

LOSS COSTS – IMPLEMENTATION

JULY 19, 2019

GENERAL LIABILITY

LI-GL-2019-175

## MICHIGAN GENERAL LIABILITY ADVISORY PROSPECTIVE LOSS COST REVISION TO BE IMPLEMENTED

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### KEY MESSAGE

Revised overall prospective loss costs for -3.2% to be implemented.

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### BACKGROUND

In circular [LI-GL-2019-139](#), we provided you with information about the General Liability loss cost level experience review.

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### ISO ACTION

We are implementing GL-2019-BGL1, which presents a review of General Liability loss cost experience. Refer to the attachment(s) for complete details.

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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

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

These changes are applicable to all policies written on or after December 1, 2019.

This effective date applies only to those insurers who have filed their Commercial General Liability loss cost adjustments to be automatically applicable to future ISO loss cost revisions.

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

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

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## COMPANY ACTION

You must independently determine the final rates you will use. The action, if any, you must take in response to this filing is dependent upon how you filed to have your loss cost adjustments apply to subsequent revisions of ISO loss costs. Any submission you make with respect to this revision must comply with applicable regulatory filing requirements.

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

WE WILL SUBMIT OUR REFERENCE FILING TO THE INSURANCE DEPARTMENT ON **NOVEMBER 1, 2019**. ANY SUBMISSION YOU MAY MAKE WITH THE INSURANCE DEPARTMENT WITH RESPECT TO THIS FILING SHOULD NOT BE SUBMITTED PRIOR TO THIS DATE.

In all correspondence with the Insurance Department on this revision, you should refer to ISO Reference Filing Number GL-2019-BGL1, NOT this circular number.

CAUTION: This reference filing revises only certain advisory prospective loss costs for Commercial General in this state. In determining whether or not to revise your rates, you should consider the application of your loss cost adjustments to any loss costs not included in this revision.

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## RATING SOFTWARE IMPACT

No new attributes are being introduced with this revision.

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## POLICYHOLDER NOTIFICATION

If you decide to implement this revision, you should check all applicable laws for the state(s) to which this revision applies, to determine whether or not a specific policyholder notice requirement may apply. Please note that circular LI-CL-2018-044 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 12-19 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

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## REFERENCE(S)

- LI-GL-2019-139 (06/12/2019) General Liability Basic Limit Experience For 2019 Group 3 Jurisdictions Reviewed By Staff
- LI-CL-2018-044 (11/27/2018) Revised Lead Time Requirements Listing

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## ATTACHMENT(S)

- GL-2019-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 was 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, David Terné, am a Managing Director of Strategic Actuarial Operations 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).

MICHIGAN GL-2019-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 - 3.2% 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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LOSS COST  
LEVEL CHANGES

The statewide advisory loss cost level changes are:

<u>SUBLINE</u>	<u>INDICATED</u>	<u>SELECTED</u>
M&C	- 7.6%	- 7.6%
OL&T	+ 1.9%	+ 1.9%
Premises/Operations	- 2.7%	- 2.7%
Products	- 9.7%	- 9.7%
Local Products/Completed Operations	- 0.5%	- 0.5%
Products/Completed Operations	- 4.6%	- 4.6%
GL Overall	- 3.2%	- 3.2%

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

Indicated changes are based on standard ISO methodology. The selected changes are equal to the indicated changes for all sublines.

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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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## CHANGES TO ECONOMETRIC DATA

ISO reviewed the economic series underlying the exposure trends for Premises/Operations and Products/Completed Operations classes with inflation sensitive exposure bases. As a result, ISO made some changes in order to improve the correspondence between elements of the National Income and Products Accounts (NIPA) and those classes. In particular, ISO updated the consumption components used in the determination of the exposure trend for OL&T Class Groups 1-13 by revising the composition of the 'Furniture' component, changing the 'Food' component to 'Food and Accommodation' and adding a 'Recreation' component. Also, wherever else appropriate, any item incorporating 'Food' has been revised to also include 'Accommodation'. The economic data is still supplied by Moody's Analytics.

In addition, in July 2018, the Bureau of Economic Analysis (U.S. Department of Commerce) released a comprehensive update of NIPA, which included a change in the reference year from 2009 to 2012. As a result, ISO also updated the base year used in the determination of inflation indices from 2009 to 2012.

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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 6/30/2018 for Premises/Operations.
- Calendar-accident year data through year ended 12/31/2017 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 12/1/2019. The Products/Completed Operations portion of this review uses a trend date of 7/1/2019 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 6/30/2018 were used in selecting annual trend factors. For Products/Completed Operations, occurrence cost data and occurrence frequency data through 12/31/2017 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.

ADJUSTMENTS  
TO REPORTED  
EXPERIENCE  
(CONT'D)

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.

TEN  
LARGEST  
COMPANY  
GROUPS IN  
ISO  
DATA  
BASE

OTHER LIABILITY (ASLOB 17.0)

- 1 Travelers Indemnity Co.
- 2 Chubb Group of Insurance Cos.
- 3 Continental Casualty Co.
- 4 Zurich American Insurance Co.
- 5 Cincinnati Insurance Co.
- 6 Liberty Mutual Insurance Co.
- 7 XL Specialty Insurance Co.
- 8 Selective Insurance Group
- 9 Employers Mutual Casualty Co.
- 10 Hartford Acc & Indemnity Co.

PRODUCTS LIABILITY (ASLOB 18.0)

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

Insurers are listed in descending order based on the percent of written premium volume from Statutory Page 14 Data for the year ending 12/31/2017 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 12/31/2017 is:

Statewide - Other Liability (ASLOB 17.0)	34.6%
Multistate - Products Liability (ASLOB 18.0)	45.0%

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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MICHIGAN  
PRIOR REVISIONS

The latest implemented revisions in this state are:

Document: GL-2018-BGL1

<u>Coverage</u>	<u>Effective Date</u>	<u>Loss Cost Level Changes</u>		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 8.6%	- 8.6%	- 8.6%
OL&T		+ 6.0%	+ 6.0%	+ 6.0%
Prem/Ops Combined		- 1.4%	- 1.4%	- 1.4%
Products		- 8.2%	- 8.2%	- 8.2%
Local Products/Completed Ops		- 7.6%	- 7.6%	- 7.6%
Products/Completed Ops Combined		- 7.9%	- 7.9%	- 7.9%
General Liability Overall	12/1/2018	- 3.1%	- 3.1%	- 3.1%

Document: GL-2017-BGL1

<u>Coverage</u>	<u>Effective Date</u>	<u>Loss Cost Level Changes</u>		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 5.0%	- 5.0%	- 5.0%
OL&T		-11.9%	-11.9%	-11.9%
Prem/Ops Combined		- 8.3%	- 8.3%	- 8.3%
Products		- 7.5%	- 7.5%	- 7.5%
Local Products/Completed Ops		- 3.2%	- 3.2%	- 3.2%
Products/Completed Ops Combined		- 4.9%	- 4.9%	- 4.9%
General Liability Overall	12/1/2017	- 7.5%	- 7.5%	- 7.5%

Document: GL-2016-BGL1

<u>Coverage</u>	<u>Effective Date</u>	<u>Loss Cost Level Changes</u>		
		<u>Indicated</u>	<u>Selected</u>	<u>Implemented</u>
M&C		- 6.0%	- 6.0%	- 6.0%
OL&T		- 12.1%	- 12.1%	- 12.1%
Prem/Ops Combined		- 9.1%	- 9.1%	- 9.1%
Products		- 7.2%	- 7.2%	- 7.2%
Local Products/Completed Ops		- 4.0%	- 4.0%	- 4.0%
Products/Completed Ops Combined		- 5.4%	- 5.4%	- 5.4%
General Liability Overall	2/1/2017	- 8.1%	- 8.1%	- 8.1%

**GENERAL LIABILITY OTHER THAN PROFESSIONAL  
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**GENERAL LIABILITY OTHER THAN PROFESSIONAL  
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# MICHIGAN

## 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)	- 4.1%	+ 0.6%	- 1.7%				
Statewide Indicated Monoline Loss Cost Level Change (See Section C)	- 7.6%	+ 1.9%	- 2.7%	- 9.7% *	- 0.5% **	- 4.6%	- 3.2%
Statewide Selected Monoline Loss Cost Level Change (See Section C)	- 7.6%	+ 1.9%	- 2.7%	- 9.7% *	- 0.5%	- 4.6%	- 3.2%

\* 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.

MICHIGAN

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

<u>CODE</u>	<u>TERRITORY DESCRIPTION</u>	<u>LATEST YEAR MONO/MULTI AGGREGATE LOSS COSTS AT CURRENT LEVEL (ALCCL)</u>	<u>INDICATED LOSS COST LEVEL CHANGE BEFORE CAPPING</u>	<u>LOSS COST LEVEL CHANGE AFTER CAPPING</u>
501	Detroit and Vicinity	\$ 3,529,726	+ 0.3%	+ 0.3%
503	Detroit Suburban	7,915,300	+ 2.5%	+ 2.5%
504	Ann Arbor, Battle Creek, Bay City, Benton Harbor, Flint, Grand Rapids, Jackson, Kalamazoo, Lansing, Midland, Muskegon, Niles, Port Huron, Saginaw, Saint Joseph and Ypsilanti	3,043,489	+ 5.4%	+ 5.4%
505	Remainder of State	5,862,305	+ 0.2%	+ 0.3%
	STATEWIDE TOTAL	\$ 20,350,820	+ 1.9%	+ 1.9%



MICHIGAN

PREMISES/OPERATIONS  
CLASS GROUP LOSS COST LEVEL CHANGES

MANUFACTURERS AND CONTRACTORS LIABILITY INSURANCE

<u>CLASS GROUP</u>	<u>DESCRIPTION</u>	LATEST YEAR MONO/MULTI <u>ALCCL</u>	INDICATED LOSS COST LEVEL CHANGE <u>BEFORE CAPPING</u>	LOSS COST LEVEL CHANGE <u>AFTER CAPPING</u>
30	SERVICE	\$ 1,314,293	- 4.6%	- 5.5%
31	LIGHT CONTRACTING	2,219,530	- 4.5%	- 5.4%
32	MEDIUM CONTRACTING	7,374,640	- 6.1%	- 7.0%
33	HEAVY CONTRACTING	1,890,626	- 9.8%	- 10.6%
34	DEALERS OR DISTRIBUTORS	2,003,185	- 8.6%	- 6.9%
35	LIGHT MANUFACTURERS	268,556	- 7.9%	- 6.2%
36	MEDIUM MANUFACTURERS	1,504,739	- 15.0%	- 13.1%
37	HEAVY MANUFACTURERS	1,196,325	- 11.1%	- 9.7%
38	MISCELLANEOUS OPERATIONS	1,441,584	- 6.9%	- 5.2%
	TOTAL	\$ 19,213,478	- 7.6%	- 7.6%

OWNERS, LANDLORDS AND TENANTS LIABILITY INSURANCE

<u>CLASS GROUP</u>	<u>DESCRIPTION</u>	LATEST YEAR MONO/MULTI <u>ALCCL</u>	INDICATED LOSS COST LEVEL CHANGE <u>BEFORE CAPPING</u>	LOSS COST LEVEL CHANGE <u>AFTER CAPPING</u>
01	FOOD AND BEVERAGE (RETAIL)	\$ 1,422,761	- 2.5%	- 2.6%
02	RESTAURANTS	2,578,703	+ 0.6%	+ 0.3%
03	STORES	1,006,398	+ 0.6%	+ 0.4%
04	VENDING AND RENTAL	56,330	+ 5.6%	+ 5.5%
05	FOOD AND BEVERAGE DISTRIBUTORS	218,737	- 0.4%	- 0.8%
06	NON-(FOOD AND BEVERAGE) DISTRIB.	973,500	- 1.1%	- 0.9%
07	CLUBS, AMUSEMENTS AND SPORTS	1,319,999	+ 12.9%	+ 13.0%
08	HEALTH CARE FACILITIES	284,698	+ 1.8%	+ 1.6%
09	HOTELS AND MOTELS	1,221,617	- 0.1%	- 0.1%
10	SCHOOLS AND CHURCHES	1,204,747	+ 3.5%	+ 3.2%
11	APARTMENTS	3,948,382	- 0.2%	0.0%
12	BUILDINGS AND OFFICES	5,665,440	+ 3.2%	+ 3.3%
13	MISCELLANEOUS PREMISES	321,492	+ 3.9%	+ 3.5%
16	GOVERNMENTAL SUBDIVISIONS	128,016	- 1.0%	+ 0.2%
	TOTAL	\$ 20,350,820	+ 1.9%	+ 1.9%

MICHIGAN

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 <u>LEVEL</u>	INDICATED MULTISTATE LOSS COST LEVEL <u>CHANGE</u>	LATEST YEAR STATEWIDE MONO/MULTI ALCCL AT CURRENT <u>LEVEL</u>	INDICATED STATEWIDE LOSS COST LEVEL <u>CHANGE</u>	SELECTED STATEWIDE LOSS COST LEVEL <u>CHANGE</u>
03	MANUFACTURERS, DEALERS OR DISTRIBUTORS-FOOD OR DRUG	\$ 39,868,160	- 13.9%	\$ 1,212,902	- 10.0%	- 10.0%
04	DEALERS OR DISTRIBUTORS-NOT FOOD OR DRUG	41,826,258	- 8.7%	1,582,620	- 6.6%	- 6.6%
05	MANUFACTURERS-NOT FOOD OR DRUG-LOW	5,676,294	- 9.2%	281,001	- 2.2%	- 2.2%
06	MANUFACTURERS-NOT FOOD OR DRUG-MEDIUM	37,951,725	- 10.2%	1,477,075	- 12.7%	- 12.7%
07	MANUFACTURERS-NOT FOOD OR DRUG-HIGH	9,915,282	- 10.3%	870,587	- 12.0%	- 12.0%
	PRODUCTS SUBTOTAL	\$ 135,237,719	- 10.8%	\$ 5,424,185	- 9.7%	- 9.7%
01	RETAIL STORES-FOOD OR DRUG			\$ 291,124	- 5.7%	- 5.7%
02	RETAIL STORES-NOT FOOD OR DRUG			520,788	+ 0.5%	+ 0.5%
11	COMPLETED OPERATIONS-LOW			332,768	+ 6.9%	+ 5.3%
12	COMPLETED OPERATIONS-MEDIUM			5,038,192	- 0.1%	- 0.1%
13	COMPLETED OPERATIONS-HIGH			560,738	- 6.7%	- 6.1%
	LOCAL PRODUCTS/COMPLETED OPERATIONS SUBTOTAL			\$ 6,743,610	- 0.5%	- 0.5%
	TOTAL			\$ 12,167,795	- 4.6%	- 4.6%

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 -28% relative to current loss costs;
- OL&T classes reflect an upper cap of +27% and a lower cap of -20% relative to current loss costs;
- Products classes reflect an upper cap of +25% and a lower cap of -31% relative to current multistate loss costs;
- Local Products/Completed Operations classes reflect an upper cap of +25% and a lower cap of -21% 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: 0.991

OL&T: 0.999

LP/CO: 0.997

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

STATE: 21 - MICHIGAN  
 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	.083	.086	-3.5	10060	505	.101	.102	-1.0	10101	504	.124	.119	4.2
10010	503	.097	.097	0.0	10065	501	.160	.161	-0.6	10101	505	.136	.137	-0.7
10010	504	.055	.054	1.9	10065	503	.207	.204	1.5	10105	501	1.560	1.580	-1.3
10010	505	.082	.085	-3.5	10065	504	.137	.132	3.8	10105	503	2.020	1.990	1.5
10015	501	4.970	4.470	11.2	10065	505	.151	.152	-0.7	10105	504	1.340	1.290	3.9
10015	503	8.270	7.270	13.8	10066	501	.163	.165	-1.2	10105	505	1.470	1.490	-1.3
10015	504	4.960	4.250	16.7	10066	503	.211	.208	1.4	10107	501	1.580	1.700	-7.1
10015	505	3.490	3.140	11.1	10066	504	.140	.135	3.7	10107	503	2.040	2.200	-7.3
10026	501	.390	.390	0.0	10066	505	.154	.155	-0.6	10107	504	1.700	1.820	-6.6
10026	503	.500	.500	0.0	10070	501	.048	.049	-2.0	10107	505	1.480	1.580	-6.3
10026	504	.330	.320	3.1	10070	503	.055	.056	-1.8	10110	501	16.900	15.200	11.2
10026	505	.370	.370	0.0	10070	504	.032	.031	3.2	10110	503	28.200	24.800	13.7
10036	501	.330	.360	-8.3	10070	505	.047	.049	-4.1	10110	504	16.900	14.500	16.6
10036	503	.430	.460	-6.5	10071	501	.191	.193	-1.0	10110	505	11.900	10.700	11.2
10036	504	.360	.380	-5.3	10071	503	.247	.244	1.2	10111	501	.104	.107	-2.8
10036	505	.310	.330	-6.1	10071	504	.164	.158	3.8	10111	503	.121	.121	0.0
10040	501	.064	.065	-1.5	10071	505	.180	.182	-1.1	10111	504	.069	.068	1.5
10040	503	.073	.074	-1.4	10072	501	2.580	2.740	-5.8	10111	505	.103	.106	-2.8
10040	504	.042	.041	2.4	10072	503	4.600	4.850	-5.2	10113	501	.216	.218	-0.9
10040	505	.062	.065	-4.6	10072	504	2.270	2.380	-4.6	10113	503	.280	.280	0.0
10042	501	.223	.225	-0.9	10072	505	3.060	3.210	-4.7	10113	504	.186	.178	4.5
10042	503	.290	.280	3.6	10073	501	.520	.560	-7.1	10113	505	.204	.206	-1.0
10042	504	.191	.184	3.8	10073	503	.670	.720	-6.9	10115	501	.430	.430	0.0
10042	505	.210	.212	-0.9	10073	504	.560	.600	-6.7	10115	503	.550	.550	0.0
10052	501	3.440	3.090	11.3	10073	505	.480	.520	-7.7	10115	504	.370	.350	5.7
10052	503	5.720	5.030	13.7	10075	501	3.840	4.130	-7.0	10115	505	.410	.410	0.0
10052	504	3.430	2.940	16.7	10075	503	4.940	5.330	-7.3	10117	501	4.940	4.440	11.3
10052	505	2.410	2.170	11.1	10075	504	4.140	4.420	-6.3	10117	503	8.220	7.220	13.9
10054	501	3.050	2.740	11.3	10075	505	3.580	3.830	-6.5	10117	504	4.920	4.220	16.6
10054	503	5.080	4.460	13.9	10100	501	.560	.580	-3.4	10117	505	3.470	3.120	11.2
10054	504	3.040	2.610	16.5	10100	503	.580	.590	-1.7	10120	501	11.100	9.960	11.4
10054	505	2.140	1.930	10.9	10100	504	.380	.380	0.0	10120	503	18.400	16.200	13.6
10060	501	.107	.108	-0.9	10100	505	.350	.360	-2.8	10120	504	11.000	9.460	16.3
10060	503	.138	.136	1.5	10101	501	.144	.146	-1.4	10120	505	7.780	7.000	11.1
10060	504	.092	.088	4.5	10101	503	.186	.184	1.1	10130	501	2.130	2.150	-0.9

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STATE: 21 - MICHIGAN  
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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
10130	503	2.750	2.710	1.5	10160	501	1.340	1.350	-0.7	10315	505	.216	.218	-0.9
10130	504	1.830	1.760	4.0	10160	503	1.730	1.700	1.8	10331	501	6.740	6.070	11.0
10130	505	2.010	2.030	-1.0	10160	504	1.150	1.100	4.5	10331	503	11.200	9.860	13.6
10132	501	1.830	1.850	-1.1	10160	505	1.260	1.270	-0.8	10331	504	6.720	5.760	16.7
10132	503	2.370	2.340	1.3	10204	501	.135	.136	-0.7	10331	505	4.730	4.260	11.0
10132	504	1.580	1.510	4.6	10204	503	.174	.172	1.2	10332	501	11.600	10.500	10.5
10132	505	1.730	1.750	-1.1	10204	504	.116	.111	4.5	10332	503	19.300	17.000	13.5
10133	501	2.650	2.570	3.1	10204	505	.127	.128	-0.8	10332	504	11.600	9.940	16.7
10133	503	2.680	2.520	6.3	10205	501	.151	.152	-0.7	10332	505	8.170	7.350	11.2
10133	504	1.890	1.730	9.2	10205	503	.194	.192	1.0	10352	501	.330	.340	-2.9
10133	505	1.450	1.400	3.6	10205	504	.129	.124	4.0	10352	503	.340	.340	0.0
10140	501	.022	.022	0.0	10205	505	.142	.143	-0.7	10352	504	.224	.221	1.4
10140	503	.023	.023	0.0	10220	501	2.840	2.860	-0.7	10352	505	.201	.208	-3.4
10140	504	.018	.017	5.9	10220	503	3.660	3.610	1.4	10367	501	2.280	2.420	-5.8
10140	505	.016	.016	0.0	10220	504	2.430	2.340	3.8	10367	503	4.060	4.290	-5.4
10141	501	.043	.045	-4.4	10220	505	2.670	2.700	-1.1	10367	504	2.010	2.110	-4.7
10141	503	.046	.046	0.0	10255	501	.123	.132	-6.8	10367	505	2.710	2.840	-4.6
10141	504	.036	.035	2.9	10255	503	.159	.171	-7.0	10368	501	3.340	3.530	-5.4
10141	505	.032	.032	0.0	10255	504	.133	.142	-6.3	10368	503	5.940	6.270	-5.3
10145	501	.208	.214	-2.8	10255	505	.115	.123	-6.5	10368	504	2.930	3.080	-4.9
10145	503	.222	.222	0.0	10256	501	.450	.480	-6.3	10368	505	3.950	4.150	-4.8
10145	504	.173	.168	3.0	10256	503	.580	.630	-7.9	10378	501	6.820	6.140	11.1
10145	505	.152	.154	-1.3	10256	504	.490	.520	-5.8	10378	503	11.400	9.980	14.2
10146	501	.250	.260	-3.8	10256	505	.420	.450	-6.7	10378	504	6.810	5.830	16.8
10146	503	.260	.260	0.0	10257	501	.085	.091	-6.6	10378	505	4.790	4.320	10.9
10146	504	.172	.169	1.8	10257	503	.109	.118	-7.6	10379	501	3.170	2.850	11.2
10146	505	.154	.159	-3.1	10257	504	.092	.098	-6.1	10379	503	5.270	4.630	13.8
10150	501	.300	.300	0.0	10257	505	.079	.085	-7.1	10379	504	3.160	2.710	16.6
10150	503	.380	.380	0.0	10309	501	.097	.098	-1.0	10379	505	2.230	2.000	11.5
10150	504	.260	.246	5.7	10309	503	.126	.124	1.6	10380	501	5.410	4.870	11.1
10150	505	.280	.280	0.0	10309	504	.083	.080	3.7	10380	503	9.000	7.910	13.8
10151	501	7.500	7.570	-0.9	10309	505	.092	.093	-1.1	10380	504	5.390	4.620	16.7
10151	503	9.690	9.550	1.5	10315	501	.229	.231	-0.9	10380	505	3.800	3.420	11.1
10151	504	6.440	6.190	4.0	10315	503	.300	.290	3.4	10381	501	4.680	4.220	10.9
10151	505	7.080	7.140	-0.8	10315	504	.197	.189	4.2	10381	503	7.800	6.850	13.9

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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
10381	504	4.670	4.000	16.7	11155	503	.166	.164	1.2	11208	501	.850	.900	-5.6
10381	505	3.290	2.960	11.1	11155	504	.110	.106	3.8	11208	503	1.520	1.600	-5.0
11007	501	.970	1.030	-5.8	11155	505	.121	.122	-0.8	11208	504	.750	.790	-5.1
11007	503	1.730	1.820	-4.9	11167	501	.640	.610	4.9	11208	505	1.010	1.060	-4.7
11007	504	.850	.900	-5.6	11167	503	.640	.600	6.7	11209	501	4.010	4.250	-5.6
11007	505	1.150	1.210	-5.0	11167	504	.450	.410	9.8	11209	503	7.130	7.530	-5.3
11020	501	.182	.184	-1.1	11167	505	.350	.340	2.9	11209	504	3.520	3.700	-4.9
11020	503	.235	.232	1.3	11168	501	3.300	3.190	3.4	11209	505	4.750	4.980	-4.6
11020	504	.156	.150	4.0	11168	503	3.330	3.130	6.4	11210	501	1.710	1.810	-5.5
11020	505	.172	.173	-0.6	11168	504	2.340	2.140	9.3	11210	503	3.040	3.210	-5.3
11039	501	.450	.480	-6.3	11168	505	1.810	1.740	4.0	11210	504	1.500	1.570	-4.5
11039	503	.580	.620	-6.5	11201	501	8.490	9.000	-5.7	11210	505	2.020	2.120	-4.7
11039	504	.480	.520	-7.7	11201	503	15.100	16.000	-5.6	11211	501	8.860	9.400	-5.7
11039	505	.420	.450	-6.7	11201	504	7.470	7.840	-4.7	11211	503	15.800	16.700	-5.4
11052	501	2.760	2.670	3.4	11201	505	10.100	10.600	-4.7	11211	504	7.800	8.180	-4.6
11052	503	2.790	2.620	6.5	11202	501	2.510	2.660	-5.6	11211	505	10.500	11.000	-4.5
11052	504	1.960	1.790	9.5	11202	503	4.470	4.720	-5.3	11212	501	1.340	1.420	-5.6
11052	505	1.510	1.460	3.4	11202	504	2.210	2.320	-4.7	11212	503	2.390	2.520	-5.2
11126	501	.038	.038	0.0	11202	505	2.980	3.120	-4.5	11212	504	1.180	1.240	-4.8
11126	503	.049	.048	2.1	11203	501	.620	.630	-1.6	11212	505	1.590	1.670	-4.8
11126	504	.032	.031	3.2	11203	503	.720	.720	0.0	11213	501	1.090	1.160	-6.0
11126	505	.035	.036	-2.8	11203	504	.410	.400	2.5	11213	503	1.950	2.060	-5.3
11127	501	.270	.270	0.0	11203	505	.610	.630	-3.2	11213	504	.960	1.010	-5.0
11127	503	.310	.310	0.0	11204	501	.188	.190	-1.1	11213	505	1.300	1.360	-4.4
11127	504	.176	.173	1.7	11204	503	.243	.240	1.2	11214	501	2.690	2.860	-5.9
11127	505	.260	.270	-3.7	11204	504	.162	.155	4.5	11214	503	4.800	5.060	-5.1
11128	501	.360	.370	-2.7	11204	505	.177	.179	-1.1	11214	504	2.370	2.490	-4.8
11128	503	.420	.420	0.0	11206	501	.390	.420	-7.1	11214	505	3.190	3.350	-4.8
11128	504	.238	.234	1.7	11206	503	.700	.740	-5.4	11222	501	.045	.048	-6.3
11128	505	.350	.370	-5.4	11206	504	.350	.360	-2.8	11222	503	.081	.085	-4.7
11138	501	1.680	1.520	10.5	11206	505	.470	.490	-4.1	11222	504	.040	.042	-4.8
11138	503	2.800	2.470	13.4	11207	501	4.980	5.270	-5.5	11222	505	.054	.056	-3.6
11138	504	1.680	1.440	16.7	11207	503	8.860	9.350	-5.2	11234	501	.169	.171	-1.2
11138	505	1.180	1.070	10.3	11207	504	4.380	4.590	-4.6	11234	503	.219	.216	1.4
11155	501	.129	.130	-0.8	11207	505	5.900	6.190	-4.7	11234	504	.145	.140	3.6

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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
11234	505	.160	.161	-0.6	12361	504	.039	.038	2.6	12510	503	.500	.540	-7.4
11248	501	.023	.025	-8.0	12361	505	.034	.035	-2.9	12510	504	.420	.450	-6.7
11248	503	.030	.033	-9.1	12362	501	.053	.054	-1.9	12510	505	.360	.390	-7.7
11248	504	.025	.027	-7.4	12362	503	.061	.061	0.0	12583	501	.174	.187	-7.0
11248	505	.022	.023	-4.3	12362	504	.035	.034	2.9	12583	503	.224	.241	-7.1
11258	501	.680	.700	-2.9	12362	505	.052	.053	-1.9	12583	504	.187	.200	-6.5
11258	503	.690	.710	-2.8	12373	501	.020	.020	0.0	12583	505	.162	.173	-6.4
11258	504	.460	.460	0.0	12373	503	.023	.023	0.0	12651	501	.510	.540	-5.6
11258	505	.420	.430	-2.3	12373	504	.013	.013	0.0	12651	503	.650	.700	-7.1
11259	501	.720	.750	-4.0	12373	505	.020	.020	0.0	12651	504	.550	.580	-5.2
11259	503	.740	.760	-2.6	12374	501	.370	.370	0.0	12651	505	.470	.510	-7.8
11259	504	.500	.490	2.0	12374	503	.480	.470	2.1	12683	501	.232	.249	-6.8
11259	505	.450	.460	-2.2	12374	504	.320	.310	3.2	12683	503	.300	.320	-6.3
11273	501	8.400	8.470	-0.8	12374	505	.350	.350	0.0	12683	504	.250	.270	-7.4
11273	503	10.800	10.700	0.9	12375	501	.182	.184	-1.1	12683	505	.216	.231	-6.5
11273	504	7.210	6.920	4.2	12375	503	.235	.232	1.3	12707	501	.340	.350	-2.9
11273	505	7.920	7.990	-0.9	12375	504	.156	.150	4.0	12707	503	.400	.400	0.0
11274	501	8.060	8.130	-0.9	12375	505	.172	.173	-0.6	12707	504	.228	.224	1.8
11274	503	10.400	10.300	1.0	12391	501	.039	.040	-2.5	12707	505	.340	.350	-2.9
11274	504	6.920	6.640	4.2	12391	503	.046	.046	0.0	12797	501	.072	.074	-2.7
11274	505	7.600	7.670	-0.9	12391	504	.026	.026	0.0	12797	503	.084	.084	0.0
11288	501	.830	.860	-3.5	12391	505	.039	.040	-2.5	12797	504	.048	.047	2.1
11288	503	.850	.870	-2.3	12393	501	.242	.244	-0.8	12797	505	.071	.074	-4.1
11288	504	.570	.560	1.8	12393	503	.310	.310	0.0	12805	501	.194	.196	-1.0
11288	505	.510	.530	-3.8	12393	504	.207	.199	4.0	12805	503	.250	.248	0.8
12014	501	.051	.054	-5.6	12393	505	.228	.230	-0.9	12805	504	.167	.160	4.4
12014	503	.065	.070	-7.1	12467	501	.100	.101	-1.0	12805	505	.183	.185	-1.1
12014	504	.054	.058	-6.9	12467	503	.130	.128	1.6	12841	501	.320	.330	-3.0
12014	505	.047	.050	-6.0	12467	504	.086	.083	3.6	12841	503	.420	.410	2.4
12356	501	.710	.720	-1.4	12467	505	.095	.096	-1.0	12841	504	.280	.270	3.7
12356	503	.920	.910	1.1	12509	501	.031	.033	-6.1	12841	505	.300	.310	-3.2
12356	504	.610	.590	3.4	12509	503	.040	.043	-7.0	12927	501	.056	.057	-1.8
12356	505	.670	.680	-1.5	12509	504	.033	.035	-5.7	12927	503	.073	.072	1.4
12361	501	.047	.048	-2.1	12509	505	.029	.031	-6.5	12927	504	.048	.047	2.1
12361	503	.050	.050	0.0	12510	501	.390	.420	-7.1	12927	505	.053	.054	-1.9

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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	.024	.025	-4.0	13352	505	.169	.170	-0.6	13621	504	.066	.071	-7.0
13049	503	.026	.026	0.0	13410	501	.710	.760	-6.6	13621	505	.057	.061	-6.6
13049	504	.020	.020	0.0	13410	503	.910	.980	-7.1	13670	501	.026	.027	-3.7
13049	505	.018	.018	0.0	13410	504	.760	.820	-7.3	13670	503	.028	.028	0.0
13111	501	.630	.650	-3.1	13410	505	.660	.710	-7.0	13670	504	.022	.021	4.8
13111	503	.640	.660	-3.0	13412	501	.239	.260	-8.1	13670	505	.019	.019	0.0
13111	504	.430	.420	2.4	13412	503	.310	.330	-6.1	13673	501	.510	.530	-3.8
13111	505	.390	.400	-2.5	13412	504	.260	.280	-7.1	13673	503	.530	.540	-1.9
13112	501	.040	.041	-2.4	13412	505	.223	.239	-6.7	13673	504	.350	.350	0.0
13112	503	.043	.043	0.0	13453	501	.280	.300	-6.7	13673	505	.320	.330	-3.0
13112	504	.033	.032	3.1	13453	503	.360	.380	-5.3	13715	501	.053	.054	-1.9
13112	505	.029	.030	-3.3	13453	504	.300	.320	-6.3	13715	503	.061	.061	0.0
13201	501	.450	.480	-6.3	13453	505	.260	.280	-7.1	13715	504	.035	.034	2.9
13201	503	.580	.620	-6.5	13454	501	.320	.350	-8.6	13715	505	.052	.053	-1.9
13201	504	.480	.520	-7.7	13454	503	.420	.450	-6.7	13716	501	.270	.280	-3.6
13201	505	.420	.450	-6.7	13454	504	.350	.370	-5.4	13716	503	.350	.350	0.0
13204	501	.510	.540	-5.6	13454	505	.300	.320	-6.3	13716	504	.234	.225	4.0
13204	503	.650	.700	-7.1	13455	501	.330	.350	-5.7	13716	505	.260	.260	0.0
13204	504	.550	.580	-5.2	13455	503	.420	.450	-6.7	13720	501	.290	.300	-3.3
13204	505	.470	.510	-7.8	13455	504	.350	.380	-7.9	13720	503	.300	.300	0.0
13205	501	.195	.209	-6.7	13455	505	.310	.330	-6.1	13720	504	.198	.195	1.5
13205	503	.250	.270	-7.4	13506	501	.550	.560	-1.8	13720	505	.178	.183	-2.7
13205	504	.210	.224	-6.3	13506	503	.710	.700	1.4	13759	501	.107	.108	-0.9
13205	505	.182	.194	-6.2	13506	504	.470	.460	2.2	13759	503	.138	.136	1.5
13314	501	.072	.073	-1.4	13506	505	.520	.530	-1.9	13759	504	.092	.088	4.5
13314	503	.093	.092	1.1	13507	501	.660	.670	-1.5	13759	505	.101	.102	-1.0
13314	504	.062	.059	5.1	13507	503	.860	.850	1.2	13930	501	.112	.115	-2.6
13314	505	.068	.069	-1.4	13507	504	.570	.550	3.6	13930	503	.129	.130	-0.8
13351	501	.176	.177	-0.6	13507	505	.630	.630	0.0	13930	504	.074	.073	1.4
13351	503	.227	.224	1.3	13590	501	.244	.260	-6.2	13930	505	.110	.114	-3.5
13351	504	.151	.145	4.1	13590	503	.310	.340	-8.8	14068	501	.024	.024	0.0
13351	505	.166	.167	-0.6	13590	504	.260	.280	-7.1	14068	503	.030	.030	0.0
13352	501	.179	.180	-0.6	13590	505	.228	.243	-6.2	14068	504	.020	.019	5.3
13352	503	.231	.228	1.3	13621	501	.062	.066	-6.1	14068	505	.022	.022	0.0
13352	504	.153	.147	4.1	13621	503	.079	.086	-8.1	14101	501	.280	.280	0.0

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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
14101	503	.360	.350	2.9	14734	501	.160	.161	-0.6	15188	505	.160	.171	-6.4
14101	504	.237	.228	3.9	14734	503	.207	.204	1.5	15223	501	.031	.032	-3.1
14101	505	.260	.260	0.0	14734	504	.137	.132	3.8	15223	503	.033	.033	0.0
14279	501	.235	.250	-6.0	14734	505	.151	.152	-0.7	15223	504	.026	.025	4.0
14279	503	.300	.330	-9.1	14855	501	.108	.117	-7.7	15223	505	.023	.023	0.0
14279	504	.250	.270	-7.4	14855	503	.140	.151	-7.3	15224	501	.300	.320	-6.3
14279	505	.220	.235	-6.4	14855	504	.117	.125	-6.4	15224	503	.310	.320	-3.1
14401	501	.680	.710	-4.2	14855	505	.101	.108	-6.5	15224	504	.209	.206	1.5
14401	503	.700	.720	-2.8	14913	501	.201	.203	-1.0	15224	505	.188	.194	-3.1
14401	504	.470	.460	2.2	14913	503	.260	.260	0.0	15314	501	.129	.130	-0.8
14401	505	.420	.430	-2.3	14913	504	.172	.166	3.6	15314	503	.166	.164	1.2
14405	501	.570	.600	-5.0	14913	505	.189	.191	-1.0	15314	504	.110	.106	3.8
14405	503	1.020	1.070	-4.7	15062	501	.097	.105	-7.6	15314	505	.121	.122	-0.8
14405	504	.500	.530	-5.7	15062	503	.125	.135	-7.4	15404	501	.044	.048	-8.3
14405	505	.680	.710	-4.2	15062	504	.105	.112	-6.2	15404	503	.057	.062	-8.1
14527	501	.214	.219	-2.3	15062	505	.091	.097	-6.2	15404	504	.048	.051	-5.9
14527	503	.247	.248	-0.4	15063	501	.113	.122	-7.4	15404	505	.041	.044	-6.8
14527	504	.141	.139	1.4	15063	503	.146	.157	-7.0	15405	501	.065	.070	-7.1
14527	505	.210	.217	-3.2	15063	504	.122	.131	-6.9	15405	503	.084	.091	-7.7
14655	501	.053	.054	-1.9	15063	505	.106	.113	-6.2	15405	504	.070	.075	-6.7
14655	503	.069	.068	1.5	15070	501	.076	.081	-6.2	15405	505	.061	.065	-6.2
14655	504	.046	.044	4.5	15070	503	.136	.144	-5.6	15406	501	.166	.179	-7.3
14655	505	.050	.051	-2.0	15070	504	.067	.071	-5.6	15406	503	.214	.231	-7.4
14731	501	2.740	2.650	3.4	15070	505	.091	.095	-4.2	15406	504	.179	.192	-6.8
14731	503	2.760	2.600	6.2	15123	501	2.650	2.560	3.5	15406	505	.155	.166	-6.6
14731	504	1.950	1.780	9.6	15123	503	2.670	2.510	6.4	15488	501	.420	.450	-6.7
14731	505	1.500	1.450	3.4	15123	504	1.880	1.720	9.3	15488	503	.530	.580	-8.6
14732	501	.203	.196	3.6	15123	505	1.450	1.400	3.6	15488	504	.450	.480	-6.3
14732	503	.204	.192	6.2	15124	501	.930	.900	3.3	15488	505	.390	.410	-4.9
14732	504	.144	.132	9.1	15124	503	.930	.880	5.7	15538	501	.229	.231	-0.9
14732	505	.111	.107	3.7	15124	504	.660	.600	10.0	15538	503	.300	.290	3.4
14733	501	.370	.380	-2.6	15124	505	.510	.490	4.1	15538	504	.197	.189	4.2
14733	503	.480	.480	0.0	15188	501	.171	.184	-7.1	15538	505	.216	.218	-0.9
14733	504	.320	.310	3.2	15188	503	.220	.238	-7.6	15600	501	.580	.580	0.0
14733	505	.350	.360	-2.8	15188	504	.185	.197	-6.1	15600	503	.750	.730	2.7

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15600	504	.500	.480	4.2	16005	503	.032	.032	0.0	16604	501	.103	.111	-7.2
15600	505	.540	.550	-1.8	16005	504	.018	.018	0.0	16604	503	.133	.144	-7.6
15607	501	.100	.106	-5.7	16005	505	.027	.028	-3.6	16604	504	.112	.119	-5.9
15607	503	.178	.188	-5.3	16009	501	.133	.143	-7.0	16604	505	.097	.103	-5.8
15607	504	.088	.092	-4.3	16009	503	.171	.185	-7.6	16670	501	2.800	2.520	11.1
15607	505	.119	.124	-4.0	16009	504	.143	.153	-6.5	16670	503	4.660	4.090	13.9
15608	501	.129	.130	-0.8	16009	505	.124	.133	-6.8	16670	504	2.790	2.390	16.7
15608	503	.166	.164	1.2	16402	501	.850	.860	-1.2	16670	505	1.960	1.770	10.7
15608	504	.110	.106	3.8	16402	503	1.100	1.090	0.9	16676	501	.179	.180	-0.6
15608	505	.121	.122	-0.8	16402	504	.730	.700	4.3	16676	503	.231	.228	1.3
15656	501	3.800	3.830	-0.8	16402	505	.800	.810	-1.2	16676	504	.153	.147	4.1
15656	503	4.910	4.840	1.4	16403	501	.540	.540	0.0	16676	505	.169	.170	-0.6
15656	504	3.260	3.130	4.2	16403	503	.700	.690	1.4	16694	501	.205	.220	-6.8
15656	505	3.580	3.620	-1.1	16403	504	.460	.440	4.5	16694	503	.260	.280	-7.1
15699	501	.247	.260	-5.0	16403	505	.510	.510	0.0	16694	504	.220	.236	-6.8
15699	503	.440	.460	-4.3	16404	501	.680	.690	-1.4	16694	505	.191	.204	-6.4
15699	504	.217	.228	-4.8	16404	503	.880	.870	1.1	16705	501	.168	.172	-2.3
15699	505	.290	.310	-6.5	16404	504	.580	.560	3.6	16705	503	.194	.195	-0.5
15733	501	.108	.117	-7.7	16404	505	.640	.650	-1.5	16705	504	.111	.109	1.8
15733	503	.140	.151	-7.3	16471	501	.141	.150	-6.0	16705	505	.164	.170	-3.5
15733	504	.117	.125	-6.4	16471	503	.250	.270	-7.4	16750	501	.063	.063	0.0
15733	505	.101	.108	-6.5	16471	504	.124	.130	-4.6	16750	503	.081	.080	1.2
15839	501	.173	.174	-0.6	16471	505	.167	.175	-4.6	16750	504	.054	.052	3.8
15839	503	.223	.220	1.4	16501	501	.059	.060	-1.7	16750	505	.059	.060	-1.7
15839	504	.148	.142	4.2	16501	503	.068	.068	0.0	16751	501	.063	.063	0.0
15839	505	.163	.164	-0.6	16501	504	.039	.038	2.6	16751	503	.081	.080	1.2
15991	501	.141	.142	-0.7	16501	505	.058	.060	-3.3	16751	504	.054	.052	3.8
15991	503	.182	.180	1.1	16527	501	.090	.093	-3.2	16751	505	.059	.060	-1.7
15991	504	.121	.116	4.3	16527	503	.104	.105	-1.0	16819	501	.590	.630	-6.3
15991	505	.133	.134	-0.7	16527	504	.060	.059	1.7	16819	503	.760	.820	-7.3
15993	501	.119	.120	-0.8	16527	505	.089	.092	-3.3	16819	504	.630	.680	-7.4
15993	503	.154	.152	1.3	16588	501	.062	.066	-6.1	16819	505	.550	.590	-6.8
15993	504	.102	.098	4.1	16588	503	.079	.086	-8.1	16820	501	.460	.490	-6.1
15993	505	.112	.113	-0.9	16588	504	.066	.071	-7.0	16820	503	.590	.630	-6.3
16005	501	.028	.029	-3.4	16588	505	.057	.061	-6.6	16820	504	.490	.530	-7.5

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16820	505	.430	.450	-4.4	16906	504	.670	.640	4.7	16940	503	2.320	2.290	1.3
16881	501	.980	.990	-1.0	16906	505	1.050	1.060	-0.9	16940	504	1.690	1.630	3.7
16881	503	1.270	1.250	1.6	16910	501	.670	.680	-1.5	16940	505	2.670	2.700	-1.1
16881	504	.840	.810	3.7	16910	503	.820	.810	1.2	16941	501	.760	.770	-1.3
16881	505	.930	.930	0.0	16910	504	.590	.570	3.5	16941	503	.930	.920	1.1
16890	501	.069	.074	-6.8	16910	505	.940	.950	-1.1	16941	504	.680	.650	4.6
16890	503	.089	.096	-7.3	16911	501	.610	.620	-1.6	16941	505	1.070	1.080	-0.9
16890	504	.074	.079	-6.3	16911	503	.740	.730	1.4	18078	501	.095	.097	-2.1
16890	505	.064	.069	-7.2	16911	504	.540	.520	3.8	18078	503	.110	.110	0.0
16891	501	.075	.081	-7.4	16911	505	.850	.860	-1.2	18078	504	.063	.062	1.6
16891	503	.097	.104	-6.7	16915	501	.690	.700	-1.4	18078	505	.093	.097	-4.1
16891	504	.081	.087	-6.9	16915	503	.840	.830	1.2	18109	501	.235	.237	-0.8
16891	505	.070	.075	-6.7	16915	504	.610	.590	3.4	18109	503	.300	.300	0.0
16892	501	.137	.147	-6.8	16915	505	.970	.980	-1.0	18109	504	.202	.194	4.1
16892	503	.176	.190	-7.4	16916	501	.570	.580	-1.7	18109	505	.222	.224	-0.9
16892	504	.147	.158	-7.0	16916	503	.700	.690	1.4	18110	501	.188	.190	-1.1
16892	505	.128	.136	-5.9	16916	504	.510	.490	4.1	18110	503	.243	.240	1.2
16900	501	1.120	1.130	-0.9	16916	505	.800	.810	-1.2	18110	504	.162	.155	4.5
16900	503	1.360	1.350	0.7	16920	501	1.530	1.550	-1.3	18110	505	.177	.179	-1.1
16900	504	.990	.960	3.1	16920	503	1.860	1.840	1.1	18205	501	.147	.150	-2.0
16900	505	1.570	1.580	-0.6	16920	504	1.350	1.310	3.1	18205	503	.169	.170	-0.6
16901	501	.720	.730	-1.4	16920	505	2.140	2.160	-0.9	18205	504	.097	.095	2.1
16901	503	.870	.860	1.2	16921	501	1.400	1.410	-0.7	18205	505	.144	.149	-3.4
16901	504	.640	.610	4.9	16921	503	1.700	1.680	1.2	18206	501	.300	.310	-3.2
16901	505	1.010	1.020	-1.0	16921	504	1.240	1.190	4.2	18206	503	.390	.390	0.0
16902	501	.610	.620	-1.6	16921	505	1.950	1.980	-1.5	18206	504	.260	.250	4.0
16902	503	.740	.730	1.4	16930	501	.880	.890	-1.1	18206	505	.290	.290	0.0
16902	504	.540	.520	3.8	16930	503	1.070	1.060	0.9	18335	501	.220	.222	-0.9
16902	505	.850	.860	-1.2	16930	504	.780	.750	4.0	18335	503	.280	.280	0.0
16905	501	1.180	1.190	-0.8	16930	505	1.230	1.240	-0.8	18335	504	.188	.181	3.9
16905	503	1.430	1.420	0.7	16931	501	.950	.960	-1.0	18335	505	.207	.209	-1.0
16905	504	1.040	1.010	3.0	16931	503	1.150	1.140	0.9	18435	501	.590	.620	-4.8
16905	505	1.650	1.670	-1.2	16931	504	.840	.810	3.7	18435	503	.610	.620	-1.6
16906	501	.750	.760	-1.3	16931	505	1.330	1.340	-0.7	18435	504	.410	.400	2.5
16906	503	.920	.910	1.1	16940	501	1.910	1.930	-1.0	18435	505	.370	.380	-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
18436	501	.480	.500	-4.0	18707	505	.008	.008	0.0	19795	504	.159	.153	3.9
18436	503	.490	.500	-2.0	18708	501	.069	.070	-1.4	19795	505	.175	.176	-0.6
18436	504	.330	.320	3.1	18708	503	.089	.088	1.1	19796	501	.216	.218	-0.9
18436	505	.300	.300	0.0	18708	504	.059	.057	3.5	19796	503	.280	.280	0.0
18437	501	.310	.320	-3.1	18708	505	.065	.066	-1.5	19796	504	.186	.178	4.5
18437	503	.410	.400	2.5	18833	501	.094	.096	-2.1	19796	505	.204	.206	-1.0
18437	504	.270	.260	3.8	18833	503	.109	.109	0.0	40045	501	155.000	139.000	11.5
18437	505	.300	.300	0.0	18833	504	.062	.061	1.6	40045	503	258.000	227.000	13.7
18438	501	.600	.610	-1.6	18833	505	.092	.096	-4.2	40045	504	154.000	132.000	16.7
18438	503	.780	.770	1.3	18834	501	.179	.180	-0.6	40045	505	109.000	98.000	11.2
18438	504	.520	.500	4.0	18834	503	.231	.228	1.3	40046	501	30.600	27.600	10.9
18438	505	.570	.570	0.0	18834	504	.153	.147	4.1	40046	503	51.000	44.800	13.8
18501	501	.540	.570	-5.3	18834	505	.169	.170	-0.6	40046	504	30.500	26.200	16.4
18501	503	.560	.570	-1.8	18911	501	.560	.570	-1.8	40046	505	21.500	19.400	10.8
18501	504	.370	.370	0.0	18911	503	.730	.720	1.4	40047	501	10.900	9.830	10.9
18501	505	.340	.350	-2.9	18911	504	.480	.470	2.1	40047	503	18.200	16.000	13.7
18506	501	.217	.233	-6.9	18911	505	.530	.540	-1.9	40047	504	10.900	9.330	16.8
18506	503	.280	.300	-6.7	18912	501	1.060	1.070	-0.9	40047	505	7.670	6.910	11.0
18506	504	.234	.250	-6.4	18912	503	1.370	1.350	1.5	40059	501	3.910	3.520	11.1
18506	505	.202	.216	-6.5	18912	504	.910	.880	3.4	40059	503	6.510	5.720	13.8
18507	501	.113	.114	-0.9	18912	505	1.000	1.010	-1.0	40059	504	3.900	3.340	16.8
18507	503	.146	.144	1.4	18920	501	.280	.280	0.0	40059	505	2.750	2.470	11.3
18507	504	.097	.093	4.3	18920	503	.360	.350	2.9	40061	501	2.070	1.870	10.7
18507	505	.106	.107	-0.9	18920	504	.237	.228	3.9	40061	503	3.450	3.030	13.9
18570	501	1.180	1.190	-0.8	18920	505	.260	.260	0.0	40061	504	2.070	1.770	16.9
18570	503	1.520	1.500	1.3	19007	501	1.030	1.000	3.0	40061	505	1.460	1.310	11.5
18570	504	1.010	.970	4.1	19007	503	1.040	.980	6.1	40063	501	69.300	62.400	11.1
18570	505	1.110	1.120	-0.9	19007	504	.740	.670	10.4	40063	503	115.000	101.000	13.9
18616	501	.165	.177	-6.8	19007	505	.570	.550	3.6	40063	504	69.200	59.300	16.7
18616	503	.212	.229	-7.4	19051	501	2.290	2.220	3.2	40063	505	48.700	43.900	10.9
18616	504	.178	.190	-6.3	19051	503	2.310	2.180	6.0	40064	501	20.400	18.300	11.5
18616	505	.154	.165	-6.7	19051	504	1.630	1.490	9.4	40064	503	33.900	29.800	13.8
18707	501	.008	.008	0.0	19051	505	1.260	1.210	4.1	40064	504	20.300	17.400	16.7
18707	503	.009	.009	0.0	19795	501	.185	.187	-1.1	40064	505	14.300	12.900	10.9
18707	504	.005	.005	0.0	19795	503	.239	.236	1.3	40075	501	34.800	34.100	2.1

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LOSS COST % CHANGE BY CLASS

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40075	503	31.800	30.400	4.6	41604	501	9.650	9.490	1.7	41670	505	.500	.450	11.1
40075	504	13.200	12.300	7.3	41604	503	5.740	5.520	4.0	41677	501	.147	.156	-5.8
40075	505	17.900	17.500	2.3	41604	504	6.000	5.620	6.8	41677	503	.260	.280	-7.1
40101	501	21.100	21.100	0.0	41604	505	4.190	4.120	1.7	41677	504	.129	.136	-5.1
40101	503	29.700	29.000	2.4	41620	501	.710	.750	-5.3	41677	505	.174	.183	-4.9
40101	504	10.200	9.690	5.3	41620	503	1.270	1.340	-5.2	41678	501	56.500	55.800	1.3
40101	505	8.640	8.630	0.1	41620	504	.630	.660	-4.5	41678	503	38.500	37.100	3.8
40102	501	18.600	18.600	0.0	41620	505	.840	.880	-4.5	41678	504	31.800	29.900	6.4
40102	503	26.200	25.600	2.3	41650	501	24.700	24.300	1.6	41678	505	23.700	23.400	1.3
40102	504	8.970	8.560	4.8	41650	503	14.700	14.100	4.3	41680	501	12.900	12.700	1.6
40102	505	7.640	7.620	0.3	41650	504	15.400	14.400	6.9	41680	503	7.650	7.360	3.9
40111	501	5.490	4.940	11.1	41650	505	10.800	10.600	1.9	41680	504	8.000	7.490	6.8
40111	503	9.140	8.040	13.7	41664	501	23.500	21.100	11.4	41680	505	5.590	5.490	1.8
40111	504	5.480	4.690	16.8	41664	503	39.000	34.300	13.7	41696	501	.460	.490	-6.1
40111	505	3.860	3.470	11.2	41664	504	23.400	20.000	17.0	41696	503	.830	.870	-4.6
41001	501	.185	.167	10.8	41664	505	16.500	14.800	11.5	41696	504	.410	.430	-4.7
41001	503	.310	.270	14.8	41665	501	2.750	2.470	11.3	41696	505	.550	.580	-5.2
41001	504	.185	.158	17.1	41665	503	4.570	4.020	13.7	41697	501	.320	.340	-5.9
41001	505	.130	.117	11.1	41665	504	2.740	2.350	16.6	41697	503	.580	.610	-4.9
41421	501	.370	.370	0.0	41665	505	1.930	1.740	10.9	41697	504	.280	.300	-6.7
41421	503	.221	.212	4.2	41667	501	64.100	57.700	11.1	41697	505	.380	.400	-5.0
41421	504	.231	.216	6.9	41667	503	107.000	93.800	14.1	41715	501	8.160	8.030	1.6
41421	505	.161	.158	1.9	41667	504	63.900	54.800	16.6	41715	503	4.860	4.670	4.1
41422	501	.198	.195	1.5	41667	505	45.000	40.500	11.1	41715	504	5.080	4.750	6.9
41422	503	.118	.113	4.4	41668	501	60.100	54.100	11.1	41715	505	3.550	3.480	2.0
41422	504	.123	.115	7.0	41668	503	100.000	87.900	13.8	41716	501	5.200	5.110	1.8
41422	505	.086	.084	2.4	41668	504	59.900	51.400	16.5	41716	503	3.090	2.970	4.0
41510	501	28.400	28.600	-0.7	41668	505	42.200	38.000	11.1	41716	504	3.230	3.020	7.0
41510	503	36.700	36.100	1.7	41669	501	.420	.380	10.5	41716	505	2.260	2.220	1.8
41510	504	24.400	23.400	4.3	41669	503	.700	.620	12.9	43151	501	17.300	16.900	2.4
41510	505	26.800	27.000	-0.7	41669	504	.420	.360	16.7	43151	503	15.800	15.100	4.6
41603	501	17.600	17.300	1.7	41669	505	.300	.270	11.1	43151	504	6.540	6.100	7.2
41603	503	10.400	10.000	4.0	41670	501	.710	.640	10.9	43151	505	8.910	8.730	2.1
41603	504	10.900	10.200	6.9	41670	503	1.180	1.040	13.5	43152	501	16.900	16.700	1.2
41603	505	7.630	7.490	1.9	41670	504	.710	.600	18.3	43152	503	11.500	11.100	3.6

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43152	504	9.530	8.940	6.6	43628	503	174.000	153.000	13.7	44070	501	2.540	2.290	10.9
43152	505	7.090	6.990	1.4	43628	504	104.000	89.300	16.5	44070	503	4.230	3.720	13.7
43200	501	65.800	64.500	2.0	43628	505	73.400	66.100	11.0	44070	504	2.540	2.170	17.1
43200	503	60.300	57.600	4.7	43629	501	88.500	79.700	11.0	44070	505	1.790	1.610	11.2
43200	504	24.900	23.200	7.3	43629	503	147.000	130.000	13.1	44071	501	2.830	2.550	11.0
43200	505	33.900	33.200	2.1	43629	504	88.300	75.600	16.8	44071	503	4.710	4.140	13.8
43421	501	18.000	17.700	1.7	43629	505	62.200	56.000	11.1	44071	504	2.820	2.420	16.5
43421	503	16.500	15.800	4.4	43760	501	2.950	2.650	11.3	44071	505	1.990	1.790	11.2
43421	504	6.820	6.360	7.2	43760	503	4.910	4.310	13.9	44072	501	1.950	1.760	10.8
43421	505	9.290	9.100	2.1	43760	504	2.940	2.520	16.7	44072	503	3.250	2.860	13.6
43422	501	94.700	92.700	2.2	43760	505	2.070	1.860	11.3	44072	504	1.950	1.670	16.8
43422	503	86.700	82.800	4.7	43822	501	2.150	2.280	-5.7	44072	505	1.370	1.240	10.5
43422	504	35.800	33.400	7.2	43822	503	3.830	4.050	-5.4	44100	501	1.370	1.420	-3.5
43422	505	48.800	47.800	2.1	43822	504	1.890	1.990	-5.0	44100	503	1.450	1.460	-0.7
43470	501	2.710	2.870	-5.6	43822	505	2.550	2.680	-4.9	44100	504	3.250	3.170	2.5
43470	503	4.820	5.090	-5.3	43840	501	.026	.028	-7.1	44100	505	1.280	1.310	-2.3
43470	504	2.380	2.500	-4.8	43840	503	.047	.050	-6.0	44101	501	1.430	1.470	-2.7
43470	505	3.210	3.360	-4.5	43840	504	.023	.024	-4.2	44101	503	1.510	1.520	-0.7
43518	501	10.100	9.050	11.6	43840	505	.031	.033	-6.1	44101	504	3.390	3.300	2.7
43518	503	16.700	14.700	13.6	43860	501	1.690	1.800	-6.1	44101	505	1.330	1.370	-2.9
43518	504	10.000	8.600	16.3	43860	503	3.020	3.180	-5.0	44102	501	1.120	1.150	-2.6
43518	505	7.070	6.360	11.2	43860	504	1.490	1.560	-4.5	44102	503	1.180	1.180	0.0
43550	501	64.400	63.000	2.2	43860	505	2.010	2.110	-4.7	44102	504	2.640	2.570	2.7
43550	503	58.900	56.300	4.6	43889	501	.610	.640	-4.7	44102	505	1.040	1.060	-1.9
43550	504	24.300	22.700	7.0	43889	503	1.080	1.140	-5.3	44103	501	.990	1.020	-2.9
43550	505	33.200	32.500	2.2	43889	504	.530	.560	-5.4	44103	503	1.040	1.050	-1.0
43551	501	35.700	35.000	2.0	43889	505	.720	.750	-4.0	44103	504	2.340	2.280	2.6
43551	503	32.700	31.200	4.8	44009	501	3.230	3.120	3.5	44103	505	.920	.940	-2.1
43551	504	13.500	12.600	7.1	44009	503	3.260	3.060	6.5	44104	501	.410	.430	-4.7
43551	505	18.400	18.000	2.2	44009	504	2.290	2.100	9.0	44104	503	.440	.440	0.0
43626	501	8.040	7.230	11.2	44009	505	1.770	1.710	3.5	44104	504	.980	.960	2.1
43626	503	13.400	11.800	13.6	44069	501	8.590	7.730	11.1	44104	505	.390	.400	-2.5
43626	504	8.020	6.870	16.7	44069	503	14.300	12.600	13.5	44108	501	.490	.500	-2.0
43626	505	5.650	5.080	11.2	44069	504	8.570	7.340	16.8	44108	503	.510	.520	-1.9
43628	501	104.000	94.000	10.6	44069	505	6.040	5.440	11.0	44108	504	1.150	1.120	2.7

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44108	505	.450	.460	-2.2	44315	504	3.480	2.980	16.8	44435	503	71.800	70.100	2.4
44109	501	1.230	1.270	-3.1	44315	505	2.450	2.210	10.9	44435	504	24.600	23.500	4.7
44109	503	1.300	1.300	0.0	44427	501	76.300	76.200	0.1	44435	505	20.900	20.900	0.0
44109	504	2.910	2.840	2.5	44427	503	107.000	105.000	1.9	44436	501	59.700	59.600	0.2
44109	505	1.140	1.170	-2.6	44427	504	36.700	35.000	4.9	44436	503	83.900	81.900	2.4
44110	501	1.260	1.300	-3.1	44427	505	31.200	31.200	0.0	44436	504	28.700	27.400	4.7
44110	503	1.330	1.330	0.0	44428	501	76.700	76.600	0.1	44436	505	24.400	24.400	0.0
44110	504	2.980	2.900	2.8	44428	503	108.000	105.000	2.9	44437	501	49.500	49.400	0.2
44110	505	1.170	1.200	-2.5	44428	504	36.900	35.200	4.8	44437	503	69.500	67.900	2.4
44111	501	.770	.800	-3.8	44428	505	31.400	31.400	0.0	44437	504	23.800	22.700	4.8
44111	503	.810	.820	-1.2	44429	501	1.150	1.150	0.0	44437	505	20.300	20.200	0.5
44111	504	1.830	1.780	2.8	44429	503	1.620	1.580	2.5	44438	501	39.100	39.000	0.3
44111	505	.720	.740	-2.7	44429	504	.550	.530	3.8	44438	503	54.900	53.600	2.4
44112	501	.460	.470	-2.1	44429	505	.470	.470	0.0	44438	504	18.800	17.900	5.0
44112	503	.480	.490	-2.0	44430	501	.800	.800	0.0	44438	505	16.000	16.000	0.0
44112	504	1.080	1.060	1.9	44430	503	1.120	1.100	1.8	44439	501	76.100	76.000	0.1
44112	505	.430	.440	-2.3	44430	504	.380	.370	2.7	44439	503	107.000	104.000	2.9
44276	501	88.400	86.500	2.2	44430	505	.330	.330	0.0	44439	504	36.600	34.900	4.9
44276	503	80.900	77.300	4.7	44431	501	2.550	2.550	0.0	44439	505	31.200	31.100	0.3
44276	504	33.400	31.100	7.4	44431	503	3.590	3.510	2.3	44440	501	63.000	62.900	0.2
44276	505	45.500	44.600	2.0	44431	504	1.230	1.170	5.1	44440	503	88.500	86.400	2.4
44277	501	57.300	56.100	2.1	44431	505	1.050	1.040	1.0	44440	504	30.300	28.900	4.8
44277	503	52.400	50.100	4.6	44432	501	.810	.810	0.0	44440	505	25.800	25.700	0.4
44277	504	21.700	20.200	7.4	44432	503	1.140	1.110	2.7	45190	501	2.000	2.040	-2.0
44277	505	29.500	28.900	2.1	44432	504	.390	.370	5.4	45190	503	3.180	3.170	0.3
44280	501	.147	.156	-5.8	44432	505	.330	.330	0.0	45190	504	1.610	1.560	3.2
44280	503	.260	.280	-7.1	44433	501	25.800	25.800	0.0	45190	505	1.460	1.490	-2.0
44280	504	.129	.136	-5.1	44433	503	36.300	35.400	2.5	45191	501	1.420	1.450	-2.1
44280	505	.174	.183	-4.9	44433	504	12.400	11.800	5.1	45191	503	2.260	2.250	0.4
44311	501	5.190	4.670	11.1	44433	505	10.600	10.500	1.0	45191	504	1.140	1.110	2.7
44311	503	8.640	7.590	13.8	44434	501	49.300	49.300	0.0	45191	505	1.040	1.060	-1.9
44311	504	5.180	4.440	16.7	44434	503	69.400	67.700	2.5	45192	501	1.660	1.690	-1.8
44311	505	3.650	3.280	11.3	44434	504	23.700	22.700	4.4	45192	503	2.640	2.630	0.4
44315	501	3.490	3.140	11.1	44434	505	20.200	20.200	0.0	45192	504	1.340	1.300	3.1
44315	503	5.800	5.100	13.7	44435	501	51.100	51.000	0.2	45192	505	1.220	1.240	-1.6

