0.998	1.064	1.089	0.995

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/31/2000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *			
12/31/2001	1.000	1.000	1.000	1.000	1.000	1.000	1.000 *	1.000 *			
12/31/2002	0.991	1.001	1.011	1.000	1.022	1.000 *	1.000 *	1.000 *			
12/31/2003	1.016	0.940	0.958	1.001	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2004	0.918	0.995	1.000								
12/31/2005	1.009	0.974									
12/31/2006	0.972										
3 Yr Mean	0.966	0.970	0.990	1.000	1.007 @	1.000 @	1.000 @	1.000 @			
Best 3/5	0.991	0.990	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			

Development From

A.Y.E.	15/ 27	27/ 39	39/ 51	51/ 63	63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
12/31/2014					1.071	1.006	1.068	0.998	1.064	1.089	0.995
12/31/2015				0.959	1.071	1.006	1.068	0.998	1.064	1.089	0.995
12/31/2016			1.102	0.959	1.071	1.006	1.068	0.998	1.064	1.089	0.995
12/31/2017		1.002	1.102	0.959	1.071	1.006	1.068	0.998	1.064	1.089	0.995
12/31/2018	1.164	1.002	1.102	0.959	1.071	1.006	1.068	0.998	1.064	1.089	0.995

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2014	0.991	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.299
12/31/2015	0.991	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.246
12/31/2016	0.991	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.373
12/31/2017	0.991	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.375
12/31/2018	0.991	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.601

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

Allocated Expenses as of:

<u>A.Y.E</u>	<u>15 Months</u>	<u>27 Months</u>	<u>39 Months</u>	<u>51 Months</u>	<u>63 Months</u>	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>	<u>135 Months</u>
12/31/1999	175,962	337,067	603,218	766,736	829,718	913,941	1,046,577	1,114,788	1,225,802	1,299,160	1,419,449
12/31/2000	296,826	494,491	719,707	875,557	1,098,543	1,354,409	1,774,260	1,993,516	2,167,348	2,467,181	2,637,675
12/31/2001	215,738	308,467	519,028	745,233	889,414	1,124,956	1,569,336	1,900,119	1,850,659	2,030,128	2,144,753
12/31/2002	181,573	336,689	516,639	789,100	849,839	945,579	1,024,135	1,048,926	1,048,930	1,246,269	1,436,592
12/31/2003	62,113	673,928	986,248	1,144,420	1,298,178	1,335,195	1,393,897	1,481,118	1,554,563	1,656,480	1,738,610
12/31/2004	167,304	321,683	486,041	683,212	806,857	976,396	996,498	1,017,912	1,049,334	1,057,515	1,082,518
12/31/2005	253,597	339,712	638,381	830,454	883,207	971,737	1,036,702	1,160,410	1,154,925	1,154,235	1,158,544
12/31/2006	163,787	400,897	684,328	992,786	1,282,472	1,629,231	1,711,002	2,010,531	2,032,986	2,122,926	2,121,410
12/31/2007	417,051	916,386	1,275,876	1,993,790	2,327,394	2,728,898	2,688,954	2,922,085	2,992,037	2,971,434	2,844,669
12/31/2008	432,158	1,008,781	1,482,874	2,545,803	3,513,742	5,724,763	8,226,270	9,650,053	9,635,341	9,039,353	8,541,384
12/31/2009	669,778	1,158,892	1,293,628	1,325,606	1,483,463	1,554,594	1,865,411	2,047,404	2,072,131	2,083,608	
12/31/2010	206,816	417,432	737,016	1,095,412	1,201,636	1,364,842	1,570,725	1,721,918	1,747,732		
12/31/2011	375,297	711,308	1,088,123	1,469,027	1,778,030	1,798,131	1,825,741	1,945,882			
12/31/2012	243,253	514,030	871,633	1,011,844	1,209,336	1,393,816	1,505,186				
12/31/2013	421,368	564,593	819,183	1,037,223	1,260,372	1,453,214					
12/31/2014	209,021	430,370	648,625	835,804	1,031,093						
12/31/2015	421,366	854,828	1,218,105	1,494,217							
12/31/2016	316,772	623,887	951,724								
12/31/2017	434,035	697,477									
12/31/2018	449,211										

<u>A.Y.E</u>	<u>147 Months</u>	<u>159 Months</u>	<u>171 Months</u>	<u>183 Months</u>	<u>195 Months</u>	<u>207 Months</u>	<u>219 Months</u>	<u>231 Months</u>	<u>243 Months</u>
12/31/1999	1,537,925	1,607,394	1,767,931	1,890,569	1,907,615	1,908,341	1,908,403	1,908,403	1,908,403
12/31/2000	2,787,050	2,899,751	2,965,261	2,912,071	2,936,607	2,961,607	2,956,072	2,956,268	
12/31/2001	2,273,390	2,360,582	2,388,452	2,478,063	2,704,552	2,704,552	2,704,552		
12/31/2002	1,528,483	1,801,105	1,959,947	1,990,934	1,990,659	1,990,659			
12/31/2003	1,763,964	1,818,157	1,841,439	1,885,380	1,885,380				
12/31/2004	1,077,537	1,084,479	1,114,207	1,114,207					
12/31/2005	1,335,545	1,211,377	1,222,969						
12/31/2006	2,220,899	2,259,651							
12/31/2007	2,845,553								

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

	Increments												
<u>A.Y.E</u>	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	161,105	266,151	163,518	62,982	84,223	132,636	68,211	111,014	73,358	120,289	118,476	69,469	160,537
12/31/2000	197,665	225,216	155,850	222,986	255,866	419,851	219,256	173,832	299,833	170,494	149,375	112,701	65,510
12/31/2001	92,729	210,561	226,205	144,181	235,542	444,380	330,783	-49,460	179,469	114,625	128,637	87,192	27,870
12/31/2002	155,116	179,950	272,461	60,739	95,740	78,556	24,791	4	197,339	190,323	91,891	272,622	158,842
12/31/2003	611,815	312,320	158,172	153,758	37,017	58,702	87,221	73,445	101,917	82,130	25,354	54,193	23,282
12/31/2004	154,379	164,358	197,171	123,645	169,539	20,102	21,414	31,422	8,181	25,003	-4,981	6,942	29,728
12/31/2005	86,115	298,669	192,073	52,753	88,530	64,965	123,708	-5,485	-690	4,309	177,001	-124,168	11,592
12/31/2006	237,110	283,431	308,458	289,686	346,759	81,771	299,529	22,455	89,940	-1,516	99,489	38,752	
12/31/2007	499,335	359,490	717,914	333,604	401,504	-39,944	233,131	69,952	-20,603	-126,765	884		
12/31/2008	576,623	474,093	1,062,929	967,939	2,211,021	2,501,507	1,423,783	-14,712	-595,988	-497,969			
12/31/2009	489,114	134,736	31,978	157,857	71,131	310,817	181,993	24,727	11,477				
12/31/2010	210,616	319,584	358,396	106,224	163,206	205,883	151,193	25,814					
12/31/2011	336,011	376,815	380,904	309,003	20,101	27,610	120,141						
12/31/2012	270,777	357,603	140,211	197,492	184,480	111,370							
12/31/2013	143,225	254,590	218,040	223,149	192,842								
12/31/2014	221,349	218,255	187,179	195,289									
12/31/2015	433,462	363,277	276,112										
12/31/2016	307,115	327,837											
12/31/2017	263,442												

	Incremental Percentages												
<u>A.Y.E</u>	<u>27: 15</u>	<u>39: 27</u>	<u>51: 39</u>	<u>63: 51</u>	<u>75: 63</u>	<u>87: 75</u>	<u>99: 87</u>	<u>111: 99</u>	<u>123: 111</u>	<u>135: 123</u>	<u>147: 135</u>	<u>159:147</u>	<u>171:159</u>
12/31/1999	0.0569	0.0939	0.0577	0.0222	0.0297	0.0468	0.0241	0.0392	0.0259	0.0425	0.0418	0.0245	0.0567
12/31/2000	0.0470	0.0535	0.0370	0.0530	0.0608	0.0998	0.0521	0.0413	0.0713	0.0405	0.0355	0.0268	0.0156
12/31/2001	0.0296	0.0672	0.0722	0.0460	0.0751	0.1417	0.1055	-0.0158	0.0572	0.0366	0.0410	0.0278	0.0089
12/31/2002	0.0727	0.0844	0.1278	0.0285	0.0449	0.0368	0.0116	0.0000	0.0925	0.0892	0.0431	0.1278	0.0745
12/31/2003	0.2233	0.1140	0.0577	0.0561	0.0135	0.0214	0.0318	0.0268	0.0372	0.0300	0.0093	0.0198	0.0085
12/31/2004	0.0542	0.0577	0.0692	0.0434	0.0595	0.0071	0.0075	0.0110	0.0029	0.0088	-0.0017	0.0024	0.0104
12/31/2005	0.0220	0.0762	0.0490	0.0135	0.0226	0.0166	0.0316	-0.0014	-0.0002	0.0011	0.0452	-0.0317	0.0030
12/31/2006	0.0496	0.0593	0.0646	0.0606	0.0726	0.0171	0.0627	0.0047	0.0188	-0.0003	0.0208	0.0081	
12/31/2007	0.1070	0.0770	0.1539	0.0715	0.0861	-0.0086	0.0500	0.0150	-0.0044	-0.0272	0.0002		
12/31/2008	0.0943	0.0775	0.1738	0.1583	0.3616	0.4091	0.2328	-0.0024	-0.0975	-0.0814			
12/31/2009	0.1092	0.0301	0.0071	0.0353	0.0159	0.0694	0.0406	0.0055	0.0026				
12/31/2010	0.0418	0.0634	0.0711	0.0211	0.0324	0.0409	0.0300	0.0051					
12/31/2011	0.0582	0.0652	0.0660	0.0535	0.0035	0.0048	0.0208						
12/31/2012	0.0602	0.0795	0.0312	0.0439	0.0410	0.0248							
12/31/2013	0.0325	0.0577	0.0494	0.0506	0.0437								
12/31/2014	0.0447	0.0441	0.0378	0.0394									
12/31/2015	0.0606	0.0508	0.0386										
12/31/2016	0.0556	0.0593											
12/31/2017	0.0425												

Best 3/5	0.0476	0.0559	0.0419	0.0447	0.0298	0.0450	0.0402	0.0051	-0.0007	-0.0088	0.0101	0.0101	0.0093
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LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

<u>A.Y.E.</u>	Link Ratios						
	<u>183:171</u>	<u>195:183</u>	<u>207:195</u>	<u>219:207</u>	<u>231:219</u>	<u>243:231</u>	<u>Ult:243</u>
12/31/1999	1.069	1.009	1.000	1.000	1.000	1.000	1.000 *
12/31/2000	0.982	1.008	1.009	0.998	1.000	1.000 *	1.000 *
12/31/2001	1.038	1.091	1.000	1.000	1.000 *	1.000 *	1.000 *
12/31/2002	1.016	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2003	1.024	1.000	1.003 *	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2004	1.000						
Best 3/5	1.013	1.006	1.001 *	1.000 *	1.000 *	1.000 *	1.000 *

171 to Ultimate Factor: 1.020

<u>Months-to-Ultimate</u>	Cumulative Incremental Factors						
	<u>15</u>	<u>27</u>	<u>39</u>	<u>51</u>	<u>63</u>	<u>75</u>	<u>87</u>
	0.330	0.283	0.227	0.185	0.140	0.110	0.065
<u>Months-to-Ultimate</u>	<u>99</u>	<u>111</u>	<u>123</u>	<u>135</u>	<u>147</u>	<u>159</u>	<u>171</u>
	0.025	0.020	0.021	0.029	0.019	0.009	0.000

<u>A.Y.E</u>	Reported ALAE <u>as of 3/31/19</u>	\$500,000 <u>Ultimate Indemnity</u>	ALAE <u>Factor</u>	Additional <u>ALAE</u>	ALAE at <u>171 Months</u>	171-Ultimate <u>Factor</u>	Ultimate <u>ALAE</u>
12/31/2016	1,038,405	6,508,581	0.227	1,477,453	2,515,858	1.020	2,566,027
12/31/2017	751,342	6,878,888	0.283	1,946,730	2,698,072	1.020	2,751,903
12/31/2018	468,262	6,885,795	0.330	2,272,314	2,740,576	1.020	2,795,243

\* Calculated Using Modified Bondy Method

Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2014 - 2018

<u>Item *</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2014 - 2018 Mean</u>
1. Direct Losses Incurred	\$20,338,262	\$25,301,890	\$26,175,083	\$23,084,643	\$26,920,048	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,287,378	\$6,141,101	\$5,079,567	\$6,058,484	\$5,902,031	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,425,208	\$2,534,792	\$2,658,432	\$2,367,750	\$2,313,863	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,625,640	\$31,442,991	\$31,254,650	\$29,143,127	\$32,822,079	
		<u>Incurred Percentage</u>				
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.5%	8.1%	8.5%	8.1%	7.0%	8.2%
6. Selected	8.5%					

Notes: All dollar amounts are displayed in thousands.

\* Items (1) - (4) are from the special call submissions for available writers.

# LOCAL PRODUCTS / COMPLETED OPERATIONS TREND SUMMARY

(1) <u>EXPOSURE TREND</u>	<u>LOCAL PRODUCTS</u>	<u>COMPLETED OPERATIONS</u>	<u>LOCAL PRODUCTS / COMPLETED OPERATIONS COMBINED</u>
Average Annual Percent Change			
a) 7/1/2016 to 7/1/2021 AYE 12/31/2016	+ 1.3%	+ 2.7%	+ 2.6%
b) 7/1/2017 to 7/1/2021 AYE 12/31/2017	+ 1.4%	+ 2.6%	+ 2.5%
c) 7/1/2018 to 7/1/2021 AYE 12/31/2018	+ 1.3%	+ 2.2%	+ 2.1%
(2) <u>OCCURRENCE SEVERITY</u>	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>	
a) Fitted			
All Years	+ 5.7%	+ 3.5%	
Eight Years	+ 6.7%	+ 5.4%	
Six Years	+ 9.2%	+ 4.3%	
b) Selected	+ 4.0%	+ 4.5%	
(3) <u>FREQUENCY TREND</u>			
Selected	- 0.5%		

NOTE: The BI deductible trend is equal to the bodily injury trend. The PD deductible trend is equal to the property damage trend.