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 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
45193	501	.980	1.000	-2.0	45900	505	.062	.063	-1.6	46427	504	21.700	20.300	6.9
45193	503	1.560	1.550	0.6	45901	501	.056	.057	-1.8	46427	505	16.100	15.900	1.3
45193	504	.790	.760	3.9	45901	503	.073	.072	1.4	46603	501	2.420	2.380	1.7
45193	505	.720	.730	-1.4	45901	504	.048	.047	2.1	46603	503	1.650	1.590	3.8
45210	501	1.240	1.260	-1.6	45901	505	.053	.054	-1.9	46603	504	1.360	1.280	6.3
45210	503	1.970	1.970	0.0	45937	501	.149	.146	2.1	46603	505	1.010	1.000	1.0
45210	504	1.000	.970	3.1	45937	503	.136	.130	4.6	46604	501	2.790	2.750	1.5
45210	505	.910	.930	-2.2	45937	504	.056	.052	7.7	46604	503	1.900	1.830	3.8
45334	501	37.900	37.200	1.9	45937	505	.077	.075	2.7	46604	504	1.570	1.470	6.8
45334	503	34.700	33.200	4.5	46004	501	23.500	23.100	1.7	46604	505	1.170	1.150	1.7
45334	504	14.400	13.400	7.5	46004	503	14.000	13.400	4.5	46606	501	7.440	7.340	1.4
45334	505	19.500	19.100	2.1	46004	504	14.600	13.700	6.6	46606	503	5.060	4.880	3.7
45380	501	.127	.136	-6.6	46004	505	10.200	10.000	2.0	46606	504	4.190	3.930	6.6
45380	503	.163	.176	-7.4	46005	501	18.800	18.500	1.6	46606	505	3.120	3.070	1.6
45380	504	.137	.146	-6.2	46005	503	11.200	10.800	3.7	46607	501	10.200	10.100	1.0
45380	505	.118	.127	-7.1	46005	504	11.700	10.900	7.3	46607	503	6.960	6.710	3.7
45450	501	11.200	10.900	2.8	46005	505	8.170	8.020	1.9	46607	504	5.760	5.400	6.7
45450	503	10.200	9.760	4.5	46112	501	.083	.083	0.0	46607	505	4.280	4.220	1.4
45450	504	4.220	3.930	7.4	46112	503	.117	.114	2.6	46622	501	6.290	6.660	-5.6
45450	505	5.750	5.630	2.1	46112	504	.040	.038	5.3	46622	503	11.200	11.800	-5.1
45678	501	.159	.168	-5.4	46112	505	.034	.034	0.0	46622	504	5.530	5.800	-4.7
45678	503	.280	.300	-6.7	46202	501	2.540	2.590	-1.9	46622	505	7.460	7.820	-4.6
45678	504	.140	.147	-4.8	46202	503	4.040	4.030	0.2	46700	501	132.000	130.000	1.5
45678	505	.188	.197	-4.6	46202	504	2.040	1.980	3.0	46700	503	121.000	116.000	4.3
45771	501	.193	.208	-7.2	46202	505	1.860	1.900	-2.1	46700	504	50.100	46.700	7.3
45771	503	.249	.270	-7.8	46362	501	197.000	195.000	1.0	46700	505	68.200	66.800	2.1
45771	504	.208	.223	-6.7	46362	503	134.000	129.000	3.9	46911	501	15.900	14.300	11.2
45771	505	.181	.193	-6.2	46362	504	111.000	104.000	6.7	46911	503	26.500	23.300	13.7
45819	501	.063	.068	-7.4	46362	505	82.700	81.500	1.5	46911	504	15.900	13.600	16.9
45819	503	.081	.087	-6.9	46426	501	28.800	28.400	1.4	46911	505	11.200	10.100	10.9
45819	504	.068	.072	-5.6	46426	503	19.600	18.900	3.7	46912	501	29.100	26.200	11.1
45819	505	.059	.063	-6.3	46426	504	16.200	15.200	6.6	46912	503	48.500	42.600	13.8
45900	501	.066	.066	0.0	46426	505	12.100	11.900	1.7	46912	504	29.100	24.900	16.9
45900	503	.085	.084	1.2	46427	501	38.500	38.000	1.3	46912	505	20.500	18.400	11.4
45900	504	.057	.054	5.6	46427	503	26.200	25.200	4.0	47050	501	.590	.620	-4.8

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LOSS COST % CHANGE BY CLASS

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47050	503	1.050	1.110	-5.4	47475	501	3.710	3.650	1.6	48558	505	5.460	4.910	11.2
47050	504	.520	.540	-3.7	47475	503	2.210	2.120	4.2	48600	501	57.600	56.900	1.2
47050	505	.700	.730	-4.1	47475	504	2.310	2.160	6.9	48600	503	39.300	37.800	4.0
47221	501	145.000	142.000	2.1	47475	505	1.610	1.580	1.9	48600	504	32.500	30.500	6.6
47221	503	133.000	127.000	4.7	47476	501	3.710	3.650	1.6	48600	505	24.200	23.800	1.7
47221	504	54.900	51.200	7.2	47476	503	2.210	2.120	4.2	48636	501	.880	.980	-10.2
47221	505	74.800	73.300	2.0	47476	504	2.310	2.160	6.9	48636	503	.590	.650	-9.2
47318	501	6.540	5.880	11.2	47476	505	1.610	1.580	1.9	48636	504	1.100	1.210	-9.1
47318	503	10.900	9.570	13.9	47477	501	4.950	4.870	1.6	48636	505	.910	1.000	-9.0
47318	504	6.520	5.590	16.6	47477	503	2.940	2.830	3.9	48637	501	6.820	6.140	11.1
47318	505	4.590	4.130	11.1	47477	504	3.080	2.880	6.9	48637	503	11.400	9.980	14.2
47367	501	.147	.156	-5.8	47477	505	2.150	2.110	1.9	48637	504	6.810	5.830	16.8
47367	503	.260	.280	-7.1	47478	501	5.200	5.110	1.8	48637	505	4.790	4.320	10.9
47367	504	.129	.136	-5.1	47478	503	3.090	2.970	4.0	48638	501	3.390	3.050	11.1
47367	505	.174	.183	-4.9	47478	504	3.230	3.020	7.0	48638	503	5.640	4.960	13.7
47420	501	1.430	1.290	10.9	47478	505	2.260	2.220	1.8	48638	504	3.380	2.890	17.0
47420	503	2.380	2.100	13.3	48039	501	46.700	45.700	2.2	48638	505	2.380	2.140	11.2
47420	504	1.430	1.220	17.2	48039	503	42.700	40.800	4.7	48808	501	.970	.980	-1.0
47420	505	1.010	.910	11.0	48039	504	17.700	16.500	7.3	48808	503	1.260	1.240	1.6
47469	501	3.710	3.650	1.6	48039	505	24.100	23.600	2.1	48808	504	.830	.800	3.7
47469	503	2.210	2.120	4.2	48206	501	21.300	19.100	11.5	48808	505	.920	.930	-1.1
47469	504	2.310	2.160	6.9	48206	503	35.400	31.100	13.8	48925	501	163.000	147.000	10.9
47469	505	1.610	1.580	1.9	48206	504	21.200	18.200	16.5	48925	503	272.000	239.000	13.8
47471	501	3.220	3.160	1.9	48206	505	14.900	13.400	11.2	48925	504	163.000	140.000	16.4
47471	503	1.910	1.840	3.8	48441	501	.089	.080	11.3	48925	505	115.000	103.000	11.7
47471	504	2.000	1.870	7.0	48441	503	.149	.131	13.7	49005	501	.100	.106	-5.7
47471	505	1.400	1.370	2.2	48441	504	.089	.076	17.1	49005	503	.178	.188	-5.3
47473	501	4.210	4.140	1.7	48441	505	.063	.056	12.5	49005	504	.088	.092	-4.3
47473	503	2.500	2.400	4.2	48557	501	8.930	8.040	11.1	49005	505	.119	.124	-4.0
47473	504	2.620	2.450	6.9	48557	503	14.900	13.100	13.7	49111	501	1.490	1.500	-0.7
47473	505	1.830	1.790	2.2	48557	504	8.910	7.630	16.8	49111	503	1.920	1.890	1.6
47474	501	4.700	4.620	1.7	48557	505	6.270	5.650	11.0	49111	504	1.280	1.230	4.1
47474	503	2.800	2.690	4.1	48558	501	7.770	6.990	11.2	49111	505	1.400	1.420	-1.4
47474	504	2.920	2.740	6.6	48558	503	12.900	11.400	13.2	49181	501	15.300	14.900	2.7
47474	505	2.040	2.010	1.5	48558	504	7.750	6.640	16.7	49181	503	14.000	13.300	5.3

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LOSS COST % CHANGE BY CLASS

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49181	504	5.770	5.370	7.4	49619	503	.350	.330	6.1	50017	501	.034	.039	-12.8
49181	505	7.860	7.690	2.2	49619	504	.245	.224	9.4	50017	503	.045	.052	-13.5
49183	501	18.600	18.200	2.2	49619	505	.188	.182	3.3	50017	504	.039	.046	-15.2
49183	503	17.000	16.300	4.3	49763	501	2.240	2.160	3.7	50017	505	.048	.055	-12.7
49183	504	7.040	6.550	7.5	49763	503	2.260	2.120	6.6	50045	501	.078	.089	-12.4
49183	505	9.580	9.380	2.1	49763	504	1.590	1.450	9.7	50045	503	.103	.120	-14.2
49184	501	39.200	38.400	2.1	49763	505	1.220	1.180	3.4	50045	504	.089	.105	-15.2
49184	503	35.900	34.300	4.7	49801	501	128.000	125.000	2.4	50045	505	.109	.125	-12.8
49184	504	14.800	13.800	7.2	49801	503	117.000	112.000	4.5	50047	501	.009	.010	-10.0
49184	505	20.200	19.800	2.0	49801	504	48.400	45.100	7.3	50047	503	.012	.013	-7.7
49185	501	35.700	35.000	2.0	49801	505	65.900	64.600	2.0	50047	504	.010	.012	-16.7
49185	503	32.700	31.200	4.8	49802	501	11.300	11.100	1.8	50047	505	.012	.014	-14.3
49185	504	13.500	12.600	7.1	49802	503	10.400	9.930	4.7	51001	501	.030	.034	-11.8
49185	505	18.400	18.000	2.2	49802	504	4.290	4.000	7.2	51001	503	.020	.022	-9.1
49239	501	.095	.102	-6.9	49802	505	5.840	5.720	2.1	51001	504	.038	.042	-9.5
49239	503	.122	.132	-7.6	49803	501	20.100	19.700	2.0	51001	505	.031	.034	-8.8
49239	504	.102	.109	-6.4	49803	503	18.400	17.600	4.5	51005	501	.006	.007	-14.3
49239	505	.089	.095	-6.3	49803	504	7.600	7.080	7.3	51005	503	.004	.005	-20.0
49292	501	1.120	1.090	2.8	49803	505	10.300	10.100	2.0	51005	504	.008	.009	-11.1
49292	503	1.020	.980	4.1	49840	501	.610	.640	-4.7	51005	505	.006	.007	-14.3
49292	504	.420	.390	7.7	49840	503	1.080	1.140	-5.3	51116	501	.076	.085	-10.6
49292	505	.570	.560	1.8	49840	504	.530	.560	-5.4	51116	503	.051	.057	-10.5
49333	501	8.180	8.010	2.1	49840	505	.720	.750	-4.0	51116	504	.095	.105	-9.5
49333	503	7.490	7.160	4.6	49870	501	68.300	61.400	11.2	51116	505	.079	.087	-9.2
49333	504	3.100	2.880	7.6	49870	503	114.000	99.900	14.1	51201	501	.012	.014	-14.3
49333	505	4.220	4.130	2.2	49870	504	68.100	58.300	16.8	51201	503	.016	.018	-11.1
49617	501	.218	.211	3.3	49870	505	48.000	43.200	11.1	51201	504	.013	.016	-18.8
49617	503	.220	.207	6.3	50010	501	.069	.079	-12.7	51201	505	.016	.019	-15.8
49617	504	.155	.142	9.2	50010	503	.091	.106	-14.2	51205	501	.036	.041	-12.2
49617	505	.119	.115	3.5	50010	504	.079	.093	-15.1	51205	503	.047	.055	-14.5
49618	501	.183	.177	3.4	50010	505	.096	.110	-12.7	51205	504	.041	.048	-14.6
49618	503	.185	.174	6.3	50015	501	.045	.051	-11.8	51205	505	.050	.057	-12.3
49618	504	.130	.119	9.2	50015	503	.059	.069	-14.5	51206	501	.006	.006	0.0
49618	505	.100	.097	3.1	50015	504	.051	.060	-15.0	51206	503	.007	.009	-22.2
49619	501	.340	.330	3.0	50015	505	.063	.072	-12.5	51206	504	.006	.008	-25.0

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LOSS COST % CHANGE BY CLASS

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51206	505	.008	.009	-11.1	51250	504	.174	.192	-9.4	51330	503	.036	.040	-10.0
51210	501	.053	.059	-10.2	51250	505	.143	.158	-9.5	51330	504	.067	.074	-9.5
51210	503	.035	.039	-10.3	51251	501	.012	.014	-14.3	51330	505	.055	.061	-9.8
51210	504	.066	.073	-9.6	51251	503	.016	.019	-15.8	51333	501	.018	.020	-10.0
51210	505	.054	.060	-10.0	51251	504	.014	.016	-12.5	51333	503	.012	.013	-7.7
51220	501	.181	.201	-10.0	51251	505	.017	.020	-15.0	51333	504	.022	.024	-8.3
51220	503	.121	.135	-10.4	51252	501	.043	.049	-12.2	51333	505	.018	.020	-10.0
51220	504	.226	.249	-9.2	51252	503	.057	.066	-13.6	51340	501	.012	.013	-7.7
51220	505	.187	.206	-9.2	51252	504	.049	.057	-14.0	51340	503	.015	.018	-16.7
51221	501	.101	.112	-9.8	51252	505	.060	.068	-11.8	51340	504	.013	.016	-18.8
51221	503	.067	.075	-10.7	51253	501	.037	.042	-11.9	51340	505	.016	.019	-15.8
51221	504	.125	.139	-10.1	51253	503	.048	.056	-14.3	51350	501	.194	.208	-6.7
51221	505	.104	.114	-8.8	51253	504	.042	.049	-14.3	51350	503	.190	.203	-6.4
51222	501	.122	.136	-10.3	51253	505	.051	.058	-12.1	51350	504	.092	.098	-6.1
51222	503	.082	.091	-9.9	51254	501	.011	.013	-15.4	51350	505	.154	.163	-5.5
51222	504	.153	.169	-9.5	51254	503	.015	.017	-11.8	51351	501	.174	.186	-6.5
51222	505	.126	.139	-9.4	51254	504	.013	.015	-13.3	51351	503	.170	.182	-6.6
51224	501	.128	.143	-10.5	51254	505	.016	.018	-11.1	51351	504	.083	.088	-5.7
51224	503	.086	.095	-9.5	51255	501	.350	.390	-10.3	51351	505	.138	.146	-5.5
51224	504	.160	.177	-9.6	51255	503	.235	.260	-9.6	51352	501	.239	.260	-8.1
51224	505	.132	.146	-9.6	51255	504	.440	.490	-10.2	51352	503	.234	.250	-6.4
51230	501	.022	.024	-8.3	51255	505	.360	.400	-10.0	51352	504	.113	.120	-5.8
51230	503	.015	.016	-6.3	51300	501	.116	.124	-6.5	51352	505	.190	.201	-5.5
51230	504	.027	.030	-10.0	51300	503	.113	.121	-6.6	51355	501	.163	.174	-6.3
51230	505	.022	.025	-12.0	51300	504	.055	.058	-5.2	51355	503	.159	.170	-6.5
51240	501	.143	.162	-11.7	51300	505	.092	.097	-5.2	51355	504	.077	.082	-6.1
51240	503	.187	.217	-13.8	51305	501	.116	.124	-6.5	51355	505	.129	.137	-5.8
51240	504	.162	.190	-14.7	51305	503	.113	.121	-6.6	51356	501	.175	.188	-6.9
51240	505	.198	.227	-12.8	51305	504	.055	.058	-5.2	51356	503	.172	.183	-6.0
51241	501	.420	.480	-12.5	51305	505	.092	.097	-5.2	51356	504	.083	.088	-5.7
51241	503	.560	.650	-13.8	51315	501	.062	.066	-6.1	51356	505	.139	.147	-5.4
51241	504	.480	.560	-14.3	51315	503	.079	.086	-8.1	51357	501	.087	.094	-7.4
51241	505	.590	.670	-11.9	51315	504	.066	.071	-7.0	51357	503	.113	.121	-6.6
51250	501	.139	.155	-10.3	51315	505	.057	.061	-6.6	51357	504	.094	.101	-6.9
51250	503	.093	.103	-9.7	51330	501	.054	.060	-10.0	51357	505	.082	.087	-5.7

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51358	501	.211	.226	-6.6	51517	505	.059	.062	-4.8	51613	504	.032	.038	-15.8
51358	503	.270	.290	-6.9	51550	501	.033	.037	-10.8	51613	505	.039	.045	-13.3
51358	504	.227	.243	-6.6	51550	503	.043	.050	-14.0	51625	501	.028	.031	-9.7
51358	505	.197	.210	-6.2	51550	504	.037	.043	-14.0	51625	503	.018	.021	-14.3
51359	501	.185	.199	-7.0	51550	505	.045	.052	-13.5	51625	504	.035	.038	-7.9
51359	503	.238	.260	-8.5	51551	501	.011	.013	-15.4	51625	505	.029	.031	-6.5
51359	504	.199	.213	-6.6	51551	503	.015	.017	-11.8	51666	501	.083	.088	-5.7
51359	505	.172	.184	-6.5	51551	504	.013	.015	-13.3	51666	503	.081	.086	-5.8
51370	501	.139	.159	-12.6	51551	505	.016	.018	-11.1	51666	504	.039	.042	-7.1
51370	503	.183	.212	-13.7	51552	501	.020	.022	-9.1	51666	505	.066	.069	-4.3
51370	504	.158	.186	-15.1	51552	503	.026	.030	-13.3	51702	501	.083	.092	-9.8
51370	505	.193	.221	-12.7	51552	504	.022	.026	-15.4	51702	503	.055	.062	-11.3
51380	501	.014	.016	-12.5	51552	505	.027	.031	-12.9	51702	504	.104	.114	-8.8
51380	503	.018	.021	-14.3	51553	501	.035	.040	-12.5	51702	505	.086	.094	-8.5
51380	504	.016	.019	-15.8	51553	503	.046	.053	-13.2	51703	501	.034	.038	-10.5
51380	505	.019	.022	-13.6	51553	504	.040	.047	-14.9	51703	503	.023	.026	-11.5
51400	501	.126	.140	-10.0	51553	505	.048	.055	-12.7	51703	504	.043	.047	-8.5
51400	503	.084	.093	-9.7	51554	501	.003	.004	-25.0	51703	505	.035	.039	-10.3
51400	504	.157	.173	-9.2	51554	503	.004	.005	-20.0	51734	501	.065	.072	-9.7
51400	505	.130	.143	-9.1	51554	504	.004	.004	0.0	51734	503	.043	.048	-10.4
51401	501	.185	.206	-10.2	51554	505	.005	.005	0.0	51734	504	.081	.089	-9.0
51401	503	.124	.138	-10.1	51575	501	.052	.056	-7.1	51734	505	.067	.073	-8.2
51401	504	.231	.260	-11.2	51575	503	.051	.054	-5.6	51741	501	.074	.085	-12.9
51401	505	.191	.211	-9.5	51575	504	.025	.026	-3.8	51741	503	.097	.113	-14.2
51500	501	.026	.030	-13.3	51575	505	.041	.044	-6.8	51741	504	.084	.099	-15.2
51500	503	.035	.040	-12.5	51576	501	.063	.071	-11.3	51741	505	.103	.118	-12.7
51500	504	.030	.035	-14.3	51576	503	.082	.095	-13.7	51752	501	.063	.071	-11.3
51500	505	.037	.042	-11.9	51576	504	.071	.083	-14.5	51752	503	.082	.095	-13.7
51516	501	.044	.047	-6.4	51576	505	.087	.099	-12.1	51752	504	.071	.083	-14.5
51516	503	.079	.083	-4.8	51600	501	.043	.049	-12.2	51752	505	.087	.099	-12.1
51516	504	.039	.041	-4.9	51600	503	.056	.065	-13.8	51767	501	.024	.026	-7.7
51516	505	.052	.055	-5.5	51600	504	.048	.057	-15.8	51767	503	.024	.025	-4.0
51517	501	.050	.053	-5.7	51600	505	.059	.068	-13.2	51767	504	.011	.012	-8.3
51517	503	.089	.094	-5.3	51613	501	.028	.032	-12.5	51767	505	.019	.020	-5.0
51517	504	.044	.046	-4.3	51613	503	.037	.043	-14.0	51777	501	.084	.090	-6.7

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STATE: 21 - MICHIGAN  
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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
51777	503	.082	.088	-6.8	51853	501	.083	.092	-9.8	51896	505	.019	.022	-13.6
51777	504	.040	.042	-4.8	51853	503	.055	.062	-11.3	51900	501	.094	.101	-6.9
51777	505	.067	.071	-5.6	51853	504	.104	.114	-8.8	51900	503	.092	.098	-6.1
51790	501	.140	.150	-6.7	51853	505	.086	.094	-8.5	51900	504	.045	.047	-4.3
51790	503	.137	.146	-6.2	51854	501	.186	.207	-10.1	51900	505	.075	.079	-5.1
51790	504	.066	.070	-5.7	51854	503	.124	.138	-10.1	51909	501	.117	.130	-10.0
51790	505	.111	.118	-5.9	51854	504	.232	.260	-10.8	51909	503	.078	.087	-10.3
51796	501	.027	.031	-12.9	51854	505	.192	.212	-9.4	51909	504	.146	.162	-9.9
51796	503	.036	.041	-12.2	51855	501	.195	.217	-10.1	51909	505	.121	.134	-9.7
51796	504	.031	.036	-13.9	51855	503	.130	.145	-10.3	51919	501	.030	.034	-11.8
51796	505	.037	.043	-14.0	51855	504	.244	.270	-9.6	51919	503	.039	.045	-13.3
51808	501	.096	.110	-12.7	51855	505	.201	.222	-9.5	51919	504	.034	.040	-15.0
51808	503	.126	.146	-13.7	51856	501	.107	.119	-10.1	51919	505	.041	.047	-12.8
51808	504	.109	.128	-14.8	51856	503	.072	.080	-10.0	51926	501	.030	.035	-14.3
51808	505	.133	.153	-13.1	51856	504	.134	.148	-9.5	51926	503	.040	.046	-13.0
51809	501	.119	.136	-12.5	51856	505	.111	.122	-9.0	51926	504	.034	.040	-15.0
51809	503	.157	.182	-13.7	51857	501	.184	.204	-9.8	51926	505	.042	.048	-12.5
51809	504	.135	.159	-15.1	51857	503	.122	.136	-10.3	51927	501	.016	.019	-15.8
51809	505	.165	.190	-13.2	51857	504	.229	.250	-8.4	51927	503	.022	.025	-12.0
51833	501	.126	.135	-6.7	51857	505	.189	.209	-9.6	51927	504	.019	.022	-13.6
51833	503	.123	.131	-6.1	51869	501	.032	.036	-11.1	51927	505	.023	.026	-11.5
51833	504	.060	.063	-4.8	51869	503	.042	.049	-14.3	51934	501	.033	.038	-13.2
51833	505	.100	.106	-5.7	51869	504	.036	.042	-14.3	51934	503	.044	.051	-13.7
51850	501	.130	.144	-9.7	51869	505	.044	.051	-13.7	51934	504	.038	.044	-13.6
51850	503	.087	.097	-10.3	51877	501	.179	.204	-12.3	51934	505	.046	.053	-13.2
51850	504	.162	.179	-9.5	51877	503	.236	.270	-12.6	51941	501	.030	.034	-11.8
51850	505	.134	.148	-9.5	51877	504	.204	.239	-14.6	51941	503	.040	.046	-13.0
51851	501	.088	.098	-10.2	51877	505	.249	.290	-14.1	51941	504	.034	.040	-15.0
51851	503	.059	.065	-9.2	51889	501	.030	.034	-11.8	51941	505	.042	.048	-12.5
51851	504	.110	.121	-9.1	51889	503	.039	.045	-13.3	51942	501	.048	.055	-12.7
51851	505	.091	.100	-9.0	51889	504	.033	.039	-15.4	51942	503	.063	.074	-14.9
51852	501	.206	.229	-10.0	51889	505	.041	.047	-12.8	51942	504	.055	.064	-14.1
51852	503	.138	.153	-9.8	51896	501	.014	.016	-12.5	51942	505	.067	.077	-13.0
51852	504	.260	.280	-7.1	51896	503	.018	.021	-14.3	51956	501	.130	.149	-12.8
51852	505	.213	.235	-9.4	51896	504	.016	.018	-11.1	51956	503	.171	.199	-14.1

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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	504	.148	.174	-14.9	51999	503	.038	.045	-15.6	52341	501	.025	.028	-10.7
51956	505	.181	.207	-12.6	51999	504	.033	.039	-15.4	52341	503	.017	.019	-10.5
51957	501	.115	.131	-12.2	51999	505	.041	.046	-10.9	52341	504	.031	.035	-11.4
51957	503	.151	.175	-13.7	52002	501	.026	.029	-10.3	52341	505	.026	.029	-10.3
51957	504	.130	.153	-15.0	52002	503	.034	.039	-12.8	52342	501	.073	.081	-9.9
51957	505	.159	.183	-13.1	52002	504	.029	.034	-14.7	52342	503	.049	.054	-9.3
51958	501	.102	.116	-12.1	52002	505	.036	.041	-12.2	52342	504	.091	.100	-9.0
51958	503	.134	.156	-14.1	52075	501	.102	.114	-10.5	52342	505	.075	.083	-9.6
51958	504	.116	.136	-14.7	52075	503	.068	.076	-10.5	52343	501	.044	.049	-10.2
51958	505	.142	.162	-12.3	52075	504	.128	.141	-9.2	52343	503	.030	.033	-9.1
51959	501	.104	.119	-12.6	52075	505	.105	.116	-9.5	52343	504	.055	.061	-9.8
51959	503	.137	.159	-13.8	52076	501	.123	.137	-10.2	52343	505	.046	.051	-9.8
51959	504	.119	.139	-14.4	52076	503	.082	.092	-10.9	52401	501	.137	.153	-10.5
51959	505	.145	.166	-12.7	52076	504	.154	.170	-9.4	52401	503	.092	.102	-9.8
51960	501	.014	.016	-12.5	52076	505	.127	.140	-9.3	52401	504	.172	.189	-9.0
51960	503	.018	.021	-14.3	52109	501	.006	.007	-14.3	52401	505	.142	.156	-9.0
51960	504	.016	.018	-11.1	52109	503	.009	.010	-10.0	52402	501	.006	.007	-14.3
51960	505	.019	.022	-13.6	52109	504	.007	.009	-22.2	52402	503	.009	.010	-10.0
51970	501	.060	.068	-11.8	52109	505	.009	.010	-10.0	52402	504	.007	.009	-22.2
51970	503	.079	.091	-13.2	52134	501	.086	.098	-12.2	52402	505	.009	.010	-10.0
51970	504	.068	.080	-15.0	52134	503	.113	.131	-13.7	52432	501	.032	.037	-13.5
51970	505	.083	.095	-12.6	52134	504	.098	.115	-14.8	52432	503	.042	.049	-14.3
51982	501	.018	.020	-10.0	52134	505	.119	.137	-13.1	52432	504	.036	.043	-16.3
51982	503	.023	.027	-14.8	52137	501	.040	.045	-11.1	52432	505	.045	.051	-11.8
51982	504	.020	.024	-16.7	52137	503	.027	.030	-10.0	52433	501	.029	.033	-12.1
51982	505	.024	.028	-14.3	52137	504	.050	.055	-9.1	52433	503	.039	.045	-13.3
51985	501	.041	.044	-6.8	52137	505	.041	.046	-10.9	52433	504	.033	.039	-15.4
51985	503	.073	.077	-5.2	52150	501	.158	.180	-12.2	52433	505	.041	.047	-12.8
51985	504	.036	.038	-5.3	52150	503	.208	.241	-13.7	52435	501	.037	.042	-11.9
51985	505	.049	.051	-3.9	52150	504	.180	.211	-14.7	52435	503	.048	.056	-14.3
51986	501	.069	.079	-12.7	52150	505	.219	.250	-12.4	52435	504	.042	.049	-14.3
51986	503	.091	.106	-14.2	52315	501	.109	.117	-6.8	52435	505	.051	.059	-13.6
51986	504	.079	.093	-15.1	52315	503	.107	.114	-6.1	52438	501	.027	.030	-10.0
51986	505	.096	.110	-12.7	52315	504	.052	.055	-5.5	52438	503	.035	.041	-14.6
51999	501	.029	.033	-12.1	52315	505	.087	.092	-5.4	52438	504	.030	.035	-14.3

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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
52438	505	.037	.042	-11.9	52744	504	.229	.243	-5.8	53147	503	.012	.014	-14.3
52440	501	.042	.048	-12.5	52744	505	.380	.410	-7.3	53147	504	.023	.025	-8.0
52440	503	.055	.064	-14.1	52767	501	.109	.121	-9.9	53147	505	.019	.021	-9.5
52440	504	.047	.056	-16.1	52767	503	.073	.081	-9.9	53229	501	.103	.115	-10.4
52440	505	.058	.066	-12.1	52767	504	.136	.150	-9.3	53229	503	.069	.077	-10.4
52467	501	.039	.044	-11.4	52767	505	.112	.124	-9.7	53229	504	.129	.142	-9.2
52467	503	.051	.059	-13.6	52911	501	.018	.021	-14.3	53229	505	.106	.117	-9.4
52467	504	.044	.051	-13.7	52911	503	.024	.028	-14.3	53271	501	.017	.019	-10.5
52467	505	.054	.061	-11.5	52911	504	.021	.024	-12.5	53271	503	.022	.025	-12.0
52469	501	.014	.015	-6.7	52911	505	.025	.029	-13.8	53271	504	.019	.022	-13.6
52469	503	.018	.021	-14.3	52967	501	.007	.008	-12.5	53271	505	.023	.026	-11.5
52469	504	.015	.018	-16.7	52967	503	.009	.011	-18.2	53333	501	.101	.113	-10.6
52469	505	.019	.021	-9.5	52967	504	.008	.009	-11.1	53333	503	.068	.075	-9.3
52505	501	.067	.077	-13.0	52967	505	.010	.011	-9.1	53333	504	.127	.140	-9.3
52505	503	.088	.103	-14.6	53001	501	.067	.077	-13.0	53333	505	.105	.115	-8.7
52505	504	.076	.090	-15.6	53001	503	.089	.103	-13.6	53374	501	.127	.136	-6.6
52505	505	.093	.107	-13.1	53001	504	.077	.090	-14.4	53374	503	.124	.133	-6.8
52547	501	.119	.132	-9.8	53001	505	.094	.107	-12.1	53374	504	.060	.064	-6.2
52547	503	.079	.088	-10.2	53077	501	.032	.037	-13.5	53374	505	.101	.107	-5.6
52547	504	.149	.164	-9.1	53077	503	.043	.049	-12.2	53375	501	.067	.072	-6.9
52547	505	.123	.135	-8.9	53077	504	.037	.043	-14.0	53375	503	.066	.070	-5.7
52581	501	.330	.370	-10.8	53077	505	.045	.052	-13.5	53375	504	.032	.034	-5.9
52581	503	.430	.500	-14.0	53095	501	.022	.025	-12.0	53375	505	.053	.057	-7.0
52581	504	.370	.440	-15.9	53095	503	.029	.034	-14.7	53376	501	.108	.116	-6.9
52581	505	.460	.520	-11.5	53095	504	.025	.030	-16.7	53376	503	.106	.113	-6.2
52619	501	.023	.026	-11.5	53095	505	.031	.035	-11.4	53376	504	.051	.054	-5.6
52619	503	.030	.035	-14.3	53096	501	.031	.035	-11.4	53376	505	.086	.091	-5.5
52619	504	.026	.031	-16.1	53096	503	.041	.047	-12.8	53377	501	.110	.118	-6.8
52619	505	.032	.037	-13.5	53096	504	.035	.041	-14.6	53377	503	.108	.115	-6.1
52660	501	.052	.055	-5.5	53096	505	.043	.049	-12.2	53377	504	.052	.056	-7.1
52660	503	.093	.098	-5.1	53121	501	.088	.100	-12.0	53377	505	.088	.093	-5.4
52660	504	.046	.048	-4.2	53121	503	.115	.134	-14.2	53403	501	.070	.075	-6.7
52660	505	.062	.065	-4.6	53121	504	.100	.117	-14.5	53403	503	.068	.073	-6.8
52744	501	.480	.520	-7.7	53121	505	.122	.140	-12.9	53403	504	.033	.035	-5.7
52744	503	.470	.500	-6.0	53147	501	.018	.020	-10.0	53403	505	.055	.059	-6.8

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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
53425	501	.096	.106	-9.4	53803	505	.235	.260	-9.6	55371	504	.154	.163	-5.5
53425	503	.064	.071	-9.9	53907	501	.032	.037	-13.5	55371	505	.260	.270	-3.7
53425	504	.119	.132	-9.8	53907	503	.042	.049	-14.3	55426	501	.105	.116	-9.5
53425	505	.098	.109	-10.1	53907	504	.037	.043	-14.0	55426	503	.070	.078	-10.3
53565	501	.081	.087	-6.9	53907	505	.045	.051	-11.8	55426	504	.131	.144	-9.0
53565	503	.080	.085	-5.9	54012	501	.026	.028	-7.1	55426	505	.108	.119	-9.2
53565	504	.039	.041	-4.9	54012	503	.047	.050	-6.0	55597	501	.009	.010	-10.0
53565	505	.065	.068	-4.4	54012	504	.023	.024	-4.2	55597	503	.011	.013	-15.4
53631	501	.010	.012	-16.7	54012	505	.031	.033	-6.1	55597	504	.010	.012	-16.7
53631	503	.013	.016	-18.8	54077	501	.044	.050	-12.0	55597	505	.012	.014	-14.3
53631	504	.012	.014	-14.3	54077	503	.058	.067	-13.4	55647	501	.017	.020	-15.0
53631	505	.014	.016	-12.5	54077	504	.050	.059	-15.3	55647	503	.023	.026	-11.5
53632	501	.012	.013	-7.7	54077	505	.061	.070	-12.9	55647	504	.020	.023	-13.0
53632	503	.015	.018	-16.7	55010	501	.133	.152	-12.5	55647	505	.024	.028	-14.3
53632	504	.013	.016	-18.8	55010	503	.175	.203	-13.8	55648	501	.008	.009	-11.1
53632	505	.016	.019	-15.8	55010	504	.151	.178	-15.2	55648	503	.010	.012	-16.7
53731	501	.011	.012	-8.3	55010	505	.185	.212	-12.7	55648	504	.009	.010	-10.0
53731	503	.014	.016	-12.5	55011	501	.036	.041	-12.2	55648	505	.011	.012	-8.3
53731	504	.012	.014	-14.3	55011	503	.047	.055	-14.5	55649	501	.009	.011	-18.2
53731	505	.015	.017	-11.8	55011	504	.041	.048	-14.6	55649	503	.012	.014	-14.3
53732	501	.073	.084	-13.1	55011	505	.050	.057	-12.3	55649	504	.011	.013	-15.4
53732	503	.096	.112	-14.3	55012	501	.043	.049	-12.2	55649	505	.013	.015	-13.3
53732	504	.083	.098	-15.3	55012	503	.056	.065	-13.8	55715	501	.069	.079	-12.7
53732	505	.102	.117	-12.8	55012	504	.049	.057	-14.0	55715	503	.091	.105	-13.3
53733	501	.048	.054	-11.1	55012	505	.060	.068	-11.8	55715	504	.078	.092	-15.2
53733	503	.063	.073	-13.7	55013	501	.086	.096	-10.4	55715	505	.096	.110	-12.7
53733	504	.054	.064	-15.6	55013	503	.058	.064	-9.4	55716	501	.100	.114	-12.3
53733	505	.066	.076	-13.2	55013	504	.108	.119	-9.2	55716	503	.131	.152	-13.8
53734	501	.260	.280	-7.1	55013	505	.089	.098	-9.2	55716	504	.113	.133	-15.0
53734	503	.470	.500	-6.0	55214	501	.035	.040	-12.5	55716	505	.138	.158	-12.7
53734	504	.233	.244	-4.5	55214	503	.046	.053	-13.2	55717	501	.138	.154	-10.4
53734	505	.310	.330	-6.1	55214	504	.039	.046	-15.2	55717	503	.092	.103	-10.7
53803	501	.228	.250	-8.8	55214	505	.048	.055	-12.7	55717	504	.173	.190	-8.9
53803	503	.152	.169	-10.1	55371	501	.320	.350	-8.6	55717	505	.143	.157	-8.9
53803	504	.280	.310	-9.7	55371	503	.320	.340	-5.9	55718	501	.134	.149	-10.1

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STATE: 21 - MICHIGAN  
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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
55718	503	.089	.100	-11.0	56202	501	.025	.028	-10.7	56652	505	.119	.132	-9.8
55718	504	.167	.185	-9.7	56202	503	.032	.037	-13.5	56653	501	.111	.124	-10.5
55718	505	.138	.153	-9.8	56202	504	.028	.033	-15.2	56653	503	.074	.083	-10.8
55802	501	.084	.090	-6.7	56202	505	.034	.039	-12.8	56653	504	.139	.154	-9.7
55802	503	.082	.088	-6.8	56390	501	.043	.049	-12.2	56653	505	.115	.127	-9.4
55802	504	.040	.042	-4.8	56390	503	.056	.065	-13.8	56654	501	.057	.063	-9.5
55802	505	.067	.071	-5.6	56390	504	.049	.057	-14.0	56654	503	.038	.042	-9.5
55918	501	.039	.045	-13.3	56390	505	.060	.068	-11.8	56654	504	.071	.079	-10.1
55918	503	.052	.060	-13.3	56391	501	.037	.042	-11.9	56654	505	.059	.065	-9.2
55918	504	.045	.053	-15.1	56391	503	.048	.056	-14.3	56690	501	.072	.078	-7.7
55918	505	.055	.063	-12.7	56391	504	.042	.049	-14.3	56690	503	.071	.076	-6.6
55919	501	.005	.006	-16.7	56391	505	.051	.059	-13.6	56690	504	.034	.037	-8.1
55919	503	.007	.008	-12.5	56427	501	.059	.068	-13.2	56690	505	.057	.061	-6.6
55919	504	.006	.007	-14.3	56427	503	.078	.090	-13.3	56699	501	.027	.031	-12.9
55919	505	.007	.009	-22.2	56427	504	.067	.079	-15.2	56699	503	.036	.042	-14.3
56040	501	.004	.004	0.0	56427	505	.082	.094	-12.8	56699	504	.031	.036	-13.9
56040	503	.005	.006	-16.7	56488	501	.140	.150	-6.7	56699	505	.038	.043	-11.6
56040	504	.004	.005	-20.0	56488	503	.137	.146	-6.2	56758	501	.023	.026	-11.5
56040	505	.005	.006	-16.7	56488	504	.066	.070	-5.7	56758	503	.030	.035	-14.3
56041	501	.025	.028	-10.7	56488	505	.111	.118	-5.9	56758	504	.026	.031	-16.1
56041	503	.032	.037	-13.5	56567	501	.097	.108	-10.2	56758	505	.032	.037	-13.5
56041	504	.028	.033	-15.2	56567	503	.065	.072	-9.7	56759	501	.024	.027	-11.1
56041	505	.034	.039	-12.8	56567	504	.121	.134	-9.7	56759	503	.031	.036	-13.9
56042	501	.031	.035	-11.4	56567	505	.100	.111	-9.9	56759	504	.027	.032	-15.6
56042	503	.041	.047	-12.8	56650	501	.300	.330	-9.1	56759	505	.033	.038	-13.2
56042	504	.035	.041	-14.6	56650	503	.199	.221	-10.0	56760	501	.034	.039	-12.8
56042	505	.043	.049	-12.2	56650	504	.370	.410	-9.8	56760	503	.045	.052	-13.5
56170	501	.094	.104	-9.6	56650	505	.310	.340	-8.8	56760	504	.039	.045	-13.3
56170	503	.063	.070	-10.0	56651	501	.162	.180	-10.0	56760	505	.047	.054	-13.0
56170	504	.117	.129	-9.3	56651	503	.108	.120	-10.0	56805	501	.045	.051	-11.8
56170	505	.097	.107	-9.3	56651	504	.202	.223	-9.4	56805	503	.059	.068	-13.2
56171	501	.046	.051	-9.8	56651	505	.167	.184	-9.2	56805	504	.051	.060	-15.0
56171	503	.031	.034	-8.8	56652	501	.116	.129	-10.1	56805	505	.062	.071	-12.7
56171	504	.058	.063	-7.9	56652	503	.077	.086	-10.5	56806	501	.032	.036	-11.1
56171	505	.048	.052	-7.7	56652	504	.144	.159	-9.4	56806	503	.042	.048	-12.5

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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
56806	504	.036	.042	-14.3	56916	503	.197	.220	-10.5	57146	501	.097	.108	-10.2
56806	505	.044	.050	-12.0	56916	504	.370	.410	-9.8	57146	503	.065	.072	-9.7
56807	501	.031	.036	-13.9	56916	505	.300	.340	-11.8	57146	504	.121	.134	-9.7
56807	503	.041	.048	-14.6	56917	501	.085	.095	-10.5	57146	505	.100	.111	-9.9
56807	504	.036	.042	-14.3	56917	503	.057	.064	-10.9	57202	501	.030	.035	-14.3
56807	505	.044	.050	-12.0	56917	504	.107	.118	-9.3	57202	503	.040	.046	-13.0
56808	501	.041	.047	-12.8	56917	505	.088	.097	-9.3	57202	504	.034	.040	-15.0
56808	503	.054	.063	-14.3	56918	501	.041	.046	-10.9	57202	505	.042	.048	-12.5
56808	504	.047	.055	-14.5	56918	503	.027	.031	-12.9	57257	501	.038	.043	-11.6
56808	505	.057	.065	-12.3	56918	504	.051	.057	-10.5	57257	503	.049	.057	-14.0
56900	501	.039	.045	-13.3	56918	505	.042	.047	-10.6	57257	504	.043	.050	-14.0
56900	503	.052	.060	-13.3	56919	501	.105	.116	-9.5	57257	505	.052	.060	-13.3
56900	504	.045	.053	-15.1	56919	503	.070	.078	-10.3	57401	501	.021	.024	-12.5
56900	505	.055	.063	-12.7	56919	504	.131	.144	-9.0	57401	503	.028	.033	-15.2
56910	501	.020	.022	-9.1	56919	505	.108	.119	-9.2	57401	504	.024	.029	-17.2
56910	503	.026	.030	-13.3	56920	501	.096	.106	-9.4	57401	505	.030	.034	-11.8
56910	504	.022	.026	-15.4	56920	503	.064	.071	-9.9	57403	501	.171	.184	-7.1
56910	505	.027	.031	-12.9	56920	504	.119	.132	-9.8	57403	503	.168	.179	-6.1
56911	501	.084	.093	-9.7	56920	505	.098	.109	-10.1	57403	504	.081	.086	-5.8
56911	503	.056	.062	-9.7	56980	501	.034	.039	-12.8	57403	505	.136	.144	-5.6
56911	504	.105	.115	-8.7	56980	503	.045	.052	-13.5	57410	501	.010	.012	-16.7
56911	505	.086	.095	-9.5	56980	504	.039	.046	-15.2	57410	503	.014	.016	-12.5
56912	501	.068	.075	-9.3	56980	505	.047	.054	-13.0	57410	504	.012	.014	-14.3
56912	503	.045	.050	-10.0	57001	501	.012	.013	-7.7	57410	505	.014	.016	-12.5
56912	504	.085	.094	-9.6	57001	503	.015	.018	-16.7	57411	501	.023	.026	-11.5
56912	505	.070	.077	-9.1	57001	504	.013	.016	-18.8	57411	503	.016	.017	-5.9
56913	501	.055	.061	-9.8	57001	505	.016	.019	-15.8	57411	504	.029	.032	-9.4
56913	503	.037	.041	-9.8	57002	501	.008	.009	-11.1	57411	505	.024	.027	-11.1
56913	504	.069	.076	-9.2	57002	503	.010	.012	-16.7	57572	501	.006	.007	-14.3
56913	505	.057	.063	-9.5	57002	504	.009	.010	-10.0	57572	503	.008	.009	-11.1
56915	501	.330	.360	-8.3	57002	505	.011	.012	-8.3	57572	504	.007	.008	-12.5
56915	503	.219	.244	-10.2	57090	501	.153	.171	-10.5	57572	505	.008	.010	-20.0
56915	504	.410	.450	-8.9	57090	503	.102	.114	-10.5	57600	501	.018	.021	-14.3
56915	505	.340	.370	-8.1	57090	504	.191	.211	-9.5	57600	503	.024	.028	-14.3
56916	501	.300	.330	-9.1	57090	505	.158	.175	-9.7	57600	504	.021	.024	-12.5

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LOSS COST % CHANGE BY CLASS

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57600	505	.025	.029	-13.8	57800	504	.041	.049	-16.3	58009	503	.029	.032	-9.4
57611	501	.050	.056	-10.7	57800	505	.051	.058	-12.1	58009	504	.053	.059	-10.2
57611	503	.034	.037	-8.1	57808	501	.026	.029	-10.3	58009	505	.044	.049	-10.2
57611	504	.063	.069	-8.7	57808	503	.017	.019	-10.5	58010	501	.049	.055	-10.9
57611	505	.052	.057	-8.8	57808	504	.032	.036	-11.1	58010	503	.064	.074	-13.5
57625	501	.159	.181	-12.2	57808	505	.027	.030	-10.0	58010	504	.055	.065	-15.4
57625	503	.209	.242	-13.6	57809	501	.027	.030	-10.0	58010	505	.068	.077	-11.7
57625	504	.180	.212	-15.1	57809	503	.018	.020	-10.0	58020	501	.184	.197	-6.6
57625	505	.220	.250	-12.0	57809	504	.033	.037	-10.8	58020	503	.180	.192	-6.3
57651	501	.019	.022	-13.6	57809	505	.028	.031	-9.7	58020	504	.087	.093	-6.5
57651	503	.025	.029	-13.8	57810	501	.026	.029	-10.3	58020	505	.146	.155	-5.8
57651	504	.022	.026	-15.4	57810	503	.017	.019	-10.5	58056	501	.058	.066	-12.1
57651	505	.027	.031	-12.9	57810	504	.032	.036	-11.1	58056	503	.076	.088	-13.6
57690	501	.065	.073	-11.0	57810	505	.027	.030	-10.0	58056	504	.066	.077	-14.3
57690	503	.044	.049	-10.2	57871	501	.031	.034	-8.8	58056	505	.081	.092	-12.0
57690	504	.082	.090	-8.9	57871	503	.021	.023	-8.7	58057	501	.037	.042	-11.9
57690	505	.067	.074	-9.5	57871	504	.039	.043	-9.3	58057	503	.048	.056	-14.3
57716	501	.031	.034	-8.8	57871	505	.032	.035	-8.6	58057	504	.041	.049	-16.3
57716	503	.021	.023	-8.7	57913	501	.047	.054	-13.0	58057	505	.051	.058	-12.1
57716	504	.039	.043	-9.3	57913	503	.062	.072	-13.9	58058	501	.033	.037	-10.8
57716	505	.032	.035	-8.6	57913	504	.054	.063	-14.3	58058	503	.043	.050	-14.0
57725	501	.068	.075	-9.3	57913	505	.066	.075	-12.0	58058	504	.037	.044	-15.9
57725	503	.045	.050	-10.0	57997	501	.059	.062	-4.8	58058	505	.046	.052	-11.5
57725	504	.085	.094	-9.6	57997	503	.105	.111	-5.4	58095	501	.046	.053	-13.2
57725	505	.070	.077	-9.1	57997	504	.052	.054	-3.7	58095	503	.061	.070	-12.9
57726	501	.053	.059	-10.2	57997	505	.070	.073	-4.1	58095	504	.052	.062	-16.1
57726	503	.035	.039	-10.3	57998	501	.021	.024	-12.5	58095	505	.064	.073	-12.3
57726	504	.066	.073	-9.6	57998	503	.028	.032	-12.5	58096	501	.061	.070	-12.9
57726	505	.054	.060	-10.0	57998	504	.024	.028	-14.3	58096	503	.081	.094	-13.8
57798	501	.010	.011	-9.1	57998	505	.029	.033	-12.1	58096	504	.070	.082	-14.6
57798	503	.013	.015	-13.3	57999	501	.043	.048	-10.4	58096	505	.085	.098	-13.3
57798	504	.011	.013	-15.4	57999	503	.029	.032	-9.4	58301	501	.033	.036	-8.3
57798	505	.014	.016	-12.5	57999	504	.053	.059	-10.2	58301	503	.022	.024	-8.3
57800	501	.037	.042	-11.9	57999	505	.044	.049	-10.2	58301	504	.041	.045	-8.9
57800	503	.048	.056	-14.3	58009	501	.043	.048	-10.4	58301	505	.034	.037	-8.1

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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
58302	501	.017	.019	-10.5	58503	505	.036	.041	-12.2	58737	504	.049	.058	-15.5
58302	503	.022	.025	-12.0	58532	501	.033	.038	-13.2	58737	505	.060	.069	-13.0
58302	504	.019	.022	-13.6	58532	503	.043	.050	-14.0	58756	501	.040	.045	-11.1
58302	505	.023	.026	-11.5	58532	504	.038	.044	-13.6	58756	503	.027	.030	-10.0
58397	501	.096	.110	-12.7	58532	505	.046	.053	-13.2	58756	504	.050	.055	-9.1
58397	503	.126	.146	-13.7	58559	501	.007	.008	-12.5	58756	505	.041	.046	-10.9
58397	504	.109	.128	-14.8	58559	503	.009	.010	-10.0	58757	501	.146	.167	-12.6
58397	505	.133	.153	-13.1	58559	504	.008	.009	-11.1	58757	503	.192	.223	-13.9
58408	501	.035	.037	-5.4	58559	505	.009	.011	-18.2	58757	504	.166	.195	-14.9
58408	503	.062	.065	-4.6	58560	501	.016	.019	-15.8	58757	505	.203	.233	-12.9
58408	504	.031	.032	-3.1	58560	503	.021	.025	-16.0	58759	501	.018	.021	-14.3
58408	505	.041	.043	-4.7	58560	504	.018	.022	-18.2	58759	503	.024	.028	-14.3
58409	501	.044	.047	-6.4	58560	505	.023	.026	-11.5	58759	504	.021	.024	-12.5
58409	503	.079	.083	-4.8	58575	501	.021	.024	-12.5	58759	505	.025	.029	-13.8
58409	504	.039	.041	-4.9	58575	503	.028	.032	-12.5	58802	501	.021	.023	-8.7
58409	505	.052	.055	-5.5	58575	504	.024	.028	-14.3	58802	503	.027	.031	-12.9
58456	501	.024	.025	-4.0	58575	505	.029	.033	-12.1	58802	504	.023	.027	-14.8
58456	503	.042	.044	-4.5	58627	501	.067	.077	-13.0	58802	505	.029	.033	-12.1
58456	504	.021	.022	-4.5	58627	503	.088	.103	-14.6	58813	501	.099	.110	-10.0
58456	505	.028	.029	-3.4	58627	504	.076	.090	-15.6	58813	503	.066	.074	-10.8
58457	501	.034	.036	-5.6	58627	505	.093	.107	-13.1	58813	504	.123	.136	-9.6
58457	503	.061	.064	-4.7	58663	501	.215	.239	-10.0	58813	505	.102	.113	-9.7
58457	504	.030	.031	-3.2	58663	503	.144	.160	-10.0	58822	501	.057	.064	-10.9
58457	505	.040	.042	-4.8	58663	504	.270	.300	-10.0	58822	503	.074	.086	-14.0
58458	501	.044	.047	-6.4	58663	505	.222	.245	-9.4	58822	504	.064	.075	-14.7
58458	503	.079	.083	-4.8	58682	501	.060	.068	-11.8	58822	505	.078	.090	-13.3
58458	504	.039	.041	-4.9	58682	503	.079	.091	-13.2	58837	501	.199	.221	-10.0
58458	505	.052	.055	-5.5	58682	504	.068	.080	-15.0	58837	503	.133	.148	-10.1
58459	501	.053	.056	-5.4	58682	505	.083	.095	-12.6	58837	504	.248	.270	-8.1
58459	503	.094	.100	-6.0	58713	501	.053	.057	-7.0	58837	505	.205	.226	-9.3
58459	504	.047	.049	-4.1	58713	503	.052	.056	-7.1	58840	501	.059	.066	-10.6
58459	505	.063	.066	-4.5	58713	504	.025	.027	-7.4	58840	503	.040	.044	-9.1
58503	501	.026	.029	-10.3	58713	505	.042	.045	-6.7	58840	504	.074	.082	-9.8
58503	503	.034	.039	-12.8	58737	501	.043	.050	-14.0	58840	505	.061	.068	-10.3
58503	504	.029	.034	-14.7	58737	503	.057	.066	-13.6	58873	501	.095	.105	-9.5

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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
58873	503	.063	.070	-10.0	59223	501	.098	.109	-10.1	59647	505	.135	.143	-5.6
58873	504	.118	.130	-9.2	59223	503	.065	.073	-11.0	59660	501	.077	.088	-12.5
58873	505	.098	.108	-9.3	59223	504	.122	.135	-9.6	59660	503	.102	.118	-13.6
58903	501	.013	.015	-13.3	59223	505	.101	.112	-9.8	59660	504	.088	.103	-14.6
58903	503	.017	.020	-15.0	59257	501	.007	.008	-12.5	59660	505	.107	.123	-13.0
58903	504	.015	.017	-11.8	59257	503	.009	.010	-10.0	59661	501	.038	.043	-11.6
58903	505	.018	.021	-14.3	59257	504	.008	.009	-11.1	59661	503	.050	.058	-13.8
58904	501	.010	.011	-9.1	59257	505	.009	.011	-18.2	59661	504	.043	.051	-15.7
58904	503	.013	.015	-13.3	59306	501	.041	.047	-12.8	59661	505	.053	.060	-11.7
58904	504	.011	.013	-15.4	59306	503	.055	.063	-12.7	59693	501	.006	.007	-14.3
58904	505	.014	.016	-12.5	59306	504	.047	.055	-14.5	59693	503	.008	.010	-20.0
58922	501	.158	.175	-9.7	59306	505	.058	.066	-12.1	59693	504	.007	.008	-12.5
58922	503	.105	.117	-10.3	59378	501	.064	.071	-9.9	59693	505	.009	.010	-10.0
58922	504	.197	.217	-9.2	59378	503	.042	.047	-10.6	59701	501	.003	.003	0.0
58922	505	.162	.179	-9.5	59378	504	.079	.088	-10.2	59701	503	.004	.005	-20.0
59005	501	.025	.028	-10.7	59378	505	.066	.072	-8.3	59701	504	.003	.004	-25.0
59005	503	.032	.037	-13.5	59481	501	.112	.127	-11.8	59701	505	.004	.005	-20.0
59005	504	.028	.033	-15.2	59481	503	.147	.170	-13.5	59713	501	.069	.079	-12.7
59005	505	.034	.039	-12.8	59481	504	.127	.149	-14.8	59713	503	.091	.106	-14.2
59057	501	.182	.207	-12.1	59481	505	.155	.177	-12.4	59713	504	.079	.092	-14.1
59057	503	.239	.280	-14.6	59482	501	.380	.410	-7.3	59713	505	.096	.110	-12.7
59057	504	.206	.242	-14.9	59482	503	.370	.400	-7.5	59722	501	.036	.041	-12.2
59057	505	.250	.290	-13.8	59482	504	.181	.192	-5.7	59722	503	.047	.055	-14.5
59058	501	.118	.134	-11.9	59482	505	.300	.320	-6.3	59722	504	.041	.048	-14.6
59058	503	.155	.179	-13.4	59537	501	.069	.076	-9.2	59722	505	.050	.057	-12.3
59058	504	.134	.157	-14.6	59537	503	.046	.051	-9.8	59723	501	.014	.015	-6.7
59058	505	.163	.187	-12.8	59537	504	.086	.095	-9.5	59723	503	.018	.021	-14.3
59188	501	.370	.390	-5.1	59537	505	.071	.078	-9.0	59723	504	.015	.018	-16.7
59188	503	.360	.380	-5.3	59601	501	.042	.048	-12.5	59723	505	.019	.021	-9.5
59188	504	.174	.184	-5.4	59601	503	.055	.064	-14.1	59724	501	.021	.024	-12.5
59188	505	.290	.310	-6.5	59601	504	.048	.056	-14.3	59724	503	.027	.032	-15.6
59189	501	.500	.540	-7.4	59601	505	.058	.067	-13.4	59724	504	.023	.028	-17.9
59189	503	.490	.520	-5.8	59647	501	.170	.182	-6.6	59724	505	.029	.033	-12.1
59189	504	.238	.250	-4.8	59647	503	.167	.178	-6.2	59725	501	.026	.029	-10.3
59189	505	.400	.420	-4.8	59647	504	.081	.086	-5.8	59725	503	.034	.039	-12.8

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LOSS COST % CHANGE BY CLASS

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59725	504	.029	.034	-14.7	59782	503	.044	.049	-10.2	59892	501	.065	.072	-9.7
59725	505	.036	.041	-12.2	59782	504	.083	.091	-8.8	59892	503	.043	.048	-10.4
59726	501	.019	.021	-9.5	59782	505	.068	.075	-9.3	59892	504	.081	.089	-9.0
59726	503	.025	.029	-13.8	59783	501	.065	.072	-9.7	59892	505	.067	.073	-8.2
59726	504	.021	.025	-16.0	59783	503	.043	.048	-10.4	59904	501	.044	.048	-8.3
59726	505	.026	.030	-13.3	59783	504	.081	.089	-9.0	59904	503	.029	.032	-9.4
59738	501	.060	.068	-11.8	59783	505	.067	.073	-8.2	59904	504	.054	.060	-10.0
59738	503	.079	.091	-13.2	59784	501	.049	.055	-10.9	59904	505	.045	.050	-10.0
59738	504	.068	.080	-15.0	59784	503	.033	.037	-10.8	59905	501	.033	.037	-10.8
59738	505	.083	.095	-12.6	59784	504	.062	.068	-8.8	59905	503	.043	.050	-14.0
59750	501	.051	.057	-10.5	59784	505	.051	.056	-8.9	59905	504	.037	.043	-14.0
59750	503	.034	.038	-10.5	59790	501	.046	.053	-13.2	59905	505	.045	.052	-13.5
59750	504	.064	.070	-8.6	59790	503	.061	.070	-12.9	59914	501	.191	.218	-12.4
59750	505	.053	.058	-8.6	59790	504	.052	.062	-16.1	59914	503	.250	.290	-13.8
59751	501	.018	.020	-10.0	59790	505	.064	.073	-12.3	59914	504	.217	.250	-13.2
59751	503	.012	.014	-14.3	59798	501	.168	.187	-10.2	59914	505	.270	.300	-10.0
59751	504	.023	.025	-8.0	59798	503	.112	.125	-10.4	59915	501	.145	.161	-9.9
59751	505	.019	.021	-9.5	59798	504	.210	.232	-9.5	59915	503	.097	.108	-10.2
59773	501	.022	.023	-4.3	59798	505	.174	.192	-9.4	59915	504	.181	.200	-9.5
59773	503	.021	.023	-8.7	59806	501	.121	.134	-9.7	59915	505	.149	.165	-9.7
59773	504	.010	.011	-9.1	59806	503	.081	.090	-10.0	59917	501	.027	.030	-10.0
59773	505	.017	.018	-5.6	59806	504	.151	.166	-9.0	59917	503	.018	.020	-10.0
59774	501	.018	.019	-5.3	59806	505	.124	.137	-9.5	59917	504	.033	.037	-10.8
59774	503	.017	.019	-10.5	59867	501	.052	.059	-11.9	59917	505	.028	.031	-9.7
59774	504	.008	.009	-11.1	59867	503	.068	.079	-13.9	59923	501	.005	.005	0.0
59774	505	.014	.015	-6.7	59867	504	.059	.069	-14.5	59923	503	.006	.007	-14.3
59775	501	.023	.024	-4.2	59867	505	.072	.083	-13.3	59923	504	.005	.006	-16.7
59775	503	.022	.024	-8.3	59886	501	.007	.008	-12.5	59923	505	.007	.007	0.0
59775	504	.011	.012	-8.3	59886	503	.009	.011	-18.2	59925	501	.190	.204	-6.9
59775	505	.018	.019	-5.3	59886	504	.008	.009	-11.1	59925	503	.244	.260	-6.2
59781	501	.044	.049	-10.2	59886	505	.010	.011	-9.1	59925	504	.204	.219	-6.8
59781	503	.030	.033	-9.1	59889	501	.071	.076	-6.6	59925	505	.177	.189	-6.3
59781	504	.055	.061	-9.8	59889	503	.070	.074	-5.4	59926	501	.161	.173	-6.9
59781	505	.046	.051	-9.8	59889	504	.034	.036	-5.6	59926	503	.208	.224	-7.1
59782	501	.066	.074	-10.8	59889	505	.056	.060	-6.7	59926	504	.174	.186	-6.5

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59926	505	.151	.161	-6.2	59970	504	.073	.081	-9.9	60010	503	30.300	30.200	0.3
59927	501	.108	.117	-7.7	59970	505	.060	.067	-10.4	60010	504	21.100	20.500	2.9
59927	503	.140	.151	-7.3	59973	501	.053	.060	-11.7	60010	505	15.100	15.400	-1.9
59927	504	.117	.125	-6.4	59973	503	.070	.081	-13.6	60011	501	32.400	33.000	-1.8
59927	505	.101	.108	-6.5	59973	504	.060	.071	-15.5	60011	503	34.900	34.700	0.6
59931	501	.086	.098	-12.2	59973	505	.073	.084	-13.1	60011	504	24.300	23.600	3.0
59931	503	.113	.131	-13.7	59975	501	.082	.091	-9.9	60011	505	17.400	17.700	-1.7
59931	504	.098	.115	-14.8	59975	503	.055	.061	-9.8	60012	501	53.200	54.300	-2.0
59931	505	.119	.137	-13.1	59975	504	.102	.113	-9.7	60012	503	57.300	57.100	0.4
59932	501	.093	.105	-11.4	59975	505	.085	.093	-8.6	60012	504	40.000	38.700	3.4
59932	503	.122	.141	-13.5	59977	501	.047	.052	-9.6	60012	505	28.500	29.000	-1.7
59932	504	.105	.123	-14.6	59977	503	.031	.035	-11.4	60013	501	45.600	46.500	-1.9
59932	505	.128	.147	-12.9	59977	504	.059	.065	-9.2	60013	503	49.100	48.900	0.4
59941	501	.029	.033	-12.1	59977	505	.048	.053	-9.4	60013	504	34.200	33.200	3.0
59941	503	.038	.044	-13.6	59984	501	.014	.017	-17.6	60013	505	24.500	24.900	-1.6
59941	504	.033	.038	-13.2	59984	503	.019	.022	-13.6	60015	501	34.100	34.800	-2.0
59941	505	.040	.046	-13.0	59984	504	.016	.019	-15.8	60015	503	36.700	36.500	0.5
59947	501	.044	.048	-8.3	59984	505	.020	.023	-13.0	60015	504	25.600	24.800	3.2
59947	503	.029	.032	-9.4	59985	501	.057	.065	-12.3	60015	505	18.300	18.600	-1.6
59947	504	.054	.060	-10.0	59985	503	.074	.086	-14.0	60016	501	38.300	39.100	-2.0
59947	505	.045	.050	-10.0	59985	504	.064	.076	-15.8	60016	503	41.300	41.100	0.5
59955	501	.011	.013	-15.4	59985	505	.079	.090	-12.2	60016	504	28.800	27.900	3.2
59955	503	.014	.017	-17.6	59986	501	.043	.049	-12.2	60016	505	20.500	20.900	-1.9
59955	504	.013	.015	-13.3	59986	503	.057	.066	-13.6	60035	501	34.600	34.100	1.5
59955	505	.015	.018	-16.7	59986	504	.049	.058	-15.5	60035	503	23.600	22.700	4.0
59963	501	.082	.094	-12.8	59986	505	.060	.069	-13.0	60035	504	19.500	18.300	6.6
59963	503	.108	.125	-13.6	59988	501	.021	.023	-8.7	60035	505	14.500	14.300	1.4
59963	504	.093	.109	-14.7	59988	503	.014	.016	-12.5	61000	501	27.900	28.400	-1.8
59963	505	.114	.130	-12.3	59988	504	.026	.029	-10.3	61000	503	30.000	29.900	0.3
59964	501	.192	.219	-12.3	59988	505	.022	.024	-8.3	61000	504	20.900	20.300	3.0
59964	503	.250	.290	-13.8	59989	501	.008	.009	-11.1	61000	505	15.000	15.200	-1.3
59964	504	.218	.260	-16.2	59989	503	.010	.012	-16.7	61212	501	18.600	18.300	1.6
59964	505	.270	.310	-12.9	59989	504	.009	.010	-10.0	61212	503	12.700	12.200	4.1
59970	501	.059	.065	-9.2	59989	505	.011	.012	-8.3	61212	504	10.500	9.830	6.8
59970	503	.039	.044	-11.4	60010	501	28.200	28.700	-1.7	61212	505	7.790	7.680	1.4

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61216	501	20.600	20.400	1.0	62000	505	5.920	5.840	1.4	63216	504	19.700	18.500	6.5
61216	503	14.100	13.500	4.4	62001	501	10.600	10.500	1.0	63216	505	14.600	14.400	1.4
61216	504	11.600	10.900	6.4	62001	503	7.220	6.950	3.9	63217	501	31.100	28.000	11.1
61216	505	8.650	8.530	1.4	62001	504	5.970	5.600	6.6	63217	503	51.800	45.500	13.8
61217	501	18.800	18.500	1.6	62001	505	4.440	4.380	1.4	63217	504	31.000	26.600	16.5
61217	503	12.800	12.300	4.1	62002	501	4.830	4.770	1.3	63217	505	21.900	19.700	11.2
61217	504	10.600	9.920	6.9	62002	503	3.290	3.170	3.8	63218	501	10.500	9.430	11.3
61217	505	7.870	7.760	1.4	62002	504	2.720	2.550	6.7	63218	503	17.400	15.300	13.7
61218	501	12.800	12.700	0.8	62002	505	2.030	2.000	1.5	63218	504	10.500	8.960	17.2
61218	503	8.740	8.410	3.9	62003	501	15.200	15.000	1.3	63218	505	7.360	6.630	11.0
61218	504	7.220	6.780	6.5	62003	503	10.400	10.000	4.0	64074	501	14.100	14.400	-2.1
61218	505	5.380	5.300	1.5	62003	504	8.590	8.060	6.6	64074	503	22.500	22.400	0.4
61223	501	86.600	85.500	1.3	62003	505	6.390	6.300	1.4	64074	504	11.400	11.000	3.6
61223	503	59.000	56.800	3.9	63010	501	50.700	51.700	-1.9	64074	505	10.300	10.600	-2.8
61223	504	48.800	45.800	6.6	63010	503	54.600	54.300	0.6	64075	501	9.960	10.100	-1.4
61223	505	36.300	35.800	1.4	63010	504	38.100	36.900	3.3	64075	503	15.800	15.800	0.0
61224	501	30.700	30.300	1.3	63010	505	27.200	27.700	-1.8	64075	504	8.000	7.760	3.1
61224	503	20.900	20.100	4.0	63011	501	63.400	64.600	-1.9	64075	505	7.280	7.430	-2.0
61224	504	17.300	16.200	6.8	63011	503	68.200	67.900	0.4	65007	501	30.700	30.300	1.3
61224	505	12.900	12.700	1.6	63011	504	47.600	46.100	3.3	65007	503	20.900	20.100	4.0
61225	501	42.600	42.000	1.4	63011	505	34.000	34.600	-1.7	65007	504	17.300	16.200	6.8
61225	503	29.000	27.900	3.9	63012	501	90.100	91.900	-2.0	65007	505	12.900	12.700	1.6
61225	504	24.000	22.500	6.7	63012	503	97.100	96.600	0.5	66122	501	13.200	13.000	1.5
61225	505	17.800	17.600	1.1	63012	504	67.600	65.600	3.0	66122	503	8.990	8.660	3.8
61226	501	67.900	67.000	1.3	63012	505	48.300	49.200	-1.8	66122	504	7.430	6.980	6.4
61226	503	46.200	44.500	3.8	63013	501	85.400	87.000	-1.8	66122	505	5.530	5.450	1.5
61226	504	38.200	35.900	6.4	63013	503	91.900	91.500	0.4	66123	501	7.250	7.150	1.4
61226	505	28.400	28.000	1.4	63013	504	64.100	62.100	3.2	66123	503	4.940	4.760	3.8
61227	501	62.100	61.300	1.3	63013	505	45.800	46.500	-1.5	66123	504	4.080	3.830	6.5
61227	503	42.300	40.700	3.9	63215	501	50.400	49.700	1.4	66123	505	3.040	3.000	1.3
61227	504	35.000	32.800	6.7	63215	503	34.300	33.000	3.9	66309	501	21.200	20.900	1.4
61227	505	26.000	25.700	1.2	63215	504	28.400	26.600	6.8	66309	503	14.400	13.900	3.6
62000	501	14.100	13.900	1.4	63215	505	21.100	20.800	1.4	66309	504	11.900	11.200	6.2
62000	503	9.620	9.270	3.8	63216	501	35.000	34.500	1.4	66309	505	8.880	8.760	1.4
62000	504	7.960	7.470	6.6	63216	503	23.800	22.900	3.9	66561	501	49.100	48.400	1.4

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66561	503	33.400	32.200	3.7	67635	501	27.900	27.500	1.5	68703	505	1.640	1.610	1.9
66561	504	27.600	25.900	6.6	67635	503	19.000	18.300	3.8	68706	501	16.700	16.500	1.2
66561	505	20.600	20.300	1.5	67635	504	15.700	14.700	6.8	68706	503	11.400	11.000	3.6
67017	501	45.600	44.900	1.6	67635	505	11.700	11.500	1.7	68706	504	9.420	8.840	6.6
67017	503	31.000	29.900	3.7	68001	501	85.200	84.000	1.4	68706	505	7.010	6.910	1.4
67017	504	25.700	24.100	6.6	68001	503	58.000	55.900	3.8	68707	501	16.500	16.300	1.2
67017	505	19.100	18.800	1.6	68001	504	48.000	45.000	6.7	68707	503	11.300	10.900	3.7
67508	501	29.700	29.200	1.7	68001	505	35.700	35.200	1.4	68707	504	9.320	8.740	6.6
67508	503	17.700	17.000	4.1	68439	501	110.000	108.000	1.9	68707	505	6.930	6.840	1.3
67508	504	18.500	17.300	6.9	68439	503	74.600	71.800	3.9	90089	501	4.280	4.610	-7.2
67508	505	12.900	12.700	1.6	68439	504	61.700	57.900	6.6	90089	503	4.280	4.610	-7.2
67509	501	21.800	21.400	1.9	68439	505	45.900	45.200	1.5	90089	504	4.280	4.610	-7.2
67509	503	12.900	12.400	4.0	68500	501	6.200	6.320	-1.9	90089	505	4.280	4.610	-7.2
67509	504	13.500	12.700	6.3	68500	503	6.670	6.640	0.5	91111	501	2.270	2.400	-5.4
67509	505	9.460	9.290	1.8	68500	504	4.650	4.510	3.1	91111	503	2.270	2.400	-5.4
67510	501	12.100	11.900	1.7	68500	505	3.320	3.380	-1.8	91111	504	2.270	2.400	-5.4
67510	503	7.210	6.930	4.0	68604	501	2.050	2.020	1.5	91111	505	2.270	2.400	-5.4
67510	504	7.540	7.060	6.8	68604	503	1.390	1.340	3.7	91125	501	2.580	2.780	-7.2
67510	505	5.270	5.170	1.9	68604	504	1.150	1.080	6.5	91125	503	2.580	2.780	-7.2
67511	501	13.100	12.900	1.6	68604	505	.860	.840	2.4	91125	504	2.580	2.780	-7.2
67511	503	7.800	7.500	4.0	68606	501	8.000	7.890	1.4	91125	505	2.580	2.780	-7.2
67511	504	8.160	7.630	6.9	68606	503	5.440	5.240	3.8	91127	501	1.530	1.620	-5.6
67511	505	5.700	5.590	2.0	68606	504	4.500	4.220	6.6	91127	503	1.530	1.620	-5.6
67512	501	56.200	55.200	1.8	68606	505	3.350	3.300	1.5	91127	504	1.530	1.620	-5.6
67512	503	33.400	32.100	4.0	68607	501	6.320	6.240	1.3	91127	505	1.530	1.620	-5.6
67512	504	34.900	32.700	6.7	68607	503	4.300	4.150	3.6	91130	501	1.200	1.340	-10.4
67512	505	24.400	24.000	1.7	68607	504	3.560	3.340	6.6	91130	503	1.200	1.340	-10.4
67513	501	35.600	35.000	1.7	68607	505	2.650	2.610	1.5	91130	504	1.200	1.340	-10.4
67513	503	21.200	20.400	3.9	68702	501	5.210	5.140	1.4	91130	505	1.200	1.340	-10.4
67513	504	22.200	20.700	7.2	68702	503	3.550	3.410	4.1	91135	501	.330	.370	-10.8
67513	505	15.500	15.200	2.0	68702	504	2.930	2.750	6.5	91135	503	.330	.370	-10.8
67634	501	39.400	38.900	1.3	68702	505	2.180	2.150	1.4	91135	504	.330	.370	-10.8
67634	503	26.800	25.900	3.5	68703	501	3.900	3.850	1.3	91135	505	.330	.370	-10.8
67634	504	22.200	20.800	6.7	68703	503	2.660	2.560	3.9	91150	501	1.440	1.530	-5.9
67634	505	16.500	16.300	1.2	68703	504	2.200	2.060	6.8	91150	503	1.440	1.530	-5.9

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STATE: 21 - MICHIGAN  
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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
91150	504	1.440	1.530	-5.9	91250	503	2.650	2.810	-5.7	91343	501	.990	1.060	-6.6
91150	505	1.440	1.530	-5.9	91250	504	2.650	2.810	-5.7	91343	503	.990	1.060	-6.6
91155	501	3.210	3.390	-5.3	91250	505	2.650	2.810	-5.7	91343	504	.990	1.060	-6.6
91155	503	3.210	3.390	-5.3	91265	501	14.600	16.300	-10.4	91343	505	.990	1.060	-6.6
91155	504	3.210	3.390	-5.3	91265	503	14.600	16.300	-10.4	91405	501	5.760	6.080	-5.3
91155	505	3.210	3.390	-5.3	91265	504	14.600	16.300	-10.4	91405	503	5.760	6.080	-5.3
91160	501	1.040	1.110	-6.3	91265	505	14.600	16.300	-10.4	91405	504	5.760	6.080	-5.3
91160	503	1.040	1.110	-6.3	91266	501	7.730	8.650	-10.6	91405	505	5.760	6.080	-5.3
91160	504	1.040	1.110	-6.3	91266	503	7.730	8.650	-10.6	91436	501	5.060	5.450	-7.2
91160	505	1.040	1.110	-6.3	91266	504	7.730	8.650	-10.6	91436	503	5.060	5.450	-7.2
91175	501	.890	.960	-7.3	91266	505	7.730	8.650	-10.6	91436	504	5.060	5.450	-7.2
91175	503	.890	.960	-7.3	91302	501	11.200	11.800	-5.1	91436	505	5.060	5.450	-7.2
91175	504	.890	.960	-7.3	91302	503	11.200	11.800	-5.1	91481	501	18.500	19.900	-7.0
91175	505	.890	.960	-7.3	91302	504	11.200	11.800	-5.1	91481	503	18.500	19.900	-7.0
91177	501	3.900	4.200	-7.1	91302	505	11.200	11.800	-5.1	91481	504	18.500	19.900	-7.0
91177	503	3.900	4.200	-7.1	91315	501	3.400	3.590	-5.3	91481	505	18.500	19.900	-7.0
91177	504	3.900	4.200	-7.1	91315	503	3.400	3.590	-5.3	91507	501	2.720	2.930	-7.2
91177	505	3.900	4.200	-7.1	91315	504	3.400	3.590	-5.3	91507	503	2.720	2.930	-7.2
91179	501	3.920	4.210	-6.9	91315	505	3.400	3.590	-5.3	91507	504	2.720	2.930	-7.2
91179	503	3.920	4.210	-6.9	91324	501	7.570	8.000	-5.4	91507	505	2.720	2.930	-7.2
91179	504	3.920	4.210	-6.9	91324	503	7.570	8.000	-5.4	91523	501	42.000	45.200	-7.1
91179	505	3.920	4.210	-6.9	91324	504	7.570	8.000	-5.4	91523	503	42.000	45.200	-7.1
91190	501	2.100	2.260	-7.1	91324	505	7.570	8.000	-5.4	91523	504	42.000	45.200	-7.1
91190	503	2.100	2.260	-7.1	91340	501	4.940	5.220	-5.4	91523	505	42.000	45.200	-7.1
91190	504	2.100	2.260	-7.1	91340	503	4.940	5.220	-5.4	91547	501	.239	.260	-8.1
91190	505	2.100	2.260	-7.1	91340	504	4.940	5.220	-5.4	91547	503	.239	.260	-8.1
91200	501	.680	.760	-10.5	91340	505	4.940	5.220	-5.4	91547	504	.239	.260	-8.1
91200	503	.680	.760	-10.5	91341	501	4.480	4.810	-6.9	91547	505	.239	.260	-8.1
91200	504	.680	.760	-10.5	91341	503	4.480	4.810	-6.9	91551	501	1.480	1.590	-6.9
91200	505	.680	.760	-10.5	91341	504	4.480	4.810	-6.9	91551	503	1.480	1.590	-6.9
91235	501	1.760	1.860	-5.4	91341	505	4.480	4.810	-6.9	91551	504	1.480	1.590	-6.9
91235	503	1.760	1.860	-5.4	91342	501	4.530	4.790	-5.4	91551	505	1.480	1.590	-6.9
91235	504	1.760	1.860	-5.4	91342	503	4.530	4.790	-5.4	91555	501	1.060	1.120	-5.4
91235	505	1.760	1.860	-5.4	91342	504	4.530	4.790	-5.4	91555	503	1.060	1.120	-5.4
91250	501	2.650	2.810	-5.7	91342	505	4.530	4.790	-5.4	91555	504	1.060	1.120	-5.4

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STATE: 21 - MICHIGAN  
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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
91555	505	1.060	1.120	-5.4	91641	504	1.110	1.240	-10.5	92102	503	4.600	4.950	-7.1
91560	501	4.270	4.780	-10.7	91641	505	1.110	1.240	-10.5	92102	504	4.600	4.950	-7.1
91560	503	4.270	4.780	-10.7	91666	501	.920	.990	-7.1	92102	505	4.600	4.950	-7.1
91560	504	4.270	4.780	-10.7	91666	503	.920	.990	-7.1	92215	501	2.530	2.670	-5.2
91560	505	4.270	4.780	-10.7	91666	504	.920	.990	-7.1	92215	503	2.530	2.670	-5.2
91562	501	3.300	3.550	-7.0	91666	505	.920	.990	-7.1	92215	504	2.530	2.670	-5.2
91562	503	3.300	3.550	-7.0	91722	501	3.590	4.010	-10.5	92215	505	2.530	2.670	-5.2
91562	504	3.300	3.550	-7.0	91722	503	3.590	4.010	-10.5	92338	501	1.770	1.900	-6.8
91562	505	3.300	3.550	-7.0	91722	504	3.590	4.010	-10.5	92338	503	1.770	1.900	-6.8
91577	501	11.800	12.700	-7.1	91722	505	3.590	4.010	-10.5	92338	504	1.770	1.900	-6.8
91577	503	11.800	12.700	-7.1	91746	501	3.300	3.550	-7.0	92338	505	1.770	1.900	-6.8
91577	504	11.800	12.700	-7.1	91746	503	3.300	3.550	-7.0	92445	501	2.350	2.630	-10.6
91577	505	11.800	12.700	-7.1	91746	504	3.300	3.550	-7.0	92445	503	2.350	2.630	-10.6
91580	501	5.640	6.310	-10.6	91746	505	3.300	3.550	-7.0	92445	504	2.350	2.630	-10.6
91580	503	5.640	6.310	-10.6	91805	501	.207	.223	-7.2	92445	505	2.350	2.630	-10.6
91580	504	5.640	6.310	-10.6	91805	503	.207	.223	-7.2	92446	501	5.810	6.250	-7.0
91580	505	5.640	6.310	-10.6	91805	504	.207	.223	-7.2	92446	503	5.810	6.250	-7.0
91590	501	3.420	3.680	-7.1	91805	505	.207	.223	-7.2	92446	504	5.810	6.250	-7.0
91590	503	3.420	3.680	-7.1	92053	501	.510	.550	-7.3	92446	505	5.810	6.250	-7.0
91590	504	3.420	3.680	-7.1	92053	503	.510	.550	-7.3	92447	501	5.080	5.470	-7.1
91590	505	3.420	3.680	-7.1	92053	504	.510	.550	-7.3	92447	503	5.080	5.470	-7.1
91606	501	11.700	13.100	-10.7	92053	505	.510	.550	-7.3	92447	504	5.080	5.470	-7.1
91606	503	11.700	13.100	-10.7	92054	501	.175	.188	-6.9	92447	505	5.080	5.470	-7.1
91606	504	11.700	13.100	-10.7	92054	503	.175	.188	-6.9	92451	501	1.760	1.860	-5.4
91606	505	11.700	13.100	-10.7	92054	504	.175	.188	-6.9	92451	503	1.760	1.860	-5.4
91629	501	2.390	2.680	-10.8	92054	505	.175	.188	-6.9	92451	504	1.760	1.860	-5.4
91629	503	2.390	2.680	-10.8	92055	501	4.890	5.260	-7.0	92451	505	1.760	1.860	-5.4
91629	504	2.390	2.680	-10.8	92055	503	4.890	5.260	-7.0	92453	501	3.220	3.460	-6.9
91629	505	2.390	2.680	-10.8	92055	504	4.890	5.260	-7.0	92453	503	3.220	3.460	-6.9
91636	501	4.100	4.590	-10.7	92055	505	4.890	5.260	-7.0	92453	504	3.220	3.460	-6.9
91636	503	4.100	4.590	-10.7	92101	501	7.640	8.220	-7.1	92453	505	3.220	3.460	-6.9
91636	504	4.100	4.590	-10.7	92101	503	7.640	8.220	-7.1	92478	501	1.590	1.710	-7.0
91636	505	4.100	4.590	-10.7	92101	504	7.640	8.220	-7.1	92478	503	1.590	1.710	-7.0
91641	501	1.110	1.240	-10.5	92101	505	7.640	8.220	-7.1	92478	504	1.590	1.710	-7.0
91641	503	1.110	1.240	-10.5	92102	501	4.600	4.950	-7.1	92478	505	1.590	1.710	-7.0

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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	23.100	24.500	-5.7	94404	505	4.320	4.640	-6.9	95357	504	1.200	1.340	-10.4
92593	503	23.100	24.500	-5.7	94569	501	2.910	3.140	-7.3	95357	505	1.200	1.340	-10.4
92593	504	23.100	24.500	-5.7	94569	503	2.910	3.140	-7.3	95410	501	4.400	4.730	-7.0
92593	505	23.100	24.500	-5.7	94569	504	2.910	3.140	-7.3	95410	503	4.400	4.730	-7.0
92663	501	.560	.620	-9.7	94569	505	2.910	3.140	-7.3	95410	504	4.400	4.730	-7.0
92663	503	.560	.620	-9.7	94590	501	12.600	13.500	-6.7	95410	505	4.400	4.730	-7.0
92663	504	.560	.620	-9.7	94590	503	12.600	13.500	-6.7	95455	501	4.960	5.540	-10.5
92663	505	.560	.620	-9.7	94590	504	12.600	13.500	-6.7	95455	503	4.960	5.540	-10.5
94007	501	10.900	11.700	-6.8	94590	505	12.600	13.500	-6.7	95455	504	4.960	5.540	-10.5
94007	503	10.900	11.700	-6.8	94617	501	3.970	4.270	-7.0	95455	505	4.960	5.540	-10.5
94007	504	10.900	11.700	-6.8	94617	503	3.970	4.270	-7.0	95487	501	2.360	2.540	-7.1
94007	505	10.900	11.700	-6.8	94617	504	3.970	4.270	-7.0	95487	503	2.360	2.540	-7.1
94099	501	2.480	2.670	-7.1	94617	505	3.970	4.270	-7.0	95487	504	2.360	2.540	-7.1
94099	503	2.480	2.670	-7.1	95124	501	1.470	1.580	-7.0	95487	505	2.360	2.540	-7.1
94099	504	2.480	2.670	-7.1	95124	503	1.470	1.580	-7.0	95505	501	2.310	2.580	-10.5
94099	505	2.480	2.670	-7.1	95124	504	1.470	1.580	-7.0	95505	503	2.310	2.580	-10.5
94225	501	8.740	9.410	-7.1	95124	505	1.470	1.580	-7.0	95505	504	2.310	2.580	-10.5
94225	503	8.740	9.410	-7.1	95233	501	3.140	3.380	-7.1	95505	505	2.310	2.580	-10.5
94225	504	8.740	9.410	-7.1	95233	503	3.140	3.380	-7.1	95620	501	1.910	2.060	-7.3
94225	505	8.740	9.410	-7.1	95233	504	3.140	3.380	-7.1	95620	503	1.910	2.060	-7.3
94276	501	4.550	4.900	-7.1	95233	505	3.140	3.380	-7.1	95620	504	1.910	2.060	-7.3
94276	503	4.550	4.900	-7.1	95305	501	3.410	3.670	-7.1	95620	505	1.910	2.060	-7.3
94276	504	4.550	4.900	-7.1	95305	503	3.410	3.670	-7.1	95625	501	5.350	5.650	-5.3
94276	505	4.550	4.900	-7.1	95305	504	3.410	3.670	-7.1	95625	503	5.350	5.650	-5.3
94304	501	2.250	2.380	-5.5	95305	505	3.410	3.670	-7.1	95625	504	5.350	5.650	-5.3
94304	503	2.250	2.380	-5.5	95306	501	4.700	5.260	-10.6	95625	505	5.350	5.650	-5.3
94304	504	2.250	2.380	-5.5	95306	503	4.700	5.260	-10.6	95647	501	2.120	2.250	-5.8
94304	505	2.250	2.380	-5.5	95306	504	4.700	5.260	-10.6	95647	503	2.120	2.250	-5.8
94381	501	4.230	4.470	-5.4	95306	505	4.700	5.260	-10.6	95647	504	2.120	2.250	-5.8
94381	503	4.230	4.470	-5.4	95310	501	8.140	8.760	-7.1	95647	505	2.120	2.250	-5.8
94381	504	4.230	4.470	-5.4	95310	503	8.140	8.760	-7.1	96053	501	1.610	1.710	-5.8
94381	505	4.230	4.470	-5.4	95310	504	8.140	8.760	-7.1	96053	503	1.610	1.710	-5.8
94404	501	4.320	4.640	-6.9	95310	505	8.140	8.760	-7.1	96053	504	1.610	1.710	-5.8
94404	503	4.320	4.640	-6.9	95357	501	1.200	1.340	-10.4	96053	505	1.610	1.710	-5.8
94404	504	4.320	4.640	-6.9	95357	503	1.200	1.340	-10.4	96317	501	1.240	1.390	-10.8

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 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
96317	503	1.240	1.390	-10.8	97050	501	2.670	2.830	-5.7	97651	505	5.810	6.500	-10.6
96317	504	1.240	1.390	-10.8	97050	503	2.670	2.830	-5.7	97652	501	5.040	5.640	-10.6
96317	505	1.240	1.390	-10.8	97050	504	2.670	2.830	-5.7	97652	503	5.040	5.640	-10.6
96408	501	3.810	4.090	-6.8	97050	505	2.670	2.830	-5.7	97652	504	5.040	5.640	-10.6
96408	503	3.810	4.090	-6.8	97111	501	5.260	5.650	-6.9	97652	505	5.040	5.640	-10.6
96408	504	3.810	4.090	-6.8	97111	503	5.260	5.650	-6.9	97653	501	3.110	3.340	-6.9
96408	505	3.810	4.090	-6.8	97111	504	5.260	5.650	-6.9	97653	503	3.110	3.340	-6.9
96409	501	3.520	3.790	-7.1	97111	505	5.260	5.650	-6.9	97653	504	3.110	3.340	-6.9
96409	503	3.520	3.790	-7.1	97220	501	.320	.360	-11.1	97653	505	3.110	3.340	-6.9
96409	504	3.520	3.790	-7.1	97220	503	.320	.360	-11.1	97654	501	5.410	5.830	-7.2
96409	505	3.520	3.790	-7.1	97220	504	.320	.360	-11.1	97654	503	5.410	5.830	-7.2
96410	501	3.090	3.320	-6.9	97220	505	.320	.360	-11.1	97654	504	5.410	5.830	-7.2
96410	503	3.090	3.320	-6.9	97222	501	1.170	1.240	-5.6	97654	505	5.410	5.830	-7.2
96410	504	3.090	3.320	-6.9	97222	503	1.170	1.240	-5.6	97655	501	4.490	5.020	-10.6
96410	505	3.090	3.320	-6.9	97222	504	1.170	1.240	-5.6	97655	503	4.490	5.020	-10.6
96611	501	1.130	1.200	-5.8	97222	505	1.170	1.240	-5.6	97655	504	4.490	5.020	-10.6
96611	503	1.130	1.200	-5.8	97223	501	1.760	1.860	-5.4	97655	505	4.490	5.020	-10.6
96611	504	1.130	1.200	-5.8	97223	503	1.760	1.860	-5.4	98002	501	.810	.910	-11.0
96611	505	1.130	1.200	-5.8	97223	504	1.760	1.860	-5.4	98002	503	.810	.910	-11.0
96702	501	4.380	4.710	-7.0	97223	505	1.760	1.860	-5.4	98002	504	.810	.910	-11.0
96702	503	4.380	4.710	-7.0	97308	501	.600	.670	-10.4	98002	505	.810	.910	-11.0
96702	504	4.380	4.710	-7.0	97308	503	.600	.670	-10.4	98003	501	.970	1.050	-7.6
96702	505	4.380	4.710	-7.0	97308	504	.600	.670	-10.4	98003	503	.970	1.050	-7.6
96816	501	4.110	4.420	-7.0	97308	505	.600	.670	-10.4	98003	504	.970	1.050	-7.6
96816	503	4.110	4.420	-7.0	97447	501	1.970	2.200	-10.5	98003	505	.970	1.050	-7.6
96816	504	4.110	4.420	-7.0	97447	503	1.970	2.200	-10.5	98090	501	.131	.140	-6.4
96816	505	4.110	4.420	-7.0	97447	504	1.970	2.200	-10.5	98090	503	.131	.140	-6.4
96872	501	4.400	4.920	-10.6	97447	505	1.970	2.200	-10.5	98090	504	.131	.140	-6.4
96872	503	4.400	4.920	-10.6	97650	501	3.630	3.910	-7.2	98090	505	.131	.140	-6.4
96872	504	4.400	4.920	-10.6	97650	503	3.630	3.910	-7.2	98091	501	.142	.152	-6.6
96872	505	4.400	4.920	-10.6	97650	504	3.630	3.910	-7.2	98091	503	.142	.152	-6.6
97047	501	3.440	3.640	-5.5	97650	505	3.630	3.910	-7.2	98091	504	.142	.152	-6.6
97047	503	3.440	3.640	-5.5	97651	501	5.810	6.500	-10.6	98091	505	.142	.152	-6.6
97047	504	3.440	3.640	-5.5	97651	503	5.810	6.500	-10.6	98092	501	.430	.460	-6.5
97047	505	3.440	3.640	-5.5	97651	504	5.810	6.500	-10.6	98092	503	.430	.460	-6.5

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STATE: 21 - MICHIGAN  
 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
98092	504	.430	.460	-6.5	98161	503	5.170	5.780	-10.6	98308	501	1.130	1.220	-7.4
98092	505	.430	.460	-6.5	98161	504	5.170	5.780	-10.6	98308	503	1.130	1.220	-7.4
98111	501	.450	.470	-4.3	98161	505	5.170	5.780	-10.6	98308	504	1.130	1.220	-7.4
98111	503	.450	.470	-4.3	98163	501	5.430	6.070	-10.5	98308	505	1.130	1.220	-7.4
98111	504	.450	.470	-4.3	98163	503	5.430	6.070	-10.5	98309	501	5.130	5.730	-10.5
98111	505	.450	.470	-4.3	98163	504	5.430	6.070	-10.5	98309	503	5.130	5.730	-10.5
98152	501	2.730	3.060	-10.8	98163	505	5.430	6.070	-10.5	98309	504	5.130	5.730	-10.5
98152	503	2.730	3.060	-10.8	98164	501	1.490	1.570	-5.1	98309	505	5.130	5.730	-10.5
98152	504	2.730	3.060	-10.8	98164	503	1.490	1.570	-5.1	98344	501	.770	.810	-4.9
98152	505	2.730	3.060	-10.8	98164	504	1.490	1.570	-5.1	98344	503	.770	.810	-4.9
98153	501	3.080	3.440	-10.5	98164	505	1.490	1.570	-5.1	98344	504	.770	.810	-4.9
98153	503	3.080	3.440	-10.5	98257	501	1.470	1.580	-7.0	98344	505	.770	.810	-4.9
98153	504	3.080	3.440	-10.5	98257	503	1.470	1.580	-7.0	98405	501	1.270	1.340	-5.2
98153	505	3.080	3.440	-10.5	98257	504	1.470	1.580	-7.0	98405	503	1.270	1.340	-5.2
98154	501	3.630	4.060	-10.6	98257	505	1.470	1.580	-7.0	98405	504	1.270	1.340	-5.2
98154	503	3.630	4.060	-10.6	98303	501	10.200	11.400	-10.5	98405	505	1.270	1.340	-5.2
98154	504	3.630	4.060	-10.6	98303	503	10.200	11.400	-10.5	98413	501	14.300	15.400	-7.1
98154	505	3.630	4.060	-10.6	98303	504	10.200	11.400	-10.5	98413	503	14.300	15.400	-7.1
98155	501	5.090	5.690	-10.5	98303	505	10.200	11.400	-10.5	98413	504	14.300	15.400	-7.1
98155	503	5.090	5.690	-10.5	98304	501	5.430	5.840	-7.0	98413	505	14.300	15.400	-7.1
98155	504	5.090	5.690	-10.5	98304	503	5.430	5.840	-7.0	98414	501	13.100	14.100	-7.1
98155	505	5.090	5.690	-10.5	98304	504	5.430	5.840	-7.0	98414	503	13.100	14.100	-7.1
98157	501	3.250	3.630	-10.5	98304	505	5.430	5.840	-7.0	98414	504	13.100	14.100	-7.1
98157	503	3.250	3.630	-10.5	98305	501	2.760	2.920	-5.5	98414	505	13.100	14.100	-7.1
98157	504	3.250	3.630	-10.5	98305	503	2.760	2.920	-5.5	98415	501	1.720	1.850	-7.0
98157	505	3.250	3.630	-10.5	98305	504	2.760	2.920	-5.5	98415	503	1.720	1.850	-7.0
98159	501	2.180	2.440	-10.7	98305	505	2.760	2.920	-5.5	98415	504	1.720	1.850	-7.0
98159	503	2.180	2.440	-10.7	98306	501	7.120	7.520	-5.3	98415	505	1.720	1.850	-7.0
98159	504	2.180	2.440	-10.7	98306	503	7.120	7.520	-5.3	98423	501	4.090	4.400	-7.0
98159	505	2.180	2.440	-10.7	98306	504	7.120	7.520	-5.3	98423	503	4.090	4.400	-7.0
98160	501	4.620	5.160	-10.5	98306	505	7.120	7.520	-5.3	98423	504	4.090	4.400	-7.0
98160	503	4.620	5.160	-10.5	98307	501	1.720	1.850	-7.0	98423	505	4.090	4.400	-7.0
98160	504	4.620	5.160	-10.5	98307	503	1.720	1.850	-7.0	98424	501	6.940	7.470	-7.1
98160	505	4.620	5.160	-10.5	98307	504	1.720	1.850	-7.0	98424	503	6.940	7.470	-7.1
98161	501	5.170	5.780	-10.6	98307	505	1.720	1.850	-7.0	98424	504	6.940	7.470	-7.1

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STATE: 21 - MICHIGAN  
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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
98424	505	6.940	7.470	-7.1	98555	504	2.480	2.670	-7.1	98677	503	17.400	18.700	-7.0
98425	501	2.850	3.070	-7.2	98555	505	2.480	2.670	-7.1	98677	504	17.400	18.700	-7.0
98425	503	2.850	3.070	-7.2	98597	501	.560	.600	-6.7	98677	505	17.400	18.700	-7.0
98425	504	2.850	3.070	-7.2	98597	503	.560	.600	-6.7	98678	501	15.400	16.600	-7.2
98425	505	2.850	3.070	-7.2	98597	504	.560	.600	-6.7	98678	503	15.400	16.600	-7.2
98426	501	2.520	2.710	-7.0	98597	505	.560	.600	-6.7	98678	504	15.400	16.600	-7.2
98426	503	2.520	2.710	-7.0	98598	501	.191	.206	-7.3	98678	505	15.400	16.600	-7.2
98426	504	2.520	2.710	-7.0	98598	503	.191	.206	-7.3	98699	501	5.020	5.400	-7.0
98426	505	2.520	2.710	-7.0	98598	504	.191	.206	-7.3	98699	503	5.020	5.400	-7.0
98427	501	2.450	2.640	-7.2	98598	505	.191	.206	-7.3	98699	504	5.020	5.400	-7.0
98427	503	2.450	2.640	-7.2	98601	501	6.390	6.870	-7.0	98699	505	5.020	5.400	-7.0
98427	504	2.450	2.640	-7.2	98601	503	6.390	6.870	-7.0	98705	501	7.440	8.320	-10.6
98427	505	2.450	2.640	-7.2	98601	504	6.390	6.870	-7.0	98705	503	7.440	8.320	-10.6
98429	501	1.070	1.190	-10.1	98601	505	6.390	6.870	-7.0	98705	504	7.440	8.320	-10.6
98429	503	1.070	1.190	-10.1	98624	501	1.000	1.080	-7.4	98705	505	7.440	8.320	-10.6
98429	504	1.070	1.190	-10.1	98624	503	1.000	1.080	-7.4	98710	501	3.490	3.750	-6.9
98429	505	1.070	1.190	-10.1	98624	504	1.000	1.080	-7.4	98710	503	3.490	3.750	-6.9
98449	501	3.520	3.790	-7.1	98624	505	1.000	1.080	-7.4	98710	504	3.490	3.750	-6.9
98449	503	3.520	3.790	-7.1	98636	501	2.170	2.290	-5.2	98710	505	3.490	3.750	-6.9
98449	504	3.520	3.790	-7.1	98636	503	2.170	2.290	-5.2	98751	501	3.970	4.440	-10.6
98449	505	3.520	3.790	-7.1	98636	504	2.170	2.290	-5.2	98751	503	3.970	4.440	-10.6
98482	501	3.770	4.060	-7.1	98636	505	2.170	2.290	-5.2	98751	504	3.970	4.440	-10.6
98482	503	3.770	4.060	-7.1	98640	501	110.000	118.000	-6.8	98751	505	3.970	4.440	-10.6
98482	504	3.770	4.060	-7.1	98640	503	110.000	118.000	-6.8	98805	501	4.550	4.900	-7.1
98482	505	3.770	4.060	-7.1	98640	504	110.000	118.000	-6.8	98805	503	4.550	4.900	-7.1
98483	501	5.570	6.000	-7.2	98640	505	110.000	118.000	-6.8	98805	504	4.550	4.900	-7.1
98483	503	5.570	6.000	-7.2	98658	501	5.260	5.880	-10.5	98805	505	4.550	4.900	-7.1
98483	504	5.570	6.000	-7.2	98658	503	5.260	5.880	-10.5	98806	501	2.020	2.130	-5.2
98483	505	5.570	6.000	-7.2	98658	504	5.260	5.880	-10.5	98806	503	2.020	2.130	-5.2
98502	501	5.340	5.740	-7.0	98658	505	5.260	5.880	-10.5	98806	504	2.020	2.130	-5.2
98502	503	5.340	5.740	-7.0	98659	501	.940	1.050	-10.5	98806	505	2.020	2.130	-5.2
98502	504	5.340	5.740	-7.0	98659	503	.940	1.050	-10.5	98810	501	3.900	4.120	-5.3
98502	505	5.340	5.740	-7.0	98659	504	.940	1.050	-10.5	98810	503	3.900	4.120	-5.3
98555	501	2.480	2.670	-7.1	98659	505	.940	1.050	-10.5	98810	504	3.900	4.120	-5.3
98555	503	2.480	2.670	-7.1	98677	501	17.400	18.700	-7.0	98810	505	3.900	4.120	-5.3

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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
98813	501	3.760	3.980	-5.5	99004	505	3.130	3.310	-5.4	99310	504	3.470	3.740	-7.2
98813	503	3.760	3.980	-5.5	99080	501	1.190	1.290	-7.8	99310	505	3.470	3.740	-7.2
98813	504	3.760	3.980	-5.5	99080	503	1.190	1.290	-7.8	99315	501	10.200	11.000	-7.3
98813	505	3.760	3.980	-5.5	99080	504	1.190	1.290	-7.8	99315	503	10.200	11.000	-7.3
98820	501	8.700	9.360	-7.1	99080	505	1.190	1.290	-7.8	99315	504	10.200	11.000	-7.3
98820	503	8.700	9.360	-7.1	99111	501	1.740	1.870	-7.0	99315	505	10.200	11.000	-7.3
98820	504	8.700	9.360	-7.1	99111	503	1.740	1.870	-7.0	99321	501	9.910	10.700	-7.4
98820	505	8.700	9.360	-7.1	99111	504	1.740	1.870	-7.0	99321	503	9.910	10.700	-7.4
98884	501	2.260	2.430	-7.0	99111	505	1.740	1.870	-7.0	99321	504	9.910	10.700	-7.4
98884	503	2.260	2.430	-7.0	99163	501	4.140	4.450	-7.0	99321	505	9.910	10.700	-7.4
98884	504	2.260	2.430	-7.0	99163	503	4.140	4.450	-7.0	99471	501	.640	.720	-11.1
98884	505	2.260	2.430	-7.0	99163	504	4.140	4.450	-7.0	99471	503	.640	.720	-11.1
98914	501	.640	.720	-11.1	99163	505	4.140	4.450	-7.0	99471	504	.640	.720	-11.1
98914	503	.640	.720	-11.1	99165	501	.910	.980	-7.1	99471	505	.640	.720	-11.1
98914	504	.640	.720	-11.1	99165	503	.910	.980	-7.1	99505	501	3.500	3.710	-5.7
98914	505	.640	.720	-11.1	99165	504	.910	.980	-7.1	99505	503	3.500	3.710	-5.7
98949	501	.900	1.000	-10.0	99165	505	.910	.980	-7.1	99505	504	3.500	3.710	-5.7
98949	503	.900	1.000	-10.0	99220	501	1.410	1.580	-10.8	99505	505	3.500	3.710	-5.7
98949	504	.900	1.000	-10.0	99220	503	1.410	1.580	-10.8	99506	501	4.310	4.560	-5.5
98949	505	.900	1.000	-10.0	99220	504	1.410	1.580	-10.8	99506	503	4.310	4.560	-5.5
98967	501	3.550	3.820	-7.1	99220	505	1.410	1.580	-10.8	99506	504	4.310	4.560	-5.5
98967	503	3.550	3.820	-7.1	99222	501	2.650	2.960	-10.5	99506	505	4.310	4.560	-5.5
98967	504	3.550	3.820	-7.1	99222	503	2.650	2.960	-10.5	99507	501	3.760	3.970	-5.3
98967	505	3.550	3.820	-7.1	99222	504	2.650	2.960	-10.5	99507	503	3.760	3.970	-5.3
98993	501	4.140	4.380	-5.5	99222	505	2.650	2.960	-10.5	99507	504	3.760	3.970	-5.3
98993	503	4.140	4.380	-5.5	99223	501	.250	.270	-7.4	99507	505	3.760	3.970	-5.3
98993	504	4.140	4.380	-5.5	99223	503	.250	.270	-7.4	99570	501	2.020	2.130	-5.2
98993	505	4.140	4.380	-5.5	99223	504	.250	.270	-7.4	99570	503	2.020	2.130	-5.2
99003	501	1.690	1.820	-7.1	99223	505	.250	.270	-7.4	99570	504	2.020	2.130	-5.2
99003	503	1.690	1.820	-7.1	99303	501	13.900	14.900	-6.7	99570	505	2.020	2.130	-5.2
99003	504	1.690	1.820	-7.1	99303	503	13.900	14.900	-6.7	99571	501	.490	.520	-5.8
99003	505	1.690	1.820	-7.1	99303	504	13.900	14.900	-6.7	99571	503	.490	.520	-5.8
99004	501	3.130	3.310	-5.4	99303	505	13.900	14.900	-6.7	99571	504	.490	.520	-5.8
99004	503	3.130	3.310	-5.4	99310	501	3.470	3.740	-7.2	99571	505	.490	.520	-5.8
99004	504	3.130	3.310	-5.4	99310	503	3.470	3.740	-7.2	99572	501	.960	1.010	-5.0

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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
99572	503	.960	1.010	-5.0	99746	501	2.370	2.550	-7.1	99938	505	3.190	3.430	-7.0
99572	504	.960	1.010	-5.0	99746	503	2.370	2.550	-7.1	99943	501	9.240	9.940	-7.0
99572	505	.960	1.010	-5.0	99746	504	2.370	2.550	-7.1	99943	503	9.240	9.940	-7.0
99573	501	.910	.970	-6.2	99746	505	2.370	2.550	-7.1	99943	504	9.240	9.940	-7.0
99573	503	.910	.970	-6.2	99760	501	.270	.290	-6.9	99943	505	9.240	9.940	-7.0
99573	504	.910	.970	-6.2	99760	503	.270	.290	-6.9	99946	501	6.880	7.400	-7.0
99573	505	.910	.970	-6.2	99760	504	.270	.290	-6.9	99946	503	6.880	7.400	-7.0
99600	501	1.360	1.440	-5.6	99760	505	.270	.290	-6.9	99946	504	6.880	7.400	-7.0
99600	503	1.360	1.440	-5.6	99777	501	6.750	7.140	-5.5	99946	505	6.880	7.400	-7.0
99600	504	1.360	1.440	-5.6	99777	503	6.750	7.140	-5.5	99948	501	4.990	5.280	-5.5
99600	505	1.360	1.440	-5.6	99777	504	6.750	7.140	-5.5	99948	503	4.990	5.280	-5.5
99613	501	8.780	9.440	-7.0	99777	505	6.750	7.140	-5.5	99948	504	4.990	5.280	-5.5
99613	503	8.780	9.440	-7.0	99793	501	3.010	3.240	-7.1	99948	505	4.990	5.280	-5.5
99613	504	8.780	9.440	-7.0	99793	503	3.010	3.240	-7.1	99952	501	5.710	6.040	-5.5
99613	505	8.780	9.440	-7.0	99793	504	3.010	3.240	-7.1	99952	503	5.710	6.040	-5.5
99614	501	3.040	3.210	-5.3	99793	505	3.010	3.240	-7.1	99952	504	5.710	6.040	-5.5
99614	503	3.040	3.210	-5.3	99826	501	.770	.810	-4.9	99952	505	5.710	6.040	-5.5
99614	504	3.040	3.210	-5.3	99826	503	.770	.810	-4.9	99953	501	6.160	6.520	-5.5
99614	505	3.040	3.210	-5.3	99826	504	.770	.810	-4.9	99953	503	6.160	6.520	-5.5
99620	501	.480	.510	-5.9	99826	505	.770	.810	-4.9	99953	504	6.160	6.520	-5.5
99620	503	.480	.510	-5.9	99827	501	.430	.460	-6.5	99953	505	6.160	6.520	-5.5
99620	504	.480	.510	-5.9	99827	503	.430	.460	-6.5	99954	501	4.490	4.740	-5.3
99620	505	.480	.510	-5.9	99827	504	.430	.460	-6.5	99954	503	4.490	4.740	-5.3
99650	501	.960	1.010	-5.0	99827	505	.430	.460	-6.5	99954	504	4.490	4.740	-5.3
99650	503	.960	1.010	-5.0	99851	501	1.750	1.880	-6.9	99954	505	4.490	4.740	-5.3
99650	504	.960	1.010	-5.0	99851	503	1.750	1.880	-6.9	99955	501	5.620	5.940	-5.4
99650	505	.960	1.010	-5.0	99851	504	1.750	1.880	-6.9	99955	503	5.620	5.940	-5.4
99709	501	2.360	2.490	-5.2	99851	505	1.750	1.880	-6.9	99955	504	5.620	5.940	-5.4
99709	503	2.360	2.490	-5.2	99917	501	2.830	3.050	-7.2	99955	505	5.620	5.940	-5.4
99709	504	2.360	2.490	-5.2	99917	503	2.830	3.050	-7.2	99963	501	.680	.740	-8.1
99709	505	2.360	2.490	-5.2	99917	504	2.830	3.050	-7.2	99963	503	.680	.740	-8.1
99718	501	1.400	1.510	-7.3	99917	505	2.830	3.050	-7.2	99963	504	.680	.740	-8.1
99718	503	1.400	1.510	-7.3	99938	501	3.190	3.430	-7.0	99963	505	.680	.740	-8.1
99718	504	1.400	1.510	-7.3	99938	503	3.190	3.430	-7.0	99969	501	2.560	2.870	-10.8
99718	505	1.400	1.510	-7.3	99938	504	3.190	3.430	-7.0	99969	503	2.560	2.870	-10.8

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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
99969	504	2.560	2.870	-10.8										
99969	505	2.560	2.870	-10.8										
99975	501	4.990	5.270	-5.3										
99975	503	4.990	5.270	-5.3										
99975	504	4.990	5.270	-5.3										
99975	505	4.990	5.270	-5.3										
99988	501	2.260	2.530	-10.7										
99988	503	2.260	2.530	-10.7										
99988	504	2.260	2.530	-10.7										
99988	505	2.260	2.530	-10.7										

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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
10010	.184	.224	-17.9	11259	.131	.160	-18.1	13759	.111	.125	-11.2
10026	.018	.019	-5.3	11288	.069	.070	-1.4	13930	.211	.205	2.9
10040	.280	.300	-6.7	12014	.036	.040	-10.0	14068	.015	.018	-16.7
10042	.320	.330	-3.0	12356	.028	.028	0.0	14101	.038	.035	8.6
10060	.050	.052	-3.8	12361	.082	.091	-9.9	14279	.057	.064	-10.9
10065	.029	.032	-9.4	12373	.025	.031	-19.4	14401	.094	.116	-19.0
10066	.061	.063	-3.2	12374	.049	.049	0.0	14527	.181	.202	-10.4
10070	.141	.141	0.0	12375	.035	.044	-20.5 L	14855	.162	.200	-19.0
10071	.086	.087	-1.1	12391	.091	.100	-9.0	14913	.097	.085	14.1
10073	.410	.400	2.5	12509	.038	.047	-19.1	15223	.033	.035	-5.7
10075	.173	.173	0.0	12510	.025	.026	-3.8	15224	.049	.050	-2.0
10100	.042	.044	-4.5	12651	.490	.560	-12.5	15406	.044	.047	-6.4
10101	.166	.191	-13.1	12707	.650	.790	-17.7	15538	.013	.014	-7.1
10107	.197	.176	11.9	12797	.169	.168	0.6	15600	.081	.085	-4.7
10111	.083	.098	-15.3	12805	.122	.133	-8.3	15608	.011	.011	0.0
10115	.084	.090	-6.7	13049	.054	.058	-6.9	15733	.038	.044	-13.6
10140	.021	.020	5.0	13111	.097	.113	-14.2	15839	.022	.022	0.0
10141	.024	.022	9.1	13112	.069	.083	-16.9	15991	.077	.080	-3.7
10145	.009	.011	-18.2	13201	.167	.201	-16.9	15993	.045	.043	4.7
10146	.015	.018	-16.7	13204	1.400	1.240	12.9	16005	.034	.040	-15.0
10255	.131	.152	-13.8	13205	.430	.450	-4.4	16009	.079	.073	8.2
10256	.147	.158	-7.0	13314	.017	.020	-15.0	16403	.106	.095	11.6
10257	.167	.187	-10.7	13351	.029	.032	-9.4	16527	.360	.420	-14.3
10309	.016	.019	-15.8	13352	.040	.042	-4.8	16604	.147	.212	-30.7
10352	.058	.072	-19.4	13410	2.440	2.550	-4.3	16676	.014	.014	0.0
11020	.126	.101	24.8 U	13412	1.010	1.110	-9.0	16705	.152	.173	-12.1
11039	.048	.044	9.1	13506	.065	.067	-3.0	16750	.031	.041	-24.4
11126	.020	.024	-16.7	13507	.178	.178	0.0	16900	.064	.077	-16.9
11127	.008	.009	-11.1	13590	.740	.770	-3.9	16901	.082	.093	-11.8
11128	.072	.064	12.5	13621	.360	.420	-14.3	16902	.061	.074	-17.6
11203	.540	.650	-16.9	13670	.013	.013	0.0	16905	.064	.077	-16.9
11204	1.460	1.530	-4.6	13673	.010	.010	0.0	16906	.082	.093	-11.8
11234	.062	.071	-12.7	13715	.154	.151	2.0	16910	.055	.055	0.0
11248	.019	.022	-13.6	13716	.121	.134	-9.7	16911	.038	.040	-5.0
11258	.187	.231	-19.0	13720	.050	.059	-15.3	16915	.047	.053	-11.3

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LOSS COST % CHANGE BY CLASS

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16916	.037	.039	-5.1	51116	.570	.550	3.6	51666	.103	.127	-18.9
16920	.108	.119	-9.2	51205	.083	.111	-25.2	51734	.310	.360	-13.9
16921	.049	.060	-18.3	51206	.450	.610	-26.2	51741	.250	.280	-10.7
16930	.111	.123	-9.8	51220	2.580	3.250	-20.6	51752	.159	.199	-20.1
16931	.045	.056	-19.6	51221	1.940	2.440	-20.5	51767	.009	.012	-25.0 L
16940	.049	.060	-18.3	51222	3.120	3.380	-7.7	51777	.076	.084	-9.5
16941	.068	.083	-18.1	51224	1.330	1.190	11.8	51808	.730	.760	-3.9
18078	.155	.178	-12.9	51230	.790	.880	-10.2	51809	.158	.184	-14.1
18109	.031	.032	-3.1	51240	.182	.213	-14.6	51833	.072	.103	-30.1 L
18110	.026	.031	-16.1	51241	.300	.340	-11.8	51869	.140	.190	-26.3
18205	.310	.360	-13.9	51252	.101	.110	-8.2	51877	.220	.260	-15.4
18206	.088	.078	12.8	51254	.045	.060	-25.0	51889	.014	.020	-30.0 L
18335	.018	.019	-5.3	51300	.173	.209	-17.2	51896	.020	.023	-13.0
18435	.047	.043	9.3	51305	1.030	1.230	-16.3	51900	.093	.105	-11.4
18436	.105	.126	-16.7	51315	.106	.116	-8.6	51909	.057	.066	-13.6
18501	.011	.011	0.0	51330	.430	.430	0.0	51926	.040	.049	-18.4
18506	.006	.006	0.0	51333	.310	.340	-8.8	51927	.115	.126	-8.7
18507	.008	.008	0.0	51350	.142	.177	-19.8	51934	.142	.178	-20.2
18616	.540	.610	-11.5	51351	.045	.054	-16.7	51941	.039	.045	-13.3
18707	.003	.003	0.0 U	51352	.114	.138	-17.4	51956	.246	.300	-18.0
18708	.015	.012	25.0 U	51355	.096	.116	-17.2	51957	.400	.420	-4.8
18834	.127	.133	-4.5	51356	.690	.850	-18.8	51958	.390	.390	0.0
18911	.018	.018	0.0	51357	.530	.430	23.3 U	51960	.360	.420	-14.3
18912	.024	.023	4.3	51358	.149	.175	-14.9	51970	.250	.250	0.0
18920	.017	.017	0.0	51359	.840	1.010	-16.8	51982	.085	.099	-14.1
45771	.176	.220	-20.0	51370	5.000	6.020	-16.9	51986	.107	.128	-16.4
45819	.051	.049	4.1	51380	.050	.072	-30.6 L	51999	.460	.540	-14.8
45900	.042	.047	-10.6	51500	.109	.125	-12.8	52002	.118	.112	5.4
45901	.047	.060	-21.7	51550	.360	.410	-12.2	52075	.250	.290	-13.8
49239	.650	.830	-21.7	51551	.920	1.060	-13.2	52134	.700	.750	-6.7
49617	.130	.132	-1.5	51552	.159	.169	-5.9	52315	.240	.270	-11.1
49618	.041	.033	24.2	51575	.020	.028	-28.6	52433	1.200	1.460	-17.8
49619	.095	.078	21.8	51576	.075	.100	-25.0	52469	.109	.100	9.0
50010	.580	.820	-29.3	51600	.198	.232	-14.7	52505	.203	.224	-9.4
51001	.460	.530	-13.2	51613	.138	.200	-31.0 L	52547	.088	.093	-5.4

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LOSS COST % CHANGE BY CLASS

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52581	3.680	5.330	-31.0 L	56391	.320	.360	-11.1	58397	.830	.970	-14.4
52744	.094	.126	-25.4	56427	.125	.146	-14.4	58503	.061	.077	-20.8
52911	.520	.680	-23.5	56488	.034	.039	-12.8	58575	.123	.143	-14.0
52967	.064	.074	-13.5	56690	.360	.420	-14.3	58627	.016	.022	-27.3 L
53001	.330	.380	-13.2	56699	.051	.051	0.0	58663	1.590	1.870	-15.0
53077	.197	.248	-20.6	56758	.155	.178	-12.9	58737	.740	1.010	-26.7
53121	.460	.540	-14.8	56759	.093	.118	-21.2	58802	.450	.500	-10.0
53333	.213	.238	-10.5	56760	.106	.127	-16.5	58837	.165	.132	25.0 U
53374	.380	.450	-15.6	56912	.084	.105	-20.0	58840	.111	.128	-13.3
53375	.250	.244	2.5	56916	.187	.196	-4.6	58873	.030	.034	-11.8
53376	.187	.212	-11.8	57001	.021	.020	5.0	58904	.131	.152	-13.8
53377	.211	.270	-21.9	57002	.110	.130	-15.4	58922	.187	.241	-22.4
53565	.124	.158	-21.5	57090	.630	.710	-11.3	59005	.096	.108	-11.1
53631	.022	.025	-12.0	57146	.670	.730	-8.2	59188	.056	.065	-13.8
53632	.035	.040	-12.5	57257	.036	.050	-28.0	59189	.300	.350	-14.3
53732	.460	.600	-23.3	57401	.098	.113	-13.3	59223	.077	.087	-11.5
53733	.260	.260	0.0	57403	.036	.041	-12.2	59257	.015	.021	-28.6 L
53907	.111	.139	-20.1	57410	.130	.188	-30.9 L	59378	.152	.175	-13.1
54077	.370	.390	-5.1	57572	.094	.107	-12.1	59481	.088	.101	-12.9
55010	1.100	1.250	-12.0	57600	.033	.039	-15.4	59537	.168	.172	-2.3
55011	1.260	1.140	10.5	57611	.064	.075	-14.7	59601	2.310	3.050	-24.3
55012	1.170	1.320	-11.4	57651	.043	.050	-14.0	59647	.176	.205	-14.1
55013	.990	1.050	-5.7	57690	.510	.640	-20.3	59660	1.140	1.200	-5.0
55214	.089	.103	-13.6	57716	.087	.106	-17.9	59701	.244	.227	7.5
55371	.130	.158	-17.7	57725	.091	.094	-3.2	59713	.330	.370	-10.8
55597	1.780	1.990	-10.6	57726	.019	.019	0.0	59722	.032	.036	-11.1
55647	.056	.080	-30.0 L	57810	.109	.126	-13.5	59723	.038	.044	-13.6
55715	.234	.270	-13.3	57871	.116	.127	-8.7	59724	.022	.031	-29.0
55716	.520	.590	-11.9	57913	.310	.430	-27.9	59725	.104	.103	1.0
55802	.009	.013	-30.8 L	57998	.059	.067	-11.9	59726	.024	.026	-7.7
55918	3.190	4.300	-25.8	57999	.071	.081	-12.3	59738	.066	.077	-14.3
55919	3.640	4.860	-25.1	58095	1.830	1.950	-6.2	59750	.240	.280	-14.3
56040	.040	.057	-29.8 L	58096	1.040	1.060	-1.9	59773	.028	.032	-12.5
56202	.100	.126	-20.6	58301	.082	.086	-4.7	59774	.152	.175	-13.1
56390	.630	.620	1.6	58302	.055	.064	-14.1	59775	.189	.211	-10.4

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LOSS COST % CHANGE BY CLASS

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59781	.076	.088	-13.6	91341	3.620	3.190	13.5	96409	10.200	10.100	1.0
59782	.490	.690	-29.0	91342	2.840	3.070	-7.5	96410	7.000	6.720	4.2
59798	.460	.530	-13.2	91343	1.350	1.230	9.8	96611	1.590	1.490	6.7
59886	.112	.131	-14.5	91436	2.390	2.600	-8.1	97221	.910	1.080	-15.7
59889	.153	.169	-9.5	91507	2.980	3.230	-7.7	97222	1.850	2.180	-15.1
59904	.066	.080	-17.5	91551	.570	.650	-12.3	97223	1.900	1.920	-1.0
59905	.130	.138	-5.8	91555	.780	.840	-7.1	97447	3.170	3.100	2.3
59914	.620	.700	-11.4	91560	3.590	3.870	-7.2	97650	2.660	2.830	-6.0
59915	.780	.880	-11.4	91577	2.460	2.460	0.0	97651	3.140	3.390	-7.4
59917	.165	.164	0.6	91746	4.020	4.420	-9.0	97652	3.860	4.180	-7.7
59923	.005	.007	-28.6 L	92053	.390	.380	2.6	97653	2.710	2.550	6.3
59925	1.090	1.060	2.8	92054	.177	.203	-12.8	97654	2.690	2.810	-4.3
59926	.420	.490	-14.3	92055	.212	.243	-12.8	97655	3.710	4.230	-12.3
59927	1.560	1.710	-8.8	92101	2.650	2.570	3.1	98002	.660	.730	-9.6
59931	.590	.690	-14.5	92102	2.340	2.260	3.5	98152	.470	.380	23.7 U
59932	.930	1.110	-16.2	92215	1.940	2.080	-6.7	98157	.390	.420	-7.1
59947	.330	.390	-15.4	92338	1.220	1.280	-4.7	98163	.237	.290	-18.3
59955	.147	.171	-14.0	92446	1.750	1.890	-7.4	98164	.072	.091	-20.9
59963	.450	.540	-16.7	92447	1.540	1.660	-7.2	98303	6.050	6.260	-3.4
59964	.061	.066	-7.6	92451	2.070	2.060	0.5	98304	2.660	2.790	-4.7
59970	.182	.212	-14.2	92478	1.680	1.760	-4.5	98305	1.170	1.130	3.5
59975	.243	.237	2.5	94007	4.050	3.760	7.7	98306	.620	.680	-8.8
59984	.055	.064	-14.1	94276	3.230	3.370	-4.2	98307	.410	.450	-8.9
59988	.060	.069	-13.0	94381	8.690	11.000	-21.0 L	98308	.570	.460	23.9 U
59989	.045	.052	-13.5	94404	4.770	4.980	-4.2	98309	1.420	1.640	-13.4
91111	4.510	4.070	10.8	94569	2.930	2.350	24.7 U	98344	.590	.590	0.0
91125	2.190	2.680	-18.3	95124	.430	.440	-2.3	98449	17.400	16.400	6.1
91127	1.270	1.500	-15.3	95310	1.100	1.370	-19.7	98482	5.410	6.040	-10.4
91150	3.700	3.850	-3.9	95410	2.430	2.390	1.7	98483	14.700	14.800	-0.7
91155	23.300	23.600	-1.3	95455	1.450	1.660	-12.7	98502	3.030	2.900	4.5
91235	2.380	2.050	16.1	95505	1.520	1.640	-7.3	98636	2.890	2.920	-1.0
91265	3.260	3.410	-4.4	95625	2.690	2.590	3.9	98659	.400	.490	-18.4
91266	.860	1.010	-14.9	95647	4.710	4.650	1.3	98677	8.310	7.960	4.4
91280	1.570	1.940	-19.1	96053	3.880	4.130	-6.1	98678	10.000	9.610	4.1
91340	7.050	6.200	13.7	96408	11.400	14.400	-20.8 L	98805	.850	.830	2.4

L - LOWER CAP APPLIED  
 U - UPPER CAP APPLIED  
 N - NOT SUBJECT TO CAPPING  
 E - SUBJECT TO CAPPING EXCEPTION

STATE: 21 - MICHIGAN  
 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
98806	3.070	3.100	-1.0								
98813	1.630	1.750	-6.9								
98820	2.540	2.670	-4.9								
98884	1.010	.930	8.6								
98914	.430	.520	-17.3								
98949	.280	.340	-17.6								
98967	6.550	5.270	24.3								
98993	3.790	3.180	19.2								
99003	1.130	1.070	5.6								
99004	1.210	1.270	-4.7								
99080	7.990	7.200	11.0								
99163	.520	.630	-17.5								
99315	1.480	1.510	-2.0								
99321	2.320	2.350	-1.3								
99613	2.080	2.280	-8.8								
99650	.880	.860	2.3								
99746	2.010	1.770	13.6								
99803	7.090	6.170	14.9								
99826	.350	.370	-5.4								
99827	.420	.400	5.0								
99946	2.000	1.990	0.5								
99948	22.400	22.200	0.9								
99952	14.300	13.100	9.2								
99953	7.730	7.560	2.2								
99954	7.550	7.680	-1.7								
99955	6.890	8.720	-21.0 L								
99969	1.580	1.330	18.8								

L - LOWER CAP APPLIED  
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SECTION B  
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.

---

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.

---

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.

---

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.

---



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, 2016, 2017 and 2018 are weighted 20%, 30% and 50% respectively. For Products/Completed Operations, multistate data for accident years ending December 31, 2015, 2016 and 2017 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:

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

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.

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### 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.

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## 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, 2018. Products/Completed Operations data is evaluated as of March 31, 2018.

For example, the accident year ending December 31, 2017 includes all exposures earned during the period from January 1, 2017 through December 31, 2017.

The immature experience reported as of 15 and 27 months for accident years ending 6/30/2018 and 6/30/2017 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, 2018 for Premises/ Operations and March 31, 2018 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.

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## 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, 2018. Products/Completed Operations data is evaluated as of March 31, 2018.

For example, the accident year ending December 31, 2017 includes all losses and allocated loss adjustment expenses paid on accidents occurring from January 1, 2017 through December 31, 2017 and all losses and loss adjustment expenses outstanding on those policies as of March 31, 2018, 15 months after the inception of the accident year.

The immature experience reported as of 15, 27 and 39 months for accident years ending 6/30/2018, 6/30/2017 and 6/30/2016 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.

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## 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, 2018 evaluated as of September 30, 2018. 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
1998	A	G	L	P	S	U	Z*
1999	B	H	M	Q	T	Y*	
2000	C	I	N	R	X*	Y*	
2001	D	J	O	W*	X*	Y*	
2002	E	K	V*	W*	X*	Y*	
2003	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:

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

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. For M&C, exposures are forecasted based upon econometric models for sales by manufacturers and average hourly earnings of contracting workers developed by Moody's Analytics. For OL&T Class Group 16 exposures are forecasted based upon econometric models of a year-ended quarterly price deflator of state and local government expenditures developed by Moody's Analytics. The exposure trend for OL&T Class Groups 1-13 is based upon the average annual growth rates in consumption components. This data was also supplied by Moody's Analytics. For Premises/Operations exposure trend detail, see Section E - Trend Data.

For Products/Completed Operations, exposures are forecasted based upon econometric models for sales by manufacturers for products and local products classes and average hourly earnings of contracting workers for completed operations classes developed by Moody's Analytics 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.