LOCAL PRODUCTS / COMPLETED OPERATIONS  
AVERAGE ANNUAL EXPOSURE TRENDS  
FOR ACCIDENT YEARS ENDING 12/31/2016, 12/31/2017 & 12/31/2018

(1) YEAR ENDING QUARTER*				(2) LOCAL PRODUCTS CLASS GROUP SALES EXPOSURE INDICES				(3) COMPLETED OPERATIONS CLASS GROUP PAYROLL EXPOSURE INDICES				(1) YEAR ENDING QUARTER*				(2) LOCAL PRODUCTS CLASS GROUP SALES EXPOSURE INDICES				(3) COMPLETED OPERATIONS CLASS GROUP PAYROLL EXPOSURE INDICES			
2008	1			0.962				21.143				2015	1			1.024				24.773			
	2			0.958				21.357					2			1.026				24.921			
	3			0.956				21.604					3			1.028				25.023			
	4			0.957				21.880					4			1.030				25.178			
2009	1			0.961				22.128				2016	1			1.030				25.318			
	2			0.966				22.349					2			1.031				25.487			
	3			0.969				22.502					3			1.030				25.730			
	4			0.968				22.653					4			1.030				25.941			
2010	1			0.964				22.806				2017	1			1.033				26.147			
	2			0.962				22.928					2			1.034				26.313			
	3			0.962				23.080					3			1.037				26.511			
	4			0.965				23.208					4			1.040				26.704			
2011	1			0.968				23.312				2018	1			1.043				26.943			
	2			0.973				23.427					2			1.048				27.193			
	3			0.978				23.556					3			1.052				27.435			
	4			0.982				23.638					4			1.056				27.712			
2012	1			0.986				23.715				2019	1			1.059				27.933			
	2			0.990				23.794					2			1.062				28.157			
	3			0.995				23.873					3P			1.064				28.325			
	4			1.000				23.965					4P			1.067				28.475			
2013	1			1.004				24.062				2020	1P			1.071				28.653			
	2			1.006				24.140					2P			1.074				28.821			
	3			1.008				24.167					3P			1.076				29.007			
	4			1.010				24.208					4P			1.079				29.168			
2014	1			1.012				24.299				2021	1P			1.082				29.303			
	2			1.016				24.405					2P			1.087				29.417			
	3			1.019				24.538					3P			1.093				29.521			
	4			1.022				24.663					4P			1.099				29.627			
CHANGE IN EXPOSURES				LOCAL PRODUCTS				COMPLETED OPERATIONS															
7/1/2016 to 7/1/2021				(2021:4/2016:4)				1.067				1.142											
7/1/2017 to 7/1/2021				(2021:4/2017:4)				1.057				1.109											
7/1/2018 to 7/1/2021				(2021:4/2018:4)				1.041				1.069											
AVERAGE ANNUAL TREND FACTOR																							
7/1/2016 to 7/1/2021				( 5.0 YRS )				1.013				1.027											
7/1/2017 to 7/1/2021				( 4.0 YRS )				1.014				1.026											
7/1/2018 to 7/1/2021				( 3.0 YRS )				1.013				1.022											

\* Projected values are identified by a 'P' in column (1).

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# OCCURRENCE SEVERITY TREND

## MULTISTATE LOCAL PRODUCTS/COMPLETED OPERATIONS Calculation of Annual Trend Factor Based on Average Occurrence Severity Full Coverage Occurrence Data Monoline and Multiline Combined

### Bodily Injury

(1) Accident Year Ending	(2) Basic Limit Paid Losses *	(3) Paid Occurrences	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				10 Year	8 Year	6 Year
12/31/2009	\$35,775,810	1,479	\$24,189	\$24,191		
12/31/2010	44,999,023	1,604	28,054	25,560		
12/31/2011	40,432,132	1,479	27,337	27,007	\$25,780	
12/31/2012	40,816,210	1,424	28,663	28,536	27,512	
12/31/2013	42,848,649	1,487	28,816	30,151	29,360	\$27,244
12/31/2014	35,063,622	1,278	27,436	31,857	31,333	29,759
12/31/2015	36,960,783	1,120	33,001	33,660	33,438	32,506
12/31/2016	33,354,717	938	35,559	35,566	35,684	35,507
12/31/2017	35,206,034	911	38,645	37,579	38,081	38,785
12/31/2018	36,539,341	852	42,887	39,706	40,640	42,366

Goodness of Fit Statistic, R-Squared: 0.861 0.871 0.931

Average Annual Severity Trend (10 yr) + 5.7%

Average Annual Severity Trend ( 8 yr) + 6.7%

Average Annual Severity Trend ( 6 yr) + 9.2%

Selected Annual Severity Trend + 4.0%

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors.

(See Section B - Explanation of Trend Calculation).

# OCCURRENCE SEVERITY TREND

## MULTISTATE LOCAL PRODUCTS/COMPLETED OPERATIONS Calculation of Annual Trend Factor Based on Average Occurrence Severity Full Coverage Occurrence Data Monoline and Multiline Combined

### Property Damage

(1) Accident Year Ending	(2) Basic Limit Paid Losses *	(3) Paid Occurrences	(4) (2)/(3) Actual Severity	(5) Exponential Curve of Best Fit to Col (4)		
				10 Year	8 Year	6 Year
12/31/2009	\$171,599,073	5,363	\$31,997	\$27,870		
12/31/2010	162,088,894	5,596	28,965	28,832		
12/31/2011	143,780,168	5,451	26,377	29,827	\$27,455	
12/31/2012	138,274,454	4,775	28,958	30,856	28,935	
12/31/2013	125,890,106	4,034	31,207	31,922	30,495	\$31,484
12/31/2014	120,542,044	3,736	32,265	33,023	32,140	32,847
12/31/2015	130,180,780	3,786	34,385	34,163	33,873	34,268
12/31/2016	140,771,027	3,764	37,399	35,343	35,699	35,752
12/31/2017	136,155,412	3,595	37,874	36,563	37,624	37,299
12/31/2018	135,142,338	3,604	37,498	37,825	39,652	38,914
Goodness of Fit Statistic, R-Squared:				0.684	0.938	0.886
Average Annual Severity Trend (10 yr)				+ 3.5%		
Average Annual Severity Trend ( 8 yr)				+ 5.4%		
Average Annual Severity Trend ( 6 yr)				+ 4.3%		
Selected Annual Severity Trend				+ 4.5%		

\* Including basic indemnity and allocated loss adjustment expense developed separately to an ultimate settlement basis.

NOTE: Trends are based on reported paid full coverage data developed to ultimate using paid development factors.

(See Section B - Explanation of Trend Calculation).

LOCAL PRODUCTS/COMPLETED OPERATIONS

FREQUENCY TREND  
MULTISTATE

Manual Classes (Full and Deductible Coverage)  
Monoline and Multiline Combined  
CGL Policies Only

Bodily Injury and Property Damage Combined

(1) Accident Year <u>Ending</u>	(2) Aggregate Loss Costs at <u>Current Level</u>	(3) Occurrences at Ultimate <sup>1</sup>	(4) Occurrence Frequency <u>(3)/(2)<sup>2</sup></u>
12/31/2005	\$ 263,801,627	7,217	27.36
12/31/2006	281,792,381	7,723	27.41
12/31/2007	281,008,214	7,678	27.32
12/31/2008	272,513,895	8,121	29.80
12/31/2009	260,718,485	8,145	31.24
12/31/2010	250,758,243	8,695	34.67
12/31/2011	252,148,652	8,334	33.05
12/31/2012	253,424,520	7,887	31.12
12/31/2013	255,938,198	7,534	29.44
12/31/2014	261,472,662	6,893	26.36
12/31/2015	270,738,295	6,705	24.77
12/31/2016	285,133,839	6,714	23.55
12/31/2017	297,471,141	6,484	21.80
12/31/2018	297,800,338	6,284	21.10

Selected Annual Frequency Trend: - 0.5%

<sup>1</sup> Occurrences are based on reported paid amounts developed to ultimate using paid development factors.

<sup>2</sup> Frequency is per \$1,000,000 Aggregate Loss Costs at Current Level.

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes

The following are definitions of the columns for the Local Products/Completed Operations calculation of proposed loss costs shown on pages G-55-61.

Column (1) is the latest year multistate Monoline/Multiline Aggregate Loss Costs at Current Level (ALCCL) for the respective class.

Column (2) is the five year multistate Monoline/Multiline Aggregate Loss Costs at Current Level.

Column (3) is the five year Monoline/Multiline Experience Ratio. Losses are developed and trended, and ALCCL has been exposure trended. IPMFs and Deductible Discounts have been applied to ALCCL.

Column (4) is the credibility ( $Z_i$ ) of the individual class with respect to the class group. This is calculated based on the equation:

$$Z_i = \frac{K-3}{K} \left( \frac{\bar{P}_i}{\bar{P}_i + \frac{\Sigma^2}{T^2}} \right) + \frac{3}{K}$$

$K$  = The number of classes within the class group.

$\bar{P}_i$  = The 5 year total Mono / Multi ALCCL for class  $i$ .

$\Sigma^2$  = The average within class variance for the class group. (Sigma Squared)

$T^2$  = The between class variance for the class group. (Tau Squared)

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes (Cont'd)

Column (5) is the Formula Experience Ratio. This is found by credibility weighting the class experience ratio with the class group experience ratio and is based on the equation:

$$FER_i = Z_i \bar{X}_i + (1 - Z_i) \bar{X} \quad \text{where:}$$

$\bar{X}_i$  = The 5 year average experience ratio for class  $i$  from column (3).

$$\bar{X} = \frac{\sum_{i=1}^K Z_i \bar{X}_i}{\sum_{i=1}^K Z_i}$$

Column (6) is the Index or the class relative change factor, which is the quotient of the Formula Experience Ratio ( $FER_i$ ) and  $\tilde{X}_{\text{monoline}}$  which is the column (5) total using column (1) as weights.

Note:  $\tilde{X}$  (X - tilde) is the 5 year Mono / Multi ALCCCL weighted class group experience ratio, where

$\tilde{X}_{\text{monoline}}$  (X - tilde monoline) is weighted based on monoline / multiline ALCCCL for the latest year only.

Column (7) is the change factor, which is to be applied to the present loss cost. The formula for this is given as:

Change Factor = (Index) (Class Group Relative Change) (SWRL) (Off balance factor)

where "SWRL" equals the selected state monoline loss cost level change.

The off balance factor of 1.000 results from capping.

## CLASS GROUPS AND CALCULATION OF PROPOSED CLASS LOSS COSTS

### Explanatory Notes (Cont'd)

Column (8) is the percent change of the proposed state occurrence loss cost (column (10)) for each class with respect to the current state occurrence loss cost (column (9)).

Column (9) is the current state occurrence loss cost for each class.

Column (10) is the proposed state occurrence loss cost for each class.

LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 01

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .961 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
10100	183721	778337	1.16995	.2309	1.016	1.025	1.142	13.6	.066	.075
10145	71938	500346	.47646	.1847	.879	.887	.988	0.0	.014	.014
10146	23866	220214	.66245	.1321	.930	.938	1.045	4.3	.023	.024
10352	42328	188072	.56361	.1256	.919	.927	1.032	3.2	.094	.097
11039	374049	1895071	1.01065	.3736	.985	.994	1.107	10.7	.075	.083
11258	16999	76825	.28525	.1024	.900	.908	1.011	1.0	.206	.208
11259	77	1948	.00000	.0861	.887	.895	.997	0.0	.137	.137
11288	93583	400280	1.02099	.1666	.979	.988	1.100	10.3	.107	.118
12374	285470	1275302	.96029	.3017	.967	.976	1.087	8.8	.068	.074
12375	164761	730975	.94732	.2234	.965	.974	1.085	7.7	.052	.056
13673	297191	1872355	1.31428	.3713	1.098	1.108	1.234	25.0	.016	.020
13720	25168	155637	.69308	.1190	.937	.946	1.054	6.2	.065	.069
14401	58047	203843	1.05317	.1288	.981	.990	1.103	10.3	.145	.160
15224	91797	542986	.76765	.1921	.931	.939	1.046	4.2	.071	.074
16900	513731	2400720	1.14807	.4222	1.045	1.054	1.174	17.5	.097	.114
16901	1835997	9558325	.99758	.7245	.990	.999	1.113	11.0	.127	.141
16902	151902	658861	.70561	.2117	.914	.922	1.027	2.3	.088	.090
16905								17.5	.097	.114
16906								11.0	.127	.141
16910	3241269	13505756	.97740	.7862	.976	.985	1.097	9.9	.081	.089
16911	170958	926182	1.06307	.2534	.994	1.003	1.117	12.3	.057	.064
16915	97086	438194	.92683	.1736	.963	.972	1.083	8.7	.069	.075
16916	873717	4551318	.97359	.5655	.972	.981	1.093	8.8	.057	.062
16920	15140	57625	1.50341	.0983	1.023	1.032	1.149	15.0	.153	.176
16921	2151	5691	.00000	.0870	.886	.894	.996	0.0	.069	.069
16930	91626	266500	2.20282	.1412	1.144	1.154	1.285	29.4	.201	.260
16931	38018	117928	2.60070	.1111	1.151	1.161	1.293	29.2	.089	.115
16940	1468	3729	.00000	.0865	.886	.894	.996	0.0	.069	.069
16941	30167	79022	.50612	.1029	.923	.931	1.037	3.9	.129	.134
18435	355075	1320539	1.30363	.3075	1.073	1.083	1.206	20.5	.088	.106
18436	17006	86674	.00000	.1045	.869	.877	.977	-2.0	.147	.144
18501	400288	2023582	.81842	.3867	.912	.920	1.025	0.0	.017	.017
45900	66968	443032	.00137	.1744	.801	.808	.900	-10.3	.058	.052
49617	482056	1953941	1.28667	.3797	1.090	1.100	1.225	22.4	.183	.224
57001	27264	122672	3.02360	.1121	1.200	1.211	1.349	34.4	.032	.043

X-TILDE: 1.009 X-TILDE (MONOLINE): .991 PI-TILDE: .0049215  
 TAU SQUARED: .03000 SIGMA SQUARED: 123671.51862

L - CAPPED DOWN  
 U - CAPPED UP  
 N - NOT SUBJECT TO CAPPING  
 E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 02