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### 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 06/30/2005 - 6/30/2018. For Products/Completed Operations, these pages display the frequency data for CGL only for accident years ending 12/31/2004 - 12/31/2017. The Premises/Operations experience includes occurrences arising from fringe coverages. In this review, multistate number of occurrences contained in the trend exhibits are based on reported paid counts 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 negative frequency trends for Manufacturers and Contractors and Owners, Landlords and Tenants. We are continuing to select negative frequency trend for Products and have selected a negative frequency trend for Local Products/ Completed Operations as well. 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.

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### 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.

SECTION C  
CALCULATION OF INDICATIONS  
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Determination of Indicated Loss Cost Level Change:

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| • Local Products/Completed Operations | C-5 |

MICHIGAN  
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
06/30/2016	\$17,827,345	\$15,656,535	0.20	0.878	692
06/30/2017	18,567,492	16,576,287	0.30	0.893	671
06/30/2018	19,175,053	18,059,412	0.50	0.942	687

(7)	WEIGHTED EXPERIENCE RATIO .....	0.915
(8)	EXPECTED EXPERIENCE RATIO (SEE FOOTNOTE C) .....	1.015
(9)	CREDIBILITY BASED ON LATEST THREE YEARS NUMBER OF INCURRED OCCURRENCES (SEE SECTION B - CREDIBILITY STANDARDS) .....	0.56
(10)	CREDIBILITY-WEIGHTED EXPERIENCE RATIO { (7) X (9) } + { (8) X { 1.0 - (9) } } .....	0.959
(11)	INDICATED MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (10) - 1 } X 100% .....	- 4.1 %
(12)	STATEWIDE INDICATED MONOLINE CHANGE (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS) .....	- 7.6 %
(13)	STATEWIDE SELECTED MONOLINE CHANGE .....	- 7.6 %

(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 12/01/2019. FOR DETAILS, SEE SECTION E - CALCULATION OF INCURRED LOSSES.

(C) THE EXPECTED EXPERIENCE RATIO IS THE NET TREND (1.015). THE NET TREND IS THE ANNUAL NET TREND FACTOR (1.015) TO AN EXPONENT (1.000), THE PERIOD FROM ONE YEAR BEYOND THE LAST REVIEW OR EFFECTIVE DATE (12/01/2019) TO ONE YEAR BEYOND THE ASSUMED EFFECTIVE DATE (12/01/2020).

MICHIGAN  
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
06/30/2016	\$18,374,657	\$19,053,764	0.20	1.037	960
06/30/2017	19,348,558	18,092,981	0.30	0.935	956
06/30/2018	20,340,642	20,858,025	0.50	1.025	1,079

(7)	WEIGHTED EXPERIENCE RATIO .....	1.000
(8)	EXPECTED EXPERIENCE RATIO (SEE FOOTNOTE C) .....	1.022
(9)	CREDIBILITY BASED ON LATEST THREE YEARS NUMBER OF INCURRED OCCURRENCES (SEE SECTION B - CREDIBILITY STANDARDS) .....	0.71
(10)	CREDIBILITY-WEIGHTED EXPERIENCE RATIO { (7) X (9) } + { (8) X {1.0 - (9)} } .....	1.006
(11)	INDICATED MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (10) - 1 } X 100% .....	+ 0.6 %
(12)	STATEWIDE INDICATED MONOLINE CHANGE (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS) .....	+ 1.9 %
(13)	STATEWIDE SELECTED MONOLINE CHANGE .....	+ 1.9 %

- (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 12/01/2019. FOR DETAILS, SEE SECTION E - CALCULATION OF INCURRED LOSSES.
- (C) THE EXPECTED EXPERIENCE RATIO IS THE NET TREND (1.022). THE NET TREND IS THE ANNUAL NET TREND FACTOR (1.022) TO AN EXPONENT (1.000), THE PERIOD FROM ONE YEAR BEYOND THE LAST REVIEW OR EFFECTIVE DATE (12/01/2019) TO ONE YEAR BEYOND THE ASSUMED EFFECTIVE DATE (12/01/2020).

MICHIGAN  
PRODUCTS  
SUBLINE CODE 336  
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 LIMITS INCURRED LOSSES (B)	YEAR WEIGHTS	EXPERIENCE RATIO	NUMBER OF INCURRED OCCURRENCES
12/31/2015	\$126,844,943	\$117,418,560	0.20	0.926	2,260
12/31/2016	131,093,793	128,055,034	0.30	0.977	2,081
12/31/2017	135,345,929	113,009,721	0.50	0.835	2,052

(7)	WEIGHTED EXPERIENCE RATIO .....	0.896
(8)	INDICATED MULTISTATE MONOLINE-MULTILINE LOSS COST LEVEL CHANGE { (7)-1.00 } X 100% .....	- 10.4 %
(9)	INDICATED MULTISTATE MONOLINE CHANGE ..... (SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)	- 10.8 %
(10)	INDICATED STATEWIDE MONOLINE CHANGE (SEE FOOTNOTE C) .....	- 9.7 %
(11)	SELECTED STATEWIDE MONOLINE CHANGE .....	- 9.7 %

- (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 07/01/2019.
- (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) .

MICHIGAN  
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
12/31/2015	\$273,220,063	\$303,484,949	0.20	1.111	6,235
12/31/2016	288,742,827	300,664,824	0.30	1.041	5,848
12/31/2017	301,211,085	294,409,730	0.50	0.977	5,292

(7)	WEIGHTED EXPERIENCE RATIO.....	1.023
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(8) INDICATED MULTISTATE MONOLINE-MULTILINE LOSS COST LEVEL CHANGE  
 $\{ (7) - 1.00 \} \times 100\% \dots\dots\dots + 2.3 \%$

(9) INDICATED MULTISTATE MONOLINE CHANGE  
(SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)..... - 0.6 %

(10) INDICATED STATEWIDE MONOLINE CHANGE (C)  
(SEE SECTION D - BASIC LIMIT RELATIVE CHANGE ANALYSIS)..... - 0.5 %

(11) SELECTED STATEWIDE MONOLINE CHANGE..... - 0.5 %

(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 07/01/2019

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

## SECTION D

### RELATIVE CHANGE ANALYSIS

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MICHIGAN  
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 0.959 OR - 4.1%	
TOP						
10	0.857	0.221	0.966	0.964		
33	1.270	0.042	1.010	1.008		
34	0.928	0.116	0.991	0.989		
35	2.011	0.028	1.020	1.017		
36	0.938	0.151	0.990	0.988		
37	1.211	0.121	1.023	1.021		
38	1.088	0.303	1.026	1.023		
					(5) INDICATED MONOLINE CHANGE	
CLASS GROUP						
30	1.326	0.127	1.036	1.032	-	4.6%
31	1.209	0.195	1.038	1.033	-	4.5%
32	1.073	0.283	1.020	1.015	-	6.1%
33	0.830	0.106	0.980	0.976	-	9.8%
34	0.950	0.147	0.993	0.988	-	8.6%
35	1.018	0.042	1.001	0.996	-	7.9%
36	0.378	0.082	0.923	0.919	-	15.0%
37	0.601	0.069	0.965	0.961	-	11.1%
38	1.099	0.118	1.011	1.007	-	6.9%
OVERALL MONOLINE INDICATION					-	7.6%

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



MICHIGAN  
MANUFACTURERS AND CONTRACTORS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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	30 SERVICE	\$301,834	\$988,385	2.120	2.119	44	0.995
	31 LIGHT CONTRACTING	411,540	1,666,011	1.008	1.008	129	0.996
	32 MEDIUM CONTRCTING	2,951,262	13,961,695	0.844	0.843	543	0.979
	33 HEAVY CONTRACTING	449,108	2,027,968	0.642	0.642	54	0.941
	34 DEALER OR DISTRIB	166,063	800,291	0.630	0.630	24	0.953
	35 LGT. MANUFACTURER	108,226	570,233	0.768	0.768	8	0.960
	36 MED. MANUFACTURER	531,757	2,639,023	0.102	0.102	19	0.886
	37 HVY. MANUFACTURER	148,771	822,041	0.377	0.377	9	0.927
	38 MISC. OPERATION	282,714	1,392,975	1.478	1.477	57	0.971
	TOTAL *	\$5,351,275	\$24,868,622	0.850		887	
33 MULT OFFICE	31 LIGHT CONTRACTING	\$11,729	\$62,026	0.529	0.529	4	1.041
	32 MEDIUM CONTRCTING	26,885	121,733	0.000	0.000	0	1.023
	33 HEAVY CONTRACTING	134,636	630,800	2.533	2.532	11	0.983
	38 MISC. OPERATION	312,583	1,512,912	0.914	0.913	17	1.014
	TOTAL *	\$485,833	\$2,327,471	1.303		32	
34 MULT MERCANTILE	30 SERVICE	\$42,352	\$213,803	0.082	0.082	4	1.020
	32 MEDIUM CONTRCTING	137,869	614,285	3.199	3.198	23	1.004
	34 DEALER OR DISTRIB	1,022,041	5,058,723	0.641	0.641	183	0.977
	38 MISC. OPERATION	87,209	357,119	0.926	0.925	35	0.996
	TOTAL *	\$1,289,471	\$6,243,930	0.915		245	
35 MULT INSTITUT.	31 LIGHT CONTRACTING	\$19,504	\$115,916	6.108	6.106	7	1.051
	32 MEDIUM CONTRCTING	50,140	207,323	0.728	0.728	8	1.033
	TOTAL *	\$69,644	\$323,239	2.235		15	
36 MULT SERVICES	30 SERVICE	\$72,594	\$361,325	1.303	1.302	37	1.019
	31 LIGHT CONTRACTING	204,276	1,373,206	0.350	0.350	32	1.021
	32 MEDIUM CONTRCTING	185,886	1,026,133	0.303	0.303	18	1.003
	33 HEAVY CONTRACTING	61,229	386,958	0.956	0.956	7	0.964
	34 DEALER OR DISTRIB	793,140	3,473,313	1.255	1.255	174	0.976
	36 MED. MANUFACTURER	41,105	149,224	0.554	0.553	6	0.908
	38 MISC. OPERATION	738,925	2,823,811	1.003	1.002	140	0.994
	TOTAL *	\$2,097,155	\$9,593,970	0.973		414	

MICHIGAN  
MANUFACTURERS AND CONTRACTORS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

		(1)	(2)	(3)	(4)	(5)	(6)
		FISCAL A.Y.E. 06/30/2018 AGGREGATE	FISCAL A.Y.E. 2014 - 2018	FIVE YEAR			
TYPE OF POLICY	CLASS GROUP	LOSS COSTS AT CURRENT LEVEL	AGG LOSS COST CURRENT LEVEL	EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
37 MULT INDUST/PROC.	31 LIGHT CONTRACTING	\$657	\$3,245	0.243	0.242	0	1.055
	32 MEDIUM CONTRCTING	180,874	936,801	0.450	0.450	43	1.037
	33 HEAVY CONTRACTING	110,376	506,926	1.346	1.345	12	0.996
	34 DEALER OR DISTRIB	21,941	115,846	0.650	0.649	8	1.009
	35 LGT. MANUFACTURER	160,330	890,367	1.303	1.302	25	1.017
	36 MED. MANUFACTURER	931,877	4,188,362	0.576	0.576	99	0.938
	37 HVY. MANUFACTURER	1,047,554	5,212,935	0.747	0.747	77	0.981
	38 MISC. OPERATION	10,635	61,972	0.015	0.015	1	1.028
	TOTAL *	\$2,464,244	\$11,916,454	0.719		265	
38 MULT CONTRACTORS	30 SERVICE	\$897,513	\$3,953,007	1.163	1.162	208	1.056
	31 LIGHT CONTRACTING	1,571,824	6,590,761	1.388	1.388	513	1.057
	32 MEDIUM CONTRCTING	3,841,724	17,393,114	1.250	1.249	812	1.039
	33 HEAVY CONTRACTING	1,135,277	4,975,734	0.713	0.713	120	0.999
	38 MISC. OPERATION	9,518	38,670	5.655	5.653	3	1.030
	TOTAL *	\$7,455,856	\$32,951,286	1.192		1,656	
TOTAL ALL TOP	30 SERVICE	\$1,314,293	\$5,516,520	1.355		293	
	31 LIGHT CONTRACTING	2,219,530	9,811,165	1.259		685	
	32 MEDIUM CONTRCTING	7,374,640	34,261,084	1.072		1,447	
	33 HEAVY CONTRACTING	1,890,626	8,528,386	0.871		204	
	34 DEALER OR DISTRIB	2,003,185	9,448,173	0.883		389	
	35 LGT. MANUFACTURER	268,556	1,460,600	1.088		33	
	36 MED. MANUFACTURER	1,504,739	6,976,609	0.408		124	
	37 HVY. MANUFACTURER	1,196,325	6,034,976	0.701		86	
	38 MISC. OPERATION	1,441,584	6,187,459	1.095		253	
	TOTAL *	\$19,213,478	\$88,224,972	1.000		3,514	

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

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
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 1.006 OR + 0.6%	
TOP						
10	1.067	0.264	1.017	1.014		
31	1.034	0.104	1.003	1.000		
32	1.075	0.132	1.010	1.006		
33	1.084	0.211	1.017	1.014		
34	1.092	0.287	1.026	1.022		
35	0.883	0.199	0.976	0.973		
36	0.513	0.161	0.898	0.895		
					(5) INDICATED MONOLINE CHANGE	
CLASS GROUP						
01	0.780	0.158	0.961	0.961	-	2.5%
02	0.950	0.193	0.990	0.990	+	0.6%
03	0.917	0.117	0.990	0.989	+	0.6%
04	4.766	0.023	1.037	1.036	+	5.6%
05	0.572	0.036	0.980	0.980	-	0.4%
06	0.734	0.098	0.970	0.970	-	1.1%
07	1.969	0.152	1.108	1.108	+	12.9%
08	1.021	0.043	1.001	1.000	+	1.8%
09	0.865	0.151	0.978	0.978	-	0.1%
10	1.107	0.194	1.020	1.019	+	3.5%
11	0.864	0.157	0.977	0.977	-	0.2%
12	1.044	0.293	1.013	1.012	+	3.2%
13	1.354	0.073	1.022	1.022	+	3.9%
16	0.354	0.035	0.964	0.964	-	1.0%

OVERALL MONOLINE INDICATION + 1.9%

---

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

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

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	(1)	(2)	(3)	(4)	(5)
	BAILEY				
TERRITORY	FORMULA	CREDIBILITY	Z-WTD	BALANCED	INDICATED
	RELATIV.	Z	RELATIV.	RELATIV.	MONOLINE CHG.
501	0.910	0.185	0.983	0.982	+ 0.3%
503	1.024	0.290	1.007	1.006	+ 2.5%
504	1.142	0.237	1.032	1.032	+ 5.4%
505	0.948	0.341	0.982	0.982	+ 0.2%

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

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY 501

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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	01 FOOD&BEV. (RETAIL)	\$2,370	\$17,975	5.834	5.620	1	0.957
	02 RESTAURANTS	39,288	200,646	0.535	0.515	12	0.986
	03 STORES	3,154	43,662	0.793	0.764	1	0.985
	04 VENDING & RENTAL	1,232	4,358	0.000	0.000	0	1.032
	05 FOOD & BEV. DIST.	11,634	44,220	0.035	0.033	0	0.976
	06 NON-FOOD&BEV.DIST	4,619	38,100	0.736	0.709	12	0.966
	07 CLUBS, AMSMT&SPRTS	19,777	109,005	2.489	2.398	14	1.103
	08 HEALTH CARE FACIL	3,247	41,311	0.009	0.009	0	0.996
	09 HOTELS AND MOTELS	32,899	210,223	2.186	2.106	42	0.974
	10 SCHLS & CHURCHES	53,258	389,023	0.431	0.415	10	1.015
	11 APARTMENTS	374,927	939,734	1.285	1.238	26	0.973
	12 BUILDINGS&OFFICES	400,353	2,248,745	0.493	0.475	61	1.008
	13 MISC. PREMISES	28,557	163,090	0.237	0.229	3	1.018
	TOTAL *	\$975,315	\$4,450,092	0.893		182	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$122,328	\$358,211	1.007	0.970	31	0.961
	TOTAL *	\$122,328	\$358,211	1.007		31	
32 MULT APARTMENT	11 APARTMENTS	\$242,023	\$987,476	0.657	0.633	22	0.966
	12 BUILDINGS&OFFICES	38,010	104,424	0.000	0.000	0	1.001
	TOTAL *	\$280,033	\$1,091,900	0.568		22	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$729,786	\$3,041,493	0.897	0.864	84	1.008
	13 MISC. PREMISES	13,676	49,477	0.000	0.000	0	1.018
	TOTAL *	\$743,462	\$3,090,970	0.880		84	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$267,048	\$988,898	0.576	0.555	25	0.965
	02 RESTAURANTS	235,696	1,210,151	2.743	2.642	92	0.994
	03 STORES	68,264	265,346	0.552	0.532	6	0.993
	04 VENDING & RENTAL	409	2,954	0.000	0.000	0	1.040
	05 FOOD & BEV. DIST.	42,641	217,363	0.757	0.730	7	0.984
	06 NON-FOOD&BEV.DIST	55,093	256,297	0.810	0.780	6	0.974
	12 BUILDINGS&OFFICES	83,278	544,842	0.984	0.948	20	1.016
	TOTAL *	\$752,429	\$3,485,851	1.325		156	

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY		501	(1)	(2)	(3)	(4)	(5)	(6)
			FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	FISCAL A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP							
35 MULT INSTITUT.	08 HEALTH CARE FACIL		\$82,986	\$307,705	1.007	0.970	5	0.956
	10 SCHLS & CHURCHES		314,003	1,473,339	0.682	0.657	75	0.974
	12 BUILDINGS&OFFICES		15,006	27,525	1.541	1.484	2	0.967
	16 GOVT SUBDIVISIONS		6,324	57,131	2.326	2.241	7	0.921
	TOTAL *		\$418,319	\$1,865,700	0.802		89	
36 MULT SERVICES	03 STORES		\$6,368	\$37,758	0.235	0.226	2	0.870
	04 VENDING & RENTAL		4,487	13,485	0.000	0.000	0	0.911
	07 CLUBS,AMSMT&SPRTS		106,705	393,049	0.692	0.666	16	0.974
	08 HEALTH CARE FACIL		6	8	0.000	0.000	0	0.880
	09 HOTELS AND MOTELS		399	1,638	0.000	0.000	0	0.860
	10 SCHLS & CHURCHES		1,613	5,903	0.000	0.000	0	0.896
	12 BUILDINGS&OFFICES		85,218	469,919	1.409	1.357	30	0.890
	13 MISC. PREMISES		33,044	169,574	0.644	0.621	5	0.899
	TOTAL *		\$237,840	\$1,091,334	0.911		53	
TOTAL ALL TOP	01 FOOD&BEV. (RETAIL)		\$269,418	\$1,006,873	0.622		26	
	02 RESTAURANTS		274,984	1,410,797	2.427		104	
	03 STORES		77,786	346,766	0.536		9	
	04 VENDING & RENTAL		6,128	20,797	0.000		0	
	05 FOOD & BEV. DIST.		54,275	261,583	0.603		7	
	06 NON-FOOD&BEV.DIST		59,712	294,397	0.804		18	
	07 CLUBS,AMSMT&SPRTS		126,482	502,054	0.973		30	
	08 HEALTH CARE FACIL		86,239	349,024	0.969		5	
	09 HOTELS AND MOTELS		155,626	570,072	1.253		73	
	10 SCHLS & CHURCHES		368,874	1,868,265	0.643		85	
	11 APARTMENTS		616,950	1,927,210	1.038		48	
	12 BUILDINGS&OFFICES		1,351,651	6,436,948	0.797		197	
	13 MISC. PREMISES		75,277	382,141	0.373		8	
	16 GOVT SUBDIVISIONS		6,324	57,131	2.326		7	
	TOTAL *		\$3,529,726	\$15,434,058	0.951		617	

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

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY 503

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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	01 FOOD&BEV. (RETAIL)	\$26,446	\$74,620	0.136	0.131	3	0.981
	02 RESTAURANTS	93,901	328,517	1.480	1.425	37	1.010
	03 STORES	125,605	433,238	1.870	1.801	27	1.010
	04 VENDING & RENTAL	1,871	13,838	0.000	0.000	0	1.057
	05 FOOD & BEV. DIST.	40,610	192,162	0.000	0.000	0	1.000
	06 NON-FOOD&BEV.DIST	217,398	644,697	0.236	0.227	14	0.990
	07 CLUBS, AMSMT&SPRTS	143,513	603,420	4.050	3.902	57	1.131
	08 HEALTH CARE FACIL	20,157	116,544	0.651	0.627	1	1.021
	09 HOTELS AND MOTELS	240,643	1,153,044	0.565	0.544	74	0.998
	10 SCHLS & CHURCHES	53,135	282,476	0.371	0.358	12	1.040
	11 APARTMENTS	1,122,405	3,194,048	0.852	0.821	45	0.997
	12 BUILDINGS&OFFICES	577,502	2,852,530	1.755	1.691	196	1.033
	13 MISC. PREMISES	9,911	49,914	0.402	0.388	5	1.043
	TOTAL *	\$2,673,097	\$9,939,048	1.179		471	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$257,589	\$1,200,364	0.628	0.605	40	0.984
	TOTAL *	\$257,589	\$1,200,364	0.628		40	
32 MULT APARTMENT	11 APARTMENTS	\$703,739	\$2,855,109	1.019	0.982	110	0.989
	12 BUILDINGS&OFFICES	87,610	207,866	0.916	0.882	9	1.025
	TOTAL *	\$791,349	\$3,062,975	1.007		119	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$1,175,227	\$5,533,839	1.243	1.198	246	1.033
	13 MISC. PREMISES	5,939	27,977	0.000	0.000	0	1.043
	TOTAL *	\$1,181,166	\$5,561,816	1.237		246	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$435,284	\$1,764,639	1.006	0.969	95	0.989
	02 RESTAURANTS	801,198	3,240,174	1.118	1.078	184	1.018
	03 STORES	239,186	1,097,904	1.014	0.977	40	1.018
	04 VENDING & RENTAL	1,643	14,014	0.285	0.274	1	1.066
	05 FOOD & BEV. DIST.	30,262	176,033	0.069	0.066	1	1.008
	06 NON-FOOD&BEV.DIST	338,605	1,519,067	0.657	0.633	40	0.998
	12 BUILDINGS&OFFICES	232,919	1,252,527	0.622	0.599	55	1.041
	TOTAL *	\$2,079,097	\$9,064,358	0.936		416	

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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			
		06/30/2018 AGGREGATE	2014 - 2018	EXPERIENCE			
TYPE OF POLICY	CLASS GROUP	LOSS COSTS AT	AGG LOSS COST	RATIO	RELATIV.	NUMBER OF	BAL CELL
		CURRENT LEVEL	CURRENT LEVEL			OCCURRENCES	RELATIV.
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS	\$39	\$197	0.000	0.000	0	1.084
	08 HEALTH CARE FACIL	62,986	293,749	1.635	1.575	4	0.979
	10 SCHLS & CHURCHES	187,210	892,534	1.258	1.212	89	0.998
	12 BUILDINGS&OFFICES	3,286	15,642	0.000	0.000	0	0.991
	13 MISC. PREMISES	60	300	0.000	0.000	0	1.000
	16 GOVT SUBDIVISIONS	21,662	22,400	0.000	0.000	0	0.943
	TOTAL *	\$275,243	\$1,224,822	1.230		93	
36 MULT SERVICES	03 STORES	\$33,678	\$145,346	0.284	0.274	6	0.891
	04 VENDING & RENTAL	10,371	53,473	0.453	0.436	3	0.933
	07 CLUBS,AMSMT&SPRTS	397,658	1,712,459	0.579	0.558	45	0.998
	08 HEALTH CARE FACIL	2,592	6,545	0.000	0.000	0	0.901
	09 HOTELS AND MOTELS	18,296	225,396	0.611	0.589	4	0.881
	10 SCHLS & CHURCHES	2,971	12,130	0.094	0.091	1	0.918
	12 BUILDINGS&OFFICES	98,007	459,201	1.004	0.967	34	0.912
	13 MISC. PREMISES	94,186	301,691	1.886	1.817	40	0.921
	TOTAL *	\$657,759	\$2,916,241	0.809		133	
TOTAL ALL TOP	01 FOOD&BEV. (RETAIL)	\$461,730	\$1,839,259	0.956		98	
	02 RESTAURANTS	895,099	3,568,691	1.156		221	
	03 STORES	398,469	1,676,488	1.222		73	
	04 VENDING & RENTAL	13,885	81,325	0.372		4	
	05 FOOD & BEV. DIST.	70,872	368,195	0.029		1	
	06 NON-FOOD&BEV.DIST	556,003	2,163,764	0.492		54	
	07 CLUBS,AMSMT&SPRTS	541,210	2,316,076	1.500		102	
	08 HEALTH CARE FACIL	85,735	416,838	1.354		5	
	09 HOTELS AND MOTELS	516,528	2,578,804	0.598		118	
	10 SCHLS & CHURCHES	243,316	1,187,140	1.050		102	
	11 APARTMENTS	1,826,144	6,049,157	0.916		155	
	12 BUILDINGS&OFFICES	2,174,551	10,321,605	1.287		540	
	13 MISC. PREMISES	110,096	379,882	1.650		45	
	16 GOVT SUBDIVISIONS	21,662	22,400	0.000		0	
	TOTAL *	\$7,915,300	\$32,969,624	1.060		1,518	

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



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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY	504						
		(1)	(2)	(3)	(4)	(5)	(6)
		FISCAL A.Y.E.	FISCAL A.Y.E.				
		06/30/2018 AGGREGATE	2014 - 2018	FIVE YEAR			
TYPE OF POLICY	CLASS GROUP	LOSS COSTS AT	AGG LOSS COST	EXPERIENCE	RELATIV.	NUMBER OF	BAL CELL
		CURRENT LEVEL	CURRENT LEVEL	RATIO		OCCURRENCES	RELATIV.
10 MONOLINE	01 FOOD&BEV. (RETAIL)	\$5,735	\$37,965	0.174	0.168	2	1.005
	02 RESTAURANTS	43,006	202,410	3.151	3.036	37	1.035
	03 STORES	29,005	288,813	1.220	1.176	20	1.035
	04 VENDING & RENTAL	1,628	13,824	0.000	0.000	0	1.084
	05 FOOD & BEV. DIST.	8	6,263	0.000	0.000	0	1.025
	06 NON-FOOD&BEV.DIST	5,988	79,300	0.216	0.208	3	1.014
	07 CLUBS, AMSMT&SPRTS	31,913	269,710	5.194	5.004	37	1.159
	08 HEALTH CARE FACIL	458	66,396	0.135	0.130	1	1.046
	09 HOTELS AND MOTELS	89,773	363,289	1.761	1.696	57	1.023
	10 SCHLS & CHURCHES	64,047	337,002	0.519	0.500	10	1.066
	11 APARTMENTS	321,099	1,093,708	0.551	0.531	36	1.022
	12 BUILDINGS&OFFICES	245,963	1,180,792	0.997	0.961	82	1.059
	13 MISC. PREMISES	3,206	32,187	1.173	1.130	4	1.069
	TOTAL *	\$841,829	\$3,971,659	1.136		289	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$111,333	\$469,636	1.224	1.179	37	1.009
	TOTAL *	\$111,333	\$469,636	1.224		37	
32 MULT APARTMENT	11 APARTMENTS	\$342,801	\$1,570,305	1.567	1.510	59	1.014
	12 BUILDINGS&OFFICES	27,134	92,142	0.366	0.353	8	1.051
	TOTAL *	\$369,935	\$1,662,447	1.479		67	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$496,974	\$2,214,996	1.193	1.149	157	1.059
	13 MISC. PREMISES	4,016	16,799	0.780	0.751	2	1.069
	TOTAL *	\$500,990	\$2,231,795	1.189		159	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$137,572	\$649,775	0.570	0.549	59	1.013
	02 RESTAURANTS	259,163	1,287,215	1.113	1.072	88	1.044
	03 STORES	65,801	330,753	1.691	1.629	32	1.043
	04 VENDING & RENTAL	856	4,406	216.484	208.567	1	1.092
	05 FOOD & BEV. DIST.	28,773	144,530	3.210	3.093	9	1.033
	06 NON-FOOD&BEV.DIST	72,323	352,475	2.729	2.630	16	1.023
	12 BUILDINGS&OFFICES	122,118	573,957	0.580	0.559	48	1.067
	TOTAL *	\$686,606	\$3,343,111	1.491		253	

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY      504

		(1) FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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.
TYPE OF POLICY	CLASS GROUP						
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS	\$2,077	\$7,897	0.000	0.000	0	1.111
	08 HEALTH CARE FACIL	47,192	230,105	0.319	0.308	9	1.004
	10 SCHLS & CHURCHES	158,115	858,062	0.840	0.809	105	1.023
	12 BUILDINGS&OFFICES	644	3,300	1.275	1.228	1	1.016
	13 MISC. PREMISES	3,582	17,870	0.000	0.000	0	1.025
	16 GOVT SUBDIVISIONS	52,503	416,023	0.000	0.000	0	0.967
	TOTAL *	\$264,113	\$1,533,257	0.563		115	
36 MULT SERVICES	03 STORES	\$20,377	\$97,599	1.343	1.294	11	0.914
	04 VENDING & RENTAL	9,905	50,832	0.027	0.026	2	0.957
	07 CLUBS,AMSMT&SPRTS	161,640	767,566	0.413	0.398	46	1.023
	08 HEALTH CARE FACIL	155	1,787	0.000	0.000	0	0.924
	09 HOTELS AND MOTELS	11,930	50,684	0.348	0.335	1	0.903
	10 SCHLS & CHURCHES	206	873	1.795	1.729	0	0.941
	12 BUILDINGS&OFFICES	36,780	197,180	2.602	2.507	28	0.935
	13 MISC. PREMISES	27,690	104,941	0.137	0.132	10	0.944
	TOTAL *	\$268,683	\$1,271,462	0.739		98	
TOTAL ALL      TOP	01 FOOD&BEV. (RETAIL)	\$143,307	\$687,740	0.554		61	
	02 RESTAURANTS	302,169	1,489,625	1.403		125	
	03 STORES	115,183	717,165	1.511		63	
	04 VENDING & RENTAL	12,389	69,062	14.979		3	
	05 FOOD & BEV. DIST.	28,781	150,793	3.209		9	
	06 NON-FOOD&BEV.DIST	78,311	431,775	2.537		19	
	07 CLUBS,AMSMT&SPRTS	195,630	1,045,173	1.189		83	
	08 HEALTH CARE FACIL	47,805	298,288	0.317		10	
	09 HOTELS AND MOTELS	213,036	883,609	1.401		95	
	10 SCHLS & CHURCHES	222,368	1,195,937	0.749		115	
	11 APARTMENTS	663,900	2,664,013	1.076		95	
	12 BUILDINGS&OFFICES	929,613	4,262,367	1.092		324	
	13 MISC. PREMISES	38,494	171,797	0.278		16	
	16 GOVT SUBDIVISIONS	52,503	416,023	0.000		0	
	TOTAL *	\$3,043,489	\$14,483,367	1.185		1,018	

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

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY 505

TYPE OF POLICY	CLASS GROUP	(1) FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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	01 FOOD&BEV. (RETAIL)	\$9,411	\$125,112	2.507	2.415	13	0.956
	02 RESTAURANTS	45,264	218,023	1.477	1.423	17	0.985
	03 STORES	81,511	404,538	0.183	0.177	18	0.985
	04 VENDING & RENTAL	2,170	18,368	0.000	0.000	0	1.031
	05 FOOD & BEV. DIST.	14,707	72,621	0.067	0.065	1	0.975
	06 NON-FOOD&BEV.DIST	33,583	182,656	0.194	0.187	5	0.965
	07 CLUBS, AMSMT&SPRTS	61,021	444,127	1.983	1.910	63	1.103
	08 HEALTH CARE FACIL	4,184	24,821	0.000	0.000	0	0.996
	09 HOTELS AND MOTELS	64,089	464,312	0.786	0.757	38	0.973
	10 SCHLS & CHURCHES	34,920	168,560	3.087	2.975	17	1.015
	11 APARTMENTS	417,724	1,787,100	1.099	1.059	56	0.972
	12 BUILDINGS&OFFICES	261,366	1,303,576	0.749	0.722	83	1.008
	13 MISC. PREMISES	16,468	93,617	0.976	0.940	5	1.017
	16 GOVT SUBDIVISIONS	362	626	0.000	0.000	0	0.959
	TOTAL *	\$1,046,780	\$5,308,057	1.016		316	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$242,757	\$1,116,663	1.066	1.027	88	0.960
	TOTAL *	\$242,757	\$1,116,663	1.066		88	
32 MULT APARTMENT	11 APARTMENTS	\$423,664	\$2,417,839	0.800	0.771	95	0.965
	12 BUILDINGS&OFFICES	49,667	153,049	1.313	1.265	13	1.000
	TOTAL *	\$473,331	\$2,570,888	0.854		108	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$656,493	\$3,225,364	1.414	1.362	314	1.008
	13 MISC. PREMISES	9,814	34,691	0.378	0.364	3	1.017
	TOTAL *	\$666,307	\$3,260,055	1.398		317	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$538,895	\$2,479,976	0.975	0.939	256	0.964
	02 RESTAURANTS	1,061,187	4,462,834	0.527	0.508	206	0.993
	03 STORES	292,726	1,171,512	0.663	0.639	64	0.993
	04 VENDING & RENTAL	7,577	26,073	0.000	0.000	0	1.040
	05 FOOD & BEV. DIST.	50,102	237,299	0.223	0.215	6	0.983
	06 NON-FOOD&BEV.DIST	245,891	1,177,757	1.145	1.103	80	0.973
	12 BUILDINGS&OFFICES	174,472	878,305	1.955	1.884	55	1.016
	13 MISC. PREMISES	495	1,262	0.000	0.000	0	1.025
	TOTAL *	\$2,371,345	\$10,435,018	0.807		667	

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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY		505	(1)	(2)	(3)	(4)	(5)	(6)
			FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	FISCAL A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP							
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS		\$75,963	\$318,136	0.384	0.370	25	1.058
	08 HEALTH CARE FACIL		60,599	296,300	0.892	0.859	14	0.955
	10 SCHLS & CHURCHES		330,358	1,661,876	1.456	1.402	359	0.973
	12 BUILDINGS&OFFICES		6,139	28,287	2.210	2.129	8	0.966
	13 MISC. PREMISES		2,025	6,039	0.000	0.000	0	0.975
	16 GOVT SUBDIVISIONS		47,165	243,796	0.604	0.582	16	0.920
	TOTAL *		\$522,249	\$2,554,434	1.161		422	
36 MULT SERVICES	03 STORES		\$40,723	\$158,878	1.688	1.626	23	0.869
	04 VENDING & RENTAL		14,181	73,204	0.089	0.086	3	0.910
	07 CLUBS,AMSMT&SPRTS		319,693	1,494,335	1.321	1.273	116	0.974
	08 HEALTH CARE FACIL		136	565	0.000	0.000	0	0.879
	09 HOTELS AND MOTELS		29,581	151,278	0.591	0.570	3	0.859
	10 SCHLS & CHURCHES		4,911	42,606	0.000	0.000	0	0.896
	12 BUILDINGS&OFFICES		61,488	266,583	0.362	0.349	20	0.890
	13 MISC. PREMISES		68,823	252,859	0.894	0.861	20	0.898
	TOTAL *		\$539,536	\$2,440,308	1.100		185	
TOTAL ALL TOP	01 FOOD&BEV. (RETAIL)		\$548,306	\$2,605,088	1.001		269	
	02 RESTAURANTS		1,106,451	4,680,857	0.566		223	
	03 STORES		414,960	1,734,928	0.670		105	
	04 VENDING & RENTAL		23,928	117,645	0.053		3	
	05 FOOD & BEV. DIST.		64,809	309,920	0.188		7	
	06 NON-FOOD&BEV.DIST		279,474	1,360,413	1.031		85	
	07 CLUBS,AMSMT&SPRTS		456,677	2,256,598	1.254		204	
	08 HEALTH CARE FACIL		64,919	321,686	0.832		14	
	09 HOTELS AND MOTELS		336,427	1,732,253	0.971		129	
	10 SCHLS & CHURCHES		370,189	1,873,042	1.590		376	
	11 APARTMENTS		841,388	4,204,939	0.949		151	
	12 BUILDINGS&OFFICES		1,209,625	5,855,164	1.295		493	
	13 MISC. PREMISES		97,625	388,468	0.833		28	
	16 GOVT SUBDIVISIONS		47,527	244,422	0.599		16	
	TOTAL *		\$5,862,305	\$27,685,423	0.984		2,103	

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

MICHIGAN  
OWNERS, LANDLORDS AND TENANTS  
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SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TERRITORY	ALL	(1)	(2)	(3)	(4)	(5)	(6)
		FISCAL A.Y.E. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	FISCAL A.Y.E. 2014 - 2018 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO		NUMBER OF OCCURRENCES	BAL CELL RELATIV.
TYPE OF POLICY	CLASS GROUP				RELATIV.		
10 MONOLINE	01 FOOD&BEV. (RETAIL)	\$43,962	\$255,672	0.956		19	
	02 RESTAURANTS	221,459	949,596	1.636		103	
	03 STORES	239,275	1,170,251	1.202		66	
	04 VENDING & RENTAL	6,901	50,388	0.000		0	
	05 FOOD & BEV. DIST.	66,959	315,266	0.021		1	
	06 NON-FOOD&BEV.DIST	261,588	944,753	0.239		34	
	07 CLUBS, AMSMT&SPRTS	256,224	1,426,262	3.580		171	
	08 HEALTH CARE FACIL	28,046	249,072	0.471		2	
	09 HOTELS AND MOTELS	427,404	2,190,868	0.974		211	
	10 SCHLS & CHURCHES	205,360	1,177,061	0.895		49	
	11 APARTMENTS	2,236,155	7,014,590	0.928		163	
	12 BUILDINGS&OFFICES	1,485,184	7,585,643	1.112		422	
	13 MISC. PREMISES	58,142	338,808	0.526		17	
	16 GOVT SUBDIVISIONS	362	626	0.000		0	
	TOTAL *	\$5,537,021	\$23,668,856	1.091		1,258	
31 MULT MOTEL/HOTEL	09 HOTELS AND MOTELS	\$734,007	\$3,144,874	0.926		196	
	TOTAL *	\$734,007	\$3,144,874	0.926		196	
32 MULT APARTMENT	11 APARTMENTS	\$1,712,227	\$7,830,729	1.023		286	
	12 BUILDINGS&OFFICES	202,421	557,481	0.767		30	
	TOTAL *	\$1,914,648	\$8,388,210	0.996		316	
33 MULT OFFICE	12 BUILDINGS&OFFICES	\$3,058,480	\$14,015,692	1.189		801	
	13 MISC. PREMISES	33,445	128,944	0.205		5	
	TOTAL *	\$3,091,925	\$14,144,636	1.178		806	
34 MULT MERCANTILE	01 FOOD&BEV. (RETAIL)	\$1,378,799	\$5,883,288	0.867		435	
	02 RESTAURANTS	2,357,244	10,200,374	1.014		570	
	03 STORES	665,977	2,865,515	0.880		142	
	04 VENDING & RENTAL	10,485	47,447	17.718		2	
	05 FOOD & BEV. DIST.	151,778	775,225	0.909		23	
	06 NON-FOOD&BEV.DIST	711,912	3,305,596	1.048		142	
	12 BUILDINGS&OFFICES	612,787	3,249,631	1.042		178	
	13 MISC. PREMISES	495	1,262	0.000		0	
	TOTAL *	\$5,889,477	\$26,328,338	0.998		1,492	

MICHIGAN  
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. 06/30/2018 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) FISCAL 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.
TYPE OF POLICY	CLASS GROUP						
35 MULT INSTITUT.	07 CLUBS,AMSMT&SPRTS	\$78,079	\$326,230	0.374		25	
	08 HEALTH CARE FACIL	253,763	1,127,859	1.007		32	
	10 SCHLS & CHURCHES	989,686	4,885,811	1.074		628	
	12 BUILDINGS&OFFICES	25,075	74,754	1.496		11	
	13 MISC. PREMISES	5,667	24,209	0.000		0	
	16 GOVT SUBDIVISIONS	127,654	739,350	0.338		23	
	TOTAL *	\$1,479,924	\$7,178,213	0.965		719	
36 MULT SERVICES	03 STORES	\$101,146	\$439,581	1.060		42	
	04 VENDING & RENTAL	38,944	190,994	0.160		8	
	07 CLUBS,AMSMT&SPRTS	985,696	4,367,409	0.805		223	
	08 HEALTH CARE FACIL	2,889	8,905	0.000		0	
	09 HOTELS AND MOTELS	60,206	428,996	0.545		8	
	10 SCHLS & CHURCHES	9,701	61,512	0.067		1	
	12 BUILDINGS&OFFICES	281,493	1,392,883	1.195		112	
	13 MISC. PREMISES	223,743	829,065	1.181		75	
	TOTAL *	\$1,703,818	\$7,719,345	0.904		469	
TOTAL ALL	TOP						
	01 FOOD&BEV. (RETAIL)	\$1,422,761	\$6,138,960	0.870		454	
	02 RESTAURANTS	2,578,703	11,149,970	1.067		673	
	03 STORES	1,006,398	4,475,347	0.974		250	
	04 VENDING & RENTAL	56,330	288,829	3.408		10	
	05 FOOD & BEV. DIST.	218,737	1,090,491	0.637		24	
	06 NON-FOOD&BEV.DIST	973,500	4,250,349	0.831		176	
	07 CLUBS,AMSMT&SPRTS	1,319,999	6,119,901	1.318		419	
	08 HEALTH CARE FACIL	284,698	1,385,836	0.944		34	
	09 HOTELS AND MOTELS	1,221,617	5,764,738	0.924		415	
	10 SCHLS & CHURCHES	1,204,747	6,124,384	1.036		678	
	11 APARTMENTS	3,948,382	14,845,319	0.969		449	
	12 BUILDINGS&OFFICES	5,665,440	26,876,084	1.140		1,554	
	13 MISC. PREMISES	321,492	1,322,288	0.938		97	
	16 GOVT SUBDIVISIONS	128,016	739,976	0.337		23	
	TOTAL *	\$20,350,820	\$90,572,472	1.038		5,256	

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

MICHIGAN  
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 0.896 OR - 10.4%		
TOP							
10	0.988	0.372	0.995	0.996			
34	1.036	0.371	1.013	1.014			
36	1.005	0.187	1.001	1.002			
37	0.988	0.507	0.994	0.994			
CLASS GROUP					(5) INDICATED MULTISTATE MONOLINE CHANGE	(6) INDICATED STATEWIDE MONOLINE CHANGE#*	(7) SELECTED STATEWIDE MONOLINE CHANGE
3	0.924	0.500	0.961	0.965	- 13.9%	- 10.0%	- 10.0%
4	1.048	0.406	1.019	1.024	- 8.7%	- 6.6%	- 6.6%
5	1.107	0.132	1.014	1.018	- 9.2%	- 2.2%	- 2.2%
6	1.007	0.320	1.002	1.006	- 10.2%	- 12.7%	- 12.7%
7	1.006	0.182	1.001	1.005	- 10.3%	- 12.0%	- 12.0%
			OVERALL MONOLINE INDICATION		- 10.8%	- 9.7%	- 9.7%
			-----		-----	-----	-----

# 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  
-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1) CALENDAR A.Y.E. 12/31/2017 AGGREGATE LOSS COSTS AT CURRENT LEVEL	(2) CALENDAR A.Y.E. 2013 - 2017 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	\$18,227,491	\$79,500,211	0.856	0.869	1,461	0.961
	04 DLR, DST-NOTFD/DRG	9,616,743	42,155,667	1.119	1.136	640	1.019
	05 MAN.NTFD/DRG (LOW)	1,605,615	6,748,634	1.039	1.055	84	1.014
	06 MAN.NTFD/DRG (MED)	9,640,686	42,498,903	0.958	0.972	466	1.002
	07 MAN.NTFD/DRG (HGH)	2,568,561	11,286,663	1.018	1.033	129	1.001
	TOTAL *	\$41,659,096	\$182,190,078	0.957		2,780	
34 MULT MERCANTILE	03 MAN, DLR, DSTFD/DRG	\$5,166,155	\$25,851,441	1.131	1.148	791	0.979
	04 DLR, DST-NOTFD/DRG	29,011,611	140,165,685	1.037	1.052	1,972	1.038
	06 MAN.NTFD/DRG (MED)	7,625	57,567	0.000	0.000	0	1.020
	TOTAL *	\$34,185,391	\$166,074,693	1.051		2,763	
36 MULT SERVICES	04 DLR, DST-NOTFD/DRG	\$3,197,904	\$14,609,890	1.041	1.057	699	1.025
	06 MAN.NTFD/DRG (MED)	54,898	258,512	0.781	0.793	1	1.008
	TOTAL *	\$3,252,802	\$14,868,402	1.037		700	
37 MULT INDUST/PROC.	03 MAN, DLR, DSTFD/DRG	\$16,474,514	\$81,117,947	0.888	0.901	2,761	0.960
	05 MAN.NTFD/DRG (LOW)	4,070,679	20,897,437	1.092	1.108	269	1.012
	06 MAN.NTFD/DRG (MED)	28,248,516	131,744,418	0.987	1.002	1,582	1.001
	07 MAN.NTFD/DRG (HGH)	7,346,721	36,933,393	0.965	0.980	537	1.000
	TOTAL *	\$56,140,430	\$270,693,195	0.963		5,149	
TOTAL ALL TOP	03 MAN, DLR, DSTFD/DRG	\$39,868,160	\$186,469,599	0.905		5,013	
	04 DLR, DST-NOTFD/DRG	41,826,258	196,931,242	1.056		3,311	
	05 MAN.NTFD/DRG (LOW)	5,676,294	27,646,071	1.077		353	
	06 MAN.NTFD/DRG (MED)	37,951,725	174,559,400	0.979		2,049	
	07 MAN.NTFD/DRG (HGH)	9,915,282	48,220,056	0.979		666	
	TOTAL *	\$135,237,719	\$633,826,368	0.985		11,392	

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



MICHIGAN  
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 1.023 OR + 2.3%				
TOP									
10	0.966	0.748	0.975	0.972					
34	0.964	0.540	0.981	0.977					
36	0.992	0.515	0.996	0.992					
37	0.964	0.137	0.995	0.992					
38	1.026	0.954	1.025	1.021					
					(5) INDICATED MULTISTATE MONOLINE CHANGE	(6) INDICATED STATEWIDE MONOLINE CHANGE#*	(7) SELECTED STATEWIDE MONOLINE CHANGE		
CLASS GROUP									
1	0.916	0.549	0.953	0.948	- 5.3%	- 5.7%	- 5.7%		
2	1.035	0.493	1.017	1.012	+ 0.1%	+ 0.5%	+ 0.5%		
11	1.102	0.352	1.035	1.029	+ 2.0%	+ 6.9%	+ 5.3%		
12	1.015	1.000	1.015	1.009	0.0%	- 0.1%	- 0.1%		
13	0.793	0.264	0.941	0.935	- 7.2%	- 6.7%	- 6.1%		
			OVERALL MONOLINE INDICATION		- 0.6%	- 0.5%	- 0.5%		

# 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 \*

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STATE	(1) BAILEY FORMULA RELATIV	(2) CREDIBILITY Z	(3) Z-WTD RELATIV	(4) BALANCED RELATIV.	(5) INDICATED ** MONOLINE CHG.	(6) SELECTED MONOLINE CHG.
	1.422	0.386	1.146	1.145		
	1.207	0.623	1.124	1.124		
	1.428	0.229	1.085	1.085		
	1.148	0.427	1.061	1.061		
	1.417	0.160	1.057	1.057		
	1.441	0.153	1.057	1.057		
	1.212	0.263	1.052	1.052		
	1.099	0.505	1.049	1.049		
	1.138	0.345	1.046	1.046		
	1.125	0.368	1.044	1.044		
	1.194	0.231	1.042	1.042		
	1.131	0.326	1.041	1.041		
	1.176	0.239	1.040	1.039		
	1.152	0.224	1.032	1.032		
	1.067	0.435	1.029	1.029		
	1.055	0.453	1.024	1.024		
	1.261	0.100	1.023	1.023		
	1.092	0.227	1.020	1.020		
	1.051	0.369	1.018	1.018		
	1.103	0.187	1.019	1.018		
	1.093	0.192	1.017	1.017		
	1.040	0.307	1.012	1.012		
	1.021	0.449	1.010	1.009		
	1.029	0.143	1.004	1.004		
	1.004	0.494	1.002	1.002		
	1.006	0.131	1.001	1.001		
Michigan	0.999	0.377	1.000	0.999	-0.5%	-0.5%
	0.996	0.097	1.000	0.999		
	0.995	0.402	0.998	0.998		
	0.978	0.190	0.996	0.996		
	0.967	0.458	0.985	0.985		
	0.927	0.241	0.982	0.982		
	0.941	0.349	0.979	0.979		
	0.898	0.260	0.972	0.972		
	0.894	0.285	0.969	0.969		
	0.696	0.104	0.963	0.963		
	0.791	0.160	0.963	0.963		
	0.891	0.364	0.959	0.959		
	0.761	0.154	0.959	0.959		
	0.845	0.288	0.953	0.953		
	0.722	0.158	0.950	0.950		
	0.769	0.195	0.950	0.950		
	0.909	0.547	0.949	0.949		
	0.795	0.238	0.947	0.947		
	0.513	0.084	0.945	0.945		
	0.640	0.136	0.941	0.941		
	0.815	0.308	0.939	0.939		
	0.848	0.470	0.925	0.925		
	0.758	0.321	0.915	0.915		
	0.604	0.179	0.914	0.913		
	0.818	0.527	0.899	0.899		
	0.806	0.575	0.884	0.883		

\* Sorted by balanced relative change.

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

MICHIGAN  
LOCAL PRODUCTS/COMPLETED OPERATIONS  
BASIC LIMIT RELATIVE CHANGE ANALYSIS

-----  
SUMMARY OF EXPERIENCE USED IN RELATIVE CHANGE ANALYSIS

TYPE OF POLICY	CLASS GROUP	(1)	(2)	(3)	(4)	(5)	(6)
		CALENDAR A.Y.E. 12/31/2017 AGGREGATE LOSS COSTS AT CURRENT LEVEL	CALENDAR A.Y.E. 2013 - 2017 AGG LOSS COST CURRENT LEVEL	FIVE YEAR EXPERIENCE RATIO	RELATIV.	NUMBER OF OCCURRENCES	BAL CELL RELATIV.
10 MONOLINE	01 RET.STRS-FOOD/DRG	\$26,927	\$75,790	4.202	3.887	16	0.920
	02 RET.STRS-NTFD/DRG	52,347	152,819	1.198	1.109	10	0.982
	11 COMP. OPS. (LOW)	52,037	249,543	0.363	0.336	11	0.999
	12 COMP. OPS. (MED)	1,253,748	5,016,125	0.922	0.853	111	0.980
	13 COMP. OPS. (HGH)	133,749	769,825	1.217	1.126	6	0.908
	TOTAL *	\$1,518,808	\$6,264,102	0.996		154	
34 MULT MERCANTILE	01 RET.STRS-FOOD/DRG	\$248,571	\$998,455	1.414	1.308	90	0.926
	02 RET.STRS-NTFD/DRG	144,290	577,667	0.956	0.885	17	0.988
	12 COMP. OPS. (MED)	45,683	200,341	0.298	0.276	1	0.986
	TOTAL *	\$438,544	\$1,776,463	1.147		108	
36 MULT SERVICES	01 RET.STRS-FOOD/DRG	\$15,619	\$78,804	2.533	2.343	3	0.940
	02 RET.STRS-NTFD/DRG	324,151	1,334,924	2.029	1.878	102	1.003
	11 COMP. OPS. (LOW)	59,837	308,876	0.897	0.830	19	1.021
	12 COMP. OPS. (MED)	84,944	456,650	1.771	1.639	17	1.001
	13 COMP. OPS. (HGH)	49,275	208,185	1.179	1.091	15	0.928
	TOTAL *	\$533,826	\$2,387,439	1.798		156	
37 MULT INDUST/PROC.	01 RET.STRS-FOOD/DRG	\$7	\$127	0.000	0.000	0	0.940
	11 COMP. OPS. (LOW)	2,572	13,159	0.963	0.891	1	1.020
	12 COMP. OPS. (MED)	55,219	251,472	2.524	2.335	10	1.000
	13 COMP. OPS. (HGH)	276	922	0.000	0.000	0	0.927
	TOTAL *	\$58,074	\$265,680	2.443		11	
38 MULT CONTRACTORS	11 COMP. OPS. (LOW)	\$218,322	\$949,425	1.004	0.929	21	1.050
	12 COMP. OPS. (MED)	3,598,598	15,231,339	0.888	0.821	300	1.030
	13 COMP. OPS. (HGH)	377,438	1,599,676	2.049	1.895	32	0.955
	TOTAL *	\$4,194,358	\$17,780,440	0.998		353	
TOTAL ALL TOP	01 RET.STRS-FOOD/DRG	\$291,124	\$1,153,176	1.731		109	
	02 RET.STRS-NTFD/DRG	520,788	2,065,410	1.649		129	
	11 COMP. OPS. (LOW)	332,768	1,521,003	0.884		52	
	12 COMP. OPS. (MED)	5,038,192	21,155,927	0.924		439	
	13 COMP. OPS. (HGH)	560,738	2,578,608	1.773		53	
	TOTAL *	\$6,743,610	\$28,474,124	1.083		782	

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

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

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MICHIGAN  
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
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MONOLINE	06/30/2016	\$4,556,640		1.000		1.130				\$5,149,003
	06/30/2017	4,610,589		1.000		1.101				5,076,259
	06/30/2018	4,884,676		1.018		1.074				5,340,573
MULTILINE	06/30/2016	\$11,527,442		1.000		1.120		0.982		\$12,678,342
	06/30/2017	12,535,152		1.000		1.096		0.982		13,491,233
	06/30/2018	12,907,323		1.018		1.070		0.984		13,834,480
TOTAL	06/30/2016									\$17,827,345
	06/30/2017									18,567,492
	06/30/2018									19,175,053

+ 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 12/01/2019 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.

MICHIGAN  
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	06/30/2016	\$2,702,753		0.963		1.085		1.242		0.976		\$3,423,212
		06/30/2017	2,718,899		1.140		1.085		1.188		0.981		3,919,342
		06/30/2018	1,830,643		1.640		1.085		1.137		0.985		3,648,161
BI	ALAE	06/30/2016	\$1,800,092				1.085		1.242		0.976		\$2,367,532
		06/30/2017	3,261,288				1.085		1.188		0.981		4,123,864
		06/30/2018	1,792,782				1.085		1.137		0.985		2,178,482
PD	B/L INDEMNITY	06/30/2016	\$3,131,921		1.029		1.085		1.242		0.976		\$4,238,648
		06/30/2017	4,078,109		1.057		1.085		1.188		0.981		5,450,659
		06/30/2018	3,792,992		1.126		1.085		1.137		0.985		5,189,754
PD	ALAE	06/30/2016	\$662,078				1.085		1.242		0.976		\$870,784
		06/30/2017	877,101				1.085		1.188		0.981		1,109,085
		06/30/2018	684,536				1.085		1.137		0.985		831,807
MED PAY#	B/L INDEMNITY	06/30/2016	\$124,374				1.085		1.242		0.976		\$163,580
		06/30/2017	98,627				1.085		1.188		0.981		124,713
		06/30/2018	114,148				1.085		1.137		0.985		138,706
FRINGE	B/L INDEMNITY	06/30/2016	\$347,323		1.060		1.085		1.025		0.976		\$399,616
		06/30/2017	188,650		1.143		1.085		1.020		0.981		234,100
		06/30/2018	357,025		1.508		1.085		1.015		0.985		584,026
FRINGE	ALAE	06/30/2016	\$719,248				1.085		1.025		0.976		\$780,696
		06/30/2017	206,016				1.085		1.020		0.981		223,666
		06/30/2018	1,681,682				1.085		1.015		0.985		1,824,214
	TOTAL FULL COVERAGE	06/30/2016											\$12,244,068
		06/30/2017											15,185,428
		06/30/2018											14,395,149

\* 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.

MICHIGAN  
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	06/30/2016	\$793,319		1.143		1.085		1.242		0.976		\$1,192,601
		06/30/2017	133,414		1.482		1.085		1.188		0.981		250,014
		06/30/2018	251,821		2.432		1.085		1.137		0.985		744,187
BI	ALAE	06/30/2016	\$316,263				1.085		1.242		0.976		\$415,958
		06/30/2017	68,736				1.085		1.188		0.981		86,916
		06/30/2018	602,791				1.085		1.137		0.985		732,476
PD	B/L INDEMNITY	06/30/2016	\$1,023,958		1.048		1.085		1.242		0.976		\$1,411,382
		06/30/2017	648,901		1.095		1.085		1.188		0.981		898,479
		06/30/2018	1,153,786		1.206		1.085		1.137		0.985		1,690,826
PD	ALAE	06/30/2016	\$288,244				1.085		1.242		0.976		\$379,107
		06/30/2017	100,865				1.085		1.188		0.981		127,543
		06/30/2018	393,052				1.085		1.137		0.985		477,613
MED PAY#	B/L INDEMNITY	06/30/2016	\$10,203				1.085		1.242		0.976		\$13,419
		06/30/2017	22,070				1.085		1.188		0.981		27,907
		06/30/2018	15,768				1.085		1.137		0.985		19,160
	TOTAL DED COVERAGE	06/30/2016											\$3,412,467
		06/30/2017											1,390,859
		06/30/2018											3,664,262
	TOTAL	06/30/2016											\$15,656,535
		06/30/2017											16,576,287
		06/30/2018											18,059,412

\* 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.



MICHIGAN  
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	06/30/2016	\$4,518,339		1.000		1.012				\$4,572,559
	06/30/2017	5,081,509		1.000		1.009				5,127,243
	06/30/2018	5,484,789		1.003		1.006				5,534,251
MULTILINE	06/30/2016	\$14,184,906		1.000		1.021		0.953		\$13,802,098
	06/30/2017	14,658,822		1.000		1.018		0.953		14,221,315
	06/30/2018	15,307,416		1.003		1.013		0.952		14,806,391
TOTAL	06/30/2016									\$18,374,657
	06/30/2017									19,348,558
	06/30/2018									20,340,642

+ 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 12/01/2019 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.

MICHIGAN  
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	06/30/2016	\$7,127,332		0.965		1.085		1.184		0.952		\$8,411,485
		06/30/2017	6,868,870		1.003		1.085		1.144		0.961		8,217,986
		06/30/2018	7,035,426		1.159		1.085		1.106		0.971		9,501,188
BI	ALAE	06/30/2016	\$3,414,544				1.085		1.184		0.952		\$4,175,910
		06/30/2017	3,143,584				1.085		1.144		0.961		3,749,766
		06/30/2018	4,112,468				1.085		1.106		0.971		4,791,888
PD	B/L INDEMNITY	06/30/2016	\$954,269		1.006		1.085		1.242		0.952		\$1,231,564
		06/30/2017	850,676		1.076		1.085		1.188		0.961		1,133,825
		06/30/2018	655,657		1.120		1.085		1.137		0.971		879,638
PD	ALAE	06/30/2016	\$754,256				1.085		1.242		0.952		\$967,625
		06/30/2017	997,041				1.085		1.188		0.961		1,235,044
		06/30/2018	502,987				1.085		1.137		0.971		602,513
MED PAY#	B/L INDEMNITY	06/30/2016	\$966,944				1.085		1.184		0.952		\$1,182,551
		06/30/2017	1,009,045				1.085		1.144		0.961		1,203,621
		06/30/2018	1,353,797				1.085		1.106		0.971		1,577,457
FRINGE	B/L INDEMNITY	06/30/2016	\$234,564		1.084		1.085		1.076		0.952		\$282,598
		06/30/2017	122,675		1.320		1.085		1.060		0.961		178,974
		06/30/2018	116,477		1.731		1.085		1.044		0.971		221,762
FRINGE	ALAE	06/30/2016	\$1,371,322				1.085		1.076		0.952		\$1,524,117
		06/30/2017	227,457				1.085		1.060		0.961		251,396
		06/30/2018	326,296				1.085		1.044		0.971		358,890
	TOTAL FULL COVERAGE	06/30/2016											\$17,775,850
		06/30/2017											15,970,612
		06/30/2018											17,933,336

\* 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.

MICHIGAN  
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	06/30/2016	\$584,382		1.044		1.085		1.184		0.952		\$746,132
		06/30/2017	1,001,080		1.196		1.085		1.144		0.961		1,428,167
		06/30/2018	1,152,785		1.563		1.085		1.106		0.971		2,099,478
BI	ALAE	06/30/2016	\$300,081				1.085		1.184		0.952		\$366,992
		06/30/2017	475,606				1.085		1.144		0.961		567,318
		06/30/2018	601,002				1.085		1.106		0.971		700,293
PD	B/L INDEMNITY	06/30/2016	\$62,980		1.163		1.085		1.242		0.952		\$93,966
		06/30/2017	41,380		1.199		1.085		1.188		0.961		61,458
		06/30/2018	30,262		1.274		1.085		1.137		0.971		46,182
PD	ALAE	06/30/2016	\$16,144				1.085		1.242		0.952		\$20,711
		06/30/2017	16,401				1.085		1.188		0.961		20,316
		06/30/2018	15,518				1.085		1.137		0.971		18,589
MED PAY#	B/L INDEMNITY	06/30/2016	\$40,976				1.085		1.184		0.952		\$50,113
		06/30/2017	37,817				1.085		1.144		0.961		45,109
		06/30/2018	51,618				1.085		1.106		0.971		60,146
	TOTAL DED COVERAGE	06/30/2016											\$1,277,914
		06/30/2017											2,122,369
		06/30/2018											2,924,688
	TOTAL	06/30/2016											\$19,053,764
		06/30/2017											18,092,981
		06/30/2018											20,858,025

\* 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.

MICHIGAN  
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	1.009
34	Mercantile Policy	1.294
35	Institutional Policy	0.670
36	Service Policy	1.071
37	Industrial/Processing Policy	0.834
38	Contractors Policy	0.982

- (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.

MICHIGAN  
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	0.909
32	Apartment House Policy	0.981
33	Office Policy	0.946
34	Mercantile Policy	0.980
35	Institutional Policy	0.956
36	Service Policy	0.866
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.