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.034 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
10026	6589	38425	.00000	.0655	.966	.872	1.045	4.5	.022	.023
10042	1738661	6251219	1.18312	.6002	1.123	1.014	1.215	21.7	.460	.560
10060	2942	15398	.00000	.0608	.971	.876	1.050	5.6	.071	.075
10065	18329	122607	1.53780	.0821	1.075	.970	1.162	17.6	.034	.040
10066	4037	15251	.00000	.0608	.971	.876	1.050	5.6	.072	.076
10071	630650	2935587	1.11447	.4245	1.068	.964	1.155	15.7	.115	.133
10073	10661728	44288461	1.14398	.9112	1.134	1.023	1.226	23.1	.520	.640
10075	1315	7423	.73515	.0592	1.016	.917	1.099	11.6	.233	.260
10107	56692	290896	2.33059	.1137	1.181	1.066	1.278	27.6	.290	.370
10115	79926	338952	.69302	.1223	.992	.895	1.073	7.5	.107	.115
10309	16361	172799	.15275	.0918	.953	.860	1.031	5.0	.020	.021
11020	6961	42692	.75579	.0663	1.015	.916	1.098	9.8	.174	.191
11127	104811	462700	.96176	.1437	1.023	.923	1.106	10.0	.010	.011
11128	47670	190949	1.11939	.0952	1.042	.940	1.127	13.0	.092	.104
11204	13794	58044	.04037	.0694	.965	.871	1.044	4.6	1.970	2.060
11234	34263	150836	.26117	.0876	.966	.872	1.045	4.0	.075	.078
12014	27531	166956	.12113	.0907	.951	.858	1.028	2.1	.047	.048
12356	8999	48728	1.06216	.0676	1.036	.935	1.121	11.4	.035	.039
12510	8628	37727	.00000	.0653	.966	.872	1.045	3.1	.032	.033
12805	1028057	4832791	1.05672	.5402	1.046	.944	1.131	13.3	.143	.162
13351	633544	4180382	1.38008	.5060	1.209	1.091	1.307	30.8	.039	.051
13352	6810	19657	.00000	.0617	.970	.875	1.049	5.5	.055	.058
13506	122727	468289	.62822	.1447	.975	.880	1.055	5.4	.092	.097
13507	67413	269701	.00792	.1098	.921	.831	.996	-0.4	.229	.228
13716	835236	3552476	.88781	.4680	.965	.871	1.044	4.5	.154	.161
13759	23783	143685	.01387	.0862	.946	.854	1.023	2.5	.163	.167
14101	13159	80358	1.65125	.0739	1.079	.974	1.167	16.0	.050	.058
14279	132815	566363	1.01257	.1609	1.030	.930	1.115	11.7	.077	.086
14913	70229	328298	1.53801	.1204	1.094	.987	1.183	18.4	.152	.180
15538	10974	118019	.05772	.0812	.955	.862	1.033	6.3	.016	.017
15600	5768	40538	.44958	.0659	.995	.898	1.076	7.1	.098	.105
15608	939	4815	.00000	.0587	.973	.878	1.052	9.1	.011	.012
15839	31124	182552	.82123	.0936	1.014	.915	1.097	10.3	.029	.032
15991	46330	218293	.63096	.1003	.993	.896	1.074	7.2	.097	.104
15993	6359	34360	.44290	.0647	.996	.899	1.077	8.1	.062	.067
16403	67269	390324	2.71871	.1313	1.255	1.133	1.358	36.1	.133	.181
16676	1344	6240	.00000	.0590	.973	.878	1.052	6.3	.016	.017

X-TILDE: 1.124 X-TILDE (MONOLINE): 1.108 PI-TILDE: .0025715  
 TAU SQUARED: .03415 SIGMA SQUARED: 157296.23342

L - CAPPED DOWN  
 U - CAPPED UP  
 N - NOT SUBJECT TO CAPPING  
 E - SUBJECT TO CAPPING EXCEPTION



## LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 02

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.034 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
18078	89632	667877	.05932	.1770	.861	.777	.931	-7.2	.167	.155
18109	536	2288	.00000	.0582	.974	.879	1.053	5.3	.038	.040
18110	38688	294297	1.40566	.1143	1.076	.971	1.164	15.6	.032	.037
18206	367433	2502468	1.30811	.3894	1.141	1.030	1.234	23.5	.102	.126
18335	9472	53268	.11868	.0685	.971	.876	1.050	4.8	.021	.022
18506	28	288	.00000	.0578	.974	.879	1.053	0.0	.007	.007
18507	1478	8667	.00000	.0595	.972	.877	1.051	10.0	.010	.011
18708	9499	47282	11.57011	.0673	1.743	1.573	1.885	40.0	.015	.021
18834	8468	35778	.00000	.0650	.967	.873	1.046	4.4	.159	.166
18911	5711	33285	.39583	.0645	.993	.896	1.074	8.3	.024	.026
18912	1208	6229	1.13293	.0590	1.040	.939	1.125	12.9	.031	.035
18920	416	6337	.34780	.0590	.993	.896	1.074	9.5	.021	.023
45819	669827	3173633	1.00352	.4421	1.020	.921	1.104	10.7	.075	.083
49618	499	1954	3.33163	.0581	1.167	1.053	1.262	25.9	.058	.073
49619	238858	1050425	1.13938	.2327	1.058	.955	1.144	14.2	.127	.145

U

X-TILDE: 1.124      X-TILDE (MONOLINE): 1.108      PI-TILDE: .0025715  
 TAU SQUARED: .03415      SIGMA SQUARED: 157296.23342

L - CAPPED DOWN  
 U - CAPPED UP  
 N - NOT SUBJECT TO CAPPING  
 E - SUBJECT TO CAPPING EXCEPTION

LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 11

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.021 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)	
92053	0	0	.00000	.0000	.961	1.000	1.183	18.9	.530	.630	
92054	0	15	.00000	.1250	.841	.844	.999	0.0	.239	.239	
92055	270	2730	.00000	.1254	.840	.843	.998	0.0	.280	.280	
95124	589073	3837022	1.31489	.4453	1.118	1.121	1.327	32.8	.670	.890	
98303	113804	378776	.26075	.1722	.840	.843	.998	-0.2	9.050	9.030	
98304	2750334	11827672	.93529	.6853	.943	.946	1.119	11.9	3.690	4.130	
98305	3005994	12416059	1.15103	.6950	1.093	1.096	1.297	29.8	1.710	2.220	
98306	11047	64236	.74545	.1334	.932	.935	1.106	10.2	.880	.970	
98307	2615	9782	.20272	.1263	.865	.868	1.027	3.5	.570	.590	
98308	407293	2155913	1.73092	.3394	1.222	1.226	1.451	41.0	.830	1.170	U
98309	32156	125760	.05991	.1413	.833	.836	.989	-0.9	2.190	2.170	
98344	68610	262216	1.64239	.1582	1.069	1.072	1.269	27.1	.850	1.080	
98449	2586326	10783308	1.04448	.6664	1.017	1.020	1.207	20.6	25.200	30.400	
98805	223535	999074	1.25945	.2394	1.032	1.035	1.225	22.6	1.240	1.520	
98813	503818	2235196	.41231	.3453	.771	.773	.915	-8.6	2.330	2.130	
98967	1569476	5807294	1.50294	.5331	1.250	1.254	1.484	40.9	9.440	13.300	U
99003	56346	204705	1.00829	.1512	.968	.971	1.149	15.0	1.670	1.920	
99826	26539	142725	1.73949	.1434	1.072	1.075	1.272	27.5	.510	.650	
99827	83671	462822	.44038	.1820	.866	.869	1.028	3.4	.580	.600	
99948	3661483	12481879	.88167	.6960	.906	.909	1.076	7.7	32.500	35.000	
99952	598317	1869528	.84155	.3171	.923	.926	1.096	9.4	21.300	23.300	
99953	224224	965928	1.32011	.2361	1.046	1.049	1.241	24.1	11.200	13.900	
99954	220926	923839	.57992	.2318	.872	.875	1.035	3.5	11.300	11.700	
99955	972078	4094728	.55872	.4586	.776	.778	.921	-7.9	9.520	8.770	

X-TILDE: 1.026 X-TILDE (MONOLINE): .997 PI-TILDE: .0073548  
 TAU SQUARED: .03000 SIGMA SQUARED: 199329.19538

L - CAPPED DOWN  
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 N - NOT SUBJECT TO CAPPING  
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LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 12

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.002 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
91111	2157574	10797684	.86652	.5064	.922	.947	1.100	10.1	6.660	7.330
91150	1017837	4763191	1.05085	.3260	1.003	1.030	1.196	19.5	5.380	6.430
91155	5370861	19798315	1.11665	.6473	1.068	1.097	1.274	27.5	36.700	46.800
91340	27009141	104076239	.90174	.9039	.909	.933	1.084	8.8	10.200	11.100
91341	11207622	42335204	1.06574	.7943	1.048	1.076	1.250	25.1	5.020	6.280
91342	13103527	50840297	.87796	.8222	.896	.920	1.068	6.8	4.110	4.390
91343	507470	1849031	1.25326	.1815	1.029	1.056	1.226	22.8	1.970	2.420
91436	356288	1250635	.96526	.1438	.977	1.003	1.165	16.4	3.300	3.840
91507	49205	205081	.02892	.0689	.914	.938	1.089	8.8	4.320	4.700
91551	1004093	3772549	1.22101	.2830	1.048	1.076	1.250	25.3	.830	1.040
91555	136581	708543	.52306	.1065	.931	.956	1.110	10.7	1.120	1.240
91560	17211795	61345677	.85713	.8478	.876	.899	1.044	4.5	5.580	5.830
91577	2225859	7477817	1.18865	.4212	1.067	1.095	1.272	27.2	3.570	4.540
91746	3836859	13383932	1.07418	.5572	1.032	1.060	1.231	23.1	6.500	8.000
92101	876771	2904688	1.22461	.2405	1.038	1.066	1.238	23.8	3.900	4.830
92102	535234	2456630	1.64648	.2165	1.124	1.154	1.340	34.1	3.430	4.600
92215	8490268	42781139	.90245	.7959	.918	.943	1.095	9.6	2.920	3.200
92338	4381176	18447686	1.21185	.6315	1.126	1.156	1.342	34.3	1.810	2.430
92446	672631	1413073	.38916	.1544	.888	.912	1.059	5.9	2.550	2.700
92447	72680	237068	.94077	.0714	.976	1.002	1.164	16.2	2.340	2.720
92451	3140293	12629490	1.00788	.5435	.995	1.022	1.187	18.6	2.690	3.190
92478	22637385	79965152	.88722	.8787	.898	.922	1.071	7.3	2.480	2.660
94007	11787832	41159561	.94971	.7897	.956	.982	1.140	14.0	6.050	6.900
94276	1637480	8018380	.89214	.4370	.941	.966	1.122	12.1	4.700	5.270
94569	2914845	12374307	1.10419	.5387	1.047	1.075	1.248	24.8	4.160	5.190
95410	8295101	32029820	.87527	.7458	.902	.926	1.075	7.4	3.640	3.910
95455	398957	2390488	.18138	.2129	.809	.831	.965	-3.3	2.110	2.040
95505	82296	437365	1.62394	.0866	1.035	1.063	1.234	23.3	2.230	2.750
95625	1595319	5722488	1.20868	.3630	1.062	1.090	1.266	26.6	3.910	4.950
95647	35131139	124924344	1.05818	.9186	1.052	1.080	1.254	25.4	7.520	9.430
96053	662769	2200468	1.04293	.2021	.992	1.018	1.182	18.2	5.660	6.690
96410	1872230	7300347	.95555	.4158	.969	.995	1.156	15.7	10.200	11.800
96611	426029	1300384	.45315	.1471	.902	.926	1.075	7.4	2.290	2.460
97447	7433367	31836485	1.14969	.7447	1.106	1.136	1.319	31.8	4.620	6.090
97650	421282	1809657	.94485	.1791	.973	.999	1.160	16.1	3.850	4.470
97651	401095	1427407	.74983	.1553	.944	.969	1.125	12.5	4.570	5.140
97652	57565	225743	.86747	.0705	.971	.997	1.158	15.9	5.550	6.430

X-TILDE: .971 X-TILDE (MONOLINE): .974 PI-TILDE: .0033055  
 TAU SQUARED: .03000 SIGMA SQUARED: 352319.79715

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LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 12

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.002 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
97653	1148869	3366738	1.09313	.2637	1.009	1.036	1.203	20.3	3.950	4.750
97654	104474	375525	.64035	.0820	.951	.976	1.133	13.4	3.890	4.410
97655	1760490	6479959	1.02993	.3895	.999	1.026	1.192	19.2	5.370	6.400
98002	12255	96701	.00000	.0604	.920	.945	1.097	10.0	1.000	1.100
98482	26102688	101923682	.97286	.9021	.973	.999	1.160	16.0	7.920	9.190
98483	33212235	124355014	1.01068	.9183	1.008	1.035	1.202	20.2	21.800	26.200
98502	435920	1594169	.96036	.1659	.976	1.002	1.164	16.4	4.460	5.190
98636	2262324	9268415	.73065	.4705	.862	.885	1.028	2.8	4.260	4.380
98677	5141995	20623918	.92242	.6563	.942	.967	1.123	12.2	11.500	12.900
98678	3378322	12463154	1.06490	.5404	1.026	1.053	1.223	22.4	15.200	18.600
98806	812539	3101854	1.04928	.2506	.997	1.024	1.189	18.9	4.450	5.290
98820	3633800	15672931	.89735	.5942	.931	.956	1.110	11.1	3.710	4.120
98884	1767618	9632439	1.26532	.4795	1.116	1.146	1.331	33.3	1.500	2.000
99004	37402	157342	.08413	.0652	.921	.946	1.099	10.2	1.770	1.950
99080	1696628	5395782	.56172	.3509	.833	.855	.993	-0.9	11.600	11.500
99315	1317217	4952031	1.56135	.3336	1.173	1.204	1.398	39.7	2.140	2.990
99321	3126827	10822988	.82078	.5070	.899	.923	1.072	7.1	3.400	3.640
99613	1706746	5926111	.85025	.3704	.931	.956	1.110	11.1	3.060	3.400
99650	637942	2545885	1.11164	.2214	1.009	1.036	1.203	20.2	1.290	1.550
99746	3084231	15150902	1.00259	.5863	.993	1.020	1.185	18.6	2.900	3.440

X-TILDE: .971 X-TILDE (MONOLINE): .974 PI-TILDE: .0033055  
 TAU SQUARED: .03000 SIGMA SQUARED: 352319.79715

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LOSS COST % CHANGE BY CLASS

SUBLINE: LOCAL PRODUCTS/COMPLETED OPERATIONS

CLASS GROUP: 13

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* .950 \* 1.159

CLASS	AYE 2018 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	FORMULA ER (5)	INDEX (6)	CHANGE FACTOR (7)	STATE- WIDE % CHANGE (8)	PRESENT STATEWIDE OCCUR (9)	PROPOSED STATEWIDE OCCUR (10)
91125	74438	139737	.07266	.1489	.728	.857	.944	-5.6	3.060	2.890
91127	1276596	4773007	.73729	.6226	.777	.915	1.007	0.5	1.920	1.930
91235	675121	3041552	.95348	.5234	.901	1.061	1.168	16.9	3.610	4.220
91265	33390	110476	.00758	.1421	.724	.853	.939	-6.0	3.830	3.600
91266	273235	821298	1.53450	.2815	1.038	1.223	1.347	34.4	1.280	1.720
91280	7596	54840	2.57788	.1288	1.067	1.257	1.384	38.3	2.400	3.320
94381	1984924	7622279	.87397	.7188	.865	1.019	1.122	12.1	13.200	14.800
94404	155843	371631	.59514	.1992	.794	.935	1.029	2.9	7.120	7.330
95310	455212	2090369	.38011	.4431	.638	.751	.827	-17.6	1.480	1.220
96408	1761700	5288069	1.11838	.6446	1.021	1.203	1.325	32.3	15.800	20.900
96409	2628541	10621976	.78569	.7783	.798	.940	1.035	3.6	13.800	14.300
97221	729055	3863495	1.03719	.5763	.955	1.125	1.239	24.0	1.210	1.500
97222	5079350	19953952	.73614	.8663	.750	.883	.972	-2.6	2.650	2.580
97223	3135468	15723791	1.06701	.8370	1.031	1.214	1.337	33.7	3.320	4.440
98152	542111	2652442	1.40336	.4936	1.120	1.319	1.452	40.3	.670	.940
98157	90366	376387	1.24115	.2001	.923	1.087	1.197	20.3	.590	.710
98163	3520	5068	.00000	.1166	.745	.878	.967	-3.0	.330	.320
98164	9307	99458	.00000	.1395	.726	.855	.941	-5.7	.106	.100
98659	300	1621	.00000	.1158	.746	.879	.968	-3.4	.590	.570
98914	651	3472	.00000	.1162	.745	.878	.967	-3.2	.630	.610
98949	5495	17554	.00000	.1197	.742	.874	.962	-4.8	.420	.400
98993	1462487	7739452	.65662	.7217	.709	.835	.919	-8.1	5.060	4.650
99163	11616	9273	.00000	.1177	.744	.876	.965	-4.1	.730	.700
99803	5936	54745	1.64638	.1288	.947	1.115	1.228	23.0	9.590	11.800
99946	3028756	14962218	.76881	.8303	.781	.920	1.013	1.4	2.930	2.970
99969	768765	3713724	.95875	.5675	.909	1.071	1.179	18.1	2.490	2.940

U

X-TILDE: .863 X-TILDE (MONOLINE): .849 PI-TILDE: .0068929  
TAU SQUARED: .03000 SIGMA SQUARED: 106560.52228

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SECTION H  
CONSIDERATION OF COVID-19  
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## IMPACT OF COVID-19 ON GENERAL LIABILITY LOSS COSTS

### INTRODUCTION

The ongoing COVID-19 global pandemic is a truly unique event that has impacted almost every aspect of daily life. The COVID-19 pandemic has had a significant impact on the United States economy and the property-casualty insurance industry. For several months in 2020 much of the country was following social distancing guidelines. The economy slowed significantly in many segments, and some had ground nearly to a halt. Given the sudden major changes in social and economic activity, the potential impact on prospective loss costs has been analyzed.

ISO General Liability basic limit loss cost level changes are based on historical aggregate losses and loss adjustment expenses adjusted through development to their ultimate value and projected through trending to a future point in time. The historical statistical data included in this filing is from a period where COVID-19 was not known to be present in the United States.

In anticipation of long-term behavioral, social and economic changes as a result of COVID-19, it is expected, based on the information currently available, that those changes will have a material impact on prospective loss costs for certain risks. To reflect these changes, judgmentally selected adjustment factors have been applied to the loss costs of several classes.

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### LOSS COST ADJUSTMENTS GENERAL LIABILITY

For General Liability, all manually rated classes were reviewed to determine how future economic conditions and changes in behavior could potentially impact the loss experience. The bulk of General Liability classes have economically sensitive exposure bases, including exposure bases gross sales and payroll. These economically sensitive exposure bases will generally adjust to new economic conditions and classes with these bases are not expected to have significant changes in loss potential per exposure. However, there are classes that use exposure bases that are not economically sensitive and would not necessarily be responsive to sudden changes. Classes with exposure bases that are not economically sensitive were reviewed for a potential loss cost adjustment.

The individual classes that use square feet as an exposure base were further examined to determine which may be impacted by long-term behavioral, social and economic changes. The new, large scale work from home policies put in place due to social distancing guidelines has the potential to become a long-lasting change in behavior. Companies may utilize their physical spaces differently than in the past. There will likely be more work from home options and more emphasis on digital solutions to replace physical, in-person meetings. Additionally, it will take time for companies to decrease their physical office footprint to reflect this new environment. With fewer workers, vendors, clients, and other outside visitors present in commercial buildings, there is an expected decrease in occurrences relative to the fixed exposure base of thousands of square feet for certain classes.

LOSS COST  
ADJUSTMENTS  
GENERAL LIABILITY  
(Cont'd)

Nine classifications are being adjusted for this expected decrease in occurrence frequency. The classifications are OL&T classifications within Premises/Operations Class Group 12 – Building and Offices. These classes are for risks that are primarily an office environment and are expected to be impacted by changes in the office work environment. The varying adjustments, -5% or -10%, reflects the expected decrease in foot traffic for the individual classes listed. The adjustment is a decrease to the revised Premises/Operations loss costs after application of all loss cost changes including any relativity changes and reflecting any capping and build back factors.

In Section A, the impact of adjusting these classes will be reflected in the filed loss costs and in the class group, subtitle, and overall loss cost level changes.

Class Code	Class Description	Adjustment
61212	Buildings or Premises - bank or office - mercantile or manufacturing (Lessor's risk only) (For-Profit)	-5.0%
61216	Buildings or Premises - bank or office - mercantile or manufacturing (Lessor's risk only) (Not-For-Profit)	-5.0%
61217	Buildings or Premises - bank or office - mercantile or manufacturing - maintained by the insured (Lessor's risk only) (For-Profit)	-5.0%
61218	Buildings or Premises - bank or office - mercantile or manufacturing - maintained by the insured (Lessor's risk only) (Not-For-Profit)	-5.0%
61224	Buildings or Premises - office premises primarily occupied by employees of the insured (For-Profit)	-10.0%
61225	Buildings or Premises - office premises primarily occupied by employees of the insured (Not-For-Profit)	-10.0%
61226	Buildings or Premises - office - Not Otherwise Classified (For-Profit)	-5.0%
61227	Buildings or Premises - office - Not Otherwise Classified (Not-For-Profit)	-5.0%
62000	Condominiums - commercial - bank or mercantile, manufacturing or office (association risk only)	-5.0%



KENTUCKY GL-2020-BGL1  
BASIC LIMIT LOSS COST LEVEL  
GENERAL LIABILITY OTHER THAN PROFESSIONAL  
PREMISES/OPERATIONS & PRODUCTS/COMPLETED OPERATIONS  
ACTUARIAL ANALYSIS SUPPLEMENT

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PURPOSE                      This document provides discussion and analysis of pattern shifts in the data used to derive the advisory loss costs.

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LOSS COST                      The statewide advisory loss cost level changes are:  
LEVEL CHANGES

<u>SUBLINE</u>	<u>INDICATED</u>	<u>SELECTED</u>	<u>ADJUSTED</u>
M&C	+ 1.8%	0.0%	0.0%
OL&T	+ 9.5%	+ 9.5%	+8.6%
Premises/Operations	+ 6.8%	+ 6.2%	+5.6%
Products	+ 0.9%	+ 0.9%	+ 0.9%
Local Products/Completed Operations	+15.9%	+15.9%	+15.9%
Products/Completed Operations	+12.5%	+12.5%	+12.5%
GL Overall	+ 7.8%	+ 7.3%	+6.8%

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INDICATED                      Indicated changes are based on standard ISO methodology. The selected changes are  
VS. SELECTED                      equal to the indicated changes for all sublines except for Manufacturers & Contractors,  
VS. ADJUSTED                      where a change of 0.0% has been selected to temper the effect of the experience for the  
second to latest year and to limit swings in loss costs. The adjusted loss cost level  
changes reflect the COVID-19 related adjustments for OL&T.

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HISTORICAL                      The sources of the data underlying this loss cost review are:  
SOURCE DATA

ISO reporting companies' voluntary experience.  
Fiscal - accident year data through year ended 6/30/2019 for Premises/Operations.  
Calendar - accident year data through year ended 12/31/2018 for Products/Completed  
Operations.

Bodily Injury and Property Damage deductible data is included. Fringe losses  
(Coverage B) are also included.

Statistical plan data reported to ISO is first processed through a system of rigorous  
automated data verification processes so that only data that would be reliable is used for  
ratemaking. Subsequent to this initial data submission review, additional analyses  
involving an even more customized data review for this line was performed by staff.  
During these processes, various data records were excluded from the review, corrected  
or adjusted. Specifically, various reported exposure amounts 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.

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## CALL TO CALL COMPARISON

### Manufacturers and Contractors

The Aggregate Loss Costs at Current Level (ALCCL) decreased by an average of 14.4%, when the four years common to both this year's and last year's reviews are compared. This is primarily accounted for by the following changes since the prior review:

- A change in company mix which caused a 7.1% decrease in ALCCL;
- Implemented loss cost level change (- 5.7%);
- A change in exposure trend plus an additional year of trending (- 1.2%);
- The effect on ALCCL due to a change in average IPMFs (- 0.2%).

The Basic Limit Experience Ratios (BLERs) increased in 2016 (+17.0%) and 2018 (+39.5%). This is mainly due to unfavorable experience across several class groups.

---

### Owners, Landlords and Tenants

The Aggregate Loss Costs at Current Level (ALCCL) increased by an average of 3.4%, when the four years common to both this year's and last year's reviews are compared. This is primarily accounted for by the following changes since the prior review:

- A change in company mix which caused a 5.8% decrease in ALCCL;
- Implemented loss cost level change (+ 9.9%);
- A change in exposure trend plus an additional year of trending (+ 0.1%);
- The effect on ALCCL due to a change in average IPMFs (- 0.1%).

The BLER increased in 2015 (+3.2%). This is mainly due to unfavorable experience across several class groups.

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### Products

Multistate ALCCL decreased by an average of 21.7% over the four common years in the latest call. This can be accounted for by the following changes since the prior review:

- A change in company mix which caused a 12.3% decrease in ALCCL;
- Implemented an average loss cost level change of approximately -10.8% in most states;
- A change in exposure trend plus an additional year of trending of -0.8%;
- The effect on ALCCL due to a change in average IPMFs (-0.5%).

The BLERs changed due to the various effects listed above.

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CALL TO CALL  
COMPARISON  
(Cont'd)

Local Products/  
Completed Ops

Multistate ALCCL decreased by an average of 1.3% over the four common years in the latest call. This can be accounted for by the following changes since the prior review:

- A change in the companies mix which caused a 3.4% decrease in ALCCL;
- Implemented an average loss cost level change of approximately -0.6% in most states;
- A change in exposure trend plus an additional year of trending of +1.6%;
- The effect on ALCCL due to a change in average IPMFs (+0.9%).

The BLERs changed due to the various effects listed above.

LATEST CALL  
YEAR TO YEAR  
COMPARISON

Manufacturers and  
Contractors

The ALCCL increased from 2015 to 2017 and then decreased thereafter.

The high BLER for 2018 (1.285) is attributable to unfavorable experience in several class groups.

Owners, Landlords  
and Tenants

The ALCCL increased from 2015 to 2017 and then decreased thereafter.

The high BLERs for 2015 (1.117) and 2017 (1.122) are attributable to unfavorable experience in several class groups.

Products

The ALCCL increased steadily from 2014 to 2018.

The BLER decreased from 2014 to 2015, increased in 2016 and then decreased thereafter.

Local Products/  
Completed Ops

The ALCCL increased steadily from 2014 to 2018.

The BLER increased from 2014 to 2015, decreased until 2017 and then increased thereafter.

LOSS  
DEVELOPMENT  
FACTOR  
COMPARISON

Manufacturers and  
Contractors

The BI and PD indemnity loss development factors for the 2020 review remained stable compared to those in the 2019 review.

The multistate full coverage BI Indemnity factors have increased compared to those in the 2019 review. The multistate full coverage PD Indemnity factors remained stable compared to those in the 2019 review.

The multistate deductible coverage BI indemnity factors remained stable compared to the 2019 review. The multistate deductible coverage PD indemnity factors have decreased compared to the 2019 review.

The multistate Fringe indemnity factors have increased compared to the 2019 review.

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Owners, Landlords  
and Tenants

The BI and PD indemnity loss development factors for the 2020 review remained stable compared to those in the 2019 review.

The multistate full coverage BI Indemnity factors have increased compared to those in the 2019 review. The multistate full coverage PD Indemnity factors remained stable compared to those in the 2019 review.

The multistate deductible coverage BI and PD Indemnity factors remained stable compared to the 2019 review.

The multistate Fringe indemnity factors have decreased compared to the 2019 review.

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Products

The multistate full coverage BI and PD indemnity development factors for the 2020 review have increased compared to those in the 2019 review.

The multistate deductible coverage BI indemnity development factors have increased compared to the 2019 review. The multistate deductible coverage PD indemnity development factors remained stable compared to the 2019 review.

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LOSS  
DEVELOPMENT  
FACTOR  
COMPARISON  
(Cont'd)

Local Products/  
Completed Ops

For Local Products, the multistate full coverage BI indemnity development factors in this review remained stable compared to those in the 2019 review. The multistate full coverage PD indemnity development factors in this review have decreased compared to those in the 2019 review. The multistate deductible coverage BI indemnity development factors have decreased compared to the 2019 review. The multistate deductible coverage PD indemnity development factors have increased compared to the 2019 review.

For Completed Operations, the full coverage BI indemnity loss development factors for the 2020 review remained stable compared to those in the 2019 review, except for the 15 and 27 months-to-ultimate factors which increased by 21.0% and decreased by 14.7% respectively. This can largely be attributed to a higher credibility for the 15-to-27 months state link ratio and a lower 27-to-39 months state link ratio. The full coverage PD indemnity loss development factors for the 2020 review remained stable compared to those in the 2019 review, except for the 15 months-to-ultimate factor which increased by 12.6%. This can largely be attributed to a higher 15-to-27 months state link ratio.

The Completed Operations multistate full coverage BI indemnity factors have decreased compared to those in the 2019 review. The multistate full coverage PD indemnity factors have increased compared to those in the 2019 review. The multistate deductible coverage BI indemnity factors have increased compared to those in the 2019 review. The multistate deductible coverage PD indemnity factors have decreased compared to those in the 2019 review.

One might expect PD development to be higher due to the Montrose decision in California. In response to the Montrose decision, ISO has introduced revised wording into the CGL policy to better define the concept of known loss. This revision represents neither a broadening nor a restriction in coverage from the original intent, however, it may result in the shifting of coverage, under certain circumstances, between an insured's current policy and past or future policies.

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ALAE Development

To develop ALAE losses for all sublines and loss types (BI, PD and Fringe), we are using an incremental method that is based on a percentage of the total limit indemnity losses developed to ultimate. Since this is a procedure that produces incremental factors instead of multiplicative factors, there is no appropriate factor comparison available to last year's review.