MICHIGAN

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	1.023	1.016	0.7673	1.018	30,000,000
27 to 39 Months	1.000	1.000	0.5492	1.000	80,000,000
Accident Year Ending	Exposure Development From				
	<u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>		<u>Factor</u>
6/30/2016			1.000		1.000
6/30/2017		1.000	1.000		1.000
6/30/2018	1.018	1.000	1.000		1.018

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

MICHIGAN

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	1.003	1.003	0.7677	1.003	40,000,000
27 to 39 Months	1.000	1.000	0.5181	1.000	120,000,000
Accident Year Ending	<u>27:15</u>	Exposure Development From <u>39:27</u>	<u>ULT:39</u>		<u>Factor</u>
6/30/2016			1.000		1.000
6/30/2017		1.000	1.000		1.000
6/30/2018	1.003	1.000	1.000		1.003

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

MICHIGAN  
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>
6/30/2011	27,090,371	27,467,648	27,463,156	27,460,704	27,460,347	27,460,347	27,460,347	27,460,345
6/30/2012	27,383,753	27,640,438	27,609,154	27,607,728	27,607,728	27,607,728	27,607,728	
6/30/2013	28,204,403	28,255,986	28,269,288	28,270,417	28,275,978	28,276,022		
6/30/2014	30,632,118	31,076,483	31,027,681	31,021,284	31,016,876			
6/30/2015	32,651,435	33,346,404	33,332,340	33,332,566				
6/30/2016	32,631,916	33,043,747	33,045,820					
6/30/2017	33,612,855	34,344,661						
6/30/2018	35,192,013							

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>
6/30/2011	1.014	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2012	1.009	0.999	1.000	1.000	1.000	1.000	
6/30/2013	1.002	1.000	1.000	1.000	1.000		
6/30/2014	1.015	0.998	1.000	1.000			
6/30/2015	1.021	1.000	1.000				
6/30/2016	1.013	1.000					
6/30/2017	1.022						
6/30/2018							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.016	1.000



MICHIGAN  
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>
6/30/2011	38,492,791	38,692,603	38,699,607	38,700,631	38,700,674	38,700,422	38,700,422	38,700,422
6/30/2012	37,580,374	37,734,744	37,743,914	37,744,707	37,740,588	37,740,762	37,740,762	
6/30/2013	38,317,762	38,442,335	38,438,979	38,436,459	38,434,789	38,440,033		
6/30/2014	40,541,196	40,746,238	40,700,358	40,697,868	40,717,605			
6/30/2015	43,095,837	43,213,741	43,213,205	43,210,136				
6/30/2016	44,929,654	45,068,190	45,063,669					
6/30/2017	44,164,920	44,324,013						
6/30/2018	43,994,146							

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>
6/30/2011	1.005	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2012	1.004	1.000	1.000	1.000	1.000	1.000	
6/30/2013	1.003	1.000	1.000	1.000	1.000		
6/30/2014	1.005	0.999	1.000	1.000			
6/30/2015	1.003	1.000	1.000				
6/30/2016	1.003	1.000					
6/30/2017	1.004						
6/30/2018							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.003	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>
6/30/2011	1,312,718,718	1,327,807,591	1,328,415,777	1,328,304,991	1,328,274,438	1,328,175,650	1,328,174,240	1,328,165,289
6/30/2012	1,339,272,405	1,361,470,305	1,361,140,553	1,361,042,432	1,361,188,850	1,361,434,589	1,361,420,081	
6/30/2013	1,399,138,388	1,427,087,228	1,426,711,141	1,426,813,275	1,426,893,574	1,426,883,496		
6/30/2014	1,447,749,770	1,485,724,877	1,484,136,106	1,483,926,269	1,483,848,357			
6/30/2015	1,513,109,236	1,547,472,737	1,547,165,905	1,547,150,233				
6/30/2016	1,511,498,528	1,546,157,045	1,543,873,060					
6/30/2017	1,561,838,709	1,599,344,880						
6/30/2018	1,635,697,449							

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>
6/30/2011	1.011	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2012	1.017	1.000	1.000	1.000	1.000	1.000	
6/30/2013	1.020	1.000	1.000	1.000	1.000		
6/30/2014	1.026	0.999	1.000	1.000			
6/30/2015	1.023	1.000	1.000				
6/30/2016	1.023	0.999					
6/30/2017	1.024						
6/30/2018							

Average Best 3 of 5  
27:15      39:27  
1.023      1.000

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>
6/30/2011	1,635,457,753	1,643,623,871	1,644,962,979	1,644,927,371	1,644,907,647	1,644,946,380	1,644,943,728	1,644,944,640
6/30/2012	1,630,149,072	1,642,523,537	1,642,543,597	1,642,504,687	1,642,390,082	1,642,395,230	1,642,557,825	
6/30/2013	1,720,801,499	1,730,717,615	1,730,735,009	1,729,491,016	1,729,814,216	1,729,682,434		
6/30/2014	1,790,583,337	1,796,521,351	1,794,361,804	1,795,337,208	1,795,394,388			
6/30/2015	1,908,748,498	1,911,908,028	1,911,741,253	1,911,580,189				
6/30/2016	2,023,036,283	2,029,344,928	2,028,117,568					
6/30/2017	2,073,006,980	2,075,915,568						
6/30/2018	2,106,390,997							

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>
6/30/2011	1.005	1.001	1.000	1.000	1.000	1.000	1.000
6/30/2012	1.008	1.000	1.000	1.000	1.000	1.000	
6/30/2013	1.006	1.000	0.999	1.000	1.000		
6/30/2014	1.003	0.999	1.001	1.000			
6/30/2015	1.002	1.000	1.000				
6/30/2016	1.003	0.999					
6/30/2017	1.001						
6/30/2018							

Average Best 3 of 5  
27:15      39:27  
1.003      1.000

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MICHIGAN

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	1.552	1.402	0.7592	1.438	1,600,000
27 to 39 Months	1.293	1.154	0.7841	1.184	1,800,000
39 to 51 Months	1.064	1.003	0.7837	1.016	2,100,000
51 to 63 Months	0.995	0.971	0.7786	0.976	2,500,000
63 to 75 Months	0.991	0.979	0.7513	0.982	2,900,000
75 to 87 Months	0.998	0.990	0.7386	0.992	3,400,000
87 to 99 Months	0.997	1.000	0.7101	0.999	4,000,000
99 to 111 Months	0.997	1.000	0.6744	0.999	4,600,000
111 to 123 Months	0.999	1.000	0.6309	1.000	5,400,000
123 to 135 Months	1.000	1.000	0.5879	1.000	6,300,000
135 to 147 Months	1.001	1.000	0.5642	1.000	7,300,000
147 to 159 Months	1.000	1.000	0.5213	1.000	8,600,000
159 to 171 Months	0.999	1.000	0.4935	0.999	10,000,000
171 to 183 Months	1.000	1.000	0.4242	1.000	11,700,000
183 to 195 Months	1.000	1.000	0.4522	1.000	13,700,000
195 to 207 Months	1.000	1.000	0.4059	1.000	16,100,000
207 to 219 Months	1.000	1.000	0.4224	1.000	18,900,000
219 to 231 Months	1.000	1.000	0.2777	1.000	22,100,000
231 to 243 Months	1.000	1.000	0.1630	1.000	26,000,000
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
6/30/2016			1.016	0.976	0.982	0.992	0.999	0.999	1.000	1.000	1.000
6/30/2017		1.184	1.016	0.976	0.982	0.992	0.999	0.999	1.000	1.000	1.000
6/30/2018	1.438	1.184	1.016	0.976	0.982	0.992	0.999	0.999	1.000	1.000	1.000
					</						

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

MICHIGAN

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	0.0669	0.1026	0.7592	0.0940	1,600,000
27 to 39 Months	0.1039	0.1160	0.7841	0.1134	1,800,000
39 to 51 Months	0.0860	0.0970	0.7837	0.0947	2,100,000
51 to 63 Months	0.0473	0.0331	0.7786	0.0363	2,500,000
63 to 75 Months	0.0297	0.0038	0.7513	0.0103	2,900,000
75 to 87 Months	0.0127	-0.0025	0.7386	0.0015	3,400,000
87 to 99 Months	0.0074	-0.0005	0.7101	0.0018	4,000,000
99 to 111 Months	0.0035	0.0000	0.6744	0.0011	4,600,000
111 to 123 Months	0.0025	0.0000	0.6309	0.0009	5,400,000
123 to 135 Months	0.0011	0.0000	0.5879	0.0004	6,300,000
135 to 147 Months	0.0010	0.0000	0.5642	0.0004	7,300,000
147 to 159 Months	0.0022	0.0000	0.5213	0.0010	8,600,000
159 to 171 Months	0.0013	0.0000	0.4935	0.0007	10,000,000
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>
	0.356	0.262	0.149	0.054	0.018	0.008	0.006
<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	0.003	0.003	0.002	0.002	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	1,161,206	4,287,839	0.149	638,886	1,800,092
6/30/2017	1,448,256	6,919,983	0.262	1,813,032	3,261,288
6/30/2018	292,646	4,213,860	0.356	1,500,136	1,792,782

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	180,024	914,365	0.149	136,239	316,263
6/30/2017	20,289	184,913	0.262	48,447	68,736
6/30/2018	77,859	1,474,527	0.356	524,932	602,791

(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)}}

MICHIGAN

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	1.100	1.055	0.7872	1.065	2,700,000
27 to 39 Months	1.042	1.023	0.7665	1.027	2,800,000
39 to 51 Months	1.008	1.027	0.7452	1.022	2,900,000
51 to 63 Months	1.008	1.000	0.7359	1.002	3,000,000
63 to 75 Months	1.006	1.000	0.7385	1.002	3,100,000
75 to 87 Months	1.006	0.986	0.7424	0.991	3,200,000
87 to 99 Months	1.006	1.001	0.7390	1.002	3,300,000
99 to 111 Months	1.006	0.999	0.7540	1.001	3,400,000
111 to 123 Months	1.006	1.000	0.7627	1.001	3,500,000
123 to 135 Months	1.001	1.000	0.7447	1.000	3,600,000
135 to 147 Months	1.002	1.000	0.7384	1.001	3,700,000
147 to 159 Months	1.002	1.000	0.7411	1.001	3,800,000
159 to 171 Months	1.002	1.000	0.7449	1.001	3,900,000
171 to 183 Months	1.001	1.000	0.7287	1.000	4,000,000
183 to 195 Months	1.001	1.000	0.7244	1.000	4,100,000
195 to 207 Months	1.000	1.000	0.7241	1.000	4,200,000
207 to 219 Months	1.001	1.000	0.7091	1.000	4,300,000
219 to 231 Months	1.001	1.000	0.5967	1.000	4,400,000
231 to 243 Months	1.001	1.000	0.3774	1.001	4,500,000
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
6/30/2016			1.022	1.002	1.002	0.991	1.002	1.001	1.001	1.000	1.001
6/30/2017		1.027	1.022	1.002	1.002	0.991	1.002	1.001	1.001	1.000	1.001
6/30/2018	1.065	1.027	1.022	1.002	1.002	0.991	1.002	1.001	1.001	1.000	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>
6/30/2016	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.004		1.029
6/30/2017	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.004		1.057
6/30/2018	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.004		1.126

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

MICHIGAN

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	0.0471	0.0293	0.7872	0.0331	2,700,000
27 to 39 Months	0.0463	0.0085	0.7665	0.0173	2,800,000
39 to 51 Months	0.0390	0.0067	0.7452	0.0149	2,900,000
51 to 63 Months	0.0287	0.0091	0.7359	0.0143	3,000,000
63 to 75 Months	0.0157	0.0011	0.7385	0.0049	3,100,000
75 to 87 Months	0.0111	0.0061	0.7424	0.0074	3,200,000
87 to 99 Months	0.0097	0.0005	0.7390	0.0029	3,300,000
99 to 111 Months	0.0122	0.0016	0.7540	0.0042	3,400,000
111 to 123 Months	0.0076	0.0035	0.7627	0.0045	3,500,000
123 to 135 Months	0.0056	0.0000	0.7447	0.0014	3,600,000
135 to 147 Months	0.0050	0.0000	0.7384	0.0013	3,700,000
147 to 159 Months	0.0047	0.0000	0.7411	0.0012	3,800,000
159 to 171 Months	0.0036	0.0000	0.7449	0.0009	3,900,000
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>
	0.108	0.075	0.058	0.043	0.029	0.024	0.016
<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>
	0.014	0.009	0.005	0.003	0.002	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	435,695	3,903,100	0.058	226,383	662,078
6/30/2017	491,262	5,144,486	0.075	385,839	877,101
6/30/2018	157,686	4,878,241	0.108	526,850	684,536

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	199,539	1,529,390	0.058	88,705	288,244
6/30/2017	48,984	691,729	0.075	51,881	100,865
6/30/2018	193,309	1,849,497	0.108	199,743	393,052

(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)}}



MICHIGAN

Premises/Operations

Manufacturers & Contractors

Fringe

Full Coverage

ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.1735
27 to 39 Months	0.2184
39 to 51 Months	0.2001
51 to 63 Months	0.1335
63 to 75 Months	0.0667
75 to 87 Months	0.0477
87 to 99 Months	0.0181
99 to 111 Months	0.0163
111 to 123 Months	0.0131
123 to 135 Months	0.0035
135 to 147 Months	0.0016
147 to 159 Months	0.0008
159 to 171 Months	0.0088
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>
	0.902	0.729	0.510	0.310	0.177	0.110	0.062

  

<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>
	0.044	0.028	0.015	0.011	0.010	0.009	0.000

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	377,527	670,044	0.510	341,721	719,248
6/30/2017	12,929	264,865	0.729	193,087	206,016
6/30/2018	9,671	1,853,671	0.902	1,672,011	1,681,682

(A) See Section E - Multistate Loss Development.

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

MICHIGAN

Premises/Operations

Owners, Landlords & Tenants

Bodily Injury

Full Coverage

Incurred Losses excluding ALAE

Calculation of Loss Development Factors

(1) EVALUATION PERIOD	(2) MULTISTATE RATIO (A)	(3) STATE RATIO (B)	(4) CREDIBILITY (C)	(5) WEIGHTED RATIO (D)	Credibility Constant (Ki)
15 to 27 Months	1.338	1.136	0.9027	1.156	1,600,000
27 to 39 Months	1.146	1.027	0.8996	1.039	2,200,000
39 to 51 Months	1.028	1.012	0.8721	1.014	2,900,000
51 to 63 Months	0.993	0.961	0.8406	0.966	3,800,000
63 to 75 Months	0.991	0.992	0.8012	0.992	5,000,000
75 to 87 Months	0.993	1.000	0.7833	0.998	6,600,000
87 to 99 Months	0.996	0.997	0.7613	0.997	8,700,000
99 to 111 Months	0.998	0.996	0.7026	0.997	11,500,000
111 to 123 Months	1.000	1.000	0.6221	1.000	15,300,000
123 to 135 Months	1.000	1.000	0.5278	1.000	20,300,000
135 to 147 Months	1.000	1.000	0.4419	1.000	26,900,000
147 to 159 Months	1.000	1.000	0.3645	1.000	35,600,000
159 to 171 Months	1.001	1.000	0.2986	1.001	47,400,000
171 to 183 Months	1.000	1.000	0.2514	1.000	62,900,000
183 to 195 Months	1.000	1.000	0.2262	1.000	83,600,000
195 to 207 Months	1.000	1.000	0.1976	1.000	111,200,000
207 to 219 Months	1.000	1.000	0.1826	1.000	147,900,000
219 to 231 Months	1.000	1.000	0.1050	1.000	197,000,000
231 to 243 Months	1.000	1.000	0.0481	1.000	262,500,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year Ending	27:15	Loss Development From									
		39:27	51:39	63:51	75:63	87:75	99:87	111:99	123:111	135:123	147:135
6/30/2016			1.014	0.966	0.992	0.998	0.997	0.997	1.000	1.000	1.000
6/30/2017		1.039	1.014	0.966	0.992	0.998	0.997	0.997	1.000	1.000	1.000
6/30/2018	1.156	1.039	1.014	0.966	0.992	0.998	0.997	0.997	1.000	1.000	1.000
		159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243	Factor
6/30/2016	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.965
6/30/2017	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.003
6/30/2018	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.159

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

MICHIGAN

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	0.0737	0.0984	0.9027	0.0960	1,600,000
27 to 39 Months	0.0841	0.0730	0.8996	0.0741	2,200,000
39 to 51 Months	0.0601	0.0563	0.8721	0.0568	2,900,000
51 to 63 Months	0.0287	0.0204	0.8406	0.0217	3,800,000
63 to 75 Months	0.0128	0.0063	0.8012	0.0076	5,000,000
75 to 87 Months	0.0064	0.0002	0.7833	0.0015	6,600,000
87 to 99 Months	0.0030	0.0007	0.7613	0.0012	8,700,000
99 to 111 Months	0.0035	0.0005	0.7026	0.0014	11,500,000
111 to 123 Months	0.0016	0.0007	0.6221	0.0011	15,300,000
123 to 135 Months	0.0011	0.0000	0.5278	0.0005	20,300,000
135 to 147 Months	0.0008	0.0000	0.4419	0.0005	26,900,000
147 to 159 Months	0.0014	0.0000	0.3645	0.0009	35,600,000
159 to 171 Months	0.0014	0.0000	0.2986	0.0010	47,400,000
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>
	0.264	0.168	0.094	0.037	0.016	0.008	0.007
<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	0.003	0.002	0.002	0.001	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	2,445,758	10,306,221	0.094	968,786	3,414,544
6/30/2017	1,428,756	10,207,303	0.168	1,714,828	3,143,584
6/30/2018	978,279	11,871,906	0.264	3,134,189	4,112,468

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	194,962	1,118,312	0.094	105,119	300,081
6/30/2017	261,188	1,276,305	0.168	214,418	475,606
6/30/2018	166,013	1,647,687	0.264	434,989	601,002

(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)}}

MICHIGAN

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	1.102	1.014	0.6949	1.041	900,000
27 to 39 Months	1.038	1.090	0.6239	1.070	1,100,000
39 to 51 Months	1.027	0.974	0.5961	0.995	1,200,000
51 to 63 Months	1.010	0.961	0.5716	0.982	1,400,000
63 to 75 Months	1.007	1.001	0.5699	1.004	1,500,000
75 to 87 Months	1.008	1.000	0.5559	1.004	1,800,000
87 to 99 Months	1.005	1.000	0.5573	1.002	2,000,000
99 to 111 Months	1.005	1.000	0.5508	1.002	2,200,000
111 to 123 Months	1.002	1.000	0.5368	1.001	2,600,000
123 to 135 Months	1.002	1.000	0.4775	1.001	2,900,000
135 to 147 Months	1.000	1.000	0.4044	1.000	3,400,000
147 to 159 Months	0.999	1.000	0.3280	0.999	3,800,000
159 to 171 Months	1.000	1.000	0.3255	1.000	4,400,000
171 to 183 Months	1.002	1.000	0.3286	1.001	5,000,000
183 to 195 Months	1.001	1.000	0.3354	1.001	5,700,000
195 to 207 Months	1.002	1.000	0.3242	1.001	6,500,000
207 to 219 Months	1.002	1.000	0.3140	1.001	7,500,000
219 to 231 Months	1.002	1.000	0.2157	1.002	8,600,000
231 to 243 Months	1.002	1.000	0.1164	1.002	9,900,000
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
6/30/2016			0.995	0.982	1.004	1.004	1.002	1.002	1.001	1.001	1.000
6/30/2017		1.070	0.995	0.982	1.004	1.004	1.002	1.002	1.001	1.001	1.000
6/30/2018	1.041	1.070	0.995	0.982	1.004	1.004	1.002	1.002	1.001	1.001	1.000
		159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243	Factor
6/30/2016	0.999	1.000	1.001	1.001	1.001	1.001	1.002	1.002	1.008		1.006
6/30/2017	0.999	1.000	1.001	1.001	1.001	1.001	1.002	1.002	1.008		1.076
6/30/2018	0.999	1.000	1.001	1.001	1.001	1.001	1.002	1.002	1.008		1.120

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

MICHIGAN

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	0.0760	0.1172	0.6949	0.1047	900,000
27 to 39 Months	0.0962	0.1543	0.6239	0.1325	1,100,000
39 to 51 Months	0.0664	0.1030	0.5961	0.0883	1,200,000
51 to 63 Months	0.0489	0.0407	0.5716	0.0442	1,400,000
63 to 75 Months	0.0327	0.0258	0.5699	0.0287	1,500,000
75 to 87 Months	0.0218	0.0032	0.5559	0.0115	1,800,000
87 to 99 Months	0.0166	0.0000	0.5573	0.0074	2,000,000
99 to 111 Months	0.0148	0.0049	0.5508	0.0094	2,200,000
111 to 123 Months	0.0182	0.0011	0.5368	0.0090	2,600,000
123 to 135 Months	0.0091	0.0002	0.4775	0.0049	2,900,000
135 to 147 Months	0.0038	0.0000	0.4044	0.0023	3,400,000
147 to 159 Months	0.0012	0.0000	0.3280	0.0008	3,800,000
159 to 171 Months	0.0002	0.0000	0.3255	0.0002	4,400,000
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>
	0.444	0.339	0.206	0.118	0.074	0.045	0.034
<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>
	0.026	0.017	0.008	0.003	0.001	0.000	0.000

Full Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	476,758	1,347,073	0.206	277,498	754,256
6/30/2017	458,277	1,589,273	0.339	538,764	997,041
6/30/2018	133,526	832,115	0.444	369,461	502,987

Deductible Coverage

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	2,482	66,317	0.206	13,662	16,144
6/30/2017	564	46,720	0.339	15,837	16,401
6/30/2018	0	34,953	0.444	15,518	15,518

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

MICHIGAN

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	0.2007
27 to 39 Months	0.2033
39 to 51 Months	0.2443
51 to 63 Months	0.1621
63 to 75 Months	0.1048
75 to 87 Months	0.0564
87 to 99 Months	0.0329
99 to 111 Months	0.0069
111 to 123 Months	0.0186
123 to 135 Months	0.0064
135 to 147 Months	0.0024
147 to 159 Months	0.0168
159 to 171 Months	0.0008
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>
	1.056	0.856	0.652	0.408	0.246	0.141	0.085
<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>
	0.052	0.045	0.026	0.020	0.018	0.001	0.000

A.Y.E.	Reported ALAE as of 9/30/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	Ultimate ALAE
6/30/2016	953,814	640,349	0.652	417,508	1,371,322
6/30/2017	49,466	207,934	0.856	177,991	227,457
6/30/2018	30,358	280,244	1.056	295,938	326,296

(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  
MICHIGAN  
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
6/30/1999	2,096,043	3,906,181	4,409,759	5,331,153	5,393,365	5,208,822	5,064,322	5,067,322	5,064,137	5,095,324	5,064,037
6/30/2000	2,140,190	3,710,030	4,130,463	3,749,997	3,571,673	3,578,208	3,541,173	3,440,988	3,440,988	3,440,988	3,440,988
6/30/2001	2,583,842	4,470,668	5,628,546	5,748,655	5,560,732	5,439,695	5,336,260	5,326,260	5,326,259	5,326,259	5,326,259
6/30/2002	1,635,292	2,866,084	2,658,841	2,356,831	2,260,462	2,175,602	2,175,662	2,175,662	2,175,662	2,175,662	2,241,525
6/30/2003	1,631,607	3,075,719	3,527,315	3,826,346	3,846,790	3,740,948	3,740,948	3,740,948	3,740,948	3,740,948	3,740,948
6/30/2004	1,352,803	1,909,247	2,649,413	2,692,766	2,627,102	2,636,252	2,636,252	2,636,252	2,636,252	2,636,252	2,636,252
6/30/2005	1,867,034	2,915,622	3,680,828	3,972,890	3,570,563	3,424,925	3,367,410	3,367,410	3,367,410	3,367,410	3,367,410
6/30/2006	2,530,643	2,894,997	3,361,847	3,484,123	3,393,496	3,363,496	3,363,496	3,363,496	3,363,496	3,363,496	3,363,496
6/30/2007	1,589,567	2,144,147	2,436,448	2,617,660	2,618,653	2,672,293	2,640,293	2,656,313	2,621,671	2,621,671	2,721,671
6/30/2008	2,507,996	3,591,791	3,390,917	3,475,388	2,973,528	3,021,356	3,003,712	3,003,712	3,003,712	3,003,712	3,003,712
6/30/2009	2,530,582	3,665,842	4,443,527	4,277,751	3,812,549	3,686,152	3,606,152	3,603,651	3,603,651	3,603,651	
6/30/2010	2,371,114	3,294,904	3,603,497	3,019,579	2,945,879	2,940,880	2,922,219	2,922,219	2,922,219		
6/30/2011	2,109,955	2,909,410	3,256,042	3,188,352	3,266,161	3,276,056	3,270,056	3,170,056			
6/30/2012	2,248,004	2,779,543	3,404,342	3,438,734	3,489,241	3,387,481	3,331,157				
6/30/2013	1,428,560	2,225,522	2,306,541	2,177,845	2,005,984	1,924,348					
6/30/2014	1,522,325	2,530,887	2,854,508	3,177,580	2,873,291						
6/30/2015	1,518,739	2,099,709	2,445,662	2,491,390							
6/30/2016	1,509,456	1,907,413	2,227,718								
6/30/2017	2,015,343	2,080,371									
6/30/2018	1,553,884										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
6/30/1999	5,064,037	5,064,037	5,064,037	5,064,037	5,064,037	5,064,037	5,064,037	5,064,037	5,064,037
6/30/2000	3,440,988	3,440,988	3,440,988	3,440,988	3,430,988	3,430,988	3,430,988	3,430,988	
6/30/2001	5,326,253	5,326,253	5,326,253	5,326,253	5,326,253	5,326,253	5,326,253		
6/30/2002	2,241,525	2,241,525	2,241,525	2,241,525	2,241,525	2,241,525			
6/30/2003	3,740,948	3,740,948	3,740,948	3,740,948	3,740,948				
6/30/2004	2,636,252	2,636,252	2,636,252	2,636,252					
6/30/2005	3,367,410	3,367,410	3,367,410						
6/30/2006	3,363,496	3,363,496							
6/30/2007	2,721,671								

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

BODILY INJURY - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

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>
6/30/1999	1.864	1.129	1.209	1.012	0.966	0.972	1.001	0.999	1.006	0.994	1.000
6/30/2000	1.734	1.113	0.908	0.952	1.002	0.990	0.972	1.000	1.000	1.000	1.000
6/30/2001	1.730	1.259	1.021	0.967	0.978	0.981	0.998	1.000	1.000	1.000	1.000
6/30/2002	1.753	0.928	0.886	0.959	0.962	1.000	1.000	1.000	1.000	1.030	1.000
6/30/2003	1.885	1.147	1.085	1.005	0.972	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2004	1.411	1.388	1.016	0.976	1.003	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2005	1.562	1.262	1.079	0.899	0.959	0.983	1.000	1.000	1.000	1.000	1.000
6/30/2006	1.144	1.161	1.036	0.974	0.991	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2007	1.349	1.136	1.074	1.000	1.020	0.988	1.006	0.987	1.000	1.038	1.000
6/30/2008	1.432	0.944	1.025	0.856	1.016	0.994	1.000	1.000	1.000	1.000	1.000
6/30/2009	1.449	1.212	0.963	0.891	0.967	0.978	0.999	1.000	1.000	1.000	1.000
6/30/2010	1.390	1.094	0.838	0.976	0.998	0.994	1.000	1.000			
6/30/2011	1.379	1.119	0.979	1.024	1.003	0.998	0.969				
6/30/2012	1.236	1.225	1.010	1.015	0.971	0.983					
6/30/2013	1.558	1.036	0.944	0.921	0.959						
6/30/2014	1.663	1.128	1.113	0.904							
6/30/2015	1.383	1.165	1.019								
6/30/2016	1.264	1.168									
6/30/2017	1.032										

3 Yr Mean 1.226 1.154 1.025 0.947 0.978 0.992 0.989 1.000 1.000 1.013 1.000

Best 3/5 1.402 1.154 1.003 0.971 0.979 0.990 1.000 1.000 1.000 1.000 1.000

A.Y.E.	<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>			
6/30/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
6/30/2000	1.000	1.000	1.000	0.997	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	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2004	1.000	1.000	1.000								
6/30/2005	1.000	1.000									
6/30/2006	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.	<u>15/ 27</u>	<u>27/ 39</u>	<u>39/ 51</u>	<u>51/ 63</u>	<u>63/ 75</u>	<u>75/ 87</u>	<u>87/ 99</u>	<u>99/111</u>	<u>111/123</u>	<u>123/135</u>	<u>135/147</u>
6/30/2014					0.979	0.990	1.000	1.000	1.000	1.000	1.000
6/30/2015				0.971	0.979	0.990	1.000	1.000	1.000	1.000	1.000
6/30/2016			1.003	0.971	0.979	0.990	1.000	1.000	1.000	1.000	1.000
6/30/2017		1.154	1.003	0.971	0.979	0.990	1.000	1.000	1.000	1.000	1.000
6/30/2018	1.402	1.154	1.003	0.971	0.979	0.990	1.000	1.000	1.000	1.000	1.000

A.Y.E.	<u>147/159</u>	<u>159/171</u>	<u>171/183</u>	<u>183/195</u>	<u>195/207</u>	<u>207/219</u>	<u>219/231</u>	<u>231/243</u>	<u>243/Ult</u>	<u>FACTORS</u>
6/30/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.969
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.941
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.944
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.089
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.527

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios



PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MICHIGAN  
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>
6/30/1999	232,010	920,361	1,485,967	1,708,698	2,246,099	2,304,557	2,217,951	2,219,324	2,216,820	2,218,481	2,218,680
6/30/2000	429,230	765,243	1,191,982	1,588,129	1,945,831	2,042,681	1,949,365	1,839,659	1,838,345	1,838,767	1,844,767
6/30/2001	375,412	884,603	1,892,724	2,546,074	2,737,482	2,833,139	2,809,426	2,835,128	2,836,089	2,836,089	2,836,089
6/30/2002	164,049	438,340	830,069	988,561	1,206,945	1,201,871	1,214,574	1,250,816	1,262,494	1,280,159	1,441,418
6/30/2003	127,773	970,642	1,004,239	1,352,063	1,447,045	1,416,389	1,416,588	1,416,588	1,416,588	1,416,588	1,416,588
6/30/2004	76,118	274,383	706,265	995,612	1,116,226	1,166,388	1,167,751	1,167,676	1,167,676	1,167,676	1,167,676
6/30/2005	676,813	1,392,002	2,111,018	2,605,449	2,848,896	2,799,057	2,802,635	2,802,635	2,802,635	2,802,635	2,802,635
6/30/2006	333,103	768,920	1,399,768	1,851,255	2,744,025	2,348,652	2,378,296	2,378,296	2,378,296	2,378,296	2,378,296
6/30/2007	138,877	403,321	810,760	1,049,553	1,254,403	1,286,625	1,363,333	1,418,749	1,446,499	1,445,023	1,445,024
6/30/2008	155,669	768,206	1,293,176	1,786,640	2,090,048	2,215,471	2,232,209	2,232,209	2,232,209	2,232,209	2,232,209
6/30/2009	216,949	1,183,242	2,374,088	2,973,501	3,184,114	3,346,391	3,276,108	3,264,247	3,264,247	3,264,247	
6/30/2010	286,922	667,928	1,155,176	1,403,259	1,568,933	1,775,246	1,703,316	1,703,953	1,703,953		
6/30/2011	286,324	348,890	753,973	1,156,307	1,512,056	1,444,830	1,504,728	1,488,110			
6/30/2012	273,706	654,737	1,251,701	1,792,379	1,872,379	1,795,928	1,798,909				
6/30/2013	221,570	870,479	1,308,110	1,221,152	1,285,589	1,287,317					
6/30/2014	178,028	588,681	852,451	1,476,967	1,747,129						
6/30/2015	149,408	566,888	1,350,140	2,051,619							
6/30/2016	194,261	585,223	1,008,643								
6/30/2017	561,387	1,240,043									
6/30/2018	246,067										

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>
6/30/1999	2,218,680	2,218,680	2,218,680	2,218,680	2,218,680	2,218,680	2,218,680	2,218,680	2,218,680
6/30/2000	1,845,367	1,845,367	1,845,367	1,845,285	1,838,767	1,838,767	1,838,767	1,838,767	
6/30/2001	2,836,089	2,836,089	2,836,089	2,836,089	2,836,089	2,836,089	2,836,089		
6/30/2002	1,468,691	1,483,916	1,515,484	1,515,484	1,515,484	1,515,484			
6/30/2003	1,416,588	1,416,588	1,416,588	1,416,588	1,416,588				
6/30/2004	1,167,676	1,167,676	1,167,676	1,167,676					
6/30/2005	2,802,635	2,802,635	2,802,635						
6/30/2006	2,378,296	2,378,296							
6/30/2007	1,445,024								

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MICHIGAN  
BODILY INJURY - 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
6/30/1999	688,351	565,606	222,731	537,401	58,458	-86,606	1,373	-2,504	1,661	199	0	0	0
6/30/2000	336,013	426,739	396,147	357,702	96,850	-93,316	-109,706	-1,314	422	6,000	600	0	0
6/30/2001	509,191	1,008,121	653,350	191,408	95,657	-23,713	25,702	961	0	0	0	0	0
6/30/2002	274,291	391,729	158,492	218,384	-5,074	12,703	36,242	11,678	17,665	161,259	27,273	15,225	31,568
6/30/2003	842,869	33,597	347,824	94,982	-30,656	199	0	0	0	0	0	0	0
6/30/2004	198,265	431,882	289,347	120,614	50,162	1,363	-75	0	0	0	0	0	0
6/30/2005	715,189	719,016	494,431	243,447	-49,839	3,578	0	0	0	0	0	0	0
6/30/2006	435,817	630,848	451,487	892,770	-395,373	29,644	0	0	0	0	0	0	0
6/30/2007	264,444	407,439	238,793	204,850	32,222	76,708	55,416	27,750	-1,476	1	0		
6/30/2008	612,537	524,970	493,464	303,408	125,423	16,738	0	0	0	0			
6/30/2009	966,293	1,190,846	599,413	210,613	162,277	-70,283	-11,861	0	0				
6/30/2010	381,006	487,248	248,083	165,674	206,313	-71,930	637	0					
6/30/2011	62,566	405,083	402,334	355,749	-67,226	59,898	-16,618						
6/30/2012	381,031	596,964	540,678	80,000	-76,451	2,981							
6/30/2013	648,909	437,631	-86,958	64,437	1,728								
6/30/2014	410,653	263,770	624,516	270,162									
6/30/2015	417,480	783,252	701,479										
6/30/2016	390,962	423,420											
6/30/2017	678,656												

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
6/30/1999	0.0933	0.0766	0.0302	0.0728	0.0079	-0.0117	0.0002	-0.0003	0.0002	0.0000	0.0000	0.0000	0.0000
6/30/2000	0.0627	0.0796	0.0739	0.0667	0.0181	-0.0174	-0.0205	-0.0002	0.0001	0.0011	0.0001	0.0000	0.0000
6/30/2001	0.0545	0.1079	0.0699	0.0205	0.0102	-0.0025	0.0028	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2002	0.0781	0.1116	0.0451	0.0622	-0.0014	0.0036	0.0103	0.0033	0.0050	0.0459	0.0078	0.0043	0.0090
6/30/2003	0.1305	0.0052	0.0539	0.0147	-0.0047	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.0460	0.1003	0.0672	0.0280	0.0117	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.1200	0.1206	0.0830	0.0408	-0.0084	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.0607	0.0879	0.0629	0.1244	-0.0551	0.0041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
6/30/2007	0.0429	0.0662	0.0388	0.0333	0.0052	0.0125	0.0090	0.0045	-0.0002	0.0000	0.0000	0.0000	
6/30/2008	0.0901	0.0773	0.0726	0.0446	0.0185	0.0025	0.0000	0.0000	0.0000	0.0000			
6/30/2009	0.1444	0.1780	0.0896	0.0315	0.0243	-0.0105	-0.0018	0.0000	0.0000				
6/30/2010	0.0826	0.1057	0.0538	0.0359	0.0447	-0.0156	0.0001	0.0000					
6/30/2011	0.0124	0.0800	0.0795	0.0703	-0.0133	0.0118	-0.0033						
6/30/2012	0.0726	0.1137	0.1030	0.0152	-0.0146	0.0006							
6/30/2013	0.1662	0.1121	-0.0223	0.0165	0.0004								
6/30/2014	0.0714	0.0459	0.1086	0.0470									
6/30/2015	0.0792	0.1487	0.1332										
6/30/2016	0.1129	0.1223											
6/30/2017	0.1157												

Best 3/5	0.1026	0.1160	0.0970	0.0331	0.0038	-0.0025	-0.0005	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  
MICHIGAN  
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
6/30/1999	2,811,633	2,614,929	2,842,764	2,956,624	2,771,040	2,734,804	2,742,024	2,727,484	2,727,384	2,727,384	2,727,384
6/30/2000	3,096,829	3,660,027	3,789,774	3,709,146	3,615,740	3,752,628	3,830,211	3,803,207	3,783,576	3,783,576	3,783,576
6/30/2001	3,409,176	3,766,519	3,565,810	3,882,600	4,142,069	3,971,833	3,971,833	3,971,833	3,971,833	3,971,833	3,971,833
6/30/2002	3,002,518	3,167,091	3,486,435	3,212,709	3,212,944	3,197,228	3,293,803	3,266,903	3,266,903	3,266,903	3,266,903
6/30/2003	3,551,138	3,588,516	3,586,410	3,558,167	3,591,242	3,531,916	3,531,916	3,541,916	3,551,416	3,551,416	3,551,416
6/30/2004	3,276,451	3,942,311	3,712,160	4,071,898	3,979,872	4,023,306	4,018,306	3,939,231	3,938,306	3,938,306	3,938,306
6/30/2005	3,964,573	4,187,064	3,962,772	3,997,886	3,920,142	3,911,135	3,936,118	3,910,118	3,910,118	3,911,284	3,911,284
6/30/2006	2,779,144	3,055,064	3,195,100	3,189,798	2,981,868	3,122,125	3,097,817	3,065,782	3,025,784	3,027,955	3,027,955
6/30/2007	3,275,697	3,789,063	3,695,089	3,584,383	3,493,382	3,518,396	3,606,882	3,606,882	3,606,882	3,606,882	3,505,382
6/30/2008	3,357,192	3,473,434	3,692,496	3,781,967	3,852,988	3,853,474	3,869,174	3,868,274	3,868,174	3,868,174	3,868,174
6/30/2009	3,265,420	3,745,283	3,774,923	3,843,525	3,883,745	3,884,745	3,773,623	3,789,634	3,773,523	3,773,523	
6/30/2010	2,678,753	2,821,211	2,772,768	2,864,343	2,858,950	2,747,693	2,760,594	2,760,594	2,760,594		
6/30/2011	2,681,509	3,124,867	2,850,592	2,896,382	2,904,655	2,907,545	2,807,545	2,822,545			
6/30/2012	3,379,420	3,564,344	3,586,361	3,559,154	3,485,906	3,566,061	3,507,840				
6/30/2013	2,258,472	2,385,375	2,555,543	2,362,878	2,362,877						
6/30/2014	2,096,730	2,148,953	2,217,102	2,437,164	2,485,163						
6/30/2015	3,705,758	3,882,662	3,710,611	3,980,258							
6/30/2016	2,896,363	3,161,107	3,255,271								
6/30/2017	3,385,323	3,593,501									
6/30/2018	3,369,522										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/1999	2,727,384	2,727,384	2,727,384	2,727,384	2,727,384	2,727,384	2,727,384	2,727,384	2,727,384		
6/30/2000	3,783,576	3,783,576	3,783,576	3,783,576	3,783,576	3,783,576	3,783,576	3,783,576			
6/30/2001	3,971,833	3,971,833	3,971,833	3,971,833	3,971,833	3,971,833	3,971,833				
6/30/2002	3,266,903	3,266,903	3,266,903	3,266,903	3,266,903	3,266,903					
6/30/2003	3,538,317	3,538,317	3,538,317	3,538,317	3,538,317						
6/30/2004	3,938,306	3,938,306	3,938,306	3,938,306							
6/30/2005	3,911,284	3,911,284	3,911,284								
6/30/2006	3,028,018	3,028,018									
6/30/2007	3,505,382										

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

PROPERTY DAMAGE - OCCURRENCE

INCURRED ACCIDENT YEAR BASIC LIMITS LOSS DEVELOPMENT EXCLUDING ALAE

Link Ratios

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>
6/30/1999	0.930	1.087	1.040	0.937	0.987	1.003	0.995	1.000	1.000	1.000	1.000
6/30/2000	1.182	1.035	0.979	0.975	1.038	1.021	0.993	0.995	1.000	1.000	1.000
6/30/2001	1.105	0.947	1.089	1.067	0.959	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2002	1.055	1.101	0.921	1.000	0.995	1.030	0.992	1.000	1.000	1.000	1.000
6/30/2003	1.011	0.999	0.992	1.009	0.983	1.000	1.003	1.003	1.000	1.000	0.996
6/30/2004	1.203	0.942	1.097	0.977	1.011	0.999	0.980	1.000	1.000	1.000	1.000
6/30/2005	1.056	0.946	1.009	0.981	0.998	1.006	0.993	1.000	1.000	1.000	1.000
6/30/2006	1.099	1.046	0.998	0.935	1.047	0.992	0.990	0.987	1.001	1.000	1.000
6/30/2007	1.157	0.975	0.970	0.975	1.007	1.025	1.000	1.000	1.000	0.972	1.000
6/30/2008	1.035	1.063	1.024	1.019	1.000	1.004	1.000	1.000	1.000	1.000	
6/30/2009	1.147	1.008	1.018	1.010	1.000	0.971	1.004	0.996	1.000		
6/30/2010	1.053	0.983	1.033	0.998	0.961	1.005	1.000	1.000			
6/30/2011	1.165	0.912	1.016	1.003	1.001	0.966	1.005				
6/30/2012	1.055	1.006	0.992	0.979	1.023	0.984					
6/30/2013	1.056	1.071	0.925	1.000	1.000						
6/30/2014	1.025	1.032	1.099	1.020							
6/30/2015	1.048	0.956	1.073								
6/30/2016	1.091	1.030									
6/30/2017	1.061										
3 Yr Mean	1.067	1.006	1.032	1.000	1.008	0.985	1.003	0.999	1.000	0.991	1.000
Best 3/5	1.055	1.023	1.027	1.000	1.000	0.986	1.001	0.999	1.000	1.000	1.000

A.Y.E.	<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>			
6/30/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
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	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2004	1.000	1.000	1.000								
6/30/2005	1.000	1.000									
6/30/2006	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.	<u>15/ 27</u>	<u>27/ 39</u>	<u>39/ 51</u>	<u>51/ 63</u>	<u>63/ 75</u>	<u>75/ 87</u>	<u>87/ 99</u>	<u>99/111</u>	<u>111/123</u>	<u>123/135</u>	<u>135/147</u>
6/30/2014					1.000	0.986	1.001	0.999	1.000	1.000	1.000
6/30/2015				1.000	1.000	0.986	1.001	0.999	1.000	1.000	1.000
6/30/2016			1.027	1.000	1.000	0.986	1.001	0.999	1.000	1.000	1.000
6/30/2017		1.023	1.027	1.000	1.000	0.986	1.001	0.999	1.000	1.000	1.000
6/30/2018	1.055	1.023	1.027	1.000	1.000	0.986	1.001	0.999	1.000	1.000	1.000

A.Y.E.	<u>147/159</u>	<u>159/171</u>	<u>171/183</u>	<u>183/195</u>	<u>195/207</u>	<u>207/219</u>	<u>219/231</u>	<u>231/243</u>	<u>243/U1t</u>	<u>FACTORS</u>
6/30/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.986
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.986
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.013
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.036
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.093

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
FULL COVERAGE  
MICHIGAN  
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>
6/30/1999	63,789	201,547	355,319	505,636	524,986	520,256	521,264	521,170	521,170	521,170	521,170
6/30/2000	118,106	326,314	477,944	673,267	688,943	708,666	775,759	791,260	793,353	793,353	793,353
6/30/2001	274,857	251,578	532,391	806,570	1,033,258	1,213,859	1,382,443	1,392,923	1,392,194	1,392,194	1,392,194
6/30/2002	153,031	242,616	355,046	409,811	453,284	458,766	503,213	482,991	482,995	482,995	482,995
6/30/2003	466,445	581,716	791,513	865,786	898,893	952,701	919,146	955,405	952,512	960,912	960,912
6/30/2004	214,733	482,172	706,426	954,684	1,221,686	1,185,599	1,179,514	1,179,884	1,179,514	1,179,514	1,179,514
6/30/2005	257,732	361,199	592,744	616,478	610,530	634,121	638,734	654,454	654,454	654,474	654,474
6/30/2006	552,375	553,538	754,632	791,473	903,902	924,202	946,249	953,978	970,616	1,010,262	1,016,038
6/30/2007	252,667	544,905	763,156	753,149	723,457	498,086	531,870	611,034	733,213	775,582	752,220
6/30/2008	253,823	712,479	1,063,028	1,181,134	1,370,309	1,379,663	1,440,321	1,441,419	1,441,419	1,441,419	1,441,444
6/30/2009	262,830	423,779	659,183	688,031	828,588	835,034	796,695	800,695	799,881	804,630	
6/30/2010	715,163	569,567	461,921	767,917	820,294	531,622	532,204	532,354	532,354		
6/30/2011	114,277	204,952	281,464	290,643	393,045	398,663	466,667	467,536			
6/30/2012	250,437	507,160	657,263	710,214	747,271	794,822	825,442				
6/30/2013	104,190	277,176	433,257	462,842	462,842	462,842					
6/30/2014	175,220	157,746	176,948	194,630	204,950						
6/30/2015	323,127	418,899	365,224	383,201							
6/30/2016	104,566	646,514	407,587								
6/30/2017	405,289	389,752									
6/30/2018	150,184										

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>
6/30/1999	521,170	521,170	521,170	521,170	521,170	521,170	521,170	521,170	521,170
6/30/2000	793,353	793,353	793,353	793,353	793,353	793,353	793,353	793,353	
6/30/2001	1,392,194	1,392,194	1,392,194	1,392,194	1,392,194	1,392,194	1,392,194		
6/30/2002	482,995	482,995	482,995	482,995	482,995	482,995			
6/30/2003	960,912	960,912	960,912	960,912	960,912				
6/30/2004	1,179,514	1,179,514	1,179,514	1,179,514					
6/30/2005	654,474	654,474							
6/30/2006	1,034,787	1,034,787							
6/30/2007	752,220								

PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MICHIGAN  
 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
6/30/1999	137,758	153,772	150,317	19,350	-4,730	1,008	-94	0	0	0	0	0	0
6/30/2000	208,208	151,630	195,323	15,676	19,723	67,093	15,501	2,093	0	0	0	0	0
6/30/2001	-23,279	280,813	274,179	226,688	180,601	168,584	10,480	-729	0	0	0	0	0
6/30/2002	89,585	112,430	54,765	43,473	5,482	44,447	-20,222	4	0	0	0	0	0
6/30/2003	115,271	209,797	74,273	33,107	53,808	-33,555	36,259	-2,893	8,400	0	0	0	0
6/30/2004	267,439	224,254	248,258	267,002	-36,087	-6,085	370	-370	0	0	0	0	0
6/30/2005	103,467	231,545	23,734	-5,948	23,591	4,613	15,720	0	20	0	0	0	0
6/30/2006	1,163	201,094	36,841	112,429	20,300	22,047	7,729	16,638	39,646	5,776	18,749	0	0
6/30/2007	292,238	218,251	-10,007	-29,692	-225,371	33,784	79,164	122,179	42,369	-23,362	0	0	0
6/30/2008	458,656	350,549	118,106	189,175	9,354	60,658	1,098	0	0	25	0	0	0
6/30/2009	160,949	235,404	28,848	140,557	6,446	-38,339	4,000	-814	4,749	0	0	0	0
6/30/2010	-145,596	-107,646	305,996	52,377	-288,672	582	150	0	0	0	0	0	0
6/30/2011	90,675	76,512	9,179	102,402	5,618	68,004	869	0	0	0	0	0	0
6/30/2012	256,723	150,103	52,951	37,057	47,551	30,620	0	0	0	0	0	0	0
6/30/2013	172,986	156,081	29,585	0	0	0	0	0	0	0	0	0	0
6/30/2014	-17,474	19,202	17,682	10,320	0	0	0	0	0	0	0	0	0
6/30/2015	95,772	-53,675	17,977	0	0	0	0	0	0	0	0	0	0
6/30/2016	541,948	-238,927	0	0	0	0	0	0	0	0	0	0	0
6/30/2017	-15,537	0	0	0	0	0	0	0	0	0	0	0	0

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
6/30/1999	0.0436	0.0486	0.0475	0.0061	-0.0015	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2000	0.0451	0.0329	0.0423	0.0034	0.0043	0.0145	0.0034	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2001	-0.0044	0.0533	0.0520	0.0430	0.0343	0.0320	0.0020	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2002	0.0229	0.0288	0.0140	0.0111	0.0014	0.0114	-0.0052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2003	0.0218	0.0396	0.0140	0.0063	0.0102	-0.0063	0.0068	-0.0005	0.0016	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.0526	0.0441	0.0488	0.0525	-0.0071	-0.0012	0.0001	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.0216	0.0484	0.0050	-0.0012	0.0049	0.0010	0.0033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.0003	0.0576	0.0105	0.0322	0.0058	0.0063	0.0022	0.0048	0.0114	0.0017	0.0054	0.0000	0.0000
6/30/2007	0.0657	0.0491	-0.0023	-0.0067	-0.0507	0.0076	0.0178	0.0275	0.0095	-0.0053	0.0000	0.0000	0.0000
6/30/2008	0.0882	0.0674	0.0227	0.0364	0.0018	0.0117	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2009	0.0376	0.0550	0.0067	0.0328	0.0015	-0.0089	0.0009	-0.0002	0.0011	0.0000	0.0000	0.0000	0.0000
6/30/2010	-0.0458	-0.0339	0.0963	0.0165	-0.0908	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2011	0.0299	0.0252	0.0030	0.0337	0.0019	0.0224	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2012	0.0531	0.0311	0.0110	0.0077	0.0098	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2013	0.0710	0.0641	0.0121	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2014	-0.0052	0.0057	0.0053	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2015	0.0202	-0.0113	0.0038	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2016	0.1202	-0.0530	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2017	-0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Best 3/5	0.0293	0.0085	0.0067	0.0091	0.0011	0.0061	0.0005	0.0016	0.0035	0.0000	0.0000	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
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
6/30/1999	9,096,744	12,536,199	13,409,307	13,887,466	13,661,694	13,466,202	13,265,260	13,269,510	13,269,510	13,272,010	13,272,010
6/30/2000	6,465,250	9,080,890	10,504,726	10,497,704	10,023,695	9,963,540	9,872,680	9,991,971	9,991,680	9,948,050	9,938,050
6/30/2001	7,403,620	9,278,764	9,293,298	9,774,255	10,040,996	9,998,323	10,238,823	10,065,822	10,019,822	9,919,822	9,919,822
6/30/2002	6,515,288	7,417,825	7,704,095	7,568,736	7,631,480	7,546,519	7,632,232	7,625,171	7,623,671	7,623,671	7,623,671
6/30/2003	5,665,435	6,886,736	7,458,480	7,518,546	7,160,110	7,186,149	7,111,150	7,022,449	6,994,298	6,894,298	6,894,298
6/30/2004	6,288,115	7,082,353	7,231,353	6,942,386	6,747,025	6,653,135	6,581,635	6,583,995	6,606,757	6,606,757	6,606,757
6/30/2005	7,140,796	8,094,085	7,429,878	7,435,765	6,950,378	6,777,628	6,677,629	6,682,578	6,682,578	6,682,578	6,682,578
6/30/2006	7,119,006	7,756,196	8,076,168	8,173,190	7,259,242	7,142,917	7,040,135	7,067,001	7,068,001	7,057,695	7,057,695
6/30/2007	6,592,020	7,321,065	7,424,133	7,701,951	7,732,406	7,422,643	7,469,468	7,638,575	7,565,544	7,558,210	7,558,210
6/30/2008	9,045,615	9,602,655	9,774,876	9,292,089	8,468,833	8,115,002	8,063,841	8,076,341	8,071,341	8,071,341	8,071,341
6/30/2009	8,996,723	9,877,850	10,615,510	10,690,853	9,816,009	9,693,578	9,722,478	9,548,478	9,548,478	9,548,478	
6/30/2010	9,067,973	10,469,090	10,490,931	9,878,315	9,670,337	9,644,363	9,648,363	9,548,363	9,448,363		
6/30/2011	9,143,256	9,782,995	9,910,826	9,243,691	8,443,968	8,378,721	8,378,721	8,378,589			
6/30/2012	5,351,509	6,144,078	6,101,898	6,172,678	5,854,621	5,835,458	5,828,702				
6/30/2013	5,707,698	5,408,465	5,761,885	6,014,803	5,846,250	5,761,196					
6/30/2014	6,971,006	7,930,644	7,494,438	7,850,932	7,560,622						
6/30/2015	5,072,998	5,719,220	6,510,694	6,372,775							
6/30/2016	4,144,010	6,057,034	6,200,034								
6/30/2017	5,623,666	6,434,921									
6/30/2018	6,363,287										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/1999	13,274,600	13,274,600	13,274,600	13,274,600	13,274,600	13,274,600	13,274,600	13,274,600	13,274,600		
6/30/2000	10,038,050	9,941,050	9,941,050	9,841,050	9,841,050	9,841,050	9,841,050	9,841,050	9,841,050		
6/30/2001	9,919,822	9,919,822	9,919,822	9,919,822	9,919,822	9,919,822	9,919,822	9,919,822			
6/30/2002	7,623,671	7,623,671	7,623,671	7,623,671	7,623,671	7,623,671					
6/30/2003	6,894,298	6,894,298	6,894,298	6,894,298	6,894,298						
6/30/2004	6,682,395	6,606,757	6,606,757	6,606,757							
6/30/2005	6,682,578	6,682,578	6,682,578								
6/30/2006	7,057,695	7,057,695									
6/30/2007	7,558,210										

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

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
6/30/1999	1.378	1.070	1.036	0.984	0.986	0.985	1.000	1.000	1.000	1.000	1.000
6/30/2000	1.405	1.157	0.999	0.955	0.994	0.991	1.012	1.000	0.996	0.999	1.010
6/30/2001	1.253	1.002	1.052	1.027	0.996	1.024	0.983	0.995	0.990	1.000	1.000
6/30/2002	1.139	1.039	0.982	1.008	0.989	1.011	0.999	1.000	1.000	1.000	1.000
6/30/2003	1.216	1.083	1.008	0.952	1.004	0.990	0.988	0.996	0.986	1.000	1.000
6/30/2004	1.126	1.021	0.960	0.972	0.986	0.989	1.000	1.003	1.000	1.000	1.011
6/30/2005	1.133	0.918	1.001	0.935	0.975	0.985	1.001	1.000	1.000	1.000	1.000
6/30/2006	1.090	1.041	1.012	0.888	0.984	0.986	1.004	1.000	0.999	1.000	1.000
6/30/2007	1.111	1.014	1.037	1.004	0.960	1.006	1.023	0.990	0.999	1.000	1.000
6/30/2008	1.062	1.018	0.951	0.911	0.958	0.994	1.002	0.999	1.000	1.000	
6/30/2009	1.098	1.075	1.007	0.918	0.988	1.003	0.982	1.000	1.000		
6/30/2010	1.155	1.002	0.942	0.979	0.997	1.000	0.990	0.990			
6/30/2011	1.070	1.013	0.933	0.913	0.992	1.000	1.000				
6/30/2012	1.148	0.993	1.012	0.948	0.997	0.999					
6/30/2013	0.948	1.065	1.044	0.972	0.985						
6/30/2014	1.138	0.945	1.048	0.963							
6/30/2015	1.127	1.138	0.979								
6/30/2016	1.462	1.024									
6/30/2017	1.144										

3 Yr Mean 1.244 1.036 1.024 0.961 0.991 1.000 0.991 0.996 1.000 1.000 1.000

Best 3/5 1.136 1.027 1.012 0.961 0.992 1.000 0.997 0.996 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
6/30/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2000	0.990	1.000	0.990	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	1.000 *	1.000 *	1.000 *	1.000 *
6/30/2004	0.989	1.000	1.000					
6/30/2005	1.000	1.000						
6/30/2006	1.000							

3 Yr Mean 0.996 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 \*

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
6/30/2014					0.992	1.000	0.997	0.996	1.000	1.000	1.000
6/30/2015				0.961	0.992	1.000	0.997	0.996	1.000	1.000	1.000
6/30/2016			1.012	0.961	0.992	1.000	0.997	0.996	1.000	1.000	1.000
6/30/2017		1.027	1.012	0.961	0.992	1.000	0.997	0.996	1.000	1.000	1.000
6/30/2018	1.136	1.027	1.012	0.961	0.992	1.000	0.997	0.996	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
6/30/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.985
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.947
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.958
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.984
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.118

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios



PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
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>
6/30/1999	949,175	1,807,874	2,889,558	3,420,029	3,767,298	3,741,708	3,727,129	3,724,096	3,732,192	3,732,192	3,733,200
6/30/2000	1,001,464	1,804,885	2,528,321	2,590,926	2,725,559	2,878,508	2,800,251	2,818,694	2,782,703	2,774,394	2,769,894
6/30/2001	1,006,032	1,945,958	2,459,471	3,047,004	3,579,130	3,900,186	5,138,058	5,144,535	5,148,221	5,055,301	4,996,564
6/30/2002	1,407,250	1,429,024	2,160,012	2,429,408	2,775,320	2,860,832	3,041,948	3,046,052	3,012,487	2,953,840	2,955,384
6/30/2003	963,041	1,600,823	2,513,079	3,160,208	3,183,092	3,210,687	3,187,094	3,188,660	3,190,100	3,190,100	3,190,100
6/30/2004	743,761	1,298,237	2,402,919	2,695,016	2,737,410	2,750,952	2,765,087	2,765,134	2,765,080	2,765,080	2,765,080
6/30/2005	736,939	2,212,733	3,058,368	3,784,853	3,824,090	3,893,446	3,697,180	3,688,513	3,688,513	3,697,333	3,697,333
6/30/2006	583,202	1,333,718	2,082,139	2,502,608	2,680,440	2,753,521	2,747,574	2,747,574	2,755,817	2,766,777	2,766,777
6/30/2007	570,739	1,323,857	2,025,568	2,845,348	3,011,473	3,129,079	3,230,158	3,297,990	3,235,242	3,235,459	3,235,459
6/30/2008	350,635	1,174,905	2,645,869	3,193,671	3,608,781	3,642,243	3,583,604	3,622,831	3,629,422	3,629,698	3,632,143
6/30/2009	693,812	1,711,869	3,457,465	4,044,049	4,459,640	4,479,493	4,487,122	4,445,703	4,447,273	4,463,404	
6/30/2010	904,605	2,391,739	3,320,512	4,195,770	4,504,738	4,556,462	4,574,663	4,531,336	4,543,886		
6/30/2011	1,075,682	2,077,860	3,208,234	3,716,884	4,004,755	4,080,507	4,102,976	4,117,700			
6/30/2012	987,001	2,089,093	2,816,976	3,266,176	3,490,092	3,565,714	3,553,619				
6/30/2013	789,659	1,615,286	2,103,863	2,773,262	2,825,094	2,911,604					
6/30/2014	1,077,928	2,180,101	2,954,819	3,381,505	3,536,533						
6/30/2015	725,729	1,494,446	2,315,824	2,944,328							
6/30/2016	500,304	1,840,769	2,150,606								
6/30/2017	722,412	1,368,713									
6/30/2018	779,943										

<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>
6/30/1999	3,741,258	3,741,258	3,741,258	3,741,258	3,741,258	3,741,258	3,741,258	3,741,258	3,741,258
6/30/2000	2,777,849	2,771,066	2,771,066	2,733,559	2,733,559	2,733,559	2,733,559	2,733,559	
6/30/2001	4,997,474	4,995,398	4,996,864	4,970,349	4,970,349	4,970,349	4,970,349		
6/30/2002	2,953,308	2,954,774	2,928,259	2,928,259	2,928,259	2,928,259			
6/30/2003	3,190,658	3,190,658	3,190,658	3,190,658	3,190,658				
6/30/2004	2,765,080	2,765,005	2,765,005	2,765,005					
6/30/2005	3,697,333	3,697,333	3,697,333						
6/30/2006	2,766,777	2,766,777							
6/30/2007	3,235,459								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
BODILY INJURY - 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
6/30/1999	858,699	1,081,684	530,471	347,269	-25,590	-14,579	-3,033	8,096	0	1,008	8,058	0	0
6/30/2000	803,421	723,436	62,605	134,633	152,949	-78,257	18,443	-35,991	-8,309	-4,500	7,955	-6,783	0
6/30/2001	939,926	513,513	587,533	532,126	321,056	1,237,872	6,477	3,686	-92,920	-58,737	910	-2,076	1,466
6/30/2002	21,774	730,988	269,396	345,912	85,512	181,116	4,104	-33,565	-58,647	1,544	-2,076	1,466	-26,515
6/30/2003	637,782	912,256	647,129	22,884	27,595	-23,593	1,566	1,440	0	0	558	0	0
6/30/2004	554,476	1,104,682	292,097	42,394	13,542	14,135	47	-54	0	0	0	-75	0
6/30/2005	1,475,794	845,635	726,485	39,237	69,356	-196,266	-8,667	0	8,820	0	0	0	0
6/30/2006	750,516	748,421	420,469	177,832	73,081	-5,947	0	8,243	10,960	0	0	0	0
6/30/2007	753,118	701,711	819,780	166,125	117,606	101,079	67,832	-62,748	217	0	0	0	0
6/30/2008	824,270	1,470,964	547,802	415,110	33,462	-58,639	39,227	6,591	276	2,445	0	0	0
6/30/2009	1,018,057	1,745,596	586,584	415,591	19,853	7,629	-41,419	1,570	16,131	0	0	0	0
6/30/2010	1,487,134	928,773	875,258	308,968	51,724	18,201	-43,327	12,550	0	0	0	0	0
6/30/2011	1,002,178	1,130,374	508,650	287,871	75,752	22,469	14,724	0	0	0	0	0	0
6/30/2012	1,102,092	727,883	449,200	223,916	75,622	-12,095	0	0	0	0	0	0	0
6/30/2013	825,627	488,577	669,399	51,832	86,510	0	0	0	0	0	0	0	0
6/30/2014	1,102,173	774,718	426,686	155,028	0	0	0	0	0	0	0	0	0
6/30/2015	768,717	821,378	628,504	0	0	0	0	0	0	0	0	0	0
6/30/2016	1,340,465	309,837	0	0	0	0	0	0	0	0	0	0	0
6/30/2017	646,301	0	0	0	0	0	0	0	0	0	0	0	0

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
6/30/1999	0.0469	0.0591	0.0290	0.0190	-0.0014	-0.0008	-0.0002	0.0004	0.0000	0.0001	0.0004	0.0000	0.0000
6/30/2000	0.0608	0.0548	0.0047	0.0102	0.0116	-0.0059	0.0014	-0.0027	-0.0006	-0.0003	0.0006	-0.0005	0.0000
6/30/2001	0.0648	0.0354	0.0405	0.0367	0.0221	0.0853	0.0004	0.0003	-0.0064	-0.0040	0.0001	-0.0001	0.0001
6/30/2002	0.0020	0.0679	0.0250	0.0322	0.0079	0.0168	0.0004	-0.0031	-0.0055	0.0001	-0.0002	0.0001	-0.0025
6/30/2003	0.0674	0.0964	0.0683	0.0024	0.0029	-0.0025	0.0002	0.0002	0.0000	0.0000	0.0001	0.0000	0.0000
6/30/2004	0.0615	0.1225	0.0324	0.0047	0.0015	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.1509	0.0864	0.0743	0.0040	0.0071	-0.0201	-0.0009	0.0000	0.0009	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.0850	0.0848	0.0476	0.0201	0.0083	-0.0007	0.0000	0.0009	0.0012	0.0000	0.0000	0.0000	0.0000
6/30/2007	0.0689	0.0642	0.0750	0.0152	0.0108	0.0092	0.0062	-0.0057	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2008	0.0805	0.1437	0.0535	0.0406	0.0033	-0.0057	0.0038	0.0006	0.0000	0.0002	0.0000	0.0000	0.0000
6/30/2009	0.0804	0.1378	0.0463	0.0328	0.0016	0.0006	-0.0033	0.0001	0.0013	0.0000	0.0000	0.0000	0.0000
6/30/2010	0.1041	0.0650	0.0613	0.0216	0.0036	0.0013	-0.0030	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2011	0.0865	0.0976	0.0439	0.0249	0.0065	0.0019	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2012	0.1290	0.0852	0.0526	0.0262	0.0089	-0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2013	0.1022	0.0605	0.0829	0.0064	0.0107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2014	0.1044	0.0734	0.0404	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2015	0.0887	0.0948	0.0725	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2016	0.1481	0.0342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2017	0.0704	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Best 3/5	0.0984	0.0730	0.0563	0.0204	0.0063	0.0002	0.0007	0.0005	0.0007	0.0000	0.0000	0.0000	0.0000
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PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
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
6/30/1999	955,088	1,179,865	1,667,966	1,404,226	1,375,108	1,352,050	1,289,558	1,304,558	1,304,558	1,304,558	1,304,558
6/30/2000	864,935	1,277,189	1,004,280	1,173,930	1,104,880	1,081,057	1,102,276	1,122,776	1,085,276	1,085,276	1,060,276
6/30/2001	1,051,963	833,187	978,390	1,139,134	1,139,267	1,072,267	1,072,267	1,072,267	1,031,267	1,071,267	1,071,267
6/30/2002	779,762	952,880	905,211	1,013,486	1,003,154	992,654	990,154	990,154	990,154	990,154	990,154
6/30/2003	644,178	596,188	650,958	722,832	840,875	818,472	818,472	818,472	818,472	818,472	818,472
6/30/2004	723,470	661,593	641,392	680,548	693,047	633,047	638,297	638,297	638,297	638,297	638,297
6/30/2005	445,566	598,151	684,084	660,466	663,566	666,216	666,216	666,216	666,216	666,216	666,216
6/30/2006	464,504	579,138	645,538	620,536	570,536	558,036	558,036	543,036	543,036	543,036	543,036
6/30/2007	882,908	1,072,044	1,037,457	1,007,076	1,007,076	999,576	999,576	999,576	1,039,089	1,099,576	1,099,576
6/30/2008	1,051,593	1,083,177	908,854	915,152	915,150	1,007,650	1,007,650	1,007,650	1,007,650	1,007,650	1,007,650
6/30/2009	752,854	819,994	805,410	847,719	935,877	964,936	965,877	965,877	965,877	965,877	
6/30/2010	531,032	632,642	706,174	675,054	731,766	749,265	744,265	724,265	725,265		
6/30/2011	762,916	950,372	986,777	849,512	807,426	807,426	807,426	807,426			
6/30/2012	458,466	545,465	599,686	710,905	720,806	696,186	696,186				
6/30/2013	531,674	565,808	527,755	505,079	459,515	449,515					
6/30/2014	657,681	568,142	695,193	651,623	599,394						
6/30/2015	698,132	552,667	547,917	562,981							
6/30/2016	609,271	703,895	831,032								
6/30/2017	742,848	828,625									
6/30/2018	522,652										
A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months		
6/30/1999	1,304,558	1,304,558	1,304,558	1,304,558	1,304,558	1,304,558	1,304,558	1,304,558	1,304,558		
6/30/2000	1,060,276	1,060,276	1,060,276	1,060,276	1,060,276	1,060,276	1,060,276	1,060,276			
6/30/2001	1,067,393	1,067,393	1,067,393	1,067,393	1,067,393	1,067,393	1,067,393				
6/30/2002	990,154	990,154	990,154	990,154	990,154	990,154					
6/30/2003	818,472	818,472	818,472	818,472	818,472						
6/30/2004	638,297	638,297	638,297	638,297							
6/30/2005	666,216	666,216	666,216								
6/30/2006	550,036	550,036									
6/30/2007	1,099,576										