One of the primary purposes of this procedure is to produce accurate and stable developed ALAE, especially for immature accident years.

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SEVERITY TREND  
COMPARISON

Manufacturers and  
Contractors

The BI severity trend selection is +4.5%, unchanged from +4.5% in the previous Fiscal review.

The PD severity trend selection is +4.5%, unchanged from +4.5% in the previous Fiscal review.

The Fringe severity trend selection is 0.0%, down from +0.5% in the previous Fiscal review.

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Owners, Landlords  
and Tenants

The BI severity trend selection is +4.0%, up from +3.5% in the previous Fiscal review.

The PD severity trend selection is +5.0%, up from +4.5% in the previous Fiscal review.

The Fringe severity selection is +1.0%, down from +1.5% in the previous Fiscal review.

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Products

The BI severity trend selection is +3.0%, up from +2.5% in the previous review.

The PD severity trend selection is +6.0%, down from +6.5% in the previous review.

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Local Products/  
Completed Ops

The BI severity trend selection is +4.0%, up from +2.5% in the previous review.

The PD selected severity trend is +4.5%, unchanged from +4.5% in the previous review.

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FREQUENCY  
TREND  
COMPARISON

We have selected a frequency trend of 0.0% for Manufacturers & Contractors, -0.5% for Owners, Landlords and Tenants, -1.5% for Products, and -0.5% for Local Products/Completed Operations. This is consistent with our conservative approach toward frequency trend selections. This conservatism reflects the difficulty of predicting turning points for cyclical and volatile data along with the amplifying effects that varying frequency trend selections have on indicated loss cost level changes.

Manufacturers and  
Contractors

The latest frequency point is lower than the prior point.

Owners, Landlords  
and Tenants

The latest frequency point is lower than the prior point.

Products

The latest frequency point is lower than the prior point.

Local Products/  
Completed Ops

The latest frequency point is lower than the prior point.

EXPOSURE  
TREND  
COMPARISON

Manufacturers and  
Contractors

The exposure trend factors for Manufacturers are lower than that used in the previous review for all three years. The exposure trend factors for Contractors are lower than that used in the previous review for all three years

Owners, Landlords  
and Tenants

The exposure trend factors for Class Groups 1-13 are lower than those used in the previous review for all three years. The exposure trend factors for Class Group 16 are lower than that used in the previous review for all three years

Products

The exposure trend factors are lower than that used in the previous review for all three years.

Local Products/  
Completed Ops

The exposure trend factors for Local Products are lower than that used in the previous review for all three years. The exposure trend factors for Completed Operations are lower than that used in the previous review for all three years.

WEIGHTED AVERAGE IMPLICIT PACKAGE MODIFICATION FACTOR (IPMF) COMPARISON	Manufacturers and Contractors	The current weighted average IPMF is 0.897. In the 2019 review the weighted average IPMF was 0.893.
	Owners, Landlords and Tenants	The current weighted average IPMF is 1.061. In the 2019 review the weighted average IPMF was 1.062.
	Products	The current multistate weighted average IPMF is 0.859. In the 2019 review the multistate weighted average IPMF was 0.856.
	Local Products/ Completed Ops	The current multistate weighted average IPMF is 0.991. In the Group 3, 2019 review the multistate weighted average IPMF was 0.977.
The IPMF's are applied to the multiline ALCCL.		
CLASS GROUP/ TERRITORY/ STATE RELATIVE CHANGE	The class group relative changes for Manufacturers and Contractors vary within reasonable limits.	
	The class group and territory relative changes for Owners, Landlords and Tenants vary within reasonable limits.	
	For Local Products, Kentucky's state balanced relative change (1.061) ranks 4th highest overall. In last year's review, Kentucky's state balanced relative change (1.044) ranked 10th highest overall.	
CHANGE IN COMPANY MIX SINCE LAST CALL	For Manufacturers and Contractors the change in company mix results in an average decrease of 7.1% in the total statewide ALCCL.	
	For Owners, Landlords and Tenants, the change in company mix results in an average decrease of 5.8% in the total statewide ALCCL.	
	For Products, the change in company mix results in a 12.3% decrease in the total multistate ALCCL.	
	For Local Products/Completed Operations, the change in company mix results in a 3.4% decrease in the total multistate ALCCL.	



\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
10010	.205	.195	10205	.31	—	11210	2.60	—	13207	(a)	(a)
10015	8.56	—	10220	5.85	—	11211	13.50	—	13208	(a)	(a)
10020	(a)	(a)	10255	.34	.147	11212	2.04	—	13314	.149	.016
10026	.80	.023	10256	1.25	.152	11213	1.67	—	13351	.36	.051
10036	.92	(a)	10257	.235	.169	11214	4.10	—	13352	.37	.058
10040	.156	.30	10309	.201	.021	11222	.069	—	13410	1.96	2.99
10042	.46	.56	10315	.47	(a)	11234	.35	.078	13411	(a)	(a)
10052	5.92	—	10331	11.60	—	11248	.065	.018	13412	.66	1.14
10054	5.25	—	10332	20.00	—	11258	1.94	.208	13453	.76	(a)
10060	.22	.075	10352	.94	.097	11259	2.08	.137	13454	.89	(a)
10065	.33	.04	10367	3.48	—	11273	17.30	—	13455	.91	(a)
10066	.34	.076	10368	5.08	—	11274	16.60	—	13461	(a)	(a)
10070	.117	.154	10375	(a)	—	11288	2.37	.118	13506	1.14	.097
10071	.39	.133	10378	11.80	—	12014	.14	.048	13507	1.37	.228
10072	3.93	—	10379	5.45	—	12356	1.47	.039	13590	.67	.74
10073	1.43	.64	10380	9.31	—	12361	.096	.077	13621	.17	.32
10075	10.60	.26	10381	8.07	—	12362	.129	(a)	13670	.054	.015
10100	1.61	.075	11007	1.48	—	12373	.049	.024	13673	1.47	.02
10101	.30	.181	11020	.38	.191	12374	.76	.074	13715	.129	.165
10105	3.22	—	11039	1.24	.083	12375	.38	.056	13716	.56	.161
10107	4.37	.37	11052	5.81	—	12391	.097	.082	13720	.83	.069
10110	29.10	—	11101	(a)	(a)	12393	.50	(a)	13759	.22	.167
10111	.26	.078	11120	(a)	—	12467	.207	(a)	13930	.28	.201
10113	.45	—	11126	.078	.022	12509	.085	.036	14068	.049	.014
10115	.89	.115	11127	.65	.011	12510	1.08	.033	14101	.57	.058
10117	8.50	—	11128	.88	.104	12583	.48	(a)	14279	.65	.086
10119	(a)	—	11138	2.90	—	12651	1.40	.53	14401	1.95	.16
10120	19.10	—	11155	.27	—	12683	.64	(a)	14405	.87	—
10130	4.40	—	11160	(a)	(a)	12707	.85	.64	14527	.53	.189
10132	3.79	—	11167	1.34	—	12797	.178	.196	14655	.11	—
10133	5.58	—	11168	6.94	—	12805	.40	.162	14731	5.76	—
10135	(a)	—	11201	12.90	—	12841	.67	—	14732	.43	—
10140	.044	.021	11202	3.83	—	12927	.117	—	14733	.77	—
10141	.088	.023	11203	1.52	.52	13049	.05	.057	14734	.33	—
10145	.43	.014	11204	.39	2.06	13111	1.80	.093	14855	.30	.154
10146	.72	.024	11205	(a)	—	13112	.082	.063	14913	.41	.18
10150	.62	(a)	11206	.60	—	13201	1.24	.16	15060	(a)	(a)
10151	15.50	—	11207	7.58	—	13204	1.40	1.45	15061	(a)	(a)
10160	2.76	—	11208	1.30	—	13205	.54	.46	15062	.27	(a)
10204	.28	—	11209	6.10	—	13206	(a)	(a)	15063	.31	(a)

## DIVISION SIX

## PREM/OPS TERR. 501

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
15070	.116	—	16750	.129	.032	18707	.019	.004	40117	(a)	—
15119	(a)	—	16751	.129	—	18708	.142	.021	40140	(a)	—
15120	(a)	—	16819	1.63	(a)	18833	.231	(a)	41001	.32	—
15123	5.57	—	16820	1.26	(a)	18834	.37	.166	41210	(a)	—
15124	1.95	—	16881	2.03	(a)	18911	1.17	.026	41421	.56	—
15188	.47	(a)	16890	.191	(a)	18912	2.19	.035	41422	.30	—
15223	.063	.041	16891	.208	(a)	18920	.57	.023	41510	58.60	—
15224	.87	.074	16892	.38	(a)	18991	(a)	—	41603	26.60	—
15300	(a)	—	16900	4.06	.114	19007	2.18	—	41604	14.60	—
15314	.27	(a)	16901	2.60	.141	19051	4.83	—	41620	1.08	—
15404	.123	(a)	16902	2.21	.09	19061	(a)	—	41650	37.50	—
15405	.181	(a)	16905	4.27	.114	19795	.38	(a)	41664	40.40	—
15406	.46	.048	16906	2.73	.141	19796	.45	—	41665	4.73	—
15488	1.15	(a)	16910	2.44	.089	40005	(a)	—	41666	(a)	—
15538	.47	.017	16911	2.21	.064	40006	(a)	—	41667	110.00	—
15600	1.19	.105	16915	2.50	.075	40010	(a)	—	41668	103.00	—
15607	.152	—	16916	2.08	.062	40015	(a)	—	41669	.73	—
15608	.27	.012	16920	5.54	.176	40020	(a)	—	41670	1.22	—
15656	7.84	—	16921	5.06	.069	40026	(a)	—	41672	(a)	—
15699	.38	—	16930	3.19	.26	40031	(a)	—	41673	(a)	—
15733	.30	.037	16931	3.44	.115	40032	(a)	—	41675	(a)	—
15839	.36	.032	16940	6.91	.069	40040	(a)	—	41677	.224	—
15991	.29	.104	16941	2.77	.134	40041	(a)	—	41678	88.20	—
15993	.246	.067	18078	.234	.155	40042	(a)	—	41679	(a)	(a)
16005	.068	.034	18109	.49	.04	40045	267.00	—	41680	19.50	—
16009	.37	.094	18110	.39	.037	40046	52.70	—	41696	.71	—
16402	1.76	—	18200	(a)	—	40047	18.80	—	41697	.49	—
16403	1.11	.181	18205	.36	.35	40059	6.73	—	41700	(a)	—
16404	1.40	—	18206	.63	.126	40061	3.57	—	41715	12.40	—
16471	.215	—	18335	.45	.022	40063	119.00	—	41716	7.87	—
16501	.145	(a)	18435	1.70	.106	40064	35.10	—	43007	(a)	—
16527	.222	.35	18436	1.37	.144	40066	(a)	—	43117	(a)	—
16588	.17	(a)	18437	.65	(a)	40067	(a)	—	43151	16.20	—
16604	.29	.146	18438	1.24	(a)	40069	(a)	—	43152	26.40	—
16670	4.82	—	18501	1.56	.017	40072	(a)	—	43200	61.60	—
16676	.37	.017	18506	.60	.007	40075	32.50	—	43215	(a)	—
16694	.57	(a)	18507	.233	.011	40101	29.10	—	43421	16.90	—
16705	.41	.148	18570	2.43	—	40102	25.70	—	43422	88.50	—
16722	(a)	—	18575	(a)	(a)	40111	9.46	—	43424	(a)	—
16723	(a)	—	18616	.46	.59	40115	(a)	—	43470	4.12	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
43517	(a)	—	44277	53.60	—	46004	35.60	—	47471	4.87	—
43518	17.30	—	44280	.224	—	46005	28.50	—	47473	6.37	—
43550	60.20	—	44311	8.94	—	46112	.114	—	47474	7.12	—
43551	33.40	—	44315	6.01	—	46202	3.50	—	47475	5.62	—
43626	13.80	—	44427	105.00	—	46362	308.00	—	47476	5.62	—
43628	180.00	—	44428	106.00	—	46426	45.00	—	47477	7.49	—
43629	152.00	—	44429	1.58	—	46427	60.00	—	47478	7.87	—
43754	(a)	—	44430	1.10	—	46510	(a)	—	47600	(a)	—
43760	5.08	—	44431	3.52	—	46590	(a)	—	47610	(a)	—
43822	3.28	—	44432	1.12	—	46603	3.77	—	48039	43.60	—
43840	.04	—	44433	35.50	—	46604	4.35	—	48177	(a)	—
43860	2.58	—	44434	68.00	—	46606	11.60	—	48178	(a)	—
43889	.92	—	44435	70.40	—	46607	16.00	—	48206	36.60	—
43945	(a)	—	44436	82.20	—	46622	9.58	—	48252	(a)	—
43946	(a)	—	44437	68.10	—	46671	(a)	—	48441	.154	—
43990	(a)	(a)	44438	53.90	—	46700	124.00	—	48557	15.40	—
43991	(a)	—	44439	105.00	—	46773	(a)	—	48558	13.40	—
44009	6.79	—	44440	86.70	—	46822	(a)	—	48600	89.90	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	14.80	—	44501	(a)	—	46882	(a)	—	48636	.66	(a)
44070	4.38	—	45190	2.76	—	46911	27.40	—	48637	11.80	—
44071	4.87	—	45191	1.96	—	46912	50.20	—	48638	5.83	—
44072	3.37	—	45192	2.29	—	46913	(a)	—	48727	(a)	—
44100	6.45	—	45193	1.35	—	46914	(a)	—	48808	2.01	—
44101	6.72	—	45210	1.71	—	46915	(a)	—	48924	(a)	—
44102	5.24	—	45224	(a)	—	46916	(a)	—	48925	281.00	—
44103	4.64	—	45225	(a)	—	47050	.90	—	49005	.152	—
44104	1.95	—	45334	35.50	—	47051	(a)	—	49111	3.07	—
44105	(a)	—	45380	.35	(a)	47052	(a)	—	49181	14.30	—
44106	(a)	—	45450	10.40	—	47103	(a)	—	49183	17.40	—
44108	2.29	—	45523	(a)	—	47146	(a)	—	49184	36.70	—
44109	5.78	—	45524	(a)	—	47147	(a)	—	49185	33.40	—
44110	5.91	—	45539	(a)	—	47221	136.00	—	49239	.26	.60
44111	3.63	—	45678	.242	—	47253	(a)	—	49292	1.04	—
44112	2.15	—	45771	.53	.164	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.174	.083	47318	11.30	—	49333	7.65	—
44193	(a)	—	45900	.136	.052	47367	.224	—	49451	(a)	—
44194	(a)	—	45901	.117	.049	47420	2.47	—	49452	(a)	—
44222	(a)	—	45937	.139	—	47468	(a)	—	49617	.46	.224
44276	82.60	—	45993	(a)	(a)	47469	5.62	—	49618	.39	.073