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

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
6/30/1999	1.235	1.414	0.842	0.979	0.983	0.954	1.012	1.000	1.000	1.000	1.000
6/30/2000	1.477	0.786	1.169	0.941	0.978	1.020	1.019	0.967	1.000	0.977	1.000
6/30/2001	0.792	1.174	1.164	1.000	0.941	1.000	1.000	0.962	1.039	1.000	0.996
6/30/2002	1.222	0.950	1.120	0.990	0.990	0.997	1.000	1.000	1.000	1.000	1.000
6/30/2003	0.926	1.092	1.110	1.163	0.973	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2004	0.914	0.969	1.061	1.018	0.913	1.008	1.000	1.000	1.000	1.000	1.000
6/30/2005	1.342	1.144	0.965	1.005	1.004	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2006	1.247	1.115	0.961	0.919	0.978	1.000	0.973	1.000	1.000	1.000	1.013
6/30/2007	1.214	0.968	0.971	1.000	0.993	1.000	1.000	1.040	1.058	1.000	1.000
6/30/2008	1.030	0.839	1.007	1.000	1.101	1.000	1.000	1.000	1.000	1.000	
6/30/2009	1.089	0.982	1.053	1.104	1.031	1.001	1.000	1.000	1.000		
6/30/2010	1.191	1.116	0.956	1.084	1.024	0.993	0.973	1.001			
6/30/2011	1.246	1.038	0.861	0.950	1.000	1.000	1.000				
6/30/2012	1.190	1.099	1.185	1.014	0.966	1.000					
6/30/2013	1.064	0.933	0.957	0.910	0.978						
6/30/2014	0.864	1.224	0.937	0.920							
6/30/2015	0.792	0.991	1.027								
6/30/2016	1.155	1.181									
6/30/2017	1.115										

3 Yr Mean 1.021 1.132 0.974 0.948 0.981 0.998 0.991 1.000 1.019 1.000 1.004

Best 3/5 1.014 1.090 0.974 0.961 1.001 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
6/30/1999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
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	1.000 *	1.000 *	1.000 *	1.000 *
6/30/2004	1.000	1.000	1.000					
6/30/2005	1.000	1.000						
6/30/2006	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 \*

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
6/30/2014					1.001	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2015				0.961	1.001	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2016			0.974	0.961	1.001	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2017		1.090	0.974	0.961	1.001	1.000	1.000	1.000	1.000	1.000	1.000
6/30/2018	1.014	1.090	0.974	0.961	1.001	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
6/30/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.001
6/30/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.962
6/30/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.937
6/30/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.021
6/30/2018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.036

\* Calculated Using Modified Bondy Method

@ Three year mean Excludes Modified Bondy ratios

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
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>
6/30/1999	94,771	290,261	468,195	645,748	661,304	623,637	542,966	547,028	547,028	547,028	547,028
6/30/2000	36,593	161,406	223,153	289,670	264,400	265,745	265,745	271,867	272,402	275,352	276,526
6/30/2001	140,975	197,832	307,995	500,038	515,365	474,810	475,313	475,314	469,490	469,490	469,490
6/30/2002	24,505	149,509	253,870	284,975	325,432	326,697	327,294	328,518	328,518	328,518	328,646
6/30/2003	31,478	45,499	73,027	129,750	147,232	152,889	154,113	154,113	154,113	154,113	154,113
6/30/2004	70,923	288,858	190,350	241,192	254,776	257,763	257,806	257,806	257,806	257,806	257,806
6/30/2005	26,233	63,291	259,992	253,678	266,479	315,788	317,856	317,856	317,856	317,856	317,856
6/30/2006	68,016	209,472	295,184	477,281	525,703	531,390	539,181	539,926	548,316	550,139	550,530
6/30/2007	154,579	250,941	221,033	218,499	243,669	246,423	246,423	246,423	288,909	334,733	337,646
6/30/2008	83,453	448,923	871,141	1,121,884	1,304,356	1,448,465	1,514,843	1,514,843	1,514,843	1,514,843	1,514,843
6/30/2009	75,851	186,873	257,456	315,144	394,395	422,449	405,694	405,694	405,694	405,694	
6/30/2010	41,916	191,305	247,954	256,788	288,899	344,857	354,453	356,334	356,334		
6/30/2011	39,395	148,795	272,233	524,020	895,190	899,308	899,308	899,308			
6/30/2012	33,758	121,438	285,061	410,446	409,886	409,886	409,886				
6/30/2013	63,965	97,081	91,966	99,643	118,317	157,305					
6/30/2014	88,349	80,017	103,578	96,606	135,593						
6/30/2015	114,504	240,827	418,720	503,218							
6/30/2016	34,888	188,318	475,288								
6/30/2017	155,500	399,450									
6/30/2018	128,499										

<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>
6/30/1999	547,028	547,028	547,028	547,028	547,028	547,028	547,028	547,028	547,028
6/30/2000	278,158	278,372	278,372	278,372	278,372	278,372	278,372	278,372	
6/30/2001	464,178	464,178	464,178	464,178	464,178	464,178	464,178		
6/30/2002	337,018	337,018	337,018	337,018	337,018	337,018			
6/30/2003	154,113	154,113	154,113	154,113	154,113				
6/30/2004	257,806	257,806	257,806	257,806					
6/30/2005	317,856	317,856	317,856						
6/30/2006	546,967	546,967							
6/30/2007	337,646								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
FULL COVERAGE  
MICHIGAN  
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
6/30/1999	195,490	177,934	177,553	15,556	-37,667	-80,671	4,062	0	0	0	0	0	0
6/30/2000	124,813	61,747	66,517	-25,270	1,345	0	6,122	535	2,950	1,174	1,632	214	0
6/30/2001	56,857	110,163	192,043	15,327	-40,555	503	1	-5,824	0	0	-5,312	0	0
6/30/2002	125,004	104,361	31,105	40,457	1,265	597	1,224	0	0	128	8,372	0	0
6/30/2003	14,021	27,528	56,723	17,482	5,657	1,224	0	0	0	0	0	0	0
6/30/2004	217,935	-98,508	50,842	13,584	2,987	43	0	0	0	0	0	0	0
6/30/2005	37,058	196,701	-6,314	12,801	49,309	2,068	0	0	0	0	0	0	0
6/30/2006	141,456	85,712	182,097	48,422	5,687	7,791	745	8,390	1,823	391	-3,563	0	
6/30/2007	96,362	-29,908	-2,534	25,170	2,754	0	0	42,486	45,824	2,913	0		
6/30/2008	365,470	422,218	250,743	182,472	144,109	66,378	0	0	0	0			
6/30/2009	111,022	70,583	57,688	79,251	28,054	-16,755	0	0	0				
6/30/2010	149,389	56,649	8,834	32,111	55,958	9,596	1,881	0					
6/30/2011	109,400	123,438	251,787	371,170	4,118	0	0						
6/30/2012	87,680	163,623	125,385	-560	0	0							
6/30/2013	33,116	-5,115	7,677	18,674	38,988								
6/30/2014	-8,332	23,561	-6,972	38,987									
6/30/2015	126,323	177,893	84,498										
6/30/2016	153,430	286,970											
6/30/2017	243,950												

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
6/30/1999	0.0866	0.0788	0.0786	0.0069	-0.0167	-0.0357	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2000	0.1152	0.0570	0.0614	-0.0233	0.0012	0.0000	0.0056	0.0005	0.0027	0.0011	0.0015	0.0002	0.0000
6/30/2001	0.0470	0.0911	0.1588	0.0127	-0.0335	0.0004	0.0000	-0.0048	0.0000	0.0000	-0.0044	0.0000	0.0000
6/30/2002	0.1100	0.0918	0.0274	0.0356	0.0011	0.0005	0.0011	0.0000	0.0000	0.0001	0.0074	0.0000	0.0000
6/30/2003	0.0123	0.0241	0.0496	0.0153	0.0049	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2004	0.3302	-0.1493	0.0770	0.0206	0.0045	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2005	0.0511	0.2712	-0.0087	0.0177	0.0680	0.0029	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6/30/2006	0.2480	0.1503	0.3193	0.0849	0.0100	0.0137	0.0013	0.0147	0.0032	0.0007	-0.0062	0.0000	
6/30/2007	0.0700	-0.0217	-0.0018	0.0183	0.0020	0.0000	0.0000	0.0309	0.0333	0.0021	0.0000		
6/30/2008	0.2927	0.3381	0.2008	0.1461	0.1154	0.0532	0.0000	0.0000	0.0000	0.0000			
6/30/2009	0.0718	0.0456	0.0373	0.0513	0.0181	-0.0108	0.0000	0.0000	0.0000				
6/30/2010	0.1501	0.0569	0.0089	0.0323	0.0562	0.0096	0.0019	0.0000					
6/30/2011	0.0807	0.0911	0.1857	0.2738	0.0030	0.0000	0.0000						
6/30/2012	0.1054	0.1967	0.1507	-0.0007	0.0000	0.0000							
6/30/2013	0.0698	-0.0108	0.0162	0.0393	0.0821								
6/30/2014	-0.0108	0.0305	-0.0090	0.0504									
6/30/2015	0.2127	0.2995	0.1423										
6/30/2016	0.1260	0.2357											
6/30/2017	0.1559												

Best 3/5	0.1172	0.1543	0.1030	0.0407	0.0258	0.0032	0.0000	0.0049	0.0011	0.0002	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:

<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>
6/30/1999	79,427,846	115,084,887	137,547,396	156,057,319	162,588,261	164,663,980	165,523,856	163,890,900	163,906,127	163,628,524	163,505,161
6/30/2000	62,518,562	99,029,966	144,424,754	161,856,879	167,709,108	167,410,914	166,704,377	165,807,138	165,009,824	164,681,512	164,301,247
6/30/2001	58,280,456	123,827,571	167,679,975	184,473,565	189,782,826	184,855,216	181,958,212	180,892,445	180,301,554	180,370,551	179,874,921
6/30/2002	57,950,853	101,165,195	133,841,600	150,767,229	149,678,500	145,924,690	143,776,412	142,510,934	142,548,421	142,154,930	142,434,250
6/30/2003	61,364,119	99,368,462	135,413,468	147,618,862	145,346,562	142,172,371	141,107,798	140,051,571	139,348,089	139,294,748	138,960,758
6/30/2004	66,173,524	108,167,611	144,205,706	150,286,974	146,877,458	144,929,522	142,501,687	141,443,982	141,067,390	141,449,282	141,287,954
6/30/2005	63,699,404	102,596,617	132,323,540	140,826,962	138,230,425	134,672,870	133,066,533	132,618,920	132,221,363	132,445,567	132,491,967
6/30/2006	68,461,185	103,522,103	129,271,317	134,562,432	131,725,855	130,232,458	131,064,039	131,042,537	130,192,042	129,692,697	129,298,240
6/30/2007	67,855,835	102,347,925	129,483,304	135,103,346	133,959,998	133,520,472	132,461,199	132,392,936	132,278,505	131,999,153	132,158,971
6/30/2008	74,063,450	110,852,114	141,858,456	149,527,076	147,853,136	146,525,929	146,582,710	145,883,555	145,411,629	145,436,966	145,589,551
6/30/2009	72,454,231	113,830,620	138,981,811	149,604,908	148,111,668	146,914,409	146,349,649	145,422,956	144,865,501	144,608,396	
6/30/2010	79,416,095	112,072,803	142,281,379	148,420,164	148,746,653	146,685,528	146,017,082	146,374,712	146,613,749		
6/30/2011	78,989,581	121,351,911	150,463,655	162,948,766	160,909,896	158,152,552	157,898,066	157,456,840			
6/30/2012	71,779,633	105,840,505	132,920,673	139,980,206	139,353,136	138,820,267	139,411,445				
6/30/2013	66,404,433	105,523,078	127,744,221	134,113,329	136,226,117	135,981,619					
6/30/2014	80,201,940	120,717,715	157,379,412	170,411,407	167,336,258						
6/30/2015	68,742,774	107,289,386	143,959,371	152,076,065							
6/30/2016	59,860,808	99,140,755	130,724,316								
6/30/2017	68,932,341	103,342,449									
6/30/2018	68,410,900										
<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>		
6/30/1999	163,500,550	163,712,106	163,485,780	163,488,603	163,457,527	163,533,591	163,442,330	163,532,772	163,560,272		
6/30/2000	164,257,730	164,232,900	164,140,680	164,310,482	164,256,901	164,346,050	164,407,438	164,469,704			
6/30/2001	180,053,198	180,000,621	180,300,169	180,124,368	179,854,571	180,077,463	179,809,047				
6/30/2002	142,110,588	142,163,122	141,972,251	141,942,889	141,956,680	141,947,246					
6/30/2003	139,297,208	139,107,089	138,866,479	138,836,907	138,786,899						
6/30/2004	141,527,971	141,463,053	141,532,917	141,528,132							
6/30/2005	132,626,164	132,703,656	132,623,133								
6/30/2006	129,292,986	129,800,670									
6/30/2007	132,046,326										

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
6/30/1999	1.449	1.195	1.135	1.042	1.013	1.005	0.990	1.000	0.998	0.999	1.000
6/30/2000	1.584	1.458	1.121	1.036	0.998	0.996	0.995	0.995	0.998	0.998	1.000
6/30/2001	2.125	1.354	1.100	1.029	0.974	0.984	0.994	0.997	1.000	0.997	1.001
6/30/2002	1.746	1.323	1.126	0.993	0.975	0.985	0.991	1.000	0.997	1.002	0.998
6/30/2003	1.619	1.363	1.090	0.985	0.978	0.993	0.993	0.995	1.000	0.998	1.002
6/30/2004	1.635	1.333	1.042	0.977	0.987	0.983	0.993	0.997	1.003	0.999	1.002
6/30/2005	1.611	1.290	1.064	0.982	0.974	0.988	0.997	0.997	1.002	1.000	1.001
6/30/2006	1.512	1.249	1.041	0.979	0.989	1.006	1.000	0.994	0.996	0.997	1.000
6/30/2007	1.508	1.265	1.043	0.992	0.997	0.992	0.999	0.999	0.998	1.001	0.999
6/30/2008	1.497	1.280	1.054	0.989	0.991	1.000	0.995	0.997	1.000	1.001	
6/30/2009	1.571	1.221	1.076	0.990	0.992	0.996	0.994	0.996	0.998		
6/30/2010	1.411	1.270	1.043	1.002	0.986	0.995	1.002	1.002			
6/30/2011	1.536	1.240	1.083	0.987	0.983	0.998	0.997				
6/30/2012	1.475	1.256	1.053	0.996	0.996	1.004					
6/30/2013	1.589	1.211	1.050	1.016	0.998						
6/30/2014	1.505	1.304	1.083	0.982							
6/30/2015	1.561	1.342	1.056								
6/30/2016	1.656	1.319									
6/30/2017	1.499										

3 Yr Mean      1.572      1.322      1.063      0.998      0.992      0.999      0.998      0.998      0.999      1.000      1.000

Best 3/5      1.552      1.293      1.064      0.995      0.991      0.998      0.997      0.997      0.999      1.000      1.001

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.001	0.999	1.000	1.000	1.000	0.999	1.001	1.000			
6/30/2000	1.000	0.999	1.001	1.000	1.001	1.000	1.000	1.000 *			
6/30/2001	1.000	1.002	0.999	0.999	1.001	0.999	1.000 *	1.000 *			
6/30/2002	1.000	0.999	1.000	1.000	1.000	1.000 *	1.000 *	1.000 *			
6/30/2003	0.999	0.998	1.000	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2004	1.000	1.000	1.000								
6/30/2005	1.001	0.999									
6/30/2006	1.004										

3 Yr Mean      1.002      0.999      1.000      1.000      1.001 @      0.999 @      1.001 @      1.000 @

Best 3/5      1.000      0.999      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
6/30/2014					0.991	0.998	0.997	0.997	0.999	1.000	1.001
6/30/2015				0.995	0.991	0.998	0.997	0.997	0.999	1.000	1.001
6/30/2016			1.064	0.995	0.991	0.998	0.997	0.997	0.999	1.000	1.001
6/30/2017		1.293	1.064	0.995	0.991	0.998	0.997	0.997	0.999	1.000	1.001
6/30/2018	1.552	1.293	1.064	0.995	0.991	0.998	0.997	0.997	0.999	1.000	1.001

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2014	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.982
6/30/2015	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.977
6/30/2016	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.040
6/30/2017	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.344
6/30/2018	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	2.086

\* 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:

<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>
6/30/1999	4,995,194	8,482,785	12,861,241	14,868,871	15,629,872	14,866,596	14,559,456	15,202,899	15,040,891	15,051,850	15,054,918
6/30/2000	3,959,856	8,251,384	13,838,356	17,063,792	14,000,304	14,227,277	15,570,180	14,801,847	14,650,986	14,692,897	14,487,089
6/30/2001	5,689,169	12,270,464	16,899,118	15,438,126	15,419,864	16,997,325	16,911,199	16,413,672	15,922,140	16,087,272	16,081,424
6/30/2002	5,419,155	10,518,494	14,024,404	15,728,396	15,371,720	15,829,001	15,049,220	15,445,190	15,097,319	15,283,928	15,401,318
6/30/2003	7,737,061	10,723,588	14,422,975	16,876,284	17,538,383	16,454,588	16,257,960	15,915,299	15,904,184	15,720,005	16,127,769
6/30/2004	6,905,812	12,062,677	15,724,104	18,472,590	17,258,557	17,519,647	16,313,518	16,835,393	16,547,574	16,786,612	16,684,042
6/30/2005	7,464,891	13,097,083	16,606,988	16,661,900	17,265,347	16,712,203	17,026,391	16,838,437	16,637,786	16,255,855	16,297,856
6/30/2006	9,534,613	14,245,376	18,919,502	20,588,653	19,345,136	19,690,286	19,898,230	19,670,743	19,651,530	19,504,414	19,661,842
6/30/2007	9,596,791	14,585,329	17,700,856	20,085,590	19,959,173	20,016,863	19,776,711	20,081,427	20,276,028	20,481,253	20,449,818
6/30/2008	11,943,962	15,989,324	20,004,192	22,052,713	22,492,108	21,558,338	21,975,332	21,947,969	22,013,223	21,938,559	21,936,986
6/30/2009	7,497,147	14,592,024	17,536,317	18,226,677	19,426,220	19,185,480	19,434,702	19,193,682	19,433,743	19,566,347	
6/30/2010	10,712,349	15,013,165	18,127,218	19,861,413	20,433,833	20,930,405	20,686,407	20,299,767	20,350,694		
6/30/2011	10,939,172	16,356,756	20,016,883	21,368,106	21,270,180	21,286,772	21,398,904	21,179,758			
6/30/2012	8,822,231	15,383,291	20,162,357	21,518,645	21,654,924	21,609,176	21,816,849				
6/30/2013	8,952,993	15,506,036	17,559,228	19,504,383	19,585,899	19,618,962					
6/30/2014	11,529,796	18,079,169	21,945,688	25,071,270	26,222,944						
6/30/2015	9,440,584	16,683,093	22,783,379	26,489,268							
6/30/2016	9,299,880	14,821,127	22,061,281								
6/30/2017	10,297,207	16,452,420									
6/30/2018	12,316,994										
<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>		
6/30/1999	15,051,612	15,035,013	15,007,473	14,910,013	14,810,013	14,810,015	14,810,013	14,910,013	14,910,013		
6/30/2000	14,536,235	14,626,635	14,560,136	14,565,131	14,560,131	14,466,631	14,466,631	14,504,131			
6/30/2001	15,978,286	16,198,566	16,221,470	16,182,270	16,179,769	16,182,769	16,185,270				
6/30/2002	15,981,641	16,025,570	16,121,230	16,235,631	16,096,959	16,144,459					
6/30/2003	16,310,937	16,367,404	16,363,235	16,314,234	16,371,734						
6/30/2004	16,682,928	16,746,328	16,746,328	16,843,918							
6/30/2005	16,263,279	16,037,646	16,115,146								
6/30/2006	19,795,044	19,819,742									
6/30/2007	20,734,333										

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
6/30/1999	1.698	1.516	1.156	1.051	0.951	0.979	1.044	0.989	1.001	1.000	1.000
6/30/2000	2.084	1.677	1.233	0.820	1.016	1.094	0.951	0.990	1.003	0.986	1.003
6/30/2001	2.157	1.377	0.914	0.999	1.102	0.995	0.971	0.970	1.010	1.000	0.994
6/30/2002	1.941	1.333	1.122	0.977	1.030	0.951	1.026	0.977	1.012	1.008	1.038
6/30/2003	1.386	1.345	1.170	1.039	0.938	0.988	0.979	0.999	0.988	1.026	1.011
6/30/2004	1.747	1.304	1.175	0.934	1.015	0.931	1.032	0.983	1.014	0.994	1.000
6/30/2005	1.754	1.268	1.003	1.036	0.968	1.019	0.989	0.988	0.977	1.003	0.998
6/30/2006	1.494	1.328	1.088	0.940	1.018	1.011	0.989	0.999	0.993	1.008	1.007
6/30/2007	1.520	1.214	1.135	0.994	1.003	0.988	1.015	1.010	1.010	0.998	1.014
6/30/2008	1.339	1.251	1.102	1.020	0.958	1.019	0.999	1.003	0.997	1.000	
6/30/2009	1.946	1.202	1.039	1.066	0.988	1.013	0.988	1.013	1.007		
6/30/2010	1.401	1.207	1.096	1.029	1.024	0.988	0.981	1.003			
6/30/2011	1.495	1.224	1.068	0.995	1.001	1.005	0.990				
6/30/2012	1.744	1.311	1.067	1.006	0.998	1.010					
6/30/2013	1.732	1.132	1.111	1.004	1.002						
6/30/2014	1.568	1.214	1.142	1.046							
6/30/2015	1.767	1.366	1.163								
6/30/2016	1.594	1.489									
6/30/2017	1.598										

3 Yr Mean 1.653 1.356 1.139 1.019 1.000 1.001 0.986 1.006 1.005 1.002 1.006

Best 3/5 1.641 1.297 1.107 1.013 1.000 1.009 0.992 1.005 0.999 1.000 1.006

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	0.999	0.998	0.994	0.993	1.000	1.000	1.007	1.000			
6/30/2000	1.006	0.995	1.000	1.000	0.994	1.000	1.003	1.001 *			
6/30/2001	1.014	1.001	0.998	1.000	1.000	1.000	1.000 *	1.001 *			
6/30/2002	1.003	1.006	1.007	0.991	1.003	1.000 *	1.000 *	1.001 *			
6/30/2003	1.003	1.000	0.997	1.004	0.998 *	1.000 *	1.000 *	1.001 *			
6/30/2004	1.004	1.000	1.006								
6/30/2005	0.986	1.005									
6/30/2006	1.001										

3 Yr Mean 0.997 1.002 1.003 0.998 0.999 @ 1.000 @ 1.005 @ 1.000 @

Best 3/5 1.002 1.002 1.001 0.998 0.999 \* 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
6/30/2014					1.000	1.009	0.992	1.005	0.999	1.000	1.006
6/30/2015				1.013	1.000	1.009	0.992	1.005	0.999	1.000	1.006
6/30/2016			1.107	1.013	1.000	1.009	0.992	1.005	0.999	1.000	1.006
6/30/2017		1.297	1.107	1.013	1.000	1.009	0.992	1.005	0.999	1.000	1.006
6/30/2018	1.641	1.297	1.107	1.013	1.000	1.009	0.992	1.005	0.999	1.000	1.006

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2014	1.002	1.002	1.001	0.998	0.999	1.000	1.001	1.001	1.004*	1.019
6/30/2015	1.002	1.002	1.001	0.998	0.999	1.000	1.001	1.001	1.004*	1.032
6/30/2016	1.002	1.002	1.001	0.998	0.999	1.000	1.001	1.001	1.004*	1.143
6/30/2017	1.002	1.002	1.001	0.998	0.999	1.000	1.001	1.001	1.004*	1.482
6/30/2018	1.002	1.002	1.001	0.998	0.999	1.000	1.001	1.001	1.004*	2.432

\* 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>
6/30/1999	9,955,446	26,236,405	43,630,646	60,198,035	71,249,897	80,311,660	83,292,216	84,843,234	85,973,436	86,140,651	86,919,944
6/30/2000	9,478,179	22,877,500	45,632,074	68,761,345	83,351,018	88,877,777	96,997,598	98,493,010	96,403,484	99,509,133	96,692,265
6/30/2001	9,752,562	28,882,777	57,189,922	83,567,082	101,564,299	108,640,045	112,044,327	114,573,286	116,232,598	117,256,499	119,154,807
6/30/2002	10,816,557	26,875,729	51,166,765	75,067,022	87,083,602	92,488,268	99,943,494	101,621,615	101,965,598	103,231,158	103,238,786
6/30/2003	10,660,572	27,675,364	49,510,236	70,165,864	80,521,813	88,052,384	90,825,729	92,912,611	94,106,011	94,719,464	94,831,474
6/30/2004	9,317,547	24,190,440	49,774,020	70,662,091	80,829,500	89,022,448	91,823,544	93,619,616	93,943,096	94,610,532	94,867,743
6/30/2005	9,461,182	25,453,082	46,389,610	65,858,665	76,717,826	80,741,878	82,815,542	84,047,041	85,800,091	86,009,216	86,669,583
6/30/2006	7,119,520	23,519,090	46,770,305	64,831,806	77,595,645	83,491,864	89,170,774	91,883,289	92,764,597	94,945,134	95,090,870
6/30/2007	8,602,568	24,936,829	48,951,973	67,372,203	76,878,066	82,704,550	85,725,674	87,692,267	88,536,623	89,378,399	89,518,483
6/30/2008	9,252,290	25,257,692	54,035,367	75,827,855	89,977,353	95,969,708	101,592,036	104,113,889	105,234,108	105,883,544	106,345,623
6/30/2009	10,005,274	26,077,646	50,510,570	71,958,429	84,243,511	94,573,673	97,276,734	98,832,760	99,824,708	100,327,173	
6/30/2010	12,170,091	30,794,914	61,202,221	87,041,132	100,276,617	106,549,038	108,797,838	111,211,863	112,121,646		
6/30/2011	12,540,546	36,212,922	61,542,003	86,933,471	99,663,382	112,217,966	114,854,215	116,554,813			
6/30/2012	12,157,160	30,207,623	59,586,371	83,669,797	97,538,576	104,596,301	110,223,832				
6/30/2013	10,689,635	29,575,672	56,567,573	81,663,304	95,232,760	102,369,934					
6/30/2014	11,131,128	31,459,780	65,773,407	93,645,112	106,653,319						
6/30/2015	11,158,636	29,577,002	61,177,174	83,408,458							
6/30/2016	9,384,902	29,931,039	56,859,148								
6/30/2017	12,190,370	31,515,503									
6/30/2018	11,974,647										

<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>
6/30/1999	87,831,169	87,814,073	87,889,126	87,941,035	87,955,177	88,039,606	88,117,706	88,197,632	88,233,448
6/30/2000	96,882,411	97,086,486	97,173,520	97,302,571	97,358,377	97,634,574	97,700,824	97,966,484	
6/30/2001	120,204,514	120,274,313	121,169,324	121,889,768	122,181,495	123,012,402	123,881,544		
6/30/2002	103,560,812	104,145,371	104,966,889	105,067,858	105,154,823	105,307,709			
6/30/2003	95,068,453	95,879,703	96,053,298	96,278,738	96,310,173				
6/30/2004	95,247,831	95,313,186	95,311,855	95,047,128					
6/30/2005	86,793,599	87,423,872	87,560,920						
6/30/2006	95,842,777	96,246,751							
6/30/2007	89,678,006								

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>
6/30/1999	16,280,959	17,394,241	16,567,389	11,051,862	9,061,763	2,980,556	1,551,018	1,130,202	167,215	779,293	911,225	-17,096	75,053
6/30/2000	13,399,321	22,754,574	23,129,271	14,589,673	5,526,759	8,119,821	1,495,412	-2,089,526	3,105,649	-2,816,868	190,146	204,075	87,034
6/30/2001	19,130,215	28,307,145	26,377,160	17,997,217	7,075,746	3,404,282	2,528,959	1,659,312	1,023,901	1,898,308	1,049,707	69,799	895,011
6/30/2002	16,059,172	24,291,036	23,900,257	12,016,580	5,404,666	7,455,226	1,678,121	343,983	1,265,560	7,628	322,026	584,559	821,518
6/30/2003	17,014,792	21,834,872	20,655,628	10,355,949	7,530,571	2,773,345	2,086,882	1,193,400	613,453	112,010	236,979	811,250	173,595
6/30/2004	14,872,893	25,583,580	20,888,071	10,167,409	8,192,948	2,801,096	1,796,072	323,480	667,436	257,211	380,088	65,355	-1,331
6/30/2005	15,991,900	20,936,528	19,469,055	10,859,161	4,024,052	2,073,664	1,231,499	1,753,050	209,125	660,367	124,016	630,273	137,048
6/30/2006	16,399,570	23,251,215	18,061,501	12,763,839	5,896,219	5,678,910	2,712,515	881,308	2,180,537	145,736	751,907	403,974	
6/30/2007	16,334,261	24,015,144	18,420,230	9,505,863	5,826,484	3,021,124	1,966,593	844,356	841,776	140,084	159,523		
6/30/2008	16,005,402	28,777,675	21,792,488	14,149,498	5,992,355	5,622,328	2,521,853	1,120,219	649,436	462,079			
6/30/2009	16,072,372	24,432,924	21,447,859	12,285,082	10,330,162	2,703,061	1,556,026	991,948	502,465				
6/30/2010	18,624,823	30,407,307	25,838,911	13,235,485	6,272,421	2,248,800	2,414,025	909,783					
6/30/2011	23,672,376	25,329,081	25,391,468	12,729,911	12,554,584	2,636,249	1,700,598						
6/30/2012	18,050,463	29,378,748	24,083,426	13,868,779	7,057,725	5,627,531							
6/30/2013	18,886,037	26,991,901	25,095,731	13,569,456	7,137,174								
6/30/2014	20,328,652	34,313,627	27,871,705	13,008,207									
6/30/2015	18,418,366	31,600,172	22,231,284										
6/30/2016	20,546,137	26,928,109											
6/30/2017	19,325,133												

A.Y.E.	Incremental Percentages												
	<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>
6/30/1999	0.0547	0.0584	0.0556	0.0371	0.0304	0.0100	0.0052	0.0038	0.0006	0.0026	0.0031	-0.0001	0.0003
6/30/2000	0.0450	0.0764	0.0776	0.0490	0.0185	0.0272	0.0050	-0.0070	0.0104	-0.0095	0.0006	0.0007	0.0003
6/30/2001	0.0583	0.0863	0.0804	0.0549	0.0216	0.0104	0.0077	0.0051	0.0031	0.0058	0.0032	0.0002	0.0027
6/30/2002	0.0619	0.0937	0.0922	0.0463	0.0208	0.0287	0.0065	0.0013	0.0049	0.0000	0.0012	0.0023	0.0032
6/30/2003	0.0651	0.0836	0.0791	0.0396	0.0288	0.0106	0.0080	0.0046	0.0023	0.0004	0.0009	0.0031	0.0007
6/30/2004	0.0560	0.0963	0.0786	0.0383	0.0308	0.0105	0.0068	0.0012	0.0025	0.0010	0.0014	0.0002	0.0000
6/30/2005	0.0657	0.0861	0.0800	0.0446	0.0165	0.0085	0.0051	0.0072	0.0009	0.0027	0.0005	0.0026	0.0006
6/30/2006	0.0670	0.0951	0.0738	0.0522	0.0241	0.0232	0.0111	0.0036	0.0089	0.0006	0.0031	0.0017	
6/30/2007	0.0638	0.0939	0.0720	0.0372	0.0228	0.0118	0.0077	0.0033	0.0033	0.0005	0.0006		
6/30/2008	0.0562	0.1011	0.0765	0.0497	0.0210	0.0197	0.0089	0.0039	0.0023	0.0016			
6/30/2009	0.0576	0.0876	0.0769	0.0441	0.0370	0.0097	0.0056	0.0036	0.0018				
6/30/2010	0.0701	0.1145	0.0973	0.0498	0.0236	0.0085	0.0091	0.0034					
6/30/2011	0.0788	0.0843	0.0845	0.0424	0.0418	0.0088	0.0057						
6/30/2012	0.0665	0.1083	0.0887	0.0511	0.0260	0.0207							
6/30/2013	0.0692	0.0990	0.0920	0.0497	0.0262								
6/30/2014	0.0619	0.1045	0.0849	0.0396									
6/30/2015	0.0635	0.1089	0.0766										
6/30/2016	0.0754	0.0988											
6/30/2017	0.0680												

Best 3/5	0.0669	0.1039	0.0860	0.0473	0.0297	0.0127	0.0074	0.0035	0.0025	0.0011	0.0010	0.0022	0.0013
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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:

<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>
6/30/1999	100,178,413	112,793,374	130,373,630	128,498,755	131,031,245	130,703,589	129,784,968	128,610,400	129,053,090	129,025,258	129,387,684
6/30/2000	112,468,340	138,900,386	142,040,719	147,308,200	147,304,434	146,802,038	145,598,915	146,261,424	146,730,135	147,159,536	147,061,643
6/30/2001	122,177,058	131,830,006	142,633,669	147,896,581	148,854,993	149,469,533	150,274,812	150,155,421	150,897,438	151,901,523	152,379,533
6/30/2002	103,951,688	118,482,706	123,656,012	125,915,017	126,653,844	127,698,496	127,618,297	128,096,231	128,221,684	128,798,205	129,315,573
6/30/2003	90,241,061	100,906,778	106,940,377	108,398,813	108,271,179	109,085,291	109,277,247	110,362,481	110,722,507	110,870,847	111,116,971
6/30/2004	100,318,610	114,324,744	119,902,441	120,731,507	121,200,663	121,551,105	121,461,318	122,142,515	122,485,289	122,639,244	123,030,019
6/30/2005	105,747,728	114,235,388	115,554,329	118,151,469	119,006,473	119,205,060	120,044,325	120,858,856	121,001,455	121,698,564	121,737,657
6/30/2006	108,426,995	118,787,003	121,974,529	123,188,420	124,219,331	125,177,847	126,434,411	127,536,562	128,144,730	129,064,083	129,195,490
6/30/2007	114,190,695	125,322,002	128,746,034	130,247,430	131,835,910	133,404,121	134,621,772	135,432,855	136,293,760	137,149,609	137,024,637
6/30/2008	121,539,633	133,410,684	136,607,464	137,764,596	140,004,216	141,678,393	142,674,596	143,549,858	144,170,999	144,699,058	146,034,790
6/30/2009	124,015,840	133,835,469	137,105,707	139,733,320	139,506,592	140,562,975	141,159,052	141,882,147	143,587,560	144,621,388	
6/30/2010	116,587,922	127,706,246	129,856,035	131,877,624	133,161,837	133,219,891	134,038,577	134,328,012	135,187,952		
6/30/2011	127,322,433	138,393,726	142,647,132	142,720,000	143,145,125	143,864,980	144,688,259	145,763,217			
6/30/2012	131,911,937	141,137,271	143,259,908	144,114,179	145,221,539	146,154,742	147,466,922				
6/30/2013	124,112,211	134,193,540	139,398,967	140,659,454	141,438,084	143,079,729					
6/30/2014	123,178,911	133,854,123	138,943,357	140,187,940	143,388,600						
6/30/2015	123,926,125	135,860,626	143,164,756	149,568,962							
6/30/2016	126,836,271	141,566,668	148,616,767								
6/30/2017	136,058,021	152,605,497									
6/30/2018	143,319,666										

  

<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>
6/30/1999	129,449,091	129,772,448	129,511,405	129,690,465	129,727,588	129,651,202	129,729,065	129,942,486	130,007,327
6/30/2000	147,652,784	146,932,198	146,868,267	146,848,408	146,939,065	146,935,827	147,166,063	147,413,554	
6/30/2001	152,287,390	152,179,388	152,424,272	152,347,320	152,478,777	152,644,186	152,900,240		
6/30/2002	129,283,827	129,465,977	129,864,250	130,356,985	130,461,563	130,358,529			
6/30/2003	111,590,350	111,723,111	111,931,495	111,922,644	111,956,823				
6/30/2004	123,293,094	123,415,085	123,849,312	124,047,485					
6/30/2005	121,819,505	122,229,754	122,282,204						
6/30/2006	129,283,728	129,905,837							
6/30/2007	137,307,238								

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
6/30/1999	1.126	1.156	0.986	1.020	0.997	0.993	0.991	1.003	1.000	1.003	1.000
6/30/2000	1.235	1.023	1.037	1.000	0.997	0.992	1.005	1.003	1.003	0.999	1.004
6/30/2001	1.079	1.082	1.037	1.006	1.004	1.005	0.999	1.005	1.007	1.003	0.999
6/30/2002	1.140	1.044	1.018	1.006	1.008	0.999	1.004	1.001	1.004	1.004	1.000
6/30/2003	1.118	1.060	1.014	0.999	1.008	1.002	1.010	1.003	1.001	1.002	1.004
6/30/2004	1.140	1.049	1.007	1.004	1.003	0.999	1.006	1.003	1.001	1.003	1.002
6/30/2005	1.080	1.012	1.022	1.007	1.002	1.007	1.007	1.001	1.006	1.000	1.001
6/30/2006	1.096	1.027	1.010	1.008	1.008	1.010	1.009	1.005	1.007	1.001	1.001
6/30/2007	1.097	1.027	1.012	1.012	1.012	1.009	1.006	1.006	1.006	0.999	1.002
6/30/2008	1.098	1.024	1.008	1.016	1.012	1.007	1.006	1.004	1.004	1.009	
6/30/2009	1.079	1.024	1.019	0.998	1.008	1.004	1.005	1.012	1.007		
6/30/2010	1.095	1.017	1.016	1.010	1.000	1.006	1.002	1.006			
6/30/2011	1.087	1.031	1.001	1.003	1.005	1.006	1.007				
6/30/2012	1.070	1.015	1.006	1.008	1.006	1.009					
6/30/2013	1.081	1.039	1.009	1.006	1.012						
6/30/2014	1.087	1.038	1.009	1.023							
6/30/2015	1.096	1.054	1.045								
6/30/2016	1.116	1.050									
6/30/2017	1.122										

3 Yr Mean	1.111	1.047	1.021	1.012	1.008	1.007	1.005	1.007	1.006	1.003	1.001
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Best 3/5	1.100	1.042	1.008	1.008	1.006	1.006	1.006	1.006	1.006	1.001	1.002
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A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.002	0.998	1.001	1.000	0.999	1.001	1.002	1.000			
6/30/2000	0.995	1.000	1.000	1.001	1.000	1.002	1.002	1.001 *			
6/30/2001	0.999	1.002	0.999	1.001	1.001	1.002	1.001 *	1.001 *			
6/30/2002	1.001	1.003	1.004	1.001	0.999	1.000 *	1.001 *	1.001 *			
6/30/2003	1.001	1.002	1.000	1.000	1.001 *	1.000 *	1.001 *	1.001 *			
6/30/2004	1.001	1.004	1.002								
6/30/2005	1.003	1.000									
6/30/2006	1.005										

3 Yr Mean	1.003	1.002	1.002	1.001	1.000 @	1.002 @	1.002 @	1.000 @			
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Best 3/5	1.002	1.002	1.001	1.001	1.000 *	1.001 *	1.001 *	1.001 *			
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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
6/30/2014					1.006	1.006	1.006	1.006	1.006	1.001	1.002
6/30/2015				1.008	1.006	1.006	1.006	1.006	1.006	1.001	1.002
6/30/2016			1.008	1.008	1.006	1.006	1.006	1.006	1.006	1.001	1.002
6/30/2017		1.042	1.008	1.008	1.006	1.006	1.006	1.006	1.006	1.001	1.002
6/30/2018	1.100	1.042	1.008	1.008	1.006	1.006	1.006	1.006	1.006	1.001	1.002

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
6/30/2014	1.002	1.002	1.001	1.001	1.000	1.001	1.001	1.001	1.004*	1.047
6/30/2015	1.002	1.002	1.001	1.001	1.000	1.001	1.001	1.001	1.004*	1.055
6/30/2016	1.002	1.002	1.001	1.001	1.000	1.001	1.001	1.001	1.004*	1.064
6/30/2017	1.002	1.002	1.001	1.001	1.000	1.001	1.001	1.001	1.004*	1.108
6/30/2018	1.002	1.002	1.001	1.001	1.000	1.001	1.001	1.001	1.004*	1.219

\* 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:

<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>
6/30/1999	18,321,642	20,961,282	22,690,225	24,434,303	26,461,881	26,933,635	27,032,469	27,277,027	27,370,140	27,457,279	27,437,041
6/30/2000	18,650,539	23,404,845	26,326,738	28,550,483	29,310,449	29,193,108	29,433,746	29,216,956	29,331,179	29,656,997	29,924,591
6/30/2001	21,794,339	27,192,113	29,745,076	31,330,956	32,008,438	32,448,826	32,740,571	33,461,792	34,106,368	34,103,772	33,833,115
6/30/2002	19,760,806	24,291,206	24,667,678	24,782,824	25,101,023	26,429,201	26,482,284	27,134,855	27,113,667	27,179,224	27,176,371
6/30/2003	20,595,173	22,405,027	22,601,793	23,169,686	24,324,166	24,205,043	24,694,956	24,911,157	25,105,255	25,310,129	25,340,468
6/30/2004	20,951,069	23,770,264	25,972,686	26,196,592	26,364,294	26,935,291	27,166,950	27,319,042	27,403,025	27,480,410	27,658,533
6/30/2005	22,364,275	25,231,063	26,986,462	27,645,577	27,888,014	27,668,178	27,939,443	28,093,695	28,603,576	28,794,741	28,885,918
6/30/2006	22,425,304	25,863,115	26,800,769	27,233,177	27,030,371	27,424,148	27,779,513	28,013,504	28,111,817	28,514,788	28,478,718
6/30/2007	25,910,381	27,607,426	28,698,815	28,739,602	28,747,995	28,572,948	29,145,284	28,986,163	29,029,328	29,150,646	29,200,557
6/30/2008	26,991,213	30,367,697	31,628,355	32,420,333	31,943,153	32,755,097	32,793,037	32,575,810	33,020,278	33,179,203	33,441,951
6/30/2009	28,183,854	28,683,654	29,885,237	30,349,154	30,187,568	30,117,129	29,847,901	30,223,665	30,475,589	30,856,044	
6/30/2010	22,210,374	23,833,508	24,440,514	24,964,472	24,865,716	25,076,979	25,701,270	25,666,968	25,900,803		
6/30/2011	23,439,538	24,551,533	25,467,644	25,443,663	25,583,496	25,878,863	25,872,996	26,856,085			
6/30/2012	22,380,280	24,843,523	25,951,152	26,155,865	26,081,760	26,418,358	27,007,298				
6/30/2013	21,402,468	23,655,201	24,924,406	25,016,624	24,508,235	25,103,917					
6/30/2014	23,237,903	25,321,748	25,917,401	26,179,732	26,788,725						
6/30/2015	24,803,994	27,453,181	28,400,928	30,481,199							
6/30/2016	25,851,001	27,490,608	29,768,741								
6/30/2017	22,232,350	27,968,059									
6/30/2018	28,375,138										
<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>		
6/30/1999	27,463,534	27,530,991	27,472,660	27,468,512	27,470,512	27,468,512	27,456,137	27,472,804	27,475,983		
6/30/2000	29,866,373	29,681,489	29,681,086	29,636,086	29,638,417	29,486,394	29,502,961	29,506,140			
6/30/2001	34,010,578	34,183,737	34,293,005	34,301,597	34,201,410	34,250,477	34,263,755				
6/30/2002	27,360,428	27,401,957	27,240,041	27,106,124	27,116,288	27,030,027					
6/30/2003	25,409,065	25,350,007	25,303,960	25,390,776	25,350,204						
6/30/2004	27,628,861	27,595,778	27,632,493	27,640,449							
6/30/2005	28,795,582	28,994,461	29,059,953								
6/30/2006	28,725,696	28,672,850									
6/30/2007	29,496,550										

PREMISES/OPERATIONS (Subline Code 334)  
MANUFACTURERS AND CONTRACTORS  
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
6/30/1999	1.144	1.082	1.077	1.083	1.018	1.004	1.009	1.003	1.003	0.999	1.001
6/30/2000	1.255	1.125	1.084	1.027	0.996	1.008	0.993	1.004	1.011	1.009	0.998
6/30/2001	1.248	1.094	1.053	1.022	1.014	1.009	1.022	1.019	1.000	0.992	1.005
6/30/2002	1.229	1.015	1.005	1.013	1.053	1.002	1.025	0.999	1.002	1.000	1.007
6/30/2003	1.088	1.009	1.025	1.050	0.995	1.020	1.009	1.008	1.008	1.001	1.003
6/30/2004	1.135	1.093	1.009	1.006	1.022	1.009	1.006	1.003	1.003	1.006	0.999
6/30/2005	1.128	1.070	1.024	1.009	0.992	1.010	1.002	1.018	1.007	1.003	0.997
6/30/2006	1.153	1.036	1.016	0.993	1.015	1.013	1.008	1.004	1.014	0.999	1.009
6/30/2007	1.065	1.040	1.001	1.000	0.994	1.020	0.995	1.001	1.004	1.002	1.010
6/30/2008	1.125	1.042	1.025	0.985	1.025	1.001	0.993	1.014	1.005	1.008	
6/30/2009	1.018	1.042	1.016	0.995	0.998	0.991	1.013	1.008	1.012		
6/30/2010	1.073	1.025	1.021	0.996	1.008	1.025	0.999	1.009			
6/30/2011	1.047	1.037	0.999	1.005	1.012	1.000	1.038				
6/30/2012	1.110	1.045	1.008	0.997	1.013	1.022					
6/30/2013	1.105	1.054	1.004	0.980	1.024						
6/30/2014	1.090	1.024	1.010	1.023							
6/30/2015	1.107	1.035	1.073								
6/30/2016	1.063	1.083									
6/30/2017	1.258										

3 Yr Mean	1.143	1.047	1.029	1.000	1.016	1.016	1.017	1.010	1.007	1.003	1.005
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Best 3/5	1.101	1.045	1.007	0.999	1.011	1.008	1.002	1.007	1.008	1.004	1.004
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A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231
6/30/1999	1.002	0.998	1.000	1.000	1.000	1.000	1.001	1.000
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	1.001	1.000	1.000 *	1.000 *
6/30/2002	1.002	0.994	0.995	1.000	0.997	0.999 *	1.000 *	1.000 *
6/30/2003	0.998	0.998	1.003	0.998	0.999 *	0.999 *	1.000 *	1.000 *
6/30/2004	0.999	1.001	1.000					
6/30/2005	1.007	1.002						
6/30/2006	0.998							

3 Yr Mean	1.001	1.000	0.999	0.998	0.998 @	1.000 @	1.001 @	1.000 @
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Best 3/5	1.000	1.000	0.999	0.999	0.999 *	1.000 *	1.000 *	1.000 *
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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
6/30/2014					1.011	1.008	1.002	1.007	1.008	1.004	1.004
6/30/2015				0.999	1.011	1.008	1.002	1.007	1.008	1.004	1.004
6/30/2016			1.007	0.999	1.011	1.008	1.002	1.007	1.008	1.004	1.004
6/30/2017		1.045	1.007	0.999	1.011	1.008	1.002	1.007	1.008	1.004	1.004
6/30/2018	1.101	1.045	1.007	0.999	1.011	1.008	1.002	1.007	1.008	1.004	1.004

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/243	243/243	FACTORS
6/30/2014	1.000	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000*	1.000*	1.042
6/30/2015	1.000	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000*	1.000*	1.041
6/30/2016	1.000	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000*	1.000*	1.048
6/30/2017	1.000	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000*	1.000*	1.095
6/30/2018	1.000	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000*	1.000*	1.206

\* 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>
6/30/1999	7,815,113	14,569,586	21,814,717	27,479,676	31,784,229	35,117,841	37,072,141	41,288,777	44,148,307	47,709,720	48,672,610
6/30/2000	9,601,865	17,505,898	22,980,827	31,078,617	37,197,439	43,501,945	47,165,272	50,489,581	53,759,895	55,193,024	55,042,598
6/30/2001	10,793,316	16,242,496	25,983,401	37,299,020	48,472,879	54,709,641	60,093,981	63,408,474	65,311,538	66,401,535	68,515,619
6/30/2002	7,898,511	15,803,364	22,863,304	30,559,482	37,419,511	42,531,469	45,397,946	46,847,783	48,449,278	48,904,556	49,684,847
6/30/2003	8,162,313	15,125,720	23,111,682	30,605,795	36,214,729	37,467,905	41,510,529	42,269,516	43,562,447	44,834,536	45,909,784
6/30/2004	7,000,107	14,341,690	23,064,353	30,983,311	36,170,600	39,387,041	40,546,663	42,164,737	43,529,794	44,176,856	44,725,034
6/30/2005	8,629,921	13,903,590	20,407,723	27,329,041	32,476,877	35,594,874	38,682,880	40,231,640	41,669,194	42,437,567	43,010,228
6/30/2006	8,462,321	15,553,940	24,221,950	31,035,999	36,932,412	41,617,107	44,307,087	46,922,537	48,882,999	50,345,928	51,701,493
6/30/2007	7,731,780	14,583,733	22,919,447	30,328,980	37,511,833	42,717,572	45,445,674	47,138,637	49,405,210	50,559,192	51,452,367
6/30/2008	9,510,579	18,334,512	28,080,009	35,996,824	42,399,168	44,986,195	47,877,791	52,436,932	55,093,687	57,598,634	59,320,128
6/30/2009	8,530,030	16,159,032	24,533,231	32,272,346	38,114,264	41,219,418	43,018,901	44,498,965	46,089,711	47,542,257	
6/30/2010	9,580,121	19,571,262	26,346,157	34,445,454	39,182,046	41,354,204	44,746,156	45,964,347	48,171,793		
6/30/2011	9,468,390	16,747,505	26,281,617	32,564,185	36,411,204	39,540,471	41,310,591	43,604,555			
6/30/2012	10,634,824	18,465,836	26,170,747	29,708,887	34,218,442	37,178,301	38,270,942				
6/30/2013	10,349,470	20,205,169	31,922,674	42,366,299	49,936,315	54,899,726					
6/30/2014	9,930,669	20,439,728	31,536,969	38,755,457	46,285,763						
6/30/2015	8,292,009	16,627,706	26,240,495	36,821,818							
6/30/2016	10,616,352	21,621,604	29,730,573								
6/30/2017	10,587,409	18,997,982									
6/30/2018	11,602,851										

<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>
6/30/1999	48,696,381	49,184,739	49,118,654	49,246,835	49,409,055	49,557,020	49,628,897	49,508,928	50,294,684
6/30/2000	56,655,103	56,546,496	56,127,397	56,137,603	56,181,050	56,188,391	56,268,125	56,306,894	
6/30/2001	70,128,342	69,988,529	69,689,374	70,039,603	70,162,632	70,343,503	70,429,705		
6/30/2002	50,463,931	50,714,123	51,722,972	51,982,199	52,026,457	52,352,004			
6/30/2003	46,862,029	47,971,751	48,328,601	48,440,189	48,624,589				
6/30/2004	45,204,365	45,750,672	47,713,794	48,290,215					
6/30/2005	43,006,160	43,869,454	44,249,086						
6/30/2006	52,821,540	53,700,495							
6/30/2007	52,422,409								

PREMISES/OPERATIONS (Subline Code 334)  
 MANUFACTURERS AND CONTRACTORS  
 FULL COVERAGE  
 MULTISTATE  
 PROPERTY DAMAGE - 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>
6/30/1999	6,754,473	7,245,131	5,664,959	4,304,553	3,333,612	1,954,300	4,216,636	2,859,530	3,561,413	962,890	23,771	488,358	-66,085
6/30/2000	7,904,033	5,474,929	8,097,790	6,118,822	6,304,506	3,663,327	3,324,309	3,270,314	1,433,129	-150,426	1,612,505	-108,607	-419,099
6/30/2001	5,449,180	9,740,905	11,315,619	11,173,859	6,236,762	5,384,340	3,314,493	1,903,064	1,089,997	2,114,084	1,612,723	-139,813	-299,155
6/30/2002	7,904,853	7,059,940	7,696,178	6,860,029	5,111,958	2,866,477	1,449,837	1,601,495	455,278	780,291	779,084	250,192	1,008,849
6/30/2003	6,963,407	7,985,962	7,494,113	5,608,934	1,253,176	4,042,624	758,987	1,292,931	1,272,089	1,075,248	952,245	1,109,722	356,850
6/30/2004	7,341,583	8,722,663	7,918,958	5,187,289	3,216,441	1,159,622	1,618,074	1,365,057	647,062	548,178	479,331	546,307	1,963,122
6/30/2005	5,273,669	6,504,133	6,921,318	5,147,836	3,117,997	3,088,006	1,548,760	1,437,554	768,373	572,661	-4,068	863,294	379,632
6/30/2006	7,091,619	8,668,010	6,814,049	5,896,413	4,684,695	2,689,980	2,615,450	1,960,462	1,462,929	1,355,565	1,120,047	878,955	
6/30/2007	6,851,953	8,335,714	7,409,533	7,182,853	5,205,739	2,728,102	1,692,963	2,266,573	1,153,982	893,175	970,042		
6/30/2008	8,823,933	9,745,497	7,916,815	6,402,344	2,587,027	2,891,596	4,559,141	2,656,755	2,504,947	1,721,494			
6/30/2009	7,629,002	8,374,199	7,739,115	5,841,918	3,105,154	1,799,483	1,480,064	1,590,746	1,452,546				
6/30/2010	9,991,141	6,774,895	8,099,297	4,736,592	2,172,158	3,391,952	1,218,191	2,207,446					
6/30/2011	7,279,115	9,534,112	6,282,568	3,847,019	3,129,267	1,770,120	2,293,964						
6/30/2012	7,831,012	7,704,911	3,538,140	4,509,555	2,959,859	1,092,641							
6/30/2013	9,855,699	11,717,505	10,443,625	7,570,016	4,963,411								
6/30/2014	10,509,059	11,097,241	7,218,488	7,530,306									
6/30/2015	8,335,697	9,612,789	10,581,323										
6/30/2016	11,005,252	8,108,969											
6/30/2017	8,410,573												

A.Y.E.	Incremental Percentages												
	<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>
6/30/1999	0.0412	0.0442	0.0346	0.0263	0.0203	0.0119	0.0257	0.0175	0.0217	0.0059	0.0001	0.0030	-0.0004
6/30/2000	0.0410	0.0284	0.0420	0.0318	0.0327	0.0190	0.0173	0.0170	0.0074	-0.0008	0.0084	-0.0006	-0.0022
6/30/2001	0.0274	0.0491	0.0570	0.0563	0.0314	0.0271	0.0167	0.0096	0.0055	0.0106	0.0081	-0.0007	-0.0015
6/30/2002	0.0468	0.0418	0.0456	0.0406	0.0303	0.0170	0.0086	0.0095	0.0027	0.0046	0.0046	0.0015	0.0060
6/30/2003	0.0475	0.0545	0.0511	0.0383	0.0086	0.0276	0.0052	0.0088	0.0087	0.0073	0.0065	0.0076	0.0024
6/30/2004	0.0455	0.0540	0.0491	0.0321	0.0199	0.0072	0.0100	0.0085	0.0040	0.0034	0.0030	0.0034	0.0122
6/30/2005	0.0332	0.0409	0.0436	0.0324	0.0196	0.0194	0.0097	0.0090	0.0048	0.0036	0.0000	0.0054	0.0024
6/30/2006	0.0419	0.0512	0.0402	0.0348	0.0277	0.0159	0.0154	0.0116	0.0086	0.0080	0.0066	0.0052	
6/30/2007	0.0394	0.0479	0.0426	0.0413	0.0299	0.0157	0.0097	0.0130	0.0066	0.0051	0.0056		
6/30/2008	0.0453	0.0500	0.0406	0.0329	0.0133	0.0148	0.0234	0.0136	0.0129	0.0088			
6/30/2009	0.0397	0.0436	0.0403	0.0304	0.0162	0.0094	0.0077	0.0083	0.0076				
6/30/2010	0.0548	0.0372	0.0444	0.0260	0.0119	0.0186	0.0067	0.0121					
6/30/2011	0.0369	0.0483	0.0319	0.0195	0.0159	0.0090	0.0116						
6/30/2012	0.0397	0.0391	0.0180	0.0229	0.0150	0.0055							
6/30/2013	0.0503	0.0598	0.0533	0.0386	0.0253								
6/30/2014	0.0520	0.0549	0.0357	0.0373									
6/30/2015	0.0390	0.0450	0.0495										
6/30/2016	0.0528	0.0389											
6/30/2017	0.0372												

Best 3/5	0.0471	0.0463	0.0390	0.0287	0.0157	0.0111	0.0097	0.0122	0.0076	0.0056	0.0050	0.0047	0.0036
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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:

<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>
6/30/1999	8,500,424	11,876,436	13,320,543	14,463,920	14,410,652	14,771,487	14,771,348	15,403,802	15,324,396	15,284,534	15,276,770
6/30/2000	10,247,894	13,111,279	15,820,913	17,048,023	16,958,916	16,882,389	17,040,704	17,336,962	16,976,855	16,948,918	16,993,013
6/30/2001	10,145,846	14,305,943	16,711,478	17,137,826	17,539,665	17,685,543	18,298,002	18,491,169	18,035,413	17,772,909	17,978,027
6/30/2002	9,977,177	14,508,720	15,508,828	15,628,075	15,995,119	15,636,666	15,304,409	15,147,222	15,109,914	14,933,648	14,851,304
6/30/2003	9,856,151	10,972,116	12,367,463	13,784,057	12,949,285	13,040,122	12,157,950	12,303,722	12,396,771	12,178,728	12,205,744
6/30/2004	12,301,191	18,147,548	21,569,979	22,183,962	22,180,097	20,697,729	19,901,422	19,791,093	19,611,669	19,787,541	19,519,052
6/30/2005	13,135,207	16,146,880	17,942,100	18,449,213	17,578,594	17,123,033	16,999,632	17,084,610	17,077,655	16,959,789	16,957,599
6/30/2006	13,787,799	17,894,314	18,741,145	17,991,995	17,859,205	17,646,961	17,488,346	17,459,750	17,210,155	17,501,905	17,378,808
6/30/2007	13,362,549	15,247,290	16,923,486	17,098,572	16,121,140	15,995,823	15,645,510	15,752,329	15,481,115	15,457,457	15,551,823
6/30/2008	10,096,987	12,032,744	12,691,000	12,684,812	12,600,082	12,228,169	12,034,453	12,040,799	12,083,145	12,058,353	12,242,687
6/30/2009	8,854,880	11,222,369	11,813,974	11,715,349	11,552,868	11,487,547	11,121,946	11,065,938	10,929,560	10,942,248	
6/30/2010	9,864,829	11,055,826	11,954,860	11,989,238	11,439,806	11,459,396	11,530,355	11,465,081	11,531,116		
6/30/2011	7,839,488	9,303,882	10,254,244	9,371,481	9,489,869	9,613,430	9,990,725	9,977,960			
6/30/2012	5,754,930	7,097,155	7,624,643	8,549,774	8,161,545	8,643,694	8,631,516				
6/30/2013	6,124,843	7,356,485	7,993,711	8,650,915	8,961,018	9,154,401					
6/30/2014	5,687,270	8,813,769	10,104,126	10,609,393	10,509,217						
6/30/2015	7,819,510	10,452,368	11,227,262	12,420,128							
6/30/2016	7,579,451	9,429,209	10,139,046								
6/30/2017	6,977,691	9,611,607									
6/30/2018	8,088,163										
<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>		
6/30/1999	15,262,369	15,257,080	15,192,031	15,193,130	15,220,937	15,245,290	15,164,238	15,151,824	15,164,937		
6/30/2000	17,006,712	17,005,001	16,992,985	17,036,569	17,018,128	17,016,312	17,009,482	17,009,497			
6/30/2001	17,795,264	17,751,318	17,994,254	17,879,254	17,979,254	17,959,245	18,059,229				
6/30/2002	14,972,333	14,911,222	14,900,691	14,931,511	14,919,007	14,919,007					
6/30/2003	11,957,481	11,957,481	12,057,481	12,065,481	12,065,481						
6/30/2004	19,607,696	19,630,348	19,612,696	19,612,696							
6/30/2005	16,857,599	16,796,619	16,791,619								
6/30/2006	17,275,413	17,261,247									
6/30/2007	15,607,572										

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
6/30/1999	1.397	1.122	1.086	0.996	1.025	1.000	1.043	0.995	0.997	0.999	0.999
6/30/2000	1.279	1.207	1.078	0.995	0.995	1.009	1.017	0.979	0.998	1.003	1.001
6/30/2001	1.410	1.168	1.026	1.023	1.008	1.035	1.011	0.975	0.985	1.012	0.990
6/30/2002	1.454	1.069	1.008	1.023	0.978	0.979	0.990	0.998	0.988	0.994	1.008
6/30/2003	1.113	1.127	1.115	0.939	1.007	0.932	1.012	1.008	0.982	1.002	0.980
6/30/2004	1.475	1.189	1.028	1.000	0.933	0.962	0.994	0.991	1.009	0.986	1.005
6/30/2005	1.229	1.111	1.028	0.953	0.974	0.993	1.005	1.000	0.993	1.000	0.994
6/30/2006	1.298	1.047	0.960	0.993	0.988	0.991	0.998	0.986	1.017	0.993	0.994
6/30/2007	1.141	1.110	1.010	0.943	0.992	0.978	1.007	0.983	0.998	1.006	1.004
6/30/2008	1.192	1.055	1.000	0.993	0.970	0.984	1.001	1.004	0.998	1.015	
6/30/2009	1.267	1.053	0.992	0.986	0.994	0.968	0.995	0.988	1.001		
6/30/2010	1.121	1.081	1.003	0.954	1.002	1.006	0.994	1.006			
6/30/2011	1.187	1.102	0.914	1.013	1.013	1.039	0.999				
6/30/2012	1.233	1.074	1.121	0.955	1.059	0.999					
6/30/2013	1.201	1.087	1.082	1.036	1.022						
6/30/2014	1.550	1.146	1.050	0.991							
6/30/2015	1.337	1.074	1.106								
6/30/2016	1.244	1.075									
6/30/2017	1.377										

3 Yr Mean	1.319	1.098	1.079	0.994	1.031	1.015	0.996	0.999	0.999	1.005	0.997
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Best 3/5	1.319	1.079	1.079	0.986	1.012	0.996	0.998	0.993	0.999	1.000	0.997
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A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.000	0.996	1.000	1.002	1.002	0.995	0.999	1.001			
6/30/2000	1.000	0.999	1.003	0.999	1.000	1.000	1.000	1.000 *			
6/30/2001	0.998	1.014	0.994	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	1.008	1.001	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
6/30/2004	1.001	0.999	1.000								
6/30/2005	0.996	1.000									
6/30/2006	0.999										

3 Yr Mean	0.999	1.002	1.001	1.002	1.000 @	1.000 @	1.000 @	1.001 @			
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Best 3/5	0.998	1.002	1.001	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
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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
6/30/2014					1.012	0.996	0.998	0.993	0.999	1.000	0.997
6/30/2015				0.986	1.012	0.996	0.998	0.993	0.999	1.000	0.997
6/30/2016			1.079	0.986	1.012	0.996	0.998	0.993	0.999	1.000	0.997
6/30/2017		1.079	1.079	0.986	1.012	0.996	0.998	0.993	0.999	1.000	0.997
6/30/2018	1.319	1.079	1.079	0.986	1.012	0.996	0.998	0.993	0.999	1.000	0.997

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/211	FACTORS
6/30/2014	0.998	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	0.996
6/30/2015	0.998	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	0.982
6/30/2016	0.998	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.060
6/30/2017	0.998	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.143
6/30/2018	0.998	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.508

\* 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>
6/30/1999	2,329,019	5,887,398	9,907,004	13,725,982	16,350,221	20,477,870	22,912,759	24,862,377	25,266,431	25,821,199	26,348,551
6/30/2000	2,648,320	5,425,458	8,573,253	11,518,040	12,530,896	13,880,668	14,611,044	15,244,577	16,971,270	17,969,116	18,394,561
6/30/2001	2,424,611	7,148,865	11,067,457	13,696,679	15,649,436	16,318,141	16,984,473	17,688,209	18,367,662	18,621,119	18,927,739
6/30/2002	1,738,921	7,014,860	10,583,859	11,906,687	13,290,893	14,534,324	14,698,021	15,010,727	15,134,724	15,279,596	15,341,028
6/30/2003	1,745,309	4,480,854	6,646,035	9,831,490	10,754,644	11,558,578	11,757,091	12,291,335	12,631,786	12,717,016	12,778,714
6/30/2004	1,726,055	4,986,475	9,495,979	14,932,601	22,173,610	25,430,156	21,568,977	21,534,266	22,472,730	22,438,782	23,821,292
6/30/2005	2,208,017	4,666,481	10,875,284	13,192,951	15,429,692	16,377,296	16,652,408	16,819,592	17,232,695	18,465,309	18,478,285
6/30/2006	1,364,578	4,852,370	10,390,293	15,468,923	17,533,549	19,015,991	19,616,769	19,754,319	20,149,501	20,002,834	20,225,405
6/30/2007	2,213,878	4,546,226	7,340,527	9,381,019	11,099,011	12,885,263	13,709,313	14,459,431	14,567,936	14,604,831	14,576,022
6/30/2008	1,773,240	5,291,114	10,850,800	12,393,434	13,828,563	14,976,900	15,365,496	16,117,375	16,388,736	16,464,653	16,512,562
6/30/2009	1,228,810	3,241,040	7,499,546	12,510,632	13,777,070	15,190,952	16,408,773	16,739,508	17,660,345	18,254,031	
6/30/2010	1,817,135	5,384,659	9,393,463	11,672,672	13,875,869	14,195,201	14,662,193	14,770,048	15,163,669		
6/30/2011	1,003,055	3,427,154	10,114,693	14,749,293	17,752,769	19,696,003	21,974,640	21,774,022			
6/30/2012	1,091,965	4,145,249	8,274,879	12,660,205	12,974,691	14,294,615	14,990,446				
6/30/2013	1,982,491	4,531,144	9,439,787	11,799,690	13,141,999	13,567,704					
6/30/2014	1,908,027	5,549,273	9,707,596	11,599,787	16,271,752						
6/30/2015	2,777,030	5,207,828	8,683,688	12,383,890							
6/30/2016	1,940,446	6,103,017	8,495,629								
6/30/2017	1,164,161	3,628,712									
6/30/2018	3,566,353										

<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>
6/30/1999	26,676,588	26,723,979	26,711,216	26,711,216	26,711,216	26,711,216	26,711,216	26,711,216	26,711,216
6/30/2000	18,605,565	18,622,272	18,632,146	18,633,560	18,654,190	18,656,430	18,641,665	18,641,676	
6/30/2001	19,145,952	19,376,299	20,684,592	19,643,303	20,544,293	20,458,752	20,508,740		
6/30/2002	15,396,481	15,436,344	15,576,712	15,617,955	15,628,961	15,628,961			
6/30/2003	12,920,483	12,913,094	12,913,094	12,913,094	12,913,100				
6/30/2004	23,557,933	23,651,386	24,244,165	24,244,165					
6/30/2005	18,542,587	18,556,855	18,564,193						
6/30/2006	20,289,801	20,290,819							
6/30/2007	14,576,133								

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>
6/30/1999	3,558,379	4,019,606	3,818,978	2,624,239	4,127,649	2,434,889	1,949,618	404,054	554,768	527,352	328,037	47,391	-12,763
6/30/2000	2,777,138	3,147,795	2,944,787	1,012,856	1,349,772	730,376	633,533	1,726,693	997,846	425,445	211,004	16,707	9,874
6/30/2001	4,724,254	3,918,592	2,629,222	1,952,757	668,705	666,332	703,736	679,453	253,457	306,620	218,213	230,347	1,308,293
6/30/2002	5,275,939	3,568,999	1,322,828	1,384,206	1,243,431	163,697	312,706	123,997	144,872	61,432	55,453	39,863	140,368
6/30/2003	2,735,545	2,165,181	3,185,455	923,154	803,934	198,513	534,244	340,451	85,230	61,698	141,769	-7,389	0
6/30/2004	3,260,420	4,509,504	5,436,622	7,241,009	3,256,546	-3,861,179	-34,711	938,464	-33,948	1,382,510	-263,359	93,453	592,779
6/30/2005	2,458,464	6,208,803	2,317,667	2,236,741	947,604	275,112	167,184	413,103	1,232,614	12,976	64,302	14,268	7,338
6/30/2006	3,487,792	5,537,923	5,078,630	2,064,626	1,482,442	600,778	137,550	395,182	-146,667	222,571	64,396	1,018	
6/30/2007	2,332,348	2,794,301	2,040,492	1,717,992	1,786,252	824,050	750,118	108,505	36,895	-28,809	111		
6/30/2008	3,517,874	5,559,686	1,542,634	1,435,129	1,148,337	388,596	751,879	271,361	75,917	47,909			
6/30/2009	2,012,230	4,258,506	5,011,086	1,266,438	1,413,882	1,217,821	330,735	920,837	593,686				
6/30/2010	3,567,524	4,008,804	2,279,209	2,203,197	319,332	466,992	107,855	393,621					
6/30/2011	2,424,099	6,687,539	4,634,600	3,003,476	1,943,234	2,278,637	-200,618						
6/30/2012	3,053,284	4,129,630	4,385,326	314,486	1,319,924	695,831							
6/30/2013	2,548,653	4,908,643	2,359,903	1,342,309	425,705								
6/30/2014	3,641,246	4,158,323	1,892,191	4,671,965									
6/30/2015	2,430,798	3,475,860	3,700,202										
6/30/2016	4,162,571	2,392,612											
6/30/2017	2,464,551												

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
6/30/1999	0.1461	0.1650	0.1568	0.1077	0.1694	0.1000	0.0800	0.0166	0.0228	0.0216	0.0135	0.0019	-0.0005
6/30/2000	0.0999	0.1132	0.1059	0.0364	0.0486	0.0263	0.0228	0.0621	0.0359	0.0153	0.0076	0.0006	0.0004
6/30/2001	0.1647	0.1366	0.0917	0.0681	0.0233	0.0232	0.0245	0.0237	0.0088	0.0107	0.0076	0.0080	0.0456
6/30/2002	0.2233	0.1510	0.0560	0.0586	0.0526	0.0069	0.0132	0.0052	0.0061	0.0026	0.0023	0.0017	0.0059
6/30/2003	0.1405	0.1112	0.1636	0.0474	0.0413	0.0102	0.0274	0.0175	0.0044	0.0032	0.0073	-0.0004	0.0000
6/30/2004	0.1117	0.1545	0.1862	0.2480	0.1115	-0.1323	-0.0012	0.0321	-0.0012	0.0474	-0.0090	0.0032	0.0203
6/30/2005	0.0956	0.2414	0.0901	0.0870	0.0368	0.0107	0.0065	0.0161	0.0479	0.0005	0.0025	0.0006	0.0003
6/30/2006	0.1162	0.1845	0.1692	0.0688	0.0494	0.0200	0.0046	0.0132	-0.0049	0.0074	0.0021	0.0000	
6/30/2007	0.0912	0.1093	0.0798	0.0672	0.0699	0.0322	0.0293	0.0042	0.0014	-0.0011	0.0000		
6/30/2008	0.1802	0.2848	0.0790	0.0735	0.0588	0.0199	0.0385	0.0139	0.0039	0.0025			
6/30/2009	0.1155	0.2445	0.2877	0.0727	0.0812	0.0699	0.0190	0.0529	0.0341				
6/30/2010	0.1972	0.2216	0.1260	0.1218	0.0177	0.0258	0.0060	0.0218					
6/30/2011	0.1516	0.4184	0.2899	0.1879	0.1216	0.1425	-0.0126						
6/30/2012	0.2085	0.2820	0.2994	0.0215	0.0901	0.0475							
6/30/2013	0.1723	0.3319	0.1596	0.0908	0.0288								
6/30/2014	0.2027	0.2315	0.1053	0.2601									
6/30/2015	0.0991	0.1418	0.1509										
6/30/2016	0.2031	0.1167											
6/30/2017	0.1453												

Best 3/5	0.1735	0.2184	0.2001	0.1335	0.0667	0.0477	0.0181	0.0163	0.0131	0.0035	0.0016	0.0008	0.0088
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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:

<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>
6/30/1999	265,776,619	354,640,859	408,850,659	417,007,795	411,487,514	409,702,734	405,908,438	402,553,225	402,635,610	402,324,876	402,249,587
6/30/2000	264,701,100	360,293,030	405,283,001	411,555,112	411,805,350	407,320,073	401,240,200	398,919,452	398,288,309	398,127,265	397,992,079
6/30/2001	259,866,565	337,495,356	375,650,614	393,433,112	392,855,687	384,938,829	382,662,515	380,141,884	379,266,202	378,220,534	377,983,027
6/30/2002	236,748,991	294,211,984	348,638,274	359,821,206	355,438,679	351,196,583	347,883,397	347,350,373	346,915,946	346,340,868	346,843,691
6/30/2003	242,596,421	325,298,958	385,571,329	390,687,563	381,667,112	374,958,072	372,655,569	369,839,718	368,417,586	368,158,687	368,076,268
6/30/2004	271,171,191	360,421,350	388,676,185	393,973,786	389,382,654	385,054,872	382,390,024	380,900,165	380,586,666	380,050,005	379,812,778
6/30/2005	281,581,307	328,224,472	370,991,224	375,234,681	375,133,659	369,369,272	367,087,066	365,943,263	364,455,673	364,971,921	365,138,763
6/30/2006	260,559,241	340,670,144	379,911,564	391,189,935	385,490,359	378,314,782	374,840,489	373,741,439	373,231,901	373,108,662	372,758,548
6/30/2007	289,087,847	369,240,644	410,488,982	416,125,506	408,718,063	402,360,153	399,387,480	397,652,121	396,529,553	396,615,318	396,509,381
6/30/2008	308,799,897	385,768,551	431,589,562	436,240,228	429,028,774	423,071,887	420,780,844	419,140,184	418,991,694	418,259,484	418,074,724
6/30/2009	322,828,490	410,262,593	453,130,876	452,261,417	445,063,340	442,041,443	438,325,222	436,168,829	435,203,463	434,835,691	
6/30/2010	344,304,692	432,643,072	483,040,469	484,765,380	477,978,749	472,933,981	469,737,651	468,091,305	467,307,650		
6/30/2011	371,406,074	468,102,258	519,548,413	527,413,155	519,127,861	513,707,668	509,816,935	507,751,142			
6/30/2012	317,567,050	404,562,760	451,194,247	450,759,321	448,351,635	444,389,955	443,096,985				
6/30/2013	321,601,433	407,347,514	442,827,794	449,481,229	440,423,253	448,446,202					
6/30/2014	355,147,546	451,394,642	513,904,872	546,548,170	546,272,338						
6/30/2015	317,071,384	429,957,402	515,518,922	543,899,067							
6/30/2016	302,051,651		501,801,008								
6/30/2017	331,479,022	459,629,251									
6/30/2018	373,737,111										

  

<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>
6/30/1999	402,914,164	403,148,050	404,773,634	405,321,136	405,113,309	403,494,399	403,261,089	403,234,291	403,229,540
6/30/2000	398,273,395	398,195,568	397,984,146	398,360,499	397,974,046	397,906,497	397,947,683	397,857,862	
6/30/2001	378,264,945	378,304,156	378,777,657	379,145,897	379,342,120	379,168,697	379,214,026		
6/30/2002	346,405,822	346,703,240	347,155,312	346,708,563	346,903,134	346,933,166			
6/30/2003	368,111,350	368,203,835	368,333,943	368,301,677	368,300,032				
6/30/2004	380,014,197	379,957,437	379,975,879	379,867,933					
6/30/2005	365,008,068	365,223,018	365,560,536						
6/30/2006	372,510,098	372,288,240							
6/30/2007	396,346,058								

PREMISES/OPERATIONS (Subline Code 334)  
OWNERS, LANDLORDS AND TENANTS  
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
6/30/1999	1.334	1.153	1.020	0.987	0.996	0.991	0.992	1.000	0.999	1.000	1.002
6/30/2000	1.361	1.125	1.015	1.001	0.989	0.985	0.994	0.998	1.000	1.000	1.001
6/30/2001	1.299	1.113	1.047	0.999	0.980	0.994	0.993	0.998	0.997	0.999	1.001
6/30/2002	1.243	1.185	1.032	0.988	0.988	0.991	0.998	0.999	0.998	1.001	0.999
6/30/2003	1.341	1.185	1.013	0.977	0.982	0.994	0.992	0.996	0.999	1.000	1.000
6/30/2004	1.329	1.078	1.014	0.988	0.989	0.993	0.996	0.999	0.999	0.999	1.001
6/30/2005	1.166	1.130	1.011	1.000	0.985	0.994	0.997	0.996	1.001	1.000	1.000
6/30/2006	1.307	1.115	1.030	0.985	0.981	0.991	0.997	0.999	1.000	0.999	0.999
6/30/2007	1.277	1.112	1.014	0.982	0.984	0.993	0.996	0.997	1.000	1.000	1.000
6/30/2008	1.249	1.119	1.011	0.983	0.986	0.995	0.996	1.000	0.998	1.000	
6/30/2009	1.271	1.104	0.998	0.984	0.993	0.992	0.995	0.998	0.999		
6/30/2010	1.257	1.116	1.004	0.986	0.989	0.993	0.996	0.998			
6/30/2011	1.260	1.110	1.015	0.984	0.990	0.992	0.996				
6/30/2012	1.274	1.115	0.999	0.995	0.991	0.997					
6/30/2013	1.267	1.087	1.015	1.002	0.996						
6/30/2014	1.271	1.138	1.064	0.999							
6/30/2015	1.356	1.199	1.055								
6/30/2016	1.403	1.184									
6/30/2017	1.387										

3 Yr Mean 1.382 1.174 1.045 0.999 0.992 0.994 0.996 0.999 0.999 1.000 1.000

Best 3/5 1.338 1.146 1.028 0.993 0.991 0.993 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			
6/30/1999	1.001	1.004	1.001	0.999	0.996	0.999	1.000	1.000			
6/30/2000	1.000	0.999	1.001	0.999	1.000	1.000	1.000	1.000 *			
6/30/2001	1.000	1.001	1.001	1.001	1.000	1.000	1.000 *	1.000 *			
6/30/2002	1.001	1.001	0.999	1.001	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								
6/30/2005	1.001	1.001									
6/30/2006	0.999										

3 Yr Mean 1.000 1.000 1.000 1.001 1.000 @ 1.000 @ 1.000 @ 1.000 @

Best 3/5 1.000 1.001 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
6/30/2014					0.991	0.993	0.996	0.998	1.000	1.000	1.000
6/30/2015				0.993	0.991	0.993	0.996	0.998	1.000	1.000	1.000
6/30/2016			1.028	0.993	0.991	0.993	0.996	0.998	1.000	1.000	1.000
6/30/2017		1.146	1.028	0.993	0.991	0.993	0.996	0.998	1.000	1.000	1.000
6/30/2018	1.338	1.146	1.028	0.993	0.991	0.993	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	243/211	FACTORS
6/30/2014	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.979
6/30/2015	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.972
6/30/2016	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.000
6/30/2017	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.145
6/30/2018	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.533

\* 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:

<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>
6/30/1999	10,187,718	13,065,672	15,507,178	16,791,768	16,768,693	16,262,054	16,328,171	16,952,451	16,423,029	16,582,326	16,519,827
6/30/2000	10,315,250	15,773,833	18,523,223	17,562,558	16,736,120	17,144,903	17,129,199	16,704,132	16,658,686	16,643,685	16,624,935
6/30/2001	13,977,210	20,796,649	24,339,109	24,655,137	24,189,973	24,812,009	24,693,837	24,519,673	24,535,614	24,455,207	24,555,206
6/30/2002	14,032,038	20,135,182	20,448,154	20,477,178	21,221,964	20,865,776	21,058,664	20,787,909	20,954,434	20,864,221	20,864,220
6/30/2003	17,805,703	19,874,088	22,480,767	23,561,150	23,860,469	23,379,486	23,107,377	22,910,185	22,835,342	22,863,383	22,979,104
6/30/2004	18,997,499	27,250,262	25,843,206	28,032,736	26,758,110	25,897,117	25,164,852	25,052,105	24,986,379	25,147,913	25,179,786
6/30/2005	16,070,150	25,386,668	25,924,175	23,928,839	22,273,239	21,483,194	21,071,047	20,871,113	20,866,113	20,750,139	20,750,136
6/30/2006	15,776,335	19,891,740	22,651,492	22,301,114	21,916,905	21,810,622	21,991,815	22,041,925	22,159,323	22,081,117	22,151,117
6/30/2007	15,893,417	21,511,978	24,606,791	25,249,325	24,498,549	23,922,689	23,641,221	23,748,763	23,738,559	23,739,058	23,694,058
6/30/2008	18,281,179	22,541,064	25,371,379	25,551,760	25,296,769	24,757,983	24,817,854	24,628,137	24,479,802	24,469,616	24,389,329
6/30/2009	17,149,939	20,983,647	21,779,656	23,565,199	22,931,172	22,611,223	22,637,451	22,490,615	22,525,837	22,494,983	
6/30/2010	13,542,401	14,300,352	17,060,322	17,860,288	18,498,129	18,139,246	18,097,841	17,962,857	17,978,104		
6/30/2011	11,889,908	16,665,725	19,061,883	19,778,237	19,513,299	19,331,773	19,076,905	19,067,040			
6/30/2012	12,253,698	16,061,733	17,516,915	17,681,809	17,896,417	17,645,777	17,965,154				
6/30/2013	12,581,210	15,971,861	17,560,175	18,145,933	18,495,603	18,500,025					
6/30/2014	15,174,344	18,582,003	21,635,792	23,089,490	23,565,048						
6/30/2015	15,688,931	21,552,523	25,329,072	28,875,165							
6/30/2016	17,585,444	22,461,494	28,383,835								
6/30/2017	15,191,607	24,269,350									
6/30/2018	18,588,056										
<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>		
6/30/1999	16,481,229	16,481,228	16,481,228	16,579,228	16,579,228	16,579,228	16,579,228	16,587,838	16,579,228		
6/30/2000	16,624,935	16,625,185	16,825,185	16,825,185	16,820,185	16,820,185	16,921,185	16,921,185			
6/30/2001	24,535,457	24,540,457	24,540,456	24,440,456	24,440,456	24,540,456	24,540,458				
6/30/2002	20,914,219	21,069,718	21,056,179	21,281,718	21,326,381	21,326,772					
6/30/2003	22,905,155	22,898,787	22,892,094	22,892,094	22,908,094						
6/30/2004	25,155,976	25,178,477	25,228,476	25,228,476							
6/30/2005	20,755,136	20,750,136	20,750,161								
6/30/2006	22,051,117	22,151,117									
6/30/2007	23,576,888										

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
6/30/1999	1.282	1.187	1.083	0.999	0.970	1.004	1.038	0.969	1.010	0.996	0.998
6/30/2000	1.529	1.174	0.948	0.953	1.024	0.999	0.975	0.997	0.999	0.999	1.000
6/30/2001	1.488	1.170	1.013	0.981	1.026	0.995	0.993	1.001	0.997	1.004	0.999
6/30/2002	1.435	1.016	1.001	1.036	0.983	1.009	0.987	1.008	0.996	1.000	1.002
6/30/2003	1.116	1.131	1.048	1.013	0.980	0.988	0.991	0.997	1.001	1.005	0.997
6/30/2004	1.434	0.948	1.085	0.955	0.968	0.972	0.996	0.997	1.006	1.001	0.999
6/30/2005	1.580	1.021	0.923	0.931	0.965	0.981	0.991	1.000	0.994	1.000	1.000
6/30/2006	1.261	1.139	0.985	0.983	0.995	1.008	1.002	1.005	0.996	1.003	0.995
6/30/2007	1.354	1.144	1.026	0.970	0.976	0.988	1.005	1.000	1.000	0.998	0.995
6/30/2008	1.233	1.126	1.007	0.990	0.979	1.002	0.992	0.994	1.000	0.997	
6/30/2009	1.224	1.038	1.082	0.973	0.986	1.001	0.994	1.002	0.999		
6/30/2010	1.056	1.193	1.047	1.036	0.981	0.998	0.993	1.001			
6/30/2011	1.402	1.144	1.038	0.987	0.991	0.987	0.999				
6/30/2012	1.311	1.091	1.009	1.012	0.986	1.018					
6/30/2013	1.270	1.099	1.033	1.019	1.000						
6/30/2014	1.225	1.164	1.067	1.021							
6/30/2015	1.374	1.175	1.140								
6/30/2016	1.277	1.264									
6/30/2017	1.598										

3 Yr Mean      1.416      1.201      1.080      1.017      0.992      1.001      0.995      0.999      1.000      0.999      0.997

Best 3/5      1.307      1.146      1.046      1.017      0.988      1.000      0.995      1.001      0.998      1.000      0.997

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.000	1.000	1.006	1.000	1.000	1.000	1.001	0.999			
6/30/2000	1.000	1.012	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	1.007	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								
6/30/2005	1.000	1.000									
6/30/2006	1.005										

3 Yr Mean      1.002      1.001      1.004      1.001      1.001 @      1.002 @      1.001 @      0.999 @

Best 3/5      1.002      1.000      1.000      1.000      1.000 \*      1.000 \*      1.000 \*      1.000 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	Development From		63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2014						0.988	1.000	0.995	1.001	0.998	1.000	0.997
6/30/2015						1.017	0.988	1.000	0.995	1.001	1.000	0.997
6/30/2016			1.046			0.988	1.000	0.995	1.001	0.998	1.000	0.997
6/30/2017		1.146	1.046	1.017		0.988	1.000	0.995	1.001	0.998	1.000	0.997
6/30/2018	1.307	1.146	1.046	1.017		0.988	1.000	0.995	1.001	0.998	1.000	0.997

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/211	FACTORS	
6/30/2014	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.981	
6/30/2015	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.998	
6/30/2016	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.044	
6/30/2017	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.196	
6/30/2018	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.563	

\* 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>
6/30/1999	33,103,760	67,456,378	103,824,915	120,068,343	129,449,860	137,020,582	138,644,616	143,694,936	145,028,531	146,571,749	149,336,106
6/30/2000	33,891,496	68,611,654	100,394,172	123,304,653	135,316,563	141,041,891	145,696,646	147,748,339	150,155,054	151,469,063	151,676,971
6/30/2001	38,279,048	69,008,389	101,576,617	123,564,557	138,152,648	149,189,211	152,421,388	154,693,960	156,279,265	159,090,189	160,550,868
6/30/2002	37,092,759	61,897,990	101,868,537	124,300,674	143,712,241	149,528,846	155,032,573	157,615,835	158,349,239	160,020,708	159,964,605
6/30/2003	37,615,775	71,378,236	109,970,166	144,111,003	159,606,765	164,752,226	168,723,005	170,296,960	172,072,917	173,489,783	173,595,550
6/30/2004	36,202,818	71,493,657	115,532,164	143,863,301	153,115,194	159,467,031	161,548,204	163,192,725	164,096,888	165,408,987	166,222,769
6/30/2005	33,843,251	70,622,251	114,844,335	143,561,722	157,109,731	163,549,781	166,981,436	169,941,031	171,279,852	172,899,529	173,382,369
6/30/2006	28,287,758	70,566,972	113,047,542	144,675,779	157,477,861	164,916,415	169,470,678	169,109,377	170,730,409	172,218,180	172,850,145
6/30/2007	31,029,675	74,601,403	118,538,861	153,107,615	168,999,133	175,798,232	178,489,146	180,011,964	183,280,473	184,103,292	184,698,042
6/30/2008	31,098,586	75,580,666	133,615,352	174,508,283	194,800,918	204,340,120	208,441,631	211,062,499	212,246,696	211,227,811	212,056,966
6/30/2009	37,113,542	84,036,418	137,373,952	181,897,991	198,905,331	207,497,717	211,996,555	215,764,682	217,954,333	218,487,160	
6/30/2010	43,968,991	93,663,794	154,741,479	190,142,476	208,583,120	219,368,962	223,171,974	224,522,297	227,522,781		
6/30/2011	48,670,872	105,720,042	171,916,729	214,905,098	234,465,822	243,297,308	248,054,213	249,951,165			
6/30/2012	44,226,689	94,780,536	156,116,611	197,300,903	220,515,019	230,370,778	235,578,694				
6/30/2013	45,188,102	99,041,546	157,065,266	204,223,673	229,568,984	236,953,609					
6/30/2014	54,083,092	117,211,137	189,076,134	243,680,410	267,734,429						
6/30/2015	48,070,025	109,903,872	182,070,995	232,472,547							
6/30/2016	48,540,710	113,217,096	184,377,019								
6/30/2017	47,285,263	104,275,924									
6/30/2018	50,860,222										

<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>
6/30/1999	149,463,376	150,785,736	151,903,594	152,613,931	153,510,516	153,359,217	153,325,508	153,330,126	153,608,084
6/30/2000	153,852,228	154,638,112	154,624,899	154,945,531	156,259,427	155,811,754	155,886,928	156,782,261	
6/30/2001	160,527,457	161,542,572	163,082,727	165,067,398	165,575,086	165,696,244	165,703,849		
6/30/2002	160,930,006	162,491,394	162,583,229	163,269,954	163,393,871	163,756,892			
6/30/2003	174,603,886	175,228,420	175,685,408	175,583,279	175,998,623				
6/30/2004	166,815,902	167,648,845	167,995,260	168,653,144					
6/30/2005	173,216,644	174,005,161	176,029,607						
6/30/2006	173,685,084	173,793,462							
6/30/2007	184,613,181								

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
6/30/1999	34,352,618	36,368,537	16,243,428	9,381,517	7,570,722	1,624,034	5,050,320	1,333,595	1,543,218	2,764,357	127,270	1,322,360	1,117,858
6/30/2000	34,720,158	31,782,518	22,910,481	12,011,910	5,725,328	4,654,755	2,051,693	2,406,715	1,314,009	207,908	2,175,257	785,884	-13,213
6/30/2001	30,729,341	32,568,228	21,987,940	14,588,091	11,036,563	3,232,177	2,272,572	1,585,305	2,810,924	1,460,679	-23,411	1,015,115	1,540,155
6/30/2002	24,805,231	39,970,547	22,432,137	19,411,567	5,816,605	5,503,727	2,583,262	733,404	1,671,469	-56,103	965,401	1,561,388	91,835
6/30/2003	33,762,461	38,591,930	34,140,837	15,495,762	5,145,461	3,970,779	1,573,955	1,775,957	1,416,866	105,767	1,008,336	624,534	456,988
6/30/2004	35,290,839	44,038,507	28,331,137	9,251,893	6,351,837	2,081,173	1,644,521	904,163	1,312,099	813,782	593,133	832,943	346,415
6/30/2005	36,779,000	44,222,084	28,717,387	13,548,009	6,440,050	3,431,655	2,959,595	1,338,821	1,619,677	482,840	-165,725	788,517	2,024,446
6/30/2006	42,279,214	42,480,570	31,628,237	12,802,082	7,438,554	4,554,263	-361,301	1,621,032	1,487,771	631,965	834,939	108,378	
6/30/2007	43,571,728	43,937,458	34,568,754	15,891,518	6,799,099	2,690,914	1,522,818	3,268,509	822,819	594,750	-84,861		
6/30/2008	44,482,080	58,034,686	40,892,931	20,292,635	9,539,202	4,101,511	2,620,868	1,184,197	-1,018,885	829,155			
6/30/2009	46,922,876	53,337,534	44,524,039	17,007,340	8,592,386	4,498,838	3,768,127	2,189,651	532,827				
6/30/2010	49,694,803	61,077,685	35,400,997	18,440,644	10,785,842	3,803,012	1,350,323	3,000,484					
6/30/2011	57,049,170	66,196,687	42,988,369	19,560,724	8,831,486	4,756,905	1,896,952						
6/30/2012	50,553,847	61,336,075	41,184,292	23,214,116	9,855,759	5,207,916							
6/30/2013	53,853,444	58,023,720	47,158,407	25,345,311	7,384,625								
6/30/2014	63,128,045	71,864,997	54,604,276	24,054,019									
6/30/2015	61,833,847	72,167,123	50,401,552										
6/30/2016	64,676,386	71,159,923											
6/30/2017	56,990,661												

	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
6/30/1999	0.0610	0.0645	0.0288	0.0166	0.0134	0.0029	0.0090	0.0024	0.0027	0.0049	0.0002	0.0023	0.0020
6/30/2000	0.0627	0.0574	0.0414	0.0217	0.0103	0.0084	0.0037	0.0043	0.0024	0.0004	0.0039	0.0014	0.0000
6/30/2001	0.0563	0.0596	0.0403	0.0267	0.0202	0.0059	0.0042	0.0029	0.0051	0.0027	0.0000	0.0019	0.0028
6/30/2002	0.0483	0.0779	0.0437	0.0378	0.0113	0.0107	0.0050	0.0014	0.0033	-0.0001	0.0019	0.0030	0.0002
6/30/2003	0.0624	0.0713	0.0631	0.0286	0.0095	0.0073	0.0029	0.0033	0.0026	0.0002	0.0019	0.0012	0.0008
6/30/2004	0.0642	0.0801	0.0515	0.0168	0.0115	0.0038	0.0030	0.0016	0.0024	0.0015	0.0011	0.0015	0.0006
6/30/2005	0.0675	0.0812	0.0527	0.0249	0.0118	0.0063	0.0054	0.0025	0.0030	0.0009	-0.0003	0.0014	0.0037
6/30/2006	0.0764	0.0767	0.0571	0.0231	0.0134	0.0082	-0.0007	0.0029	0.0027	0.0011	0.0015	0.0002	
6/30/2007	0.0726	0.0732	0.0576	0.0265	0.0113	0.0045	0.0025	0.0054	0.0014	0.0010	-0.0001		
6/30/2008	0.0692	0.0902	0.0636	0.0316	0.0148	0.0064	0.0041	0.0018	-0.0016	0.0013			
6/30/2009	0.0708	0.0805	0.0672	0.0257	0.0130	0.0068	0.0057	0.0033	0.0008				
6/30/2010	0.0691	0.0849	0.0492	0.0256	0.0150	0.0053	0.0019	0.0042					
6/30/2011	0.0741	0.0860	0.0558	0.0254	0.0115	0.0062	0.0025						
6/30/2012	0.0711	0.0863	0.0579	0.0327	0.0139	0.0073							
6/30/2013	0.0756	0.0815	0.0662	0.0356	0.0104								
6/30/2014	0.0730	0.0831	0.0631	0.0278									
6/30/2015	0.0725	0.0846	0.0591										
6/30/2016	0.0769	0.0846											
6/30/2017	0.0668												

Best 3/5	0.0737	0.0841	0.0601	0.0287	0.0128	0.0064	0.0030	0.0035	0.0016	0.0011	0.0008	0.0014	0.0014
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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:

<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>
6/30/1999	42,024,111	47,824,085	53,508,528	50,525,445	52,728,779	51,906,972	51,148,296	50,707,319	51,248,301	51,434,737	51,516,951
6/30/2000	46,254,366	56,635,730	52,947,371	55,216,621	54,487,586	54,629,270	54,500,945	54,297,386	54,538,632	54,989,054	55,079,902
6/30/2001	42,463,643	42,699,221	48,627,642	49,230,760	50,041,636	49,648,506	50,104,098	50,348,326	50,762,519	51,369,516	51,868,987
6/30/2002	34,857,462	40,384,962	41,687,376	43,206,007	43,804,080	44,433,815	45,212,200	45,381,997	45,801,618	45,969,404	46,289,400
6/30/2003	35,643,064	37,830,121	40,544,794	40,164,132	42,712,934	42,904,664	42,892,913	43,226,378	42,729,338	43,225,997	43,563,220
6/30/2004	32,769,384	37,241,138	38,629,914	40,110,462	41,876,245	42,296,683	42,265,287	42,464,290	42,454,942	42,666,277	42,729,574
6/30/2005	32,366,326	33,996,631	37,352,272	38,532,050	39,357,717	39,662,315	39,806,474	40,014,506	40,421,339	40,930,045	40,749,550
6/30/2006	31,004,820	33,894,256	35,711,245	36,276,917	36,685,530	37,780,950	38,423,121	38,559,023	38,681,165	38,462,260	38,568,300
6/30/2007	33,155,573	36,728,987	39,024,630	39,640,659	40,191,118	40,317,900	40,495,492	41,211,059	41,951,217	41,863,505	41,959,306
6/30/2008	38,672,922	43,131,023	44,467,422	44,460,744	45,129,934	46,232,724	46,975,117	47,239,295	47,484,919	47,527,169	47,598,542
6/30/2009	40,468,120	41,846,249	43,878,150	44,169,780	44,169,851	44,584,047	44,487,262	44,399,996	44,594,033	44,895,278	
6/30/2010	40,293,230	45,116,674	47,599,602	48,458,973	49,319,560	49,485,476	49,510,466	49,407,039	49,714,567		
6/30/2011	47,337,581	51,177,881	51,985,690	52,612,747	52,511,277	52,898,313	53,209,877	53,729,142			
6/30/2012	45,683,874	49,289,141	51,198,277	51,590,643	51,990,125	52,191,325	53,058,242				
6/30/2013	42,695,024	47,038,118	48,952,481	50,558,061	51,121,547	51,969,611					
6/30/2014	50,522,502	53,111,982	54,402,005	56,397,957	57,078,785						
6/30/2015	48,497,773	52,401,630	54,166,756	57,348,055							
6/30/2016	41,057,622	46,125,828	52,132,521								
6/30/2017	45,461,904	52,431,262									
6/30/2018	46,509,159										
<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>		
6/30/1999	51,567,258	51,617,733	51,587,174	51,632,220	51,840,211	52,068,603	52,155,899	52,362,278	52,380,278		
6/30/2000	54,820,558	54,794,529	54,932,113	55,103,544	55,128,002	55,113,040	55,467,703	55,308,749			
6/30/2001	52,071,474	52,215,889	52,329,535	52,328,210	52,454,815	52,588,312	52,560,069				
6/30/2002	46,575,360	46,403,193	46,323,870	46,552,813	46,595,959	46,703,394					
6/30/2003	43,553,290	43,633,564	43,711,575	43,752,582	43,768,832						
6/30/2004	43,034,775	43,138,842	43,114,248	43,202,951							
6/30/2005	40,687,014	40,570,471	40,473,050								
6/30/2006	38,641,990	38,531,302									
6/30/2007	41,805,828										

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
6/30/1999	1.138	1.119	0.944	1.044	0.984	0.985	0.991	1.011	1.004	1.002	1.001
6/30/2000	1.224	0.935	1.043	0.987	1.003	0.998	0.996	1.004	1.008	1.002	0.995
6/30/2001	1.006	1.139	1.012	1.016	0.992	1.009	1.005	1.008	1.012	1.010	1.004
6/30/2002	1.159	1.032	1.036	1.014	1.014	1.018	1.004	1.009	1.004	1.007	1.006
6/30/2003	1.061	1.072	0.991	1.063	1.004	1.000	1.008	0.989	1.012	1.008	1.000
6/30/2004	1.136	1.037	1.038	1.044	1.010	0.999	1.005	1.000	1.005	1.001	1.007
6/30/2005	1.050	1.099	1.032	1.021	1.008	1.004	1.005	1.010	1.013	0.996	0.998
6/30/2006	1.093	1.054	1.016	1.011	1.030	1.017	1.004	1.003	0.994	1.003	1.002
6/30/2007	1.108	1.063	1.016	1.014	1.003	1.004	1.018	1.018	0.998	1.002	0.996
6/30/2008	1.115	1.031	1.000	1.015	1.024	1.016	1.006	1.005	1.001	1.002	
6/30/2009	1.034	1.049	1.007	1.000	1.009	0.998	0.998	1.004	1.007		
6/30/2010	1.120	1.055	1.018	1.018	1.003	1.001	0.998	1.006			
6/30/2011	1.081	1.016	1.012	0.998	1.007	1.006	1.010				
6/30/2012	1.079	1.039	1.008	1.008	1.004	1.017					
6/30/2013	1.102	1.041	1.033	1.011	1.017						
6/30/2014	1.051	1.024	1.037	1.012							
6/30/2015	1.080	1.034	1.059								
6/30/2016	1.123	1.130									
6/30/2017	1.153										

3 Yr Mean	1.119	1.063	1.043	1.010	1.009	1.008	1.002	1.005	1.002	1.002	0.999
Best 3/5	1.102	1.038	1.027	1.010	1.007	1.008	1.005	1.005	1.002	1.002	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.001	0.999	1.001	1.004	1.004	1.002	1.004	1.000			
6/30/2000	1.000	1.003	1.003	1.000	1.000	1.006	0.997	1.002 *			
6/30/2001	1.003	1.002	1.000	1.002	1.003	0.999	1.002 *	1.002 *			
6/30/2002	0.996	0.998	1.005	1.001	1.002	1.002 *	1.002 *	1.002 *			
6/30/2003	1.002	1.002	1.001	1.000	1.001 *	1.002 *	1.002 *	1.002 *			
6/30/2004	1.002	0.999	1.002								
6/30/2005	0.997	0.998									
6/30/2006	0.997										

3 Yr Mean	0.999	1.000	1.003	1.001	1.002 @	1.002 @	1.001 @	1.000 @			
Best 3/5	0.999	1.000	1.002	1.001	1.002 *	1.002 *	1.002 *	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
6/30/2014					1.007	1.008	1.005	1.005	1.002	1.002	1.000
6/30/2015				1.010	1.007	1.008	1.005	1.005	1.002	1.002	1.000
6/30/2016			1.027	1.010	1.007	1.008	1.005	1.005	1.002	1.002	1.000
6/30/2017		1.038	1.027	1.010	1.007	1.008	1.005	1.005	1.002	1.002	1.000
6/30/2018	1.102	1.038	1.027	1.010	1.007	1.008	1.005	1.005	1.002	1.002	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/211	FACTORS
6/30/2014	0.999	1.000	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.048
6/30/2015	0.999	1.000	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.058
6/30/2016	0.999	1.000	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.087
6/30/2017	0.999	1.000	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.128
6/30/2018	0.999	1.000	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.243

\* 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:

<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>
6/30/1999	2,333,453	2,169,088	2,448,660	2,607,415	2,604,308	2,533,445	2,594,301	2,796,777	3,021,851	3,144,834	2,982,903
6/30/2000	2,263,768	2,799,756	2,761,156	2,948,197	2,838,707	2,986,005	3,009,897	3,169,338	3,135,449	3,134,969	3,126,644
6/30/2001	2,369,809	2,706,672	3,018,132	3,202,385	3,195,590	3,274,273	3,407,703	3,174,351	3,321,249	3,347,194	3,405,559
6/30/2002	2,012,138	2,303,704	2,266,677	2,379,306	2,483,515	2,594,483	2,540,467	2,474,039	2,568,538	2,568,539	2,575,039
6/30/2003	1,864,830	1,927,946	1,978,636	2,135,664	2,154,282	2,037,736	2,042,363	2,098,078	2,123,195	2,120,345	2,121,345
6/30/2004	2,645,471	2,799,886	3,081,199	3,500,554	3,646,065	3,724,851	3,611,573	3,704,590	3,646,590	3,714,160	3,724,111
6/30/2005	2,718,703	2,726,576	2,699,428	3,091,328	2,984,923	3,143,945	3,013,963	3,140,505	3,154,506	3,148,294	3,144,294
6/30/2006	2,045,260	2,299,046	2,568,919	2,660,526	2,688,256	2,819,942	2,931,641	2,969,738	2,932,697	2,934,920	2,865,554
6/30/2007	2,153,943	2,967,885	3,548,042	3,431,627	3,377,799	3,212,610	3,182,246	3,207,224	3,305,225	3,305,224	3,325,224
6/30/2008	1,849,491	2,353,081	1,960,611	1,949,207	1,913,922	1,940,952	1,904,141	1,896,941	1,898,941	1,899,043	1,920,252
6/30/2009	2,980,944	2,310,384	2,701,393	2,523,058	2,609,519	2,667,745	2,755,667	2,673,246	2,673,245	2,723,245	
6/30/2010	2,230,877	2,278,657	2,235,897	2,392,338	2,468,668	2,586,668	2,637,663	2,586,663	2,685,668		
6/30/2011	1,965,864	2,165,650	2,450,072	2,341,488	2,446,972	2,461,686	2,433,597	2,429,596			
6/30/2012	1,577,685	1,942,276	2,101,983	2,379,778	2,389,517	2,885,875	2,953,229				
6/30/2013	2,000,269	2,248,662	2,351,065	2,248,719	2,490,851	2,457,351					
6/30/2014	2,518,317	2,379,915	2,192,046	2,354,511	2,521,861						
6/30/2015	3,506,081	3,603,031	3,474,314	3,674,375							
6/30/2016	2,739,047	2,843,439	3,390,934								
6/30/2017	2,649,657	3,010,464									
6/30/2018	3,785,120										
<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>		
6/30/1999	2,982,903	2,982,903	2,982,903	3,077,763	3,077,763	3,077,728	3,077,728	3,077,728	3,077,728		
6/30/2000	3,151,169	3,122,044	3,122,044	3,121,944	3,121,944	3,121,944	3,221,944	3,221,944			
6/30/2001	3,400,934	3,401,243	3,251,243	3,276,345	3,301,345	3,390,807	3,390,807				
6/30/2002	2,580,038	2,608,039	2,600,038	2,600,038	2,700,038	2,700,038					
6/30/2003	2,129,845	2,129,845	2,229,845	2,429,845	2,523,176						
6/30/2004	3,824,990	3,826,866	3,834,766	3,825,254							
6/30/2005	3,148,515	3,144,301	3,145,801								
6/30/2006	2,869,319	2,964,509									
6/30/2007	3,357,430										

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
6/30/1999	0.930	1.129	1.065	0.999	0.973	1.024	1.078	1.080	1.041	0.949	1.000
6/30/2000	1.237	0.986	1.068	0.963	1.052	1.008	1.053	0.989	1.000	0.997	1.008
6/30/2001	1.142	1.115	1.061	0.998	1.025	1.041	0.932	1.046	1.008	1.017	0.999
6/30/2002	1.145	0.984	1.050	1.044	1.045	0.979	0.974	1.038	1.000	1.003	1.002
6/30/2003	1.034	1.026	1.079	1.009	0.946	1.002	1.027	1.012	0.999	1.000	1.004
6/30/2004	1.058	1.100	1.136	1.042	1.022	0.970	1.026	0.984	1.019	1.003	1.027
6/30/2005	1.003	0.990	1.145	0.966	1.053	0.959	1.042	1.004	0.998	0.999	1.001
6/30/2006	1.124	1.117	1.036	1.010	1.049	1.040	1.013	0.988	1.001	0.976	1.001
6/30/2007	1.378	1.195	0.967	0.984	0.951	0.991	1.008	1.031	1.000	1.006	1.010
6/30/2008	1.272	0.833	0.994	0.982	1.014	0.981	0.996	1.001	1.000	1.011	
6/30/2009	0.775	1.169	0.934	1.034	1.022	1.033	0.970	1.000	1.019		
6/30/2010	1.021	0.981	1.070	1.032	1.048	1.020	0.981	1.038			
6/30/2011	1.102	1.131	0.956	1.045	1.006	0.989	0.998				
6/30/2012	1.231	1.082	1.132	1.004	1.208	1.023					
6/30/2013	1.124	1.046	0.956	1.108	0.987						
6/30/2014	0.945	0.921	1.074	1.071							
6/30/2015	1.028	0.964	1.058								
6/30/2016	1.038	1.193									
6/30/2017	1.136										

3 Yr Mean      1.067      1.026      1.029      1.061      1.067      1.011      0.983      1.013      1.006      0.998      1.004

Best 3/5      1.063      1.031      1.029      1.049      1.025      1.011      0.992      1.011      1.000      1.003      1.005

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.000	1.000	1.032	1.000	1.000	1.000	1.000	1.000			
6/30/2000	0.991	1.000	1.000	1.000	1.000	1.032	1.000	1.000 *			
6/30/2001	1.000	0.956	1.008	1.008	1.027	1.000	1.000 *	1.000 *			
6/30/2002	1.011	0.997	1.000	1.038	1.000	1.002 *	1.000 *	1.000 *			
6/30/2003	1.000	1.047	1.090	1.038	1.015 *	1.002 *	1.000 *	1.000 *			
6/30/2004	1.000	1.002	0.998								
6/30/2005	0.999	1.000									
6/30/2006	1.033										

3 Yr Mean      1.011      1.016      1.029      1.028      1.009 @      1.011 @      1.000 @      1.000 @

Best 3/5      1.004      1.000      1.003      1.015      1.005 \*      1.001 \*      1.000 \*      1.000 \*

A.Y.E.	15/ 27	27/ 39	39/ 51	Development From		63/ 75	75/ 87	87/ 99	99/111	111/123	123/135	135/147
6/30/2014						1.025	1.011	0.992	1.011	1.000	1.003	1.005
6/30/2015					1.049	1.025	1.011	0.992	1.011	1.000	1.003	1.005
6/30/2016			1.029		1.049	1.025	1.011	0.992	1.011	1.000	1.003	1.005
6/30/2017		1.031	1.029		1.049	1.025	1.011	0.992	1.011	1.000	1.003	1.005
6/30/2018	1.063	1.031	1.029		1.049	1.025	1.011	0.992	1.011	1.000	1.003	1.005

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/211	FACTORS	
6/30/2014	1.004	1.000	1.003	1.015	1.005	1.001	1.000	1.000	1.000*	1.077	
6/30/2015	1.004	1.000	1.003	1.015	1.005	1.001	1.000	1.000	1.000*	1.130	
6/30/2016	1.004	1.000	1.003	1.015	1.005	1.001	1.000	1.000	1.000*	1.163	
6/30/2017	1.004	1.000	1.003	1.015	1.005	1.001	1.000	1.000	1.000*	1.199	
6/30/2018	1.004	1.000	1.003	1.015	1.005	1.001	1.000	1.000	1.000*	1.274	

\* 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>
6/30/1999	3,839,204	9,316,426	13,107,797	14,443,985	17,295,314	18,115,833	19,057,944	20,026,805	20,587,110	21,912,450	23,733,133
6/30/2000	4,737,137	10,801,960	15,763,984	20,485,445	22,357,159	23,951,657	27,770,344	28,270,400	28,405,612	28,900,128	29,432,444
6/30/2001	6,154,248	11,288,495	18,608,873	22,257,470	27,071,628	31,128,564	34,580,491	38,265,206	39,760,866	39,863,969	39,827,271
6/30/2002	3,960,852	8,889,846	11,646,097	17,255,805	21,820,333	29,677,608	33,394,055	36,905,442	38,961,779	39,639,645	40,574,878
6/30/2003	3,565,397	7,554,997	12,213,121	16,601,626	21,595,438	24,005,587	25,606,682	26,399,768	26,805,938	27,334,378	27,630,568
6/30/2004	3,620,354	8,022,582	12,661,634	16,772,767	21,618,835	25,580,460	28,363,892	28,502,348	29,943,199	30,800,231	30,829,167
6/30/2005	3,903,358	7,697,699	13,604,326	17,384,744	20,543,409	22,656,323	23,751,695	24,512,051	25,432,108	27,227,744	27,529,033
6/30/2006	3,026,356	7,207,352	11,735,412	15,805,370	17,726,161	21,778,209	24,620,661	25,702,068	25,959,118	26,391,318	29,501,125
6/30/2007	3,771,025	9,845,929	15,872,486	21,946,285	24,737,840	27,223,052	29,834,729	30,593,454	32,545,896	32,950,827	33,236,338
6/30/2008	4,742,857	10,583,227	16,706,346	22,066,877	26,795,758	29,384,304	30,344,271	31,550,480	32,718,413	33,588,539	34,665,090
6/30/2009	4,395,261	9,230,820	15,936,952	19,747,178	24,211,147	26,102,570	27,502,605	28,746,404	29,654,151	34,279,519	
6/30/2010	5,200,890	11,429,277	18,450,908	24,448,314	28,538,765	30,983,023	33,665,788	34,869,270	35,639,904		
6/30/2011	5,895,768	13,572,736	18,979,108	24,376,762	28,856,226	31,260,002	31,837,194	32,509,081			
6/30/2012	6,751,329	12,668,240	19,895,712	25,188,657	29,486,732	32,367,224	34,478,251				
6/30/2013	6,233,196	12,127,920	19,478,425	27,083,110	29,540,217	30,234,557					
6/30/2014	6,622,104	12,620,518	17,253,879	20,549,750	22,902,457						
6/30/2015	6,746,596	13,101,109	21,028,596	26,235,245							
6/30/2016	6,353,540	12,011,597	20,016,972								
6/30/2017	6,734,724	13,463,810									
6/30/2018	7,230,074										

<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>
6/30/1999	23,926,254	24,751,337	25,173,516	25,072,502	25,193,455	25,213,347	25,280,358	25,280,192	25,213,717
6/30/2000	29,983,522	30,237,878	30,462,546	30,868,050	31,018,632	31,118,874	40,549,012	31,458,057	
6/30/2001	40,332,176	40,586,503	40,581,909	40,609,841	40,633,385	40,668,854	40,667,365		
6/30/2002	41,363,714	41,461,832	41,446,530	41,648,403	41,693,533	41,715,588			
6/30/2003	27,666,475	27,736,998	27,687,444	28,037,986	28,082,720				
6/30/2004	31,678,426	31,748,396	31,809,599	31,710,677					
6/30/2005	27,462,317	27,786,081	28,006,893						
6/30/2006	29,869,034	29,745,641							
6/30/2007	33,442,034								

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
6/30/1999	5,477,222	3,791,371	1,336,188	2,851,329	820,519	942,111	968,861	560,305	1,325,340	1,820,683	193,121	825,083	422,179
6/30/2000	6,064,823	4,962,024	4,721,461	1,871,714	1,594,498	3,818,687	500,056	135,212	494,516	532,316	551,078	254,356	224,668
6/30/2001	5,134,247	7,320,378	3,648,597	4,814,158	4,056,936	3,451,927	3,684,715	1,495,660	103,103	-36,698	504,905	254,327	-4,594
6/30/2002	4,928,994	2,756,251	5,609,708	4,564,528	7,857,275	3,716,447	3,511,387	2,056,337	677,866	935,233	788,836	98,118	-15,302
6/30/2003	3,989,600	4,658,124	4,388,505	4,993,812	2,410,149	1,601,095	793,086	406,170	528,440	296,190	35,907	70,523	-49,554
6/30/2004	4,402,228	4,639,052	4,111,133	4,846,068	3,961,625	2,783,432	138,456	1,440,851	857,032	28,936	849,259	69,970	61,203
6/30/2005	3,794,341	5,906,627	3,780,418	3,158,665	2,112,914	1,095,372	760,356	920,057	1,795,636	301,289	-66,716	323,764	220,812
6/30/2006	4,180,996	4,528,060	4,069,958	1,920,791	4,052,048	2,842,452	1,081,407	257,050	432,200	3,109,807	367,909	-123,393	
6/30/2007	6,074,904	6,026,557	6,073,799	2,791,555	2,485,212	2,611,677	758,725	1,952,442	404,931	285,511	205,696		
6/30/2008	5,840,370	6,123,119	5,360,531	4,728,881	2,588,546	959,967	1,206,209	1,167,933	870,126	1,076,551			
6/30/2009	4,835,559	6,706,132	3,810,226	4,463,969	1,891,423	1,400,035	1,243,799	907,747	4,625,368				
6/30/2010	6,228,387	7,021,631	5,997,406	4,090,451	2,444,258	2,682,765	1,203,482	770,634					
6/30/2011	7,676,968	5,406,372	5,397,654	4,479,464	2,403,776	577,192	671,887						
6/30/2012	5,916,911	7,227,472	5,292,945	4,298,075	2,880,492	2,111,027							
6/30/2013	5,894,724	7,350,505	7,604,685	2,457,107	694,340								
6/30/2014	5,998,414	4,633,361	3,295,871	2,352,707									
6/30/2015	6,354,513	7,927,487	5,206,649										
6/30/2016	5,658,057	8,005,375											
6/30/2017	6,729,086												

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
6/30/1999	0.0789	0.0546	0.0192	0.0411	0.0118	0.0136	0.0140	0.0081	0.0191	0.0262	0.0028	0.0119	0.0061
6/30/2000	0.0826	0.0676	0.0643	0.0255	0.0217	0.0520	0.0068	0.0018	0.0067	0.0072	0.0075	0.0035	0.0031
6/30/2001	0.0724	0.1033	0.0515	0.0679	0.0572	0.0487	0.0520	0.0211	0.0015	-0.0005	0.0071	0.0036	-0.0001
6/30/2002	0.0716	0.0400	0.0815	0.0663	0.1142	0.0540	0.0510	0.0299	0.0098	0.0136	0.0115	0.0014	-0.0002
6/30/2003	0.0646	0.0754	0.0711	0.0809	0.0390	0.0259	0.0128	0.0066	0.0086	0.0048	0.0006	0.0011	-0.0008
6/30/2004	0.0720	0.0759	0.0672	0.0793	0.0648	0.0455	0.0023	0.0236	0.0140	0.0005	0.0139	0.0011	0.0010
6/30/2005	0.0687	0.1070	0.0685	0.0572	0.0383	0.0198	0.0138	0.0167	0.0325	0.0055	-0.0012	0.0059	0.0040
6/30/2006	0.0820	0.0888	0.0798	0.0377	0.0794	0.0557	0.0212	0.0050	0.0085	0.0610	0.0072	-0.0024	
6/30/2007	0.1077	0.1068	0.1077	0.0495	0.0441	0.0463	0.0135	0.0346	0.0072	0.0051	0.0036		
6/30/2008	0.0907	0.0951	0.0832	0.0734	0.0402	0.0149	0.0187	0.0181	0.0135	0.0167			
6/30/2009	0.0802	0.1112	0.0632	0.0741	0.0314	0.0232	0.0206	0.0151	0.0767				
6/30/2010	0.0915	0.1032	0.0881	0.0601	0.0359	0.0394	0.0177	0.0113					
6/30/2011	0.0979	0.0689	0.0688	0.0571	0.0307	0.0074	0.0086						
6/30/2012	0.0768	0.0938	0.0687	0.0558	0.0374	0.0274							
6/30/2013	0.0809	0.1008	0.1043	0.0337	0.0095								
6/30/2014	0.0684	0.0528	0.0376	0.0268									
6/30/2015	0.0754	0.0941	0.0618										
6/30/2016	0.0718	0.1016											
6/30/2017	0.0809												

Best 3/5	0.0760	0.0962	0.0664	0.0489	0.0327	0.0218	0.0166	0.0148	0.0182	0.0091	0.0038	0.0012	0.0002
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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:

<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>
6/30/1999	17,870,839	24,440,533	24,641,771	28,158,578	26,171,174	26,056,134	25,871,677	25,772,678	25,976,153	25,916,971	25,940,339
6/30/2000	17,506,638	20,791,827	32,370,028	32,522,511	31,917,010	32,106,634	32,694,192	32,886,716	32,800,874	32,871,926	32,645,087
6/30/2001	14,251,230	30,489,368	32,862,089	35,514,672	37,142,075	37,469,190	37,438,866	37,461,446	37,553,701	37,352,904	37,121,658
6/30/2002	16,155,666	19,579,397	22,508,320	25,117,961	23,273,036	22,683,774	22,557,628	22,311,460	22,498,048	22,507,172	22,363,874
6/30/2003	11,320,004	14,000,737	17,483,502	15,892,026	15,838,276	16,023,885	15,190,992	14,967,832	15,197,764	15,014,633	15,208,300
6/30/2004	16,878,272	21,836,390	18,879,075	19,395,127	19,005,103	18,736,942	18,775,575	18,771,060	18,781,999	19,008,681	19,028,336
6/30/2005	14,964,147	18,982,835	21,319,523	20,961,793	20,379,326	20,480,819	20,122,781	20,221,254	20,317,287	20,592,043	20,535,962
6/30/2006	19,316,603	23,331,159	24,314,612	23,587,965	22,838,879	22,857,223	22,569,713	22,668,242	22,461,305	22,282,457	22,297,458
6/30/2007	18,536,652	22,708,574	23,315,121	23,451,523	23,284,186	22,778,967	22,688,936	22,799,337	22,866,895	23,101,377	23,034,227
6/30/2008	17,181,411	19,037,423	18,712,806	18,467,967	18,394,060	18,475,320	18,657,437	18,862,330	18,788,295	18,837,468	18,729,128
6/30/2009	13,999,490	16,257,824	16,098,882	16,350,892	17,181,311	17,207,301	17,249,105	17,093,628	16,837,032	16,910,033	
6/30/2010	12,371,429	15,462,688	16,511,043	16,371,336	16,662,998	16,437,698	16,204,893	16,148,773	16,273,259		
6/30/2011	10,241,217	11,838,226	12,890,015	14,011,193	14,049,900	14,003,950	13,702,601	13,498,034			
6/30/2012	8,967,533	11,660,058	11,519,870	11,825,402	12,259,563	11,640,020	12,168,173				
6/30/2013	9,493,017	11,422,653	12,803,652	12,872,587	13,296,534	14,028,196					
6/30/2014	8,861,417	12,038,209	15,222,653	15,314,886	17,355,178						
6/30/2015	9,611,757	12,302,986	15,615,424	19,350,119							
6/30/2016	10,710,694	13,870,369	19,199,737								
6/30/2017	10,915,520	16,857,419									
6/30/2018	12,379,460										
<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>		
6/30/1999	25,891,006	25,975,849	25,955,874	25,997,694	25,986,614	26,080,786	26,144,429	26,159,527	26,227,911		
6/30/2000	32,367,227	32,366,227	32,577,544	32,477,544	32,527,544	32,531,044	32,567,186	32,755,044			
6/30/2001	37,020,302	37,205,002	37,205,002	37,295,002	37,305,337	37,305,236	37,409,737				
6/30/2002	22,478,437	22,561,912	22,661,912	22,615,262	22,607,412	22,738,013					
6/30/2003	15,174,030	15,238,931	15,243,228	15,320,728	15,438,226						
6/30/2004	18,824,222	18,899,333	18,944,133	19,056,527							
6/30/2005	20,282,214	20,407,211	20,479,606								
6/30/2006	22,506,208	22,367,708									
6/30/2007	22,984,057										

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
6/30/1999	1.368	1.008	1.143	0.929	0.996	0.993	0.996	1.008	0.998	1.001	0.998
6/30/2000	1.188	1.557	1.005	0.981	1.006	1.018	1.006	0.997	1.002	0.993	0.991
6/30/2001	2.139	1.078	1.081	1.046	1.009	0.999	1.001	1.002	0.995	0.994	0.997
6/30/2002	1.212	1.150	1.116	0.927	0.975	0.994	0.989	1.008	1.000	0.994	1.005
6/30/2003	1.237	1.249	0.909	0.997	1.012	0.948	0.985	1.015	0.988	1.013	0.998
6/30/2004	1.294	0.865	1.027	0.980	0.986	1.002	1.000	1.001	1.012	1.001	0.989
6/30/2005	1.269	1.123	0.983	0.972	1.005	0.983	1.005	1.005	1.014	0.997	0.988
6/30/2006	1.208	1.042	0.970	0.968	1.001	0.987	1.004	0.991	0.992	1.001	1.009
6/30/2007	1.225	1.027	1.006	0.993	0.978	0.996	1.005	1.003	1.010	0.997	0.998
6/30/2008	1.108	0.983	0.987	0.996	1.004	1.010	1.011	0.996	1.003	0.994	
6/30/2009	1.161	0.990	1.016	1.051	1.002	1.002	0.991	0.985	1.004		
6/30/2010	1.250	1.068	0.992	1.018	0.986	0.986	0.997	1.008			
6/30/2011	1.156	1.089	1.087	1.003	0.997	0.978	0.985				
6/30/2012	1.300	0.988	1.027	1.037	0.949	1.045					
6/30/2013	1.203	1.121	1.005	1.033	1.055						
6/30/2014	1.358	1.265	1.006	1.133							
6/30/2015	1.280	1.269	1.239								
6/30/2016	1.295	1.384									
6/30/2017	1.544										

3 Yr Mean 1.373 1.306 1.083 1.068 1.000 1.003 0.991 0.996 1.006 0.997 0.998

Best 3/5 1.311 1.218 1.040 1.029 0.995 0.999 0.998 0.997 1.006 0.998 0.995

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
6/30/1999	1.003	0.999	1.002	1.000	1.004	1.002	1.001	1.003			
6/30/2000	1.000	1.007	0.997	1.002	1.000	1.001	1.006	1.002 *			
6/30/2001	1.005	1.000	1.002	1.000	1.000	1.003	1.002 *	1.002 *			
6/30/2002	1.004	1.004	0.998	1.000	1.006	1.002 *	1.002 *	1.002 *			
6/30/2003	1.004	1.000	1.005	1.008	1.001 *	1.002 *	1.002 *	1.002 *			
6/30/2004	1.004	1.002	1.006								
6/30/2005	1.006	1.004									
6/30/2006	0.994										

3 Yr Mean 1.001 1.002 1.003 1.003 1.002 @ 1.002 @ 1.004 @ 1.003 @

Best 3/5 1.004 1.002 1.002 1.001 1.002 \* 1.002 \* 1.002 \* 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
6/30/2014					0.995	0.999	0.998	0.997	1.006	0.998	0.995
6/30/2015				1.029	0.995	0.999	0.998	0.997	1.006	0.998	0.995
6/30/2016			1.040	1.029	0.995	0.999	0.998	0.997	1.006	0.998	0.995
6/30/2017		1.218	1.040	1.029	0.995	0.999	0.998	0.997	1.006	0.998	0.995
6/30/2018	1.311	1.218	1.040	1.029	0.995	0.999	0.998	0.997	1.006	0.998	0.995

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/211	FACTORS
6/30/2014	1.004	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.013
6/30/2015	1.004	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.042
6/30/2016	1.004	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.084
6/30/2017	1.004	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.320
6/30/2018	1.004	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.008*	1.731