## DIVISION SIX

## PREM/OPS TERR. 501

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
49619	.72	.145	51315	.17	.106	51809	.21	.153	52341	.019	(a)
49763	4.70	—	51330	.04	.53	51833	.105	.06	52342	.055	(a)
49800	(a)	—	51333	.013	.34	51850	.098	(a)	52343	.034	(a)
49801	120.00	—	51340	.021	(a)	51851	.066	(a)	52401	.104	(a)
49802	10.60	—	51350	.162	.135	51852	.156	(a)	52402	.011	(a)
49803	18.80	—	51351	.145	.042	51853	.063	(a)	52432	.057	(a)
49840	.92	—	51352	.199	.108	51854	.14	(a)	52433	.052	1.02
49870	118.00	—	51355	.135	.094	51855	.147	(a)	52435	.065	(a)
49890	(a)	—	51356	.146	.62	51856	.081	(a)	52438	.047	(a)
49891	(a)	—	51357	.242	.66	51857	.139	(a)	52440	.074	(a)
49902	(a)	—	51358	.58	.141	51869	.056	.136	52467	.068	(a)
49903	(a)	—	51359	.51	.78	51877	.32	.212	52469	.024	.104
50010	.122	.49	51370	.246	4.57	51889	.052	.012	52505	.119	.216
50015	.079	(a)	51380	.025	.044	51896	.024	.018	52547	.09	.078
50017	.061	(a)	51400	.095	(a)	51900	.078	.095	52581	.58	2.95
50045	.138	(a)	51401	.14	(a)	51909	.089	.056	52619	.041	(a)
50047	.016	(a)	51500	.046	.119	51919	.053	(a)	52660	.08	—
51001	.023	.45	51516	.067	—	51926	.053	.038	52744	.40	.081
51005	.005	(a)	51517	.076	—	51927	.029	.131	52767	.082	(a)
51116	.058	.69	51550	.057	.39	51934	.059	.125	52876	(a)	(a)
51201	.021	(a)	51551	.02	.91	51941	.053	.041	52911	.032	.45
51205	.064	.071	51552	.035	.159	51942	.085	—	52967	.012	.062
51206	.01	.39	51553	.061	(a)	51956	.23	.221	53001	.119	.33
51210	.04	(a)	51554	.006	(a)	51957	.202	.42	53077	.057	.207
51211	(a)	(a)	51575	.043	.02	51958	.18	.41	53095	.039	(a)
51220	.137	2.28	51576	.11	.093	51959	.184	(a)	53096	.054	(a)
51221	.076	1.78	51600	.075	.191	51960	.024	.35	53121	.155	.44
51222	.092	3.67	51613	.05	.139	51970	.106	.238	53147	.014	(a)
51224	.097	1.45	51625	.021	(a)	51982	.031	.083	53229	.078	(a)
51230	.016	.79	51666	.069	.101	51985	.063	—	53271	.029	(a)
51240	.25	.185	51702	.063	(a)	51986	.122	.103	53333	.077	.239
51241	.75	.26	51703	.026	(a)	51999	.052	.44	53374	.106	.31
51250	.105	(a)	51734	.049	.31	52002	.045	.129	53375	.056	.223
51251	.022	(a)	51741	.131	.26	52075	.077	.243	53376	.09	.194
51252	.076	.10	51752	.11	.165	52076	.093	(a)	53377	.092	.195
51253	.065	(a)	51767	.02	.008	52109	.011	(a)	53403	.058	(a)
51254	.02	.039	51777	.07	.078	52134	.151	.63	53425	.072	(a)
51255	.27	(a)	51790	.116	(a)	52137	.03	(a)	53565	.068	.108
51300	.096	.16	51796	.048	(a)	52150	.28	(a)	53631	.018	.022
51305	.096	.96	51808	.169	.73	52315	.091	.26	53632	.021	.034

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
53731	.019	(a)	56170	.071	(a)	57401	.038	.096	58503	.045	.076
53732	.129	.45	56171	.035	(a)	57403	.143	.035	58532	.058	(a)
53733	.084	.27	56202	.043	.089	57410	.018	.162	58559	.012	(a)
53734	.40	—	56390	.076	.64	57411	.018	(a)	58560	.029	(a)
53803	.172	(a)	56391	.065	.32	57572	.011	.108	58561	(a)	(a)
53901	(a)	(a)	56427	.105	.125	57600	.032	.034	58575	.037	.12
53902	(a)	(a)	56488	.116	.034	57611	.038	.062	58627	.119	.013
53903	(a)	(a)	56567	.073	(a)	57625	.28	(a)	58663	.163	1.28
53904	(a)	(a)	56650	.225	(a)	57651	.034	.041	58682	.105	(a)
53905	(a)	(a)	56651	.122	(a)	57690	.049	.49	58713	.044	(a)
53907	.057	.103	56652	.087	(a)	57716	.023	.082	58737	.077	.63
53951	(a)	(a)	56653	.084	(a)	57725	.051	.088	58756	.03	(a)
53952	(a)	(a)	56654	.043	(a)	57726	.04	.021	58757	.26	(a)
53953	(a)	(a)	56690	.06	.35	57798	.017	(a)	58759	.032	(a)
54012	.04	—	56699	.048	.057	57800	.064	(a)	58802	.036	.48
54077	.078	.40	56758	.041	.148	57808	.02	(a)	58813	.075	(a)
54444	(a)	(a)	56759	.042	.08	57809	.02	(a)	58822	.10	(a)
55010	.235	1.08	56760	.06	.098	57810	.02	.107	58837	.15	.162
55011	.063	1.57	56805	.079	(a)	57871	.023	.118	58840	.045	.127
55012	.076	1.18	56806	.056	(a)	57913	.083	.29	58873	.071	.03
55013	.065	1.14	56807	.055	(a)	57997	.09	—	58903	.023	(a)
55014	(a)	(a)	56808	.072	(a)	57998	.037	.058	58904	.018	.128
55214	.061	.088	56900	.07	(a)	57999	.032	.071	58922	.119	.168
55371	.27	.119	56910	.035	(a)	58009	.032	(a)	59005	.043	.096
55410	(a)	(a)	56911	.063	(a)	58010	.086	(a)	59057	.32	(a)
55426	.079	(a)	56912	.051	.09	58020	.153	(a)	59058	.207	(a)
55597	.015	1.79	56913	.042	(a)	58056	.102	(a)	59188	.30	.055
55647	.031	.062	56915	.247	(a)	58057	.064	(a)	59189	.42	.30
55648	.014	(a)	56916	.223	.205	58058	.058	(a)	59223	.074	.088
55649	.017	(a)	56917	.065	(a)	58095	.081	1.99	59257	.012	.013
55715	.122	.224	56918	.031	(a)	58096	.108	1.23	59306	.073	(a)
55716	.176	.52	56919	.079	(a)	58301	.025	.088	59378	.048	.15
55717	.104	(a)	56920	.072	(a)	58302	.029	.055	59481	.197	.099
55718	.101	(a)	56980	.06	(a)	58397	.169	.74	59482	.32	(a)
55802	.07	.009	57001	.021	.043	58408	.053	—	59537	.052	.21
55918	.07	2.74	57002	.013	.106	58409	.067	—	59601	.074	2.37
55919	.009	3.65	57090	.116	.66	58456	.036	—	59647	.142	.17
56040	.007	.033	57146	.073	.72	58457	.052	—	59660	.136	1.18
56041	.043	(a)	57202	.053	(a)	58458	.067	—	59661	.067	(a)
56042	.054	(a)	57257	.066	.035	58459	.081	—	59693	.011	—

## DIVISION SIX

## PREM/OPS TERR. 501

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
59695	(a)	(a)	59964	.34	.069	63220	(a)	—	91190	2.06	(a)
59701	.005	.29	59970	.044	.183	64074	19.50	—	91200	.78	—
59713	.122	.31	59973	.093	(a)	64075	13.70	—	91210	(a)	—
59722	.063	.031	59975	.062	.227	64500	(a)	—	91235	2.83	4.22
59723	.024	.037	59977	.035	(a)	65007	47.90	—	91250	4.26	(a)
59724	.036	.019	59984	.026	.053	66122	20.60	—	91265	16.80	3.60
59725	.045	.116	59985	.10	(a)	66123	11.30	—	91266	8.87	1.72
59726	.033	.024	59986	.076	(a)	66309	33.10	—	91280	(a)	3.32
59738	.105	.064	59988	.016	.059	66561	76.60	—	91302	14.20	(a)
59750	.039	.222	59989	.013	.044	67017	71.10	—	91315	4.31	—
59751	.014	(a)	60010	29.70	—	67508	45.00	—	91324	9.59	(a)
59773	.018	.028	60011	34.20	—	67509	33.00	—	91325	(a)	(a)
59774	.015	.15	60012	56.20	—	67510	18.40	—	91340	6.26	11.10
59775	.019	.188	60013	48.20	—	67511	19.90	—	91341	4.38	6.28
59781	.034	.068	60015	36.00	—	67512	85.10	—	91342	5.74	4.39
59782	.05	.46	60016	40.50	—	67513	54.00	—	91343	.97	2.42
59783	.049	(a)	60035	54.00	—	67634	61.50	—	91405	7.30	—
59784	.037	(a)	61000	29.50	—	67635	43.50	—	91436	4.96	3.84
59790	.081	(a)	61212	27.60	—	68001	133.00	—	91481	18.10	—
59798	.127	.50	61216	30.60	—	68439	171.00	—	91507	2.67	4.70
59806	.091	(a)	61217	27.80	—	68500	6.54	—	91523	41.10	—
59867	.092	(a)	61218	19.00	—	68604	3.19	—	91547	.234	—
59886	.012	.108	61223	135.00	—	68606	12.50	—	91551	1.45	1.04
59889	.059	.165	61224	43.10	—	68607	9.86	—	91555	1.70	1.24
59892	.049	(a)	61225	59.80	—	68702	8.12	—	91560	4.90	5.83
59904	.033	.061	61226	101.00	—	68703	6.09	—	91562	3.23	—
59905	.057	.132	61227	92.10	—	68706	26.10	—	91577	11.60	4.54
59914	.34	.68	62000	20.90	—	68707	25.80	—	91580	6.47	—
59915	.109	.75	62001	16.50	—	90089	4.19	—	91581	(a)	(a)
59917	.02	.205	62002	7.54	—	91111	3.65	7.33	91582	(a)	(a)
59923	.008	.004	62003	23.80	—	91125	2.53	2.89	91583	(a)	(a)
59925	.52	1.19	63010	53.50	—	91127	2.45	1.93	91584	(a)	(a)
59926	.45	.45	63011	66.90	—	91130	1.37	—	91585	(a)	(a)
59927	.30	1.42	63012	95.20	—	91135	.38	(a)	91586	(a)	(a)
59931	.151	.55	63013	90.10	—	91150	2.32	6.43	91587	(a)	(a)
59932	.163	.88	63215	78.60	—	91155	5.15	46.80	91588	(a)	(a)
59941	.051	(a)	63216	54.50	—	91160	1.01	—	91589	(a)	(a)
59947	.033	.32	63217	53.60	—	91175	.87	—	91590	3.35	—
59955	.019	.143	63218	18.00	—	91177	3.82	—	91591	(a)	(a)
59963	.145	.41	63219	(a)	—	91179	3.84	—	91606	13.40	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
91618	(a)	(a)	95357	1.37	—	97653	3.04	4.75	98426	2.46	(a)
91629	2.74	(a)	95358	(a)	—	97654	5.30	4.41	98427	2.40	—
91636	4.70	—	95410	4.30	3.91	97655	5.14	6.40	98428	(a)	—
91641	1.27	(a)	95455	5.68	2.04	98002	.93	1.10	98429	1.22	—
91666	.90	(a)	95487	2.31	(a)	98003	.95	(a)	98430	(a)	—
91722	4.11	(a)	95505	2.65	2.75	98090	.128	—	98449	3.45	30.40
91746	3.23	8.00	95620	1.87	(a)	98091	.139	—	98482	3.69	9.19
91805	.203	—	95625	6.78	4.95	98092	.42	—	98483	5.46	26.20
92053	.50	.63	95630	(a)	(a)	98111	.72	—	98502	5.22	5.19
92054	.171	.239	95647	3.41	9.43	98150	(a)	—	98555	2.43	—
92055	4.79	.28	95648	(a)	(a)	98151	(a)	—	98597	.55	—
92101	7.48	4.83	96053	2.59	6.69	98152	3.14	.94	98598	.187	—
92102	4.51	4.60	96317	1.42	—	98153	3.53	(a)	98601	6.25	(a)
92215	4.06	3.20	96408	3.73	20.90	98154	4.16	(a)	98622	(a)	—
92338	1.73	2.43	96409	3.45	14.30	98155	5.83	(a)	98623	(a)	—
92445	2.69	—	96410	3.02	11.80	98156	(a)	(a)	98624	.98	—
92446	5.69	2.70	96611	1.44	2.46	98157	3.72	.71	98636	3.48	4.38
92447	4.97	2.72	96702	4.29	(a)	98158	(a)	(a)	98640	108.00	—
92451	2.83	3.19	96703	(a)	—	98159	2.50	(a)	98658	6.03	—
92453	3.15	—	96816	4.02	—	98160	5.29	(a)	98659	1.08	.57
92478	1.56	2.66	96872	5.05	(a)	98161	5.93	(a)	98677	17.00	12.90
92593	37.20	—	96930	(a)	—	98162	(a)	(a)	98678	15.10	18.60
92663	.64	—	97002	(a)	(a)	98163	6.22	.32	98698	(a)	(a)
94007	10.70	6.90	97003	(a)	(a)	98164	2.39	.10	98699	4.91	(a)
94099	2.43	—	97047	4.37	—	98257	1.43	—	98705	8.52	—
94225	8.56	—	97050	3.39	—	98303	11.70	9.03	98710	3.41	—
94276	4.46	5.27	97111	5.14	—	98304	5.32	4.13	98751	4.56	—
94304	3.61	(a)	97220	.37	(a)	98305	3.50	2.22	98805	4.46	1.52
94381	6.78	14.80	97221	(a)	1.50	98306	9.02	.97	98806	3.24	5.29
94404	4.22	7.33	97222	1.87	2.58	98307	1.68	.59	98810	4.94	—
94444	(a)	(a)	97223	2.83	4.44	98308	1.11	1.17	98813	4.77	2.13
94569	2.85	5.19	97308	.69	—	98309	5.88	2.17	98820	8.51	4.12
94590	12.30	—	97447	2.25	6.09	98344	.98	1.08	98871	(a)	(a)
94617	3.88	—	97501	(a)	—	98405	1.61	—	98884	2.21	2.00
94638	(a)	—	97502	(a)	—	98413	14.00	(a)	98914	.73	.61
95124	1.43	.89	97503	(a)	—	98414	12.80	(a)	98949	1.03	.40
95233	3.07	—	97504	(a)	—	98415	1.68	(a)	98967	3.48	13.30
95305	3.34	—	97650	3.55	4.47	98423	4.01	(a)	98993	6.65	4.65
95306	5.39	—	97651	6.66	5.14	98424	6.80	(a)	99003	1.65	1.92
95310	7.97	1.22	97652	5.78	6.43	98425	2.79	(a)	99004	3.96	1.95

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 501 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
99080	1.17	11.50	99826	.98	.65						
99081	(a)	—	99827	.42	.60						
99082	(a)	—	99851	1.71	—						
99083	(a)	—	99917	2.78	—						
99084	(a)	(a)	99938	3.12	—						
99085	(a)	(a)	99943	9.04	—						
99111	1.70	—	99946	6.73	2.97						
99160	(a)	—	99948	8.01	35.00						
99163	4.05	.70	99952	7.24	23.30						
99165	.89	(a)	99953	7.81	13.90						
99220	1.62	(a)	99954	5.69	11.70						
99221	(a)	(a)	99955	7.12	8.77						
99222	3.04	(a)	99963	.67	—						
99223	.249	(a)	99969	2.94	2.94						
99303	13.60	—	99975	6.32	—						
99310	3.40	(a)	99986	(a)	—						
99315	9.99	2.99	99987	(a)	—						
99321	9.70	3.64	99988	2.60	—						
99445	(a)	(a)									
99471	.73	—									
99505	5.62	—									
99506	6.92	—									
99507	6.03	—									
99570	3.24	(a)									
99571	.78	(a)									
99572	1.53	(a)									
99573	1.47	(a)									
99600	1.72	—									
99613	8.59	3.40									
99614	3.85	—									
99620	.47	—									
99650	1.53	1.55									
99709	3.78	(a)									
99718	1.37	—									
99746	2.32	3.44									
99760	.27	—									
99777	8.56	—									
99793	2.95	—									
99798	(a)	(a)									
99803	(a)	11.80									



\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
10010	.177	.195	10205	.29	—	11210	2.30	—	13207	(a)	(a)
10015	5.15	—	10220	5.52	—	11211	11.90	—	13208	(a)	(a)
10020	(a)	(a)	10255	.28	.147	11212	1.80	—	13314	.14	.016
10026	.76	.023	10256	1.03	.152	11213	1.47	—	13351	.34	.051
10036	.76	(a)	10257	.194	.169	11214	3.62	—	13352	.35	.058
10040	.135	.30	10309	.189	.021	11222	.061	—	13410	1.61	2.99
10042	.43	.56	10315	.45	(a)	11234	.33	.078	13411	(a)	(a)
10052	3.56	—	10331	6.99	—	11248	.053	.018	13412	.54	1.14
10054	3.16	—	10332	12.10	—	11258	1.68	.208	13453	.63	(a)
10060	.208	.075	10352	.81	.097	11259	1.80	.137	13454	.74	(a)
10065	.31	.04	10367	3.07	—	11273	16.30	—	13455	.75	(a)
10066	.32	.076	10368	4.49	—	11274	15.70	—	13461	(a)	(a)
10070	.101	.154	10375	(a)	—	11288	2.06	.118	13506	1.07	.097
10071	.37	.133	10378	7.07	—	12014	.115	.048	13507	1.29	.228
10072	3.47	—	10379	3.28	—	12356	1.39	.039	13590	.56	.74
10073	1.18	.64	10380	5.61	—	12361	.067	.077	13621	.14	.32
10075	8.74	.26	10381	4.86	—	12362	.111	(a)	13670	.037	.015
10100	1.40	.075	11007	1.31	—	12373	.042	.024	13673	1.27	.02
10101	.28	.181	11020	.35	.191	12374	.72	.074	13715	.111	.165
10105	3.04	—	11039	1.02	.083	12375	.35	.056	13716	.53	.161
10107	3.60	.37	11052	3.73	—	12391	.084	.082	13720	.72	.069
10110	17.50	—	11101	(a)	(a)	12393	.47	(a)	13759	.208	.167
10111	.222	.078	11120	(a)	—	12467	.195	(a)	13930	.237	.201
10113	.42	—	11126	.073	.022	12509	.07	.036	14068	.046	.014
10115	.84	.115	11127	.56	.011	12510	.89	.033	14101	.54	.058
10117	5.12	—	11128	.76	.104	12583	.40	(a)	14279	.54	.086
10119	(a)	—	11138	1.75	—	12651	1.15	.53	14401	1.69	.16
10120	11.50	—	11155	.25	—	12683	.53	(a)	14405	.77	—
10130	4.14	—	11160	(a)	(a)	12707	.73	.64	14527	.45	.189
10132	3.57	—	11167	.86	—	12797	.154	.196	14655	.104	—
10133	3.58	—	11168	4.46	—	12805	.38	.162	14731	3.70	—
10135	(a)	—	11201	11.40	—	12841	.63	—	14732	.27	—
10140	.031	.021	11202	3.38	—	12927	.11	—	14733	.73	—
10141	.061	.023	11203	1.31	.52	13049	.035	.057	14734	.31	—
10145	.29	.014	11204	.37	2.06	13111	1.56	.093	14855	.247	.154
10146	.62	.024	11205	(a)	—	13112	.057	.063	14913	.39	.18
10150	.58	(a)	11206	.53	—	13201	1.02	.16	15060	(a)	(a)
10151	14.60	—	11207	6.70	—	13204	1.15	1.45	15061	(a)	(a)
10160	2.60	—	11208	1.15	—	13205	.44	.46	15062	.222	(a)
10204	.26	—	11209	5.39	—	13206	(a)	(a)	15063	.26	(a)

## DIVISION SIX

PREM/OPS TERR. 503

## GENERAL LIABILITY

PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
15070	.103	—	16750	.122	.032	18707	.017	.004	40117	(a)	—
15119	(a)	—	16751	.122	—	18708	.134	.021	40140	(a)	—
15120	(a)	—	16819	1.34	(a)	18833	.199	(a)	41001	.192	—
15123	3.58	—	16820	1.04	(a)	18834	.35	.166	41210	(a)	—
15124	1.25	—	16881	1.91	(a)	18911	1.10	.026	41421	.40	—
15188	.39	(a)	16890	.157	(a)	18912	2.07	.035	41422	.216	—
15223	.044	.041	16891	.171	(a)	18920	.54	.023	41510	55.20	—
15224	.76	.074	16892	.31	(a)	18991	(a)	—	41603	19.10	—
15300	(a)	—	16900	2.69	.114	19007	1.40	—	41604	10.50	—
15314	.25	(a)	16901	1.73	.141	19051	3.10	—	41620	.96	—
15404	.101	(a)	16902	1.46	.09	19061	(a)	—	41650	27.00	—
15405	.149	(a)	16905	2.83	.114	19795	.36	(a)	41664	24.30	—
15406	.38	.048	16906	1.81	.141	19796	.42	—	41665	2.85	—
15488	.95	(a)	16910	1.61	.089	40005	(a)	—	41666	(a)	—
15538	.45	.017	16911	1.46	.064	40006	(a)	—	41667	66.50	—
15600	1.12	.105	16915	1.66	.075	40010	(a)	—	41668	62.30	—
15607	.135	—	16916	1.38	.062	40015	(a)	—	41669	.44	—
15608	.25	.012	16920	3.67	.176	40020	(a)	—	41670	.73	—
15656	7.39	—	16921	3.35	.069	40026	(a)	—	41672	(a)	—
15699	.33	—	16930	2.11	.26	40031	(a)	—	41673	(a)	—
15733	.247	.037	16931	2.28	.115	40032	(a)	—	41675	(a)	—
15839	.34	.032	16940	4.58	.069	40040	(a)	—	41677	.198	—
15991	.27	.104	16941	1.84	.134	40041	(a)	—	41678	58.90	—
15993	.232	.067	18078	.202	.155	40042	(a)	—	41679	(a)	(a)
16005	.059	.034	18109	.46	.04	40045	161.00	—	41680	14.00	—
16009	.30	.094	18110	.37	.037	40046	31.70	—	41696	.63	—
16402	1.66	—	18200	(a)	—	40047	11.30	—	41697	.44	—
16403	1.05	.181	18205	.31	.35	40059	4.05	—	41700	(a)	—
16404	1.32	—	18206	.59	.126	40061	2.15	—	41715	8.90	—
16471	.19	—	18335	.43	.022	40063	71.90	—	41716	5.66	—
16501	.125	(a)	18435	1.48	.106	40064	21.10	—	43007	(a)	—
16527	.192	.35	18436	1.19	.144	40066	(a)	—	43117	(a)	—
16588	.14	(a)	18437	.61	(a)	40067	(a)	—	43151	13.70	—
16604	.236	.146	18438	1.17	(a)	40069	(a)	—	43152	17.60	—
16670	2.90	—	18501	1.36	.017	40072	(a)	—	43200	52.20	—
16676	.35	.017	18506	.49	.007	40075	27.60	—	43215	(a)	—
16694	.47	(a)	18507	.22	.011	40101	21.60	—	43421	14.30	—
16705	.36	.148	18570	2.30	—	40102	19.10	—	43422	75.00	—
16722	(a)	—	18575	(a)	(a)	40111	5.69	—	43424	(a)	—
16723	(a)	—	18616	.38	.59	40115	(a)	—	43470	3.64	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
43517	(a)	—	44277	45.40	—	46004	25.60	—	47471	3.51	—
43518	10.40	—	44280	.198	—	46005	20.50	—	47473	4.58	—
43550	51.00	—	44311	5.38	—	46112	.085	—	47474	5.12	—
43551	28.30	—	44315	3.62	—	46202	4.48	—	47475	4.04	—
43626	8.33	—	44427	78.30	—	46362	205.00	—	47476	4.04	—
43628	108.00	—	44428	78.70	—	46426	30.00	—	47477	5.39	—
43629	91.80	—	44429	1.18	—	46427	40.10	—	47478	5.66	—
43754	(a)	—	44430	.82	—	46510	(a)	—	47600	(a)	—
43760	3.06	—	44431	2.62	—	46590	(a)	—	47610	(a)	—
43822	2.90	—	44432	.83	—	46603	2.52	—	48039	37.00	—
43840	.036	—	44433	26.50	—	46604	2.90	—	48177	(a)	—
43860	2.28	—	44434	50.60	—	46606	7.75	—	48178	(a)	—
43889	.82	—	44435	52.40	—	46607	10.70	—	48206	22.00	—
43945	(a)	—	44436	61.20	—	46622	8.46	—	48252	(a)	—
43946	(a)	—	44437	50.70	—	46671	(a)	—	48441	.093	—
43990	(a)	(a)	44438	40.10	—	46700	105.00	—	48557	9.26	—
43991	(a)	—	44439	78.00	—	46773	(a)	—	48558	8.05	—
44009	4.36	—	44440	64.60	—	46822	(a)	—	48600	60.00	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	8.91	—	44501	(a)	—	46882	(a)	—	48636	.86	(a)
44070	2.64	—	45190	3.52	—	46911	16.50	—	48637	7.07	—
44071	2.93	—	45191	2.50	—	46912	30.20	—	48638	3.51	—
44072	2.03	—	45192	2.93	—	46913	(a)	—	48727	(a)	—
44100	5.83	—	45193	1.73	—	46914	(a)	—	48808	1.89	—
44101	6.08	—	45210	2.19	—	46915	(a)	—	48924	(a)	—
44102	4.74	—	45224	(a)	—	46916	(a)	—	48925	169.00	—
44103	4.19	—	45225	(a)	—	47050	.79	—	49005	.135	—
44104	1.76	—	45334	30.10	—	47051	(a)	—	49111	2.89	—
44105	(a)	—	45380	.29	(a)	47052	(a)	—	49181	12.10	—
44106	(a)	—	45450	8.84	—	47103	(a)	—	49183	14.70	—
44108	2.07	—	45523	(a)	—	47146	(a)	—	49184	31.10	—
44109	5.22	—	45524	(a)	—	47147	(a)	—	49185	28.30	—
44110	5.35	—	45539	(a)	—	47221	115.00	—	49239	.216	.60
44111	3.28	—	45678	.214	—	47253	(a)	—	49292	.88	—
44112	1.94	—	45771	.44	.164	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.143	.083	47318	6.78	—	49333	6.48	—
44193	(a)	—	45900	.128	.052	47367	.198	—	49451	(a)	—
44194	(a)	—	45901	.11	.049	47420	1.48	—	49452	(a)	—
44222	(a)	—	45937	.118	—	47468	(a)	—	49617	.29	.224
44276	70.00	—	45993	(a)	(a)	47469	4.04	—	49618	.247	.073

## DIVISION SIX

PREM/OPS TERR. 503

## GENERAL LIABILITY

PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
49619	.47	.145	51315	.14	.106	51809	.22	.153	52341	.025	(a)
49763	3.02	—	51330	.053	.53	51833	.121	.06	52342	.071	(a)
49800	(a)	—	51333	.017	.34	51850	.127	(a)	52343	.044	(a)
49801	101.00	—	51340	.022	(a)	51851	.086	(a)	52401	.135	(a)
49802	8.99	—	51350	.187	.135	51852	.202	(a)	52402	.012	(a)
49803	15.90	—	51351	.167	.042	51853	.081	(a)	52432	.059	(a)
49840	.82	—	51352	.229	.108	51854	.182	(a)	52433	.054	1.02
49870	70.80	—	51355	.156	.094	51855	.191	(a)	52435	.068	(a)
49890	(a)	—	51356	.168	.62	51856	.105	(a)	52438	.049	(a)
49891	(a)	—	51357	.199	.66	51857	.18	(a)	52440	.077	(a)
49902	(a)	—	51358	.48	.141	51869	.059	.136	52467	.071	(a)
49903	(a)	—	51359	.42	.78	51877	.33	.212	52469	.025	.104
50010	.128	.49	51370	.26	4.57	51889	.054	.012	52505	.124	.216
50015	.083	(a)	51380	.026	.044	51896	.025	.018	52547	.117	.078
50017	.063	(a)	51400	.123	(a)	51900	.09	.095	52581	.60	2.95
50045	.144	(a)	51401	.181	(a)	51909	.115	.056	52619	.042	(a)
50047	.016	(a)	51500	.048	.119	51919	.055	(a)	52660	.07	—
51001	.03	.45	51516	.059	—	51926	.056	.038	52744	.46	.081
51005	.006	(a)	51517	.067	—	51927	.03	.131	52767	.107	(a)
51116	.075	.69	51550	.06	.39	51934	.061	.125	52876	(a)	(a)
51201	.022	(a)	51551	.021	.91	51941	.056	.041	52911	.034	.45
51205	.066	.071	51552	.036	.159	51942	.089	—	52967	.013	.062
51206	.01	.39	51553	.064	(a)	51956	.24	.221	53001	.124	.33
51210	.052	(a)	51554	.006	(a)	51957	.211	.42	53077	.06	.207
51211	(a)	(a)	51575	.05	.02	51958	.188	.41	53095	.041	(a)
51220	.177	2.28	51576	.115	.093	51959	.192	(a)	53096	.057	(a)
51221	.098	1.78	51600	.078	.191	51960	.025	.35	53121	.162	.44
51222	.12	3.67	51613	.052	.139	51970	.11	.238	53147	.018	(a)
51224	.126	1.45	51625	.027	(a)	51982	.032	.083	53229	.101	(a)
51230	.021	.79	51666	.079	.101	51985	.055	—	53271	.03	(a)
51240	.26	.185	51702	.081	(a)	51986	.128	.103	53333	.099	.239
51241	.78	.26	51703	.034	(a)	51999	.054	.44	53374	.122	.31
51250	.136	(a)	51734	.063	.31	52002	.047	.129	53375	.065	.223
51251	.023	(a)	51741	.137	.26	52075	.10	.243	53376	.104	.194
51252	.079	.10	51752	.115	.165	52076	.121	(a)	53377	.106	.195
51253	.068	(a)	51767	.023	.008	52109	.012	(a)	53403	.067	(a)
51254	.021	.039	51777	.08	.078	52134	.158	.63	53425	.094	(a)
51255	.35	(a)	51790	.134	(a)	52137	.039	(a)	53565	.078	.108
51300	.111	.16	51796	.05	(a)	52150	.29	(a)	53631	.019	.022
51305	.111	.96	51808	.177	.73	52315	.105	.26	53632	.022	.034

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
53731	.02	(a)	56170	.092	(a)	57401	.039	.096	58503	.047	.076
53732	.135	.45	56171	.045	(a)	57403	.165	.035	58532	.061	(a)
53733	.088	.27	56202	.045	.089	57410	.019	.162	58559	.012	(a)
53734	.36	—	56390	.079	.64	57411	.023	(a)	58560	.03	(a)
53803	.223	(a)	56391	.068	.32	57572	.011	.108	58561	(a)	(a)
53901	(a)	(a)	56427	.109	.125	57600	.033	.034	58575	.039	.12
53902	(a)	(a)	56488	.134	.034	57611	.049	.062	58627	.124	.013
53903	(a)	(a)	56567	.095	(a)	57625	.29	(a)	58663	.211	1.28
53904	(a)	(a)	56650	.29	(a)	57651	.036	.041	58682	.11	(a)
53905	(a)	(a)	56651	.158	(a)	57690	.064	.49	58713	.051	(a)
53907	.059	.103	56652	.113	(a)	57716	.03	.082	58737	.08	.63
53951	(a)	(a)	56653	.109	(a)	57725	.066	.088	58756	.039	(a)
53952	(a)	(a)	56654	.056	(a)	57726	.052	.021	58757	.27	(a)
53953	(a)	(a)	56690	.069	.35	57798	.018	(a)	58759	.033	(a)
54012	.036	—	56699	.05	.057	57800	.067	(a)	58802	.038	.48
54077	.081	.40	56758	.043	.148	57808	.025	(a)	58813	.097	(a)
54444	(a)	(a)	56759	.044	.08	57809	.026	(a)	58822	.104	(a)
55010	.245	1.08	56760	.063	.098	57810	.025	.107	58837	.195	.162
55011	.066	1.57	56805	.082	(a)	57871	.03	.118	58840	.058	.127
55012	.079	1.18	56806	.058	(a)	57913	.087	.29	58873	.093	.03
55013	.085	1.14	56807	.058	(a)	57997	.079	—	58903	.024	(a)
55014	(a)	(a)	56808	.076	(a)	57998	.039	.058	58904	.018	.128
55214	.064	.088	56900	.073	(a)	57999	.042	.071	58922	.154	.168
55371	.31	.119	56910	.036	(a)	58009	.042	(a)	59005	.045	.096
55410	(a)	(a)	56911	.082	(a)	58010	.09	(a)	59057	.33	(a)
55426	.103	(a)	56912	.066	.09	58020	.177	(a)	59058	.216	(a)
55597	.016	1.79	56913	.054	(a)	58056	.107	(a)	59188	.35	.055
55647	.032	.062	56915	.32	(a)	58057	.067	(a)	59189	.48	.30
55648	.014	(a)	56916	.29	.205	58058	.06	(a)	59223	.096	.088
55649	.017	(a)	56917	.084	(a)	58095	.085	1.99	59257	.012	.013
55715	.127	.224	56918	.04	(a)	58096	.113	1.23	59306	.076	(a)
55716	.183	.52	56919	.103	(a)	58301	.032	.088	59378	.062	.15
55717	.135	(a)	56920	.094	(a)	58302	.03	.055	59481	.205	.099
55718	.131	(a)	56980	.063	(a)	58397	.177	.74	59482	.37	(a)
55802	.08	.009	57001	.022	.043	58408	.047	—	59537	.067	.21
55918	.073	2.74	57002	.014	.106	58409	.059	—	59601	.077	2.37
55919	.01	3.65	57090	.15	.66	58456	.032	—	59647	.163	.17
56040	.007	.033	57146	.095	.72	58457	.046	—	59660	.142	1.18
56041	.045	(a)	57202	.056	(a)	58458	.059	—	59661	.07	(a)
56042	.057	(a)	57257	.069	.035	58459	.071	—	59693	.012	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
59695	(a)	(a)	59964	.35	.069	63220	(a)	—	91190	2.06	(a)
59701	.006	.29	59970	.057	.183	64074	24.90	—	91200	.78	—
59713	.127	.31	59973	.097	(a)	64075	17.50	—	91210	(a)	—
59722	.066	.031	59975	.08	.227	64500	(a)	—	91235	2.83	4.22
59723	.025	.037	59977	.046	(a)	65007	32.00	—	91250	4.26	(a)
59724	.038	.019	59984	.027	.053	66122	13.80	—	91265	16.80	3.60
59725	.047	.116	59985	.104	(a)	66123	7.55	—	91266	8.87	1.72
59726	.035	.024	59986	.08	(a)	66309	22.10	—	91280	(a)	3.32
59738	.11	.064	59988	.021	.059	66561	51.10	—	91302	14.20	(a)
59750	.05	.222	59989	.014	.044	67017	47.40	—	91315	4.31	—
59751	.018	(a)	60010	18.50	—	67508	32.40	—	91324	9.59	(a)
59773	.021	.028	60011	21.20	—	67509	23.70	—	91325	(a)	(a)
59774	.017	.15	60012	34.90	—	67510	13.20	—	91340	6.26	11.10
59775	.022	.188	60013	29.90	—	67511	14.30	—	91341	4.38	6.28
59781	.044	.068	60015	22.30	—	67512	61.20	—	91342	5.74	4.39
59782	.065	.46	60016	25.10	—	67513	38.80	—	91343	.97	2.42
59783	.063	(a)	60035	36.00	—	67634	41.10	—	91405	7.30	—
59784	.048	(a)	61000	18.30	—	67635	29.00	—	91436	4.96	3.84
59790	.085	(a)	61212	18.40	—	68001	88.70	—	91481	18.10	—
59798	.165	.50	61216	20.40	—	68439	114.00	—	91507	2.67	4.70
59806	.118	(a)	61217	18.60	—	68500	4.06	—	91523	41.10	—
59867	.096	(a)	61218	12.70	—	68604	2.13	—	91547	.234	—
59886	.013	.108	61223	90.20	—	68606	8.33	—	91551	1.45	1.04
59889	.068	.165	61224	28.80	—	68607	6.58	—	91555	1.70	1.24
59892	.063	(a)	61225	39.90	—	68702	5.42	—	91560	4.90	5.83
59904	.043	.061	61226	67.20	—	68703	4.07	—	91562	3.23	—
59905	.06	.132	61227	61.50	—	68706	17.40	—	91577	11.60	4.54
59914	.35	.68	62000	14.00	—	68707	17.20	—	91580	6.47	—
59915	.142	.75	62001	11.00	—	90089	4.19	—	91581	(a)	(a)
59917	.026	.205	62002	5.04	—	91111	3.65	7.33	91582	(a)	(a)
59923	.009	.004	62003	15.90	—	91125	2.53	2.89	91583	(a)	(a)
59925	.43	1.19	63010	33.20	—	91127	2.45	1.93	91584	(a)	(a)
59926	.37	.45	63011	41.50	—	91130	1.37	—	91585	(a)	(a)
59927	.247	1.42	63012	59.10	—	91135	.38	(a)	91586	(a)	(a)
59931	.158	.55	63013	55.90	—	91150	2.32	6.43	91587	(a)	(a)
59932	.17	.88	63215	52.50	—	91155	5.15	46.80	91588	(a)	(a)
59941	.053	(a)	63216	36.40	—	91160	1.01	—	91589	(a)	(a)
59947	.043	.32	63217	32.30	—	91175	.87	—	91590	3.35	—
59955	.02	.143	63218	10.90	—	91177	3.82	—	91591	(a)	(a)
59963	.151	.41	63219	(a)	—	91179	3.84	—	91606	13.40	—

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Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
91618	(a)	(a)	95357	1.37	—	97653	3.04	4.75	98426	2.46	(a)
91629	2.74	(a)	95358	(a)	—	97654	5.30	4.41	98427	2.40	—
91636	4.70	—	95410	4.30	3.91	97655	5.14	6.40	98428	(a)	—
91641	1.27	(a)	95455	5.68	2.04	98002	.93	1.10	98429	1.22	—
91666	.90	(a)	95487	2.31	(a)	98003	.95	(a)	98430	(a)	—
91722	4.11	(a)	95505	2.65	2.75	98090	.128	—	98449	3.45	30.40
91746	3.23	8.00	95620	1.87	(a)	98091	.139	—	98482	3.69	9.19
91805	.203	—	95625	6.78	4.95	98092	.42	—	98483	5.46	26.20
92053	.50	.63	95630	(a)	(a)	98111	.72	—	98502	5.22	5.19
92054	.171	.239	95647	3.41	9.43	98150	(a)	—	98555	2.43	—
92055	4.79	.28	95648	(a)	(a)	98151	(a)	—	98597	.55	—
92101	7.48	4.83	96053	2.59	6.69	98152	3.14	.94	98598	.187	—
92102	4.51	4.60	96317	1.42	—	98153	3.53	(a)	98601	6.25	(a)
92215	4.06	3.20	96408	3.73	20.90	98154	4.16	(a)	98622	(a)	—
92338	1.73	2.43	96409	3.45	14.30	98155	5.83	(a)	98623	(a)	—
92445	2.69	—	96410	3.02	11.80	98156	(a)	(a)	98624	.98	—
92446	5.69	2.70	96611	1.44	2.46	98157	3.72	.71	98636	3.48	4.38
92447	4.97	2.72	96702	4.29	(a)	98158	(a)	(a)	98640	108.00	—
92451	2.83	3.19	96703	(a)	—	98159	2.50	(a)	98658	6.03	—
92453	3.15	—	96816	4.02	—	98160	5.29	(a)	98659	1.08	.57
92478	1.56	2.66	96872	5.05	(a)	98161	5.93	(a)	98677	17.00	12.90
92593	37.20	—	96930	(a)	—	98162	(a)	(a)	98678	15.10	18.60
92663	.64	—	97002	(a)	(a)	98163	6.22	.32	98698	(a)	(a)
94007	10.70	6.90	97003	(a)	(a)	98164	2.39	.10	98699	4.91	(a)
94099	2.43	—	97047	4.37	—	98257	1.43	—	98705	8.52	—
94225	8.56	—	97050	3.39	—	98303	11.70	9.03	98710	3.41	—
94276	4.46	5.27	97111	5.14	—	98304	5.32	4.13	98751	4.56	—
94304	3.61	(a)	97220	.37	(a)	98305	3.50	2.22	98805	4.46	1.52
94381	6.78	14.80	97221	(a)	1.50	98306	9.02	.97	98806	3.24	5.29
94404	4.22	7.33	97222	1.87	2.58	98307	1.68	.59	98810	4.94	—
94444	(a)	(a)	97223	2.83	4.44	98308	1.11	1.17	98813	4.77	2.13
94569	2.85	5.19	97308	.69	—	98309	5.88	2.17	98820	8.51	4.12
94590	12.30	—	97447	2.25	6.09	98344	.98	1.08	98871	(a)	(a)
94617	3.88	—	97501	(a)	—	98405	1.61	—	98884	2.21	2.00
94638	(a)	—	97502	(a)	—	98413	14.00	(a)	98914	.73	.61
95124	1.43	.89	97503	(a)	—	98414	12.80	(a)	98949	1.03	.40
95233	3.07	—	97504	(a)	—	98415	1.68	(a)	98967	3.48	13.30
95305	3.34	—	97650	3.55	4.47	98423	4.01	(a)	98993	6.65	4.65
95306	5.39	—	97651	6.66	5.14	98424	6.80	(a)	99003	1.65	1.92
95310	7.97	1.22	97652	5.78	6.43	98425	2.79	(a)	99004	3.96	1.95

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 503 Products/Completed Operations (Prod/Cops) (Subline Code 336) Entire State Territory 999											
Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops	Class Code	Prem/ Ops	Prod/ Cops
99080	1.17	11.50	99826	.98	.65						
99081	(a)	—	99827	.42	.60						
99082	(a)	—	99851	1.71	—						
99083	(a)	—	99917	2.78	—						
99084	(a)	(a)	99938	3.12	—						
99085	(a)	(a)	99943	9.04	—						
99111	1.70	—	99946	6.73	2.97						
99160	(a)	—	99948	8.01	35.00						
99163	4.05	.70	99952	7.24	23.30						
99165	.89	(a)	99953	7.81	13.90						
99220	1.62	(a)	99954	5.69	11.70						
99221	(a)	(a)	99955	7.12	8.77						
99222	3.04	(a)	99963	.67	—						
99223	.249	(a)	99969	2.94	2.94						
99303	13.60	—	99975	6.32	—						
99310	3.40	(a)	99986	(a)	—						
99315	9.99	2.99	99987	(a)	—						
99321	9.70	3.64	99988	2.60	—						
99445	(a)	(a)									
99471	.73	—									
99505	5.62	—									
99506	6.92	—									
99507	6.03	—									
99570	3.24	(a)									
99571	.78	(a)									
99572	1.53	(a)									
99573	1.47	(a)									
99600	1.72	—									
99613	8.59	3.40									
99614	3.85	—									
99620	.47	—									
99650	1.53	1.55									
99709	3.78	(a)									
99718	1.37	—									
99746	2.32	3.44									
99760	.27	—									
99777	8.56	—									
99793	2.95	—									
99798	(a)	(a)									
99803	(a)	11.80									