\* 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>
6/30/1999	5,645,109	14,248,705	17,569,825	25,183,712	25,058,949	25,774,298	25,987,753	26,716,649	27,622,286	27,442,613	27,482,746
6/30/2000	7,425,046	11,334,437	22,121,168	24,004,309	26,375,462	28,426,578	31,064,530	33,119,228	35,733,095	38,349,459	37,914,533
6/30/2001	4,260,882	15,429,188	21,973,828	28,949,866	32,339,075	37,155,786	38,694,017	39,438,664	40,301,066	41,469,276	41,516,497
6/30/2002	5,417,843	10,457,364	14,845,752	18,553,835	18,377,627	20,596,940	21,904,826	21,786,025	21,927,042	22,096,880	22,079,992
6/30/2003	3,625,016	8,838,334	11,944,145	15,404,426	17,275,411	18,647,317	26,874,040	28,737,346	32,342,487	32,557,653	32,830,394
6/30/2004	3,774,234	7,852,639	12,874,440	17,743,677	20,964,408	21,451,480	21,517,200	22,437,637	22,716,275	22,586,635	22,750,661
6/30/2005	2,600,479	8,258,576	13,917,362	16,652,515	18,112,331	20,117,387	20,124,028	20,118,732	21,021,398	22,037,830	22,449,486
6/30/2006	2,869,957	9,160,787	13,513,786	16,714,924	18,433,309	19,711,824	23,390,977	24,635,559	27,019,896	29,649,191	29,758,998
6/30/2007	2,679,357	8,050,836	17,168,940	21,154,225	23,399,437	24,042,189	20,085,268	23,186,565	23,238,134	23,276,077	23,345,504
6/30/2008	2,183,702	7,419,546	12,639,769	16,660,313	17,390,434	18,350,366	19,122,102	19,781,200	19,863,189	20,098,940	20,391,134
6/30/2009	3,058,839	8,335,746	12,569,494	18,260,306	24,609,344	27,221,154	27,939,408	28,424,527	28,779,155	29,263,414	
6/30/2010	3,433,277	12,358,178	20,244,786	22,434,522	27,046,515	30,648,836	32,614,773	34,323,717	34,476,390		
6/30/2011	4,180,490	13,354,138	20,401,562	25,858,266	30,705,289	32,983,413	34,764,995	35,203,247			
6/30/2012	3,497,749	10,865,402	15,803,213	27,332,190	28,683,193	32,093,865	34,324,791				
6/30/2013	3,186,266	9,673,249	13,959,439	19,314,331	22,830,187	25,087,291					
6/30/2014	4,667,669	12,457,771	18,691,548	19,550,020	24,893,101						
6/30/2015	4,898,308	10,323,786	17,237,877	25,920,545							
6/30/2016	5,315,561	11,390,146	15,771,252								
6/30/2017	4,170,686	10,684,363									
6/30/2018	4,990,550										

<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>
6/30/1999	27,492,356	27,652,464	27,683,519	27,693,390	27,696,843	27,866,650	27,960,921	28,152,270	28,429,895
6/30/2000	37,947,659	37,709,449	37,730,499	37,731,433	37,828,639	37,873,238	37,880,910	37,955,957	
6/30/2001	41,473,265	41,474,557	41,480,717	41,469,893	41,471,440	41,471,440	41,471,441		
6/30/2002	22,169,123	22,214,107	22,278,485	22,281,686	22,281,269	22,432,396			
6/30/2003	32,800,660	35,629,651	35,637,870	35,701,786	36,138,546				
6/30/2004	22,712,540	22,924,047	22,906,264	22,953,109					
6/30/2005	22,771,860	24,175,083	24,475,745						
6/30/2006	30,011,111	30,099,417							
6/30/2007	23,375,779								

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
6/30/1999	8,603,596	3,321,120	7,613,887	-124,763	715,349	213,455	728,896	905,637	-179,673	40,133	9,610	160,108	31,055
6/30/2000	3,909,391	10,786,731	1,883,141	2,371,153	2,051,116	2,637,952	2,054,698	2,613,867	2,616,364	-434,926	33,126	-238,210	21,050
6/30/2001	11,168,306	6,544,640	6,976,038	3,389,209	4,816,711	1,538,231	744,647	862,402	1,168,210	47,221	-43,232	1,292	6,160
6/30/2002	5,039,521	4,388,388	3,708,083	-176,208	2,219,313	1,307,886	-118,801	141,017	169,838	-16,888	89,131	44,984	64,378
6/30/2003	5,213,318	3,105,811	3,460,281	1,870,985	1,371,906	8,226,723	1,863,306	3,605,141	215,166	272,741	-29,734	2,828,991	8,219
6/30/2004	4,078,405	5,021,801	4,869,237	3,220,731	487,072	65,720	920,437	278,638	-129,640	164,026	-38,121	211,507	-17,783
6/30/2005	5,658,097	5,658,786	2,735,153	1,459,816	2,005,056	6,641	-5,296	902,666	1,016,432	411,656	322,374	1,403,223	300,662
6/30/2006	6,290,830	4,352,999	3,201,138	1,718,385	1,278,515	3,679,153	1,244,582	2,384,337	2,629,295	109,807	252,113	88,306	
6/30/2007	5,371,479	9,118,104	3,985,285	2,245,212	642,752	-3,956,921	3,101,297	51,569	37,943	69,427	30,275		
6/30/2008	5,235,844	5,220,223	4,020,544	730,121	959,932	771,736	659,098	81,989	235,751	292,194			
6/30/2009	5,276,907	4,233,748	5,690,812	6,349,038	2,611,810	718,254	485,119	354,628	484,259				
6/30/2010	8,924,901	7,886,608	2,189,736	4,611,993	3,602,321	1,965,937	1,708,944	152,673					
6/30/2011	9,173,648	7,047,424	5,456,704	4,847,023	2,278,124	1,781,582	438,252						
6/30/2012	7,367,653	4,937,811	11,528,977	1,351,003	3,410,672	2,230,926							
6/30/2013	6,486,983	4,286,190	5,354,892	3,515,856	2,257,104								
6/30/2014	7,790,102	6,233,777	858,472	5,343,081									
6/30/2015	5,425,478	6,914,091	8,682,668										
6/30/2016	6,074,585	4,381,106											
6/30/2017	6,513,677												

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
6/30/1999	0.2079	0.0803	0.1840	-0.0030	0.0173	0.0052	0.0176	0.0219	-0.0043	0.0010	0.0002	0.0039	0.0008
6/30/2000	0.0747	0.2060	0.0360	0.0453	0.0392	0.0504	0.0392	0.0499	0.0500	-0.0083	0.0006	-0.0045	0.0004
6/30/2001	0.1895	0.1110	0.1184	0.0575	0.0817	0.0261	0.0126	0.0146	0.0198	0.0008	-0.0007	0.0000	0.0001
6/30/2002	0.1429	0.1244	0.1051	-0.0050	0.0629	0.0371	-0.0034	0.0040	0.0048	-0.0005	0.0025	0.0013	0.0018
6/30/2003	0.2122	0.1264	0.1408	0.0761	0.0558	0.3348	0.0758	0.1467	0.0088	0.0111	-0.0012	0.1151	0.0003
6/30/2004	0.1308	0.1611	0.1562	0.1033	0.0156	0.0021	0.0295	0.0089	-0.0042	0.0053	-0.0012	0.0068	-0.0006
6/30/2005	0.1647	0.1647	0.0796	0.0425	0.0584	0.0002	-0.0002	0.0263	0.0296	0.0120	0.0094	0.0409	0.0088
6/30/2006	0.1924	0.1331	0.0979	0.0525	0.0391	0.1125	0.0381	0.0729	0.0804	0.0034	0.0077	0.0027	
6/30/2007	0.1498	0.2543	0.1111	0.0626	0.0179	-0.1103	0.0865	0.0014	0.0011	0.0019	0.0008		
6/30/2008	0.1886	0.1881	0.1448	0.0263	0.0346	0.0278	0.0237	0.0030	0.0085	0.0105			
6/30/2009	0.1916	0.1537	0.2066	0.2305	0.0948	0.0261	0.0176	0.0129	0.0176				
6/30/2010	0.2930	0.2589	0.0719	0.1514	0.1182	0.0645	0.0561	0.0050					
6/30/2011	0.3956	0.3039	0.2353	0.2090	0.0983	0.0768	0.0189						
6/30/2012	0.3552	0.2381	0.5559	0.0651	0.1644	0.1076							
6/30/2013	0.2817	0.1861	0.2325	0.1527	0.0980								
6/30/2014	0.2658	0.2127	0.0293	0.1823									
6/30/2015	0.1656	0.2110	0.2650										
6/30/2016	0.1683	0.1214											
6/30/2017	0.1679												

Best 3/5	0.2007	0.2033	0.2443	0.1621	0.1048	0.0564	0.0329	0.0069	0.0186	0.0064	0.0024	0.0168	0.0008
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Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2013 - 2017

<u>Item *</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2013 - 2017 Mean</u>
1. Direct Losses Incurred	\$19,650,392	\$20,723,228	\$25,486,854	\$26,406,385	\$23,400,844	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,575,153	\$5,301,984	\$6,171,818	\$5,132,541	\$6,233,925	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,296,595	\$2,476,228	\$2,580,924	\$2,694,622	\$2,384,924	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,225,545	\$26,025,212	\$31,658,672	\$31,538,926	\$29,634,769	
	<u>Incurred Percentage</u>					
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.1%	9.5%	8.2%	8.5%	8.0%	8.7%
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) 1/1/2016 to 1/1/2021 AYE 6/30/2016	+ 1.3%	+ 3.0%	+ 0.9%	+ 2.1%	+ 1.2%
b) 1/1/2017 to 1/1/2021 AYE 6/30/2017	+ 1.6%	+ 2.9%	+ 0.9%	+ 2.2%	+ 1.2%
c) 1/1/2018 to 1/1/2021 AYE 6/30/2018	+ 1.7%	+ 2.8%	+ 0.9%	+ 1.8%	+ 1.2%

	<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)	+ 4.4%	+ 4.7%	- 0.7%	+ 3.9%	+ 4.2%	- 3.0%
Eight Year (16 Points)	+ 5.1%	+ 5.5%	+ 0.8%	+ 3.6%	+ 5.4%	- 6.6%
Six Year (12 Points)	+ 5.9%	+ 4.1%	- 2.8%	+ 3.5%	+ 6.1%	- 7.1%
b) Selected	+ 4.5%	+ 4.5%	+ 0.5%	+ 3.5%	+ 4.5%	+ 1.5%

(3) <u>FREQUENCY TREND</u>	<u>M&amp;C</u>	<u>OL&amp;T</u>
Selected	- 0.5%	- 1.0%

(4) TOTAL ANNUAL NET TREND

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 6/30/2016, 6/30/2017 & 6/30/2018

(1)		(2)	(3)	(1)		(2)	(3)
YEAR ENDING		MANUFACTURERS	CONTRACTORS	YEAR ENDING		MANUFACTURERS	CONTRACTORS
<u>QUARTER*</u>		CLASS GROUP	CLASS GROUP			CLASS GROUP	CLASS GROUP
		SALES EXPOSURE	PAYROLL EXPOSURE			SALES EXPOSURE	PAYROLL EXPOSURE
		<u>INDICES</u>	<u>INDICES</u>			<u>INDICES</u>	<u>INDICES</u>
2008	1	0.962	21.143	2015	1	1.025	24.773
	2	0.958	21.357		2	1.027	24.921
	3	0.956	21.604		3	1.029	25.023
	4	0.957	21.880		4	1.031	25.178
2009	1	0.961	22.128	2016	1	1.031	25.318
	2	0.966	22.349		2	1.032	25.487
	3	0.969	22.502		3	1.031	25.730
	4	0.968	22.653		4	1.032	25.941
2010	1	0.964	22.806	2017	1	1.035	26.147
	2	0.962	22.928		2	1.036	26.313
	3	0.962	23.080		3	1.039	26.511
	4	0.965	23.208		4	1.042	26.704
2011	1	0.968	23.312	2018	1	1.044	26.943
	2	0.973	23.427		2	1.049	27.193
	3	0.978	23.556		3	1.054	27.435
	4	0.982	23.638		4	1.057	27.712
2012	1	0.986	23.715	2019	1P	1.062	27.946
	2	0.990	23.794		2P	1.067	28.178
	3	0.995	23.873		3P	1.071	28.392
	4	1.000	23.965		4P	1.077	28.588
2013	1	1.004	24.062	2020	1P	1.082	28.801
	2	1.006	24.140		2P	1.086	29.004
	3	1.008	24.167		3P	1.090	29.185
	4	1.010	24.208		4P	1.093	29.336
2014	1	1.012	24.299	2021	1P	1.098	29.458
	2	1.016	24.405		2P	1.103	29.558
	3	1.020	24.538		3P	1.109	29.652
	4	1.022	24.663		4P	1.115	29.748

CHANGE IN EXPOSURES		MANUFACTURERS	CONTRACTORS
1/1/2016 to 1/1/2021		(2021:2/2016:2)	1.069
1/1/2017 to 1/1/2021		(2021:2/2017:2)	1.065
1/1/2018 to 1/1/2021		(2021:2/2018:2)	1.051
AVERAGE ANNUAL TREND FACTOR			
1/1/2016 to 1/1/2021		( 5.0 YRS )	1.013
1/1/2017 to 1/1/2021		( 4.0 YRS )	1.016
1/1/2018 to 1/1/2021		( 3.0 YRS )	1.017

\* 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@	9.3%	-1.2%
OTHER DURABLES	6.3%	-1.0%
CLOTHING	9.7%	-0.1%
FOOD@	43.9%	1.4%
OTHER NON-DURABLES	26.5%	1.5%
RECREATION SERVICES#	4.3%	2.2%
TOTAL	100.0%	0.9% <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 6/30/2018. 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 2016 to 2021.

<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.

@ These categories have been revised. See Executive Summary for details.

# The category of Recreations Services has been introduced. See Executive Summary for details.

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
2008	1	1.069	0.962	0.951	0.886	0.896	0.915	2015	1	0.940	0.936	1.011	1.045	1.017	1.039
	2	1.065	0.970	0.949	0.896	0.901	0.922		2	0.935	0.927	1.007	1.050	1.021	1.042
	3	1.064	0.977	0.949	0.908	0.907	0.931		3	0.930	0.917	1.004	1.054	1.023	1.047
	4	1.065	0.983	0.947	0.921	0.912	0.936		4	0.924	0.908	1.000	1.058	1.025	1.052
2009	1	1.066	0.986	0.947	0.931	0.919	0.940	2016	1	0.920	0.903	0.999	1.061	1.027	1.058
	2	1.069	0.986	0.950	0.936	0.930	0.942		2	0.913	0.903	0.999	1.063	1.030	1.064
	3	1.066	0.985	0.952	0.937	0.942	0.944		3	0.907	0.903	0.998	1.064	1.034	1.071
	4	1.061	0.986	0.956	0.936	0.953	0.947		4	0.900	0.904	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	0.903	0.999	1.066	1.042	1.086
	2	1.039	0.983	0.956	0.937	0.966	0.953		2	0.888	0.900	0.997	1.068	1.046	1.092
	3	1.027	0.982	0.953	0.940	0.968	0.955		3	0.882	0.897	0.995	1.071	1.048	1.100
	4	1.015	0.982	0.949	0.943	0.970	0.957		4	0.875	0.895	0.992	1.074	1.050	1.108
2011	1	1.006	0.987	0.947	0.948	0.973	0.960	2018	1	0.869	0.893	0.991	1.078	1.052	1.114
	2	1.001	0.994	0.949	0.955	0.977	0.964		2	0.866	0.890	0.994	1.082	1.054	1.120
	3	1.000	1.002	0.955	0.965	0.981	0.968		3	0.865	0.887	0.993	1.086	1.055	1.125
	4	1.000	1.008	0.965	0.975	0.985	0.973		4	0.866	0.879	0.994	1.089	1.055	1.131
2012	1	1.001	1.011	0.976	0.984	0.990	0.980	2019	1P	0.868	0.871	0.990	1.094	1.057	1.137
	2	1.001	1.009	0.988	0.991	0.993	0.986		2P	0.868	0.864	0.986	1.098	1.059	1.143
	3	1.000	1.005	0.994	0.996	0.997	0.993		3P	0.870	0.860	0.987	1.103	1.063	1.149
	4	1.000	1.000	1.000	1.000	1.000	1.000		4P	0.870	0.861	0.988	1.109	1.070	1.154
2013	1	0.998	0.994	1.005	1.004	1.001	1.005	2020	1P	0.868	0.861	0.988	1.114	1.077	1.160
	2	0.994	0.989	1.006	1.008	1.001	1.009		2P	0.867	0.860	0.988	1.120	1.083	1.165
	3	0.988	0.985	1.009	1.012	1.001	1.013		3P	0.865	0.860	0.989	1.125	1.090	1.170
	4	0.981	0.979	1.010	1.015	1.002	1.017		4P	0.863	0.859	0.990	1.130	1.097	1.175
2014	1	0.972	0.970	1.010	1.018	1.003	1.022	2021	1P	0.861	0.858	0.991	1.136	1.104	1.180
	2	0.962	0.961	1.013	1.024	1.006	1.028		2P	0.859	0.857	0.992	1.141	1.111	1.185
	3	0.954	0.953	1.014	1.030	1.009	1.032		3P	0.857	0.857	0.993	1.147	1.118	1.190
	4	0.947	0.944	1.013	1.038	1.013	1.036		4P	0.856	0.856	0.994	1.153	1.124	1.195
Change In Exposures*								Average Annual Trend Factor							
1/1/2016 to 1/1/2021 (2021:2/2016:2)								1/1/2016 to 1/1/2021 (5.0 Years)							
		0.941	0.949	0.994	1.074	1.079	1.113			-1.2%	-1.0%	-0.1%	1.4%	1.5%	2.2%

\*Assumes a loss cost revision date of January 1, 2020, and a prospective average date of coverage one year later (January 1, 2021).

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PREMISES/OPERATIONS  
GOVERNMENTAL SUBDIVISIONS  
OWNERS, LANDLORDS AND TENANTS  
AVERAGE ANNUAL EXPOSURE TRENDS  
FOR ACCIDENT YEARS ENDING 6/30/2016, 6 /30/2017 & 6/30/2018

(1) YEAR ENDING QUARTER		(2) YEARLY VALUES BASED ON MOODY'S ANALYTICS EXPOSURE MODEL, HISTORY AND FORECASTS @		(1) YEAR ENDING QUARTER		(2) YEARLY VALUES BASED ON MOODY'S ANALYTICS EXPOSURE MODEL, HISTORY AND FORECASTS @	
2008	1		0.893	2015	1		1.057
	2		0.905		2		1.058
	3		0.918		3		1.058
	4		0.926		4		1.057
2009	1		0.926	2016	1		1.057
	2		0.924		2		1.056
	3		0.920		3		1.057
	4		0.920		4		1.060
2010	1		0.926	2017	1		1.067
	2		0.933		2		1.074
	3		0.940		3		1.082
	4		0.947		4		1.092
2011	1		0.954	2018	1		1.100
	2		0.962		2		1.111
	3		0.971		3		1.121
	4		0.977		4		1.130
2012	1		0.984	2019	1P		1.138
	2		0.988		2P		1.143
	3		0.992		3P		1.147
	4		1.000		4P		1.150
2013	1		1.007	2020	1P		1.152
	2		1.016		2P		1.155
	3		1.025		3P		1.159
	4		1.033		4P		1.163
2014	1		1.040	2021	1P		1.167
	2		1.046		2P		1.171
	3		1.052		3P		1.176
	4		1.057		4P		1.180

CHANGE IN EXPOSURES

1/1/2016 to 1/1/2021	(2021:2/2016:2)	1.109
1/1/2017 to 1/1/2021	(2021:2/2017:2)	1.090
1/1/2018 to 1/1/2021	(2021:2/2018:2)	1.054

AVERAGE ANNUAL TREND FACTOR

1/1/2016 to 1/1/2021	( 5.0 YRS )	1.021
1/1/2017 to 1/1/2021	( 4.0 YRS )	1.022
1/1/2018 to 1/1/2021	( 3.0 YRS )	1.018

\* 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>
12/31/2008	\$ 247,880,371	4,692	\$ 52,830	\$ 49,907		
6/30/2009	246,193,012	4,747	51,863	51,003		
12/31/2009	256,431,765	4,813	53,279	52,124		
6/30/2010	263,329,059	4,910	53,631	53,269		
12/31/2010	258,475,458	4,935	52,376	54,439	\$ 52,800	
6/30/2011	278,363,512	5,071	54,893	55,635	54,134	
12/31/2011	283,580,613	4,922	57,615	56,857	55,502	
6/30/2012	254,266,230	4,333	58,681	58,106	56,904	
12/31/2012	239,220,144	4,157	57,546	59,383	58,342	\$ 56,831
6/30/2013	244,547,123	4,195	58,295	60,687	59,816	58,480
12/31/2013	255,271,328	4,294	59,448	62,020	61,328	60,177
6/30/2014	292,671,024	4,678	62,563	63,383	62,877	61,923
12/31/2014	287,864,289	4,306	66,852	64,775	64,466	63,720
6/30/2015	257,492,042	3,936	65,420	66,198	66,095	65,569
12/31/2015	242,914,839	3,861	62,915	67,652	67,765	67,472
6/30/2016	236,352,397	3,430	68,907	69,139	69,477	69,429
12/31/2016	243,099,016	3,381	71,902	70,658	71,233	71,444
6/30/2017	250,406,249	3,513	71,280	72,210	73,033	73,517
12/31/2017	264,912,010	3,426	77,324	73,796	74,878	75,650
6/30/2018	255,197,202	3,191	79,974	75,417	76,770	77,845
Goodness of Fit Statistic, R-Squared:				0.932	0.935	0.922
Average Annual Severity Trend (10 yr)				+ 4.4%		
Average Annual Severity Trend ( 8 yr)				+ 5.1%		
Average Annual Severity Trend ( 6 yr)				+ 5.9%		
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 <u>Severity</u>	(5) Exponential Curve of Best Fit to Col (4) <u>10 Year      8 Year      6 Year</u>		
12/31/2008	\$ 206,931,445	18,904	\$ 10,946	\$ 10,035		
6/30/2009	197,378,662	18,414	10,719	10,267		
12/31/2009	191,082,032	17,838	10,712	10,504		
6/30/2010	190,996,950	18,258	10,461	10,747		
12/31/2010	193,138,122	18,705	10,325	10,995	\$ 10,577	
6/30/2011	196,767,858	18,690	10,528	11,250	10,867	
12/31/2011	204,201,496	18,616	10,969	11,510	11,164	
6/30/2012	195,498,111	17,992	10,866	11,776	11,470	
12/31/2012	209,614,061	17,080	12,272	12,048	11,784	\$ 12,369
6/30/2013	213,127,102	16,558	12,872	12,327	12,106	12,620
12/31/2013	203,595,534	15,932	12,779	12,612	12,438	12,877
6/30/2014	210,685,055	15,697	13,422	12,903	12,778	13,139
12/31/2014	215,166,861	15,695	13,709	13,202	13,128	13,406
6/30/2015	210,100,811	15,368	13,671	13,507	13,487	13,679
12/31/2015	210,819,116	15,464	13,633	13,819	13,857	13,957
6/30/2016	212,446,701	15,591	13,626	14,139	14,236	14,240
12/31/2016	224,563,798	15,802	14,211	14,466	14,626	14,530
6/30/2017	230,803,654	15,819	14,590	14,800	15,026	14,825
12/31/2017	241,754,678	15,569	15,528	15,142	15,437	15,127
6/30/2018	246,142,376	15,442	15,940	15,493	15,860	15,435
Goodness of Fit Statistic, R-Squared:				0.905	0.928	0.900
Average Annual Severity Trend (10 yr)				+ 4.7%		
Average Annual Severity Trend ( 8 yr)				+ 5.5%		
Average Annual Severity Trend ( 6 yr)				+ 4.1%		
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 <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>
12/31/2008	\$ 22,359,401	468	\$ 47,776	\$ 41,872		
6/30/2009	22,204,717	486	45,689	41,718		
12/31/2009	25,532,110	556	45,921	41,564		
6/30/2010	24,007,916	637	37,689	41,411		
12/31/2010	19,366,879	614	31,542	41,259	\$ 38,392	
6/30/2011	19,633,680	529	37,115	41,107	38,546	
12/31/2011	19,851,013	533	37,244	40,956	38,701	
6/30/2012	19,302,882	505	38,224	40,805	38,857	
12/31/2012	20,005,873	469	42,656	40,655	39,013	\$ 44,139
6/30/2013	20,792,787	440	47,256	40,505	39,170	43,523
12/31/2013	24,432,325	491	49,760	40,356	39,327	42,916
6/30/2014	22,877,885	541	42,288	40,207	39,485	42,317
12/31/2014	21,701,249	539	40,262	40,059	39,644	41,726
6/30/2015	25,005,057	572	43,715	39,912	39,803	41,144
12/31/2015	21,719,574	624	34,807	39,765	39,963	40,570
6/30/2016	23,169,019	658	35,211	39,618	40,124	40,004
12/31/2016	22,713,805	656	34,625	39,473	40,285	39,445
6/30/2017	20,888,192	643	32,486	39,327	40,447	38,895
12/31/2017	28,217,317	639	44,159	39,182	40,610	38,352
6/30/2018	29,223,054	614	47,595	39,038	40,773	37,817
Goodness of Fit Statistic, R-Squared:				0.025	0.018	0.126
Average Annual Severity Trend (10 yr)				- 0.7%		
Average Annual Severity Trend ( 8 yr)				+ 0.8%		
Average Annual Severity Trend ( 6 yr)				- 2.8%		
Selected Annual Severity Trend				+ 0.5%		

\* 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  
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>
12/31/2008	\$ 602,523,581	20,152	\$ 29,899	\$ 31,118		
6/30/2009	639,258,903	20,045	31,891	31,719		
12/31/2009	658,207,624	20,410	32,249	32,333		
6/30/2010	687,021,264	20,974	32,756	32,958		
12/31/2010	708,752,256	21,242	33,366	33,595	\$ 34,044	
6/30/2011	747,542,426	21,546	34,695	34,244	34,653	
12/31/2011	727,580,048	20,617	35,290	34,906	35,273	
6/30/2012	671,120,497	18,343	36,587	35,581	35,905	
12/31/2012	628,015,793	17,424	36,043	36,269	36,547	\$ 36,623
6/30/2013	671,246,399	18,244	36,793	36,970	37,201	37,264
12/31/2013	714,094,633	19,294	37,011	37,685	37,867	37,917
6/30/2014	801,737,581	20,625	38,872	38,413	38,544	38,580
12/31/2014	786,701,119	19,769	39,795	39,156	39,234	39,256
6/30/2015	775,845,893	18,934	40,976	39,913	39,936	39,943
12/31/2015	801,886,401	19,053	42,087	40,684	40,651	40,642
6/30/2016	774,732,751	17,990	43,065	41,471	41,378	41,353
12/31/2016	746,899,974	18,073	41,327	42,273	42,119	42,077
6/30/2017	789,066,639	18,790	41,994	43,090	42,873	42,814
12/31/2017	815,123,324	19,336	42,156	43,923	43,640	43,563
6/30/2018	887,045,921	19,996	44,361	44,772	44,421	44,326
Goodness of Fit Statistic, R-Squared:				0.961	0.936	0.868
Average Annual Severity Trend (10 yr)				+ 3.9%		
Average Annual Severity Trend ( 8 yr)				+ 3.6%		
Average Annual Severity Trend ( 6 yr)				+ 3.5%		
Selected Annual Severity Trend				+ 3.5%		

\* 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  
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>
12/31/2008	\$ 82,645,639	9,194	\$ 8,989	\$ 8,134		
6/30/2009	76,422,964	9,218	8,291	8,304		
12/31/2009	82,028,606	9,280	8,839	8,478		
6/30/2010	85,918,094	9,586	8,963	8,656		
12/31/2010	83,364,265	9,868	8,448	8,838	\$ 8,397	
6/30/2011	85,500,116	10,030	8,524	9,023	8,619	
12/31/2011	90,565,359	9,815	9,227	9,212	8,847	
6/30/2012	85,344,115	9,058	9,422	9,406	9,081	
12/31/2012	85,107,340	8,618	9,876	9,603	9,322	\$ 9,082
6/30/2013	84,185,280	8,677	9,702	9,804	9,568	9,356
12/31/2013	81,241,355	8,617	9,428	10,010	9,822	9,638
6/30/2014	80,880,185	8,867	9,121	10,220	10,081	9,929
12/31/2014	83,215,871	8,830	9,424	10,434	10,348	10,229
6/30/2015	93,556,017	8,481	11,031	10,653	10,622	10,538
12/31/2015	96,082,857	8,535	11,258	10,876	10,903	10,856
6/30/2016	91,196,968	8,522	10,701	11,104	11,192	11,184
12/31/2016	95,603,340	8,574	11,150	11,337	11,488	11,521
6/30/2017	103,821,465	8,985	11,555	11,575	11,792	11,869
12/31/2017	110,984,731	8,732	12,710	11,818	12,104	12,227
6/30/2018	109,399,620	8,247	13,265	12,065	12,424	12,596
Goodness of Fit Statistic, R-Squared:				0.817	0.854	0.788
Average Annual Severity Trend (10 yr)				+ 4.2%		
Average Annual Severity Trend ( 8 yr)				+ 5.4%		
Average Annual Severity Trend ( 6 yr)				+ 6.1%		
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  
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 <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>
12/31/2008	\$ 26,475,503	519	\$ 51,013	\$ 78,068		
6/30/2009	34,861,437	542	64,320	76,892		
12/31/2009	44,154,718	561	78,707	75,734		
6/30/2010	43,950,276	592	74,240	74,593		
12/31/2010	34,740,318	555	62,595	73,470	\$ 87,761	
6/30/2011	42,101,445	509	82,714	72,363	84,817	
12/31/2011	47,463,206	465	102,071	71,273	81,972	
6/30/2012	36,943,553	378	97,734	70,199	79,222	
12/31/2012	32,625,911	363	89,879	69,142	76,564	\$ 77,365
6/30/2013	29,580,591	403	73,401	68,101	73,995	74,553
12/31/2013	34,055,692	444	76,702	67,075	71,513	71,843
6/30/2014	38,523,636	507	75,984	66,065	69,113	69,232
12/31/2014	30,966,101	545	56,819	65,070	66,795	66,716
6/30/2015	34,850,120	616	56,575	64,090	64,554	64,291
12/31/2015	41,269,770	721	57,240	63,124	62,388	61,955
6/30/2016	39,690,098	748	53,062	62,173	60,295	59,703
12/31/2016	37,278,726	706	52,803	61,237	58,272	57,533
6/30/2017	34,938,835	626	55,813	60,315	56,317	55,442
12/31/2017	35,604,112	559	63,693	59,406	54,428	53,428
6/30/2018	34,005,794	600	56,676	58,511	52,602	51,486
Goodness of Fit Statistic, R-Squared:				0.177	0.528	0.574
Average Annual Severity Trend (10 yr)				- 3.0%		
Average Annual Severity Trend ( 8 yr)				- 6.6%		
Average Annual Severity Trend ( 6 yr)				- 7.1%		
Selected Annual Severity Trend				+ 1.5%		

\* 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).

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>
6/30/2005	\$ 764,877,480	27,679	36.19
6/30/2006	794,302,516	27,943	35.18
6/30/2007	826,955,099	28,998	35.07
6/30/2008	831,079,841	28,773	34.62
6/30/2009	853,537,420	29,597	34.68
6/30/2010	789,287,818	28,950	36.68
6/30/2011	806,368,763	29,386	36.44
6/30/2012	819,604,878	28,314	34.55
6/30/2013	818,429,440	27,299	33.36
6/30/2014	874,098,179	28,271	32.34
6/30/2015	901,592,541	27,480	30.48
6/30/2016	911,716,111	27,883	30.58
6/30/2017	929,175,670	28,655	30.84
6/30/2018	941,062,088	27,714	29.45

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  
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>
6/30/2005	\$ 857,357,819	34,367	40.08
6/30/2006	877,137,511	32,548	37.11
6/30/2007	912,198,154	33,018	36.20
6/30/2008	957,124,738	32,547	34.01
6/30/2009	1,080,779,872	34,003	31.46
6/30/2010	1,135,352,372	33,790	29.76
6/30/2011	1,162,414,245	33,921	29.18
6/30/2012	1,150,509,741	29,503	25.64
6/30/2013	1,128,413,413	29,240	25.91
6/30/2014	1,184,069,799	32,670	27.59
6/30/2015	1,274,310,620	31,267	24.54
6/30/2016	1,302,379,088	30,477	23.40
6/30/2017	1,333,848,986	31,789	23.83
6/30/2018	1,347,393,827	33,520	24.88

Selected Annual Frequency Trend: - 1.0%

<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 (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

<u>CLASS GROUP 14</u>							
10020	(a)	40140	(a)	46881	(a)	97502	(a)
10119	(a)	41210	(a)	46882	(a)	97503	(a)
10135	(a)	41666	(a)	46913	(a)	97504	(a)
10375	(a)	41672	(a)	46914	(a)		
11101	(a)	41673	(a)	46915	(a)		
11120	(a)	41700	(a)	46916	(a)		
11160	(a)	43007	(a)	47051	(a)		
13208	(a)	43117	(a)	47052	(a)	<u>CLASS GROUP 16</u>	
13461	(a)	43215	(a)	47103	(a)	44100	0.96
15119	(a)	43424	(a)	47146	(a)	44101	1.00
15120	(a)	43517	(a)	47147	(a)	44102	0.78
15300	(a)	43754	(a)	47253	(a)	44103	0.69
16722	(a)	43945	(a)	47254	(a)	44104	0.29
16723	(a)	43946	(a)	47468	(a)	44108	0.34
18200	(a)	43990	(a)	47600	(a)	44109	0.86
18991	(a)	43991	(a)	47610	(a)	44110	0.88
19061	(a)	44105	(a)	48177	(a)	44111	0.54
40005	(a)	44106	(a)	48178	(a)	44112	0.32
40006	(a)	44113	(a)	48252	(a)		
40010	(a)	44193	(a)	48610	(a)		
40015	(a)	44194	(a)	48727	(a)		
40020	(a)	44222	(a)	48924	(a)		
40026	(a)	44500	(a)	49305	(a)		
40031	(a)	44501	(a)	49451	(a)		
40032	(a)	45224	(a)	49452	(a)		
40040	(a)	45225	(a)	49800	(a)		
40041	(a)	45523	(a)	49890	(a)		
40042	(a)	45524	(a)	49891	(a)		
40066	(a)	45539	(a)	49902	(a)		
40067	(a)	45993	(a)	49903	(a)		
40069	(a)	46510	(a)	63219	(a)		
40072	(a)	46590	(a)	63220	(a)		
40115	(a)	46671	(a)	64500	(a)		
40117	(a)	46773	(a)	97501	(a)		
		46822	(a)				

\*



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	1.34	51752	4.54
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

CLASS GROUP 38

10072	4.39
10367	3.88
10368	5.67
11007	1.65
11201	14.44
11202	4.27
11206	0.67
11207	8.46
11208	1.45
11209	6.81
11210	2.90
11211	15.07
11212	2.28
11213	1.86
11214	4.58
11222	0.077
14405	0.97
15070	0.13
15607	0.17
15699	0.42
16471	0.24
41620	1.21
41677	0.25
41696	0.79
41697	0.55
43470	4.60
43822	3.66
43840	0.045
43860	2.88
43889	1.03
44280	0.25
45678	0.27

46622	10.69	
47050	1.00	*
47367	0.25	
49005	0.17	
49840	1.03	
51516	0.075	
51517	0.085	
51985	0.070	
52660	0.089	
53734	0.45	
54012	0.045	
57997	0.10	
58408	0.059	
58409	0.075	
58456	0.040	
58457	0.058	
58458	0.075	
58459	0.09	

CLASS GROUP 39

11205	(a)
13206	(a)
13207	(a)
13411	(a)
15060	(a)
15061	(a)
18575	(a)
41675	(a)
41679	(a)
44010	(a)
51211	(a)
52876	(a)
53901	(a)
53902	(a)
53903	(a)
53904	(a)

53905	(a)
53951	(a)
53952	(a)
53953	(a)
54444	(a)
55014	(a)
55410	(a)
58561	(a)
59695	(a)
91210	(a)
91280	(a)
91325	(a)
91581	(a)
91582	(a)
91583	(a)
91584	(a)
91585	(a)
91586	(a)
91587	(a)
91588	(a)
91589	(a)
91591	(a)
91618	(a)
94444	(a)
94638	(a)
95358	(a)
95630	(a)
95648	(a)
96703	(a)
96930	(a)
97002	(a)
97003	(a)
97221	(a)
98150	(a)
98151	(a)
98156	(a)

98158	(a)
98162	(a)
98428	(a)
98430	(a)
98622	(a)
98623	(a)
98698	(a)
98871	(a)
99081	(a)
99082	(a)
99083	(a)
99084	(a)
99085	(a)
99160	(a)
99221	(a)
99445	(a)
99798	(a)
99803	(a)
99986	(a)
99987	(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	12/31/2015	\$34,392,377	1.000		1.070				\$36,799,843
	12/31/2016	37,129,305	1.000		1.070				39,728,356
	12/31/2017	38,981,644	1.009		1.060				41,692,428
MULTILINE	12/31/2015	\$98,127,681	1.000		1.072		0.856		\$90,045,100
	12/31/2016	99,473,741	1.000		1.073		0.856		91,365,437
	12/31/2017	102,006,024	1.009		1.063		0.856		93,653,501
TOTAL	12/31/2015								\$126,844,943
	12/31/2016								131,093,793
	12/31/2017								135,345,929

+ 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 07/01/2019 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	12/31/2015	\$13,974,028		1.062		1.085		1.131		0.927		\$16,881,779
		12/31/2016	9,510,573		1.379		1.085		1.104		0.941		14,782,891
		12/31/2017	6,945,317		1.953		1.085		1.077		0.956		15,152,966
BI	ALAE	12/31/2015	\$18,221,984				1.085		1.131		0.927		\$20,728,493
		12/31/2016	16,412,035				1.085		1.104		0.941		18,499,111
		12/31/2017	16,276,353				1.085		1.077		0.956		18,182,786
PD	B/L INDEMNITY	12/31/2015	\$17,392,087		1.180		1.085		1.370		0.927		\$28,278,980
		12/31/2016	19,333,670		1.256		1.085		1.286		0.941		31,883,374
		12/31/2017	15,490,547		1.411		1.085		1.208		0.956		27,387,244
PD	ALAE	12/31/2015	\$25,228,377				1.085		1.370		0.927		\$34,763,168
		12/31/2016	36,601,364				1.085		1.286		0.941		48,057,104
		12/31/2017	29,980,277				1.085		1.208		0.956		37,565,589
	TOTAL												
	FULL COVERAGE	12/31/2015											\$100,652,421
		12/31/2016											113,222,481
		12/31/2017											98,288,586

\* 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	12/31/2015	\$1,912,576		1.138		1.085		1.131		0.927		\$2,475,900
		12/31/2016	1,414,704		1.341		1.085		1.104		0.941		2,138,370
		12/31/2017	895,671		2.042		1.085		1.077		0.956		2,043,184
BI	ALAE	12/31/2015	\$4,224,638				1.085		1.131		0.927		\$4,805,754
		12/31/2016	2,551,523				1.085		1.104		0.941		2,875,994
		12/31/2017	1,738,872				1.085		1.077		0.956		1,942,544
PD	B/L INDEMNITY	12/31/2015	\$2,845,634		1.092		1.085		1.370		0.927		\$4,281,853
		12/31/2016	2,664,397		1.130		1.085		1.286		0.941		3,953,099
		12/31/2017	2,510,871		1.252		1.085		1.208		0.956		3,938,976
PD	ALAE	12/31/2015	\$3,775,662				1.085		1.370		0.927		\$5,202,632
		12/31/2016	4,466,984				1.085		1.286		0.941		5,865,091
		12/31/2017	5,424,083				1.085		1.208		0.956		6,796,431
	TOTAL DED COVERAGE	12/31/2015											\$16,766,139
		12/31/2016											14,832,553
		12/31/2017											14,721,135
	TOTAL	12/31/2015											\$117,418,560
		12/31/2016											128,055,034
		12/31/2017											113,009,721

\* 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	0.838
35	Not Applicable	--
36	Service Policy	0.910
37	Industrial/Processing Policy	0.865
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
12/31/2010	218,723,911	221,327,320	221,473,524	221,500,882	221,500,297	221,488,379	221,484,442	221,484,442
12/31/2011	224,605,706	228,076,356	228,048,781	228,036,064	228,035,742	228,034,112	228,034,144	
12/31/2012	234,825,587	238,107,406	238,084,610	238,082,845	238,074,727	238,074,951		
12/31/2013	245,138,741	247,658,354	247,618,706	247,557,611	247,555,280			
12/31/2014	252,544,413	258,488,954	258,197,054	258,159,529				
12/31/2015	255,676,390	256,308,227	256,142,399					
12/31/2016	245,412,726	245,841,069						
12/31/2017	240,492,676							

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>
12/31/2010	1.012	1.001	1.000	1.000	1.000	1.000	1.000
12/31/2011	1.015	1.000	1.000	1.000	1.000	1.000	
12/31/2012	1.014	1.000	1.000	1.000	1.000		
12/31/2013	1.010	1.000	1.000	1.000			
12/31/2014	1.024	0.999	1.000				
12/31/2015	1.002	0.999					
12/31/2016	1.002						
12/31/2017							

Average Best 3 of 5

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

Accident Year Ending	Exposure Development From <u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>	<u>Factor</u>
12/31/2015			1.000	1.000
12/31/2016		1.000	1.000	1.000
12/31/2017	1.009	1.000	1.000	1.009

## 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
12/31/1998	6,530,690	11,603,182	16,049,468	17,146,094	16,429,781	16,122,433	16,484,451	17,646,807	17,607,702	17,793,493	17,799,750
12/31/1999	7,930,472	12,964,913	16,811,019	19,518,774	19,626,294	19,607,802	19,483,656	19,078,358	19,601,340	19,835,670	19,676,018
12/31/2000	7,739,008	11,035,961	14,684,047	16,675,759	16,349,198	16,195,748	16,870,218	16,237,768	16,090,223	16,168,724	16,071,735
12/31/2001	8,385,674	12,714,598	16,451,642	17,154,592	17,969,728	17,603,875	17,899,928	18,261,529	17,931,259	17,782,947	18,103,129
12/31/2002	7,215,982	11,084,413	14,951,138	16,845,292	16,240,685	15,346,649	15,104,371	14,867,839	14,862,980	14,891,051	15,181,150
12/31/2003	7,482,895	12,425,658	15,288,481	15,888,663	15,189,250	14,512,493	14,205,225	14,667,754	14,961,586	15,150,697	15,121,177
12/31/2004	7,381,889	11,375,787	14,933,668	16,554,788	15,990,062	14,906,215	14,914,425	14,793,873	15,155,685	15,267,865	15,269,443
12/31/2005	9,007,568	10,728,276	13,940,610	13,649,545	13,955,965	14,023,715	13,851,577	14,078,420	13,847,840	13,772,914	13,726,191
12/31/2006	8,162,843	12,992,145	17,209,660	17,422,908	16,772,053	16,962,150	16,913,752	17,123,060	17,377,324	17,322,157	16,963,927
12/31/2007	9,903,713	15,371,884	18,851,134	19,744,610	19,620,987	19,783,935	19,294,130	19,295,681	19,077,607	18,971,905	19,099,387
12/31/2008	9,909,195	14,507,783	17,408,318	18,128,700	19,847,521	18,549,815	18,402,940	18,221,769	18,253,276	18,297,464	
12/31/2009	11,438,761	14,382,324	16,995,337	16,989,458	16,735,577	16,818,339	16,672,578	16,754,401	16,699,669		
12/31/2010	11,481,065	15,877,105	17,380,172	17,932,943	18,078,478	16,693,397	16,444,644	16,438,031			
12/31/2011	9,548,888	12,736,161	15,954,253	16,172,012	15,515,802	15,304,468	15,187,641				
12/31/2012	9,514,886	14,147,385	18,118,536	18,266,894	18,365,441	17,886,638					
12/31/2013	7,145,446	10,845,388	14,863,268	15,726,619	16,021,436						
12/31/2014	7,830,665	10,809,771	14,351,287	16,123,397							
12/31/2015	7,606,405	10,288,850	13,215,434								
12/31/2016	6,644,445	9,195,106									
12/31/2017	6,771,753										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	17,525,367	17,518,045	17,678,529	17,807,595	17,832,852	18,097,234	18,125,837	18,236,947	18,233,049
12/31/1999	19,608,084	19,504,687	19,603,460	19,839,085	20,570,491	20,771,819	20,825,367	19,902,791	
12/31/2000	16,082,762	16,234,722	16,284,909	16,482,412	16,725,544	16,775,527	17,225,973		
12/31/2001	18,421,201	18,524,327	18,752,339	19,079,793	19,018,816	19,256,065			
12/31/2002	15,647,811	15,331,248	15,446,023	15,122,695	15,374,770				
12/31/2003	15,138,015	15,312,396	15,232,952	15,300,542					
12/31/2004	15,137,538	15,027,529	15,204,688						
12/31/2005	13,618,284	13,636,444							
12/31/2006	17,256,958								

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
12/31/1998	1.777	1.383	1.068	0.958	0.981	1.022	1.071	0.998	1.011	1.000	0.985
12/31/1999	1.635	1.297	1.161	1.006	0.999	0.994	0.979	1.027	1.012	0.992	0.997
12/31/2000	1.426	1.331	1.136	0.980	0.991	1.042	0.963	0.991	1.005	0.994	1.001
12/31/2001	1.516	1.294	1.043	1.048	0.980	1.017	1.020	0.982	0.992	1.018	1.018
12/31/2002	1.536	1.349	1.127	0.964	0.945	0.984	0.984	1.000	1.002	1.019	1.031
12/31/2003	1.661	1.230	1.039	0.956	0.955	0.979	1.033	1.020	1.013	0.998	1.001
12/31/2004	1.541	1.313	1.109	0.966	0.932	1.001	0.992	1.024	1.007	1.000	0.991
12/31/2005	1.191	1.299	0.979	1.022	1.005	0.988	1.016	0.984	0.995	0.997	0.992
12/31/2006	1.592	1.325	1.012	0.963	1.011	0.997	1.012	1.015	0.997	0.979	1.017
12/31/2007	1.552	1.226	1.047	0.994	1.008	0.975	1.000	0.989	0.994	1.007	
12/31/2008	1.464	1.200	1.041	1.095	0.935	0.992	0.990	1.002			
12/31/2009	1.257	1.182	1.000	0.985	1.005	0.991	1.005	0.997			
12/31/2010	1.383	1.095	1.032	1.008	0.923	0.985	1.000				
12/31/2011	1.334	1.253	1.014	0.959	0.986	0.992					
12/31/2012	1.487	1.281	1.008	1.005	0.974						
12/31/2013	1.518	1.370	1.058	1.019							
12/31/2014	1.380	1.328	1.123								
12/31/2015	1.353	1.284									
12/31/2016	1.384										
3 Yr Mean	1.372	1.327	1.063	0.994	0.961	0.989	0.998	0.996	0.998	0.994	1.000
Best 3/5	1.417	1.298	1.035	0.999	0.965	0.989	1.002	0.996	0.998	0.998	1.003

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.000	1.009	1.007	1.001	1.015	1.002	1.006	1.000			
12/31/1999	0.995	1.005	1.012	1.037	1.010	1.003	0.956	1.005 *			
12/31/2000	1.009	1.003	1.012	1.015	1.003	1.027	1.006 *	1.005 *			
12/31/2001	1.006	1.012	1.017	0.997	1.012	1.011 *	1.006 *	1.005 *			
12/31/2002	0.980	1.007	0.979	1.017	1.011 *	1.011 *	1.006 *	1.005 *			
12/31/2003	1.012	0.995	1.004								
12/31/2004	0.993	1.012									
12/31/2005	1.001										
3 Yr Mean	1.002	1.005	1.000	1.010	1.008 @	1.011 @	0.981 @	1.000 @			
Best 3/5	1.000	1.007	1.009	1.011	1.011 *	1.008 *	1.006 *	1.005 *			

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
12/31/2013					0.965	0.989	1.002	0.996	0.998	0.998	1.003
12/31/2014					0.999	0.965	0.989	1.002	0.996	0.998	1.003
12/31/2015			1.035	0.999	0.965	0.989	1.002	0.996	0.998	0.998	1.003
12/31/2016		1.298	1.035	0.999	0.965	0.989	1.002	0.996	0.998	0.998	1.003
12/31/2017	1.417	1.298	1.035	0.999	0.965	0.989	1.002	0.996	0.998	0.998	1.003

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.000	1.007	1.009	1.011	1.011	1.008	1.006	1.005	1.020*	1.027
12/31/2014	1.000	1.007	1.009	1.011	1.011	1.008	1.006	1.005	1.020*	1.026
12/31/2015	1.000	1.007	1.009	1.011	1.011	1.008	1.006	1.005	1.020*	1.062
12/31/2016	1.000	1.007	1.009	1.011	1.011	1.008	1.006	1.005	1.020*	1.379
12/31/2017	1.000	1.007	1.009	1.011	1.011	1.008	1.006	1.005	1.020*	1.953

\* 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
12/31/1998	533,067	990,732	1,375,623	1,430,484	1,488,729	1,417,757	1,358,506	1,357,798	1,416,476	1,337,074	1,337,075
12/31/1999	499,691	684,095	962,281	1,209,567	1,327,393	1,200,508	1,519,661	1,355,355	1,344,023	1,270,122	1,393,595
12/31/2000	882,834	1,088,878	1,449,590	1,745,580	1,685,761	1,672,963	1,829,517	1,893,554	1,970,921	1,857,385	1,986,380
12/31/2001	506,813	1,031,350	1,420,172	1,822,482	1,597,318	1,792,618	2,107,687	2,072,547	2,111,120	2,028,185	2,049,083
12/31/2002	563,001	1,110,666	1,584,240	1,512,328	1,822,546	1,820,279	1,893,928	1,718,005	1,666,078	1,669,973	1,667,628
12/31/2003	638,864	916,783	958,041	1,779,977	1,519,336	1,481,000	1,535,514	1,527,017	1,529,492	1,535,140	1,537,251
12/31/2004	1,261,188	1,563,906	2,417,227	2,777,323	2,776,409	2,650,423	2,512,394	2,582,831	2,581,636	2,583,100	2,597,391
12/31/2005	893,932	1,205,397	1,975,626	2,039,457	1,462,671	1,461,365	1,499,228	1,432,397	1,329,908	1,325,483	1,329,974
12/31/2006	1,362,302	2,062,061	2,406,395	2,223,933	1,963,162	1,895,588	1,928,997	1,976,444	1,876,527	1,881,029	1,908,587
12/31/2007	1,781,882	2,342,635	2,225,250	2,535,444	2,599,309	2,134,228	2,140,655	2,247,232	2,251,643	2,276,632	2,279,407
12/31/2008	1,138,142	1,545,957	1,964,461	2,056,873	2,123,092	2,173,719	2,289,233	2,261,703	2,186,705	2,174,354	
12/31/2009	918,066	1,175,956	1,369,211	1,533,576	1,766,190	1,912,731	1,857,492	1,852,494	1,854,719		
12/31/2010	1,171,857	1,971,906	2,121,592	2,177,484	2,308,851	2,506,088	2,458,750	2,257,532			
12/31/2011	1,250,885	1,766,129	2,171,567	1,883,862	1,859,271	1,864,053	1,962,021				
12/31/2012	1,038,711	1,366,000	1,891,731	1,731,533	1,598,782	1,795,716					
12/31/2013	853,052	1,249,105	1,387,865	1,658,327	1,745,340						
12/31/2014	899,810	1,727,643	2,060,618	2,388,533							
12/31/2015	917,280	1,410,526	1,501,324								
12/31/2016	900,423	1,410,233									
12/31/2017	690,452										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	1,348,006	1,337,277	1,394,005	1,395,231	1,395,198	1,395,198	1,395,198	1,398,198	1,400,198
12/31/1999	1,427,496	1,677,295	1,616,737	1,533,829	1,542,618	1,529,540	1,529,540	1,475,033	
12/31/2000	2,038,503	2,018,732	2,135,162	2,170,921	2,161,469	2,249,850	2,252,849		
12/31/2001	2,071,357	2,033,107	2,042,961	2,040,199	2,036,200	2,042,799			
12/31/2002	1,667,628	1,668,258	1,693,607	1,696,308	1,696,307				
12/31/2003	1,537,267	1,537,369	1,540,071	1,540,067					
12/31/2004	2,593,315	2,596,017	2,596,015						
12/31/2005	1,332,682	1,332,773							
12/31/2006	1,883,384								

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
12/31/1998	1.859	1.388	1.040	1.041	0.952	0.958	0.999	1.043	0.944	1.000	1.008
12/31/1999	1.369	1.407	1.257	1.097	0.904	1.266	0.892	0.992	0.945	1.097	1.024
12/31/2000	1.233	1.331	1.204	0.966	0.992	1.094	1.035	1.041	0.942	1.069	1.026
12/31/2001	2.035	1.377	1.283	0.876	1.122	1.176	0.983	1.019	0.961	1.010	1.011
12/31/2002	1.973	1.426	0.955	1.205	0.999	1.040	0.907	0.970	1.002	0.999	1.000
12/31/2003	1.435	1.045	1.858	0.854	0.975	1.037	0.994	1.002	1.004	1.001	1.000
12/31/2004	1.240	1.546	1.149	1.000	0.955	0.948	1.028	1.000	1.001	1.006	0.998
12/31/2005	1.348	1.639	1.032	0.717	0.999	1.026	0.955	0.928	0.997	1.003	1.002
12/31/2006	1.514	1.167	0.924	0.883	0.966	1.018	1.025	0.949	1.002	1.015	0.987
12/31/2007	1.315	0.950	1.139	1.025	0.821	1.003	1.050	1.002	1.011	1.001	
12/31/2008	1.358	1.271	1.047	1.032	1.024	1.053	0.988	0.967	0.994		
12/31/2009	1.281	1.164	1.120	1.152	1.083	0.971	0.997	1.001			
12/31/2010	1.683	1.076	1.026	1.060	1.085	0.981	0.918				
12/31/2011	1.412	1.230	0.868	0.987	1.003	1.053					
12/31/2012	1.315	1.385	0.915	0.923	1.123						
12/31/2013	1.464	1.111	1.195	1.052							
12/31/2014	1.920	1.193	1.159								
12/31/2015	1.538	1.064									
12/31/2016	1.566										

3 Yr Mean      1.675      1.123      1.090      0.987      1.070      1.002      0.968      0.990      1.002      1.006      0.996

Best 3/5      1.523      1.178      1.033      1.033      1.064      1.012      1.003      0.972      1.000      1.003      0.999

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	0.992	1.042	1.001	1.000	1.000	1.000	1.002	1.001			
12/31/1999	1.175	0.964	0.949	1.006	0.992	1.000	0.964	1.001 *			
12/31/2000	0.990	1.058	1.017	0.996	1.041	1.001	1.001 *	1.001 *			
12/31/2001	0.982	1.005	0.999	0.998	1.003	1.001 *	1.001 *	1.001 *			
12/31/2002	1.000	1.015	1.002	1.000	0.999 *	1.001 *	1.001 *	1.001 *			
12/31/2003	1.000	1.002	1.000								
12/31/2004	1.001	1.000									
12/31/2005	1.000										

3 Yr Mean      1.000      1.006      1.000      0.998      1.012 @      1.000 @      0.983 @      1.001 @

Best 3/5      1.000      1.007      1.000      0.999      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
12/31/2013					1.064	1.012	1.003	0.972	1.000	1.003	0.999
12/31/2014				1.033	1.064	1.012	1.003	0.972	1.000	1.003	0.999
12/31/2015			1.033	1.033	1.064	1.012	1.003	0.972	1.000	1.003	0.999
12/31/2016		1.178	1.033	1.033	1.064	1.012	1.003	0.972	1.000	1.003	0.999
12/31/2017	1.523	1.178	1.033	1.033	1.064	1.012	1.003	0.972	1.000	1.003	0.999

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.000	1.007	1.000	0.999	1.001	1.001	1.001	1.001	1.004*	1.067
12/31/2014	1.000	1.007	1.000	0.999	1.001	1.001	1.001	1.001	1.004*	1.102
12/31/2015	1.000	1.007	1.000	0.999	1.001	1.001	1.001	1.001	1.004*	1.138
12/31/2016	1.000	1.007	1.000	0.999	1.001	1.001	1.001	1.001	1.004*	1.341
12/31/2017	1.000	1.007	1.000	0.999	1.001	1.001	1.001	1.001	1.004*	2.042

\* 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>
12/31/1998	2,084,041	6,012,928	9,607,172	11,556,578	12,383,919	13,260,624	13,968,315	15,220,635	15,057,234	15,762,194	16,049,080
12/31/1999	1,523,341	5,357,735	7,704,410	11,136,492	13,705,527	14,968,850	15,468,209	15,413,377	16,374,596	17,769,478	18,499,035
12/31/2000	1,333,914	4,710,725	8,660,836	12,428,334	14,034,908	15,335,503	17,801,727	18,518,609	19,656,973	20,401,399	20,585,505
12/31/2001	1,905,068	5,534,985	8,902,032	11,069,041	14,377,671	16,172,073	17,966,919	19,637,801	20,000,155	19,964,588	20,302,109
12/31/2002	1,638,829	3,948,154	8,465,360	12,859,957	16,119,478	19,151,390	19,382,989	20,135,919	20,649,288	21,105,263	21,382,847
12/31/2003	1,558,508	4,685,800	9,161,005	14,810,396	18,843,552	20,316,380	20,932,698	21,906,834	21,617,361	22,570,718	23,723,715
12/31/2004	1,205,512	3,303,719	6,895,507	11,350,009	14,268,078	14,251,827	15,732,913	16,582,009	17,471,137	18,668,333	18,816,050
12/31/2005	1,503,287	3,429,783	6,064,918	8,699,179	11,041,414	13,307,752	13,356,895	13,686,512	13,901,674	14,330,797	14,628,460
12/31/2006	1,940,972	6,603,289	9,024,626	12,062,133	14,124,625	16,021,098	19,018,619	20,330,723	19,346,678	19,428,712	19,445,621
12/31/2007	2,415,456	7,070,038	11,039,719	15,342,924	18,716,430	20,508,275	21,661,833	21,890,388	22,117,712	26,444,770	26,451,995
12/31/2008	1,751,356	4,401,018	8,766,407	15,000,336	19,322,838	21,476,572	21,383,977	21,818,703	22,161,940	22,331,265	
12/31/2009	3,347,616	5,952,618	10,662,882	13,921,951	16,356,634	17,428,687	17,466,245	17,755,326	17,757,060		
12/31/2010	2,137,007	6,026,589	10,181,458	15,694,703	17,839,369	18,637,444	18,823,935	18,998,849			
12/31/2011	2,589,946	5,966,160	10,877,206	14,448,486	16,593,677	17,959,765	19,007,621				
12/31/2012	2,739,787	8,056,640	17,359,176	22,589,966	26,295,859	29,183,871					
12/31/2013	1,622,917	5,500,912	9,983,914	13,342,968	15,601,124						
12/31/2014	1,655,599	4,503,476	8,802,643	12,936,522							
12/31/2015	2,238,324	5,109,949	8,608,410								
12/31/2016	1,567,577	4,108,530									
12/31/2017	1,310,641										

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>
12/31/1998	16,022,551	16,073,962	16,312,991	16,381,897	16,757,609	16,853,437	16,863,732	16,947,755	16,985,075
12/31/1999	18,907,933	19,759,487	20,361,561	21,464,090	22,209,737	22,723,543	23,145,891	23,671,554	
12/31/2000	20,915,055	21,267,371	21,656,510	21,787,380	21,997,321	22,175,311	22,316,107		
12/31/2001	20,604,131	20,945,490	21,226,512	21,528,368	21,738,625	22,048,367			
12/31/2002	23,836,731	23,756,416	23,730,077	22,983,565	23,102,170				
12/31/2003	23,659,932	23,921,883	23,254,132	23,345,502					
12/31/2004	18,972,115	19,095,655	19,227,881						
12/31/2005	14,792,764	14,892,245							
12/31/2006	19,458,821								

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>
12/31/1998	3,928,887	3,594,244	1,949,406	827,341	876,705	707,691	1,252,320	-163,401	704,960	286,886	-26,529	51,411	239,029
12/31/1999	3,834,394	2,346,675	3,432,082	2,569,035	1,263,323	499,359	-54,832	961,219	1,394,882	729,557	408,898	851,554	602,074
12/31/2000	3,376,811	3,950,111	3,767,498	1,606,574	1,300,595	2,466,224	716,882	1,138,364	744,426	184,106	329,550	352,316	389,139
12/31/2001	3,629,917	3,367,047	2,167,009	3,308,630	1,794,402	1,794,846	1,670,882	362,354	-35,567	337,521	302,022	341,359	281,022
12/31/2002	2,309,325	4,517,206	4,394,597	3,259,521	3,031,912	231,599	752,930	513,369	455,975	277,584	2,453,884	-80,315	-26,339
12/31/2003	3,127,292	4,475,205	5,649,391	4,033,156	1,472,828	616,318	974,136	-289,473	953,357	1,152,997	-63,783	261,951	-667,751
12/31/2004	2,098,207	3,591,788	4,454,502	2,918,069	-16,251	1,481,086	849,096	889,128	1,197,196	147,717	156,065	123,540	132,226
12/31/2005	1,926,496	2,635,135	2,634,261	2,342,235	2,266,338	49,143	329,617	215,162	429,123	297,663	164,304	99,481	
12/31/2006	4,662,317	2,421,337	3,037,507	2,062,492	1,896,473	2,997,521	1,312,104	-984,045	82,034	16,909	13,200		
12/31/2007	4,654,582	3,969,681	4,303,205	3,373,506	1,791,845	1,153,558	228,555	227,324	4,327,058	7,225			
12/31/2008	2,649,662	4,365,389	6,233,929	4,322,502	2,153,734	-92,595	434,726	343,237	169,325				
12/31/2009	2,605,002	4,710,264	3,259,069	2,434,683	1,072,053	37,558	289,081	1,734					
12/31/2010	3,889,582	4,154,869	5,513,245	2,144,666	798,075	186,491	174,914						
12/31/2011	3,376,214	4,911,046	3,571,280	2,145,191	1,366,088	1,047,856							
12/31/2012	5,316,853	9,302,536	5,230,790	3,705,893	2,888,012								
12/31/2013	3,877,995	4,483,002	3,359,054	2,258,156									
12/31/2014	2,847,877	4,299,167	4,133,879										
12/31/2015	2,871,625	3,498,461											
12/31/2016	2,540,953												

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>
12/31/1998	0.1220	0.1116	0.0605	0.0257	0.0272	0.0220	0.0389	-0.0051	0.0219	0.0089	-0.0008	0.0016	0.0074
12/31/1999	0.1037	0.0635	0.0928	0.0695	0.0342	0.0135	-0.0015	0.0260	0.0377	0.0197	0.0111	0.0230	0.0163
12/31/2000	0.1040	0.1216	0.1160	0.0495	0.0400	0.0759	0.0221	0.0350	0.0229	0.0057	0.0101	0.0108	0.0120
12/31/2001	0.1025	0.0951	0.0612	0.0935	0.0507	0.0507	0.0472	0.0102	-0.0010	0.0095	0.0085	0.0096	0.0079
12/31/2002	0.0757	0.1481	0.1441	0.1069	0.0994	0.0076	0.0247	0.0168	0.0150	0.0091	0.0805	-0.0026	-0.0009
12/31/2003	0.0930	0.1332	0.1681	0.1200	0.0438	0.0183	0.0290	-0.0086	0.0284	0.0343	-0.0019	0.0078	-0.0199
12/31/2004	0.0717	0.1227	0.1521	0.0997	-0.0006	0.0506	0.0290	0.0304	0.0409	0.0050	0.0053	0.0042	0.0045
12/31/2005	0.0606	0.0829	0.0829	0.0737	0.0713	0.0015	0.0104	0.0068	0.0135	0.0094	0.0052	0.0031	
12/31/2006	0.1257	0.0653	0.0819	0.0556	0.0511	0.0808	0.0354	-0.0265	0.0022	0.0005	0.0004		
12/31/2007	0.1115	0.0951	0.1030	0.0808	0.0429	0.0276	0.0055	0.0054	0.1036	0.0002			
12/31/2008	0.0702	0.1157	0.1653	0.1146	0.0571	-0.0025	0.0115	0.0091	0.0045				
12/31/2009	0.0683	0.1235	0.0854	0.0638	0.0281	0.0010	0.0076	0.0000					
12/31/2010	0.1076	0.1150	0.1525	0.0593	0.0221	0.0052	0.0048						
12/31/2011	0.1086	0.1580	0.1149	0.0690	0.0440	0.0337							
12/31/2012	0.1379	0.2413	0.1357	0.0961	0.0749								
12/31/2013	0.1211	0.1400	0.1049	0.0705									
12/31/2014	0.0811	0.1224	0.1177										
12/31/2015	0.1065	0.1298											
12/31/2016	0.1010												

Best 3/5	0.1096	0.1426	0.1228	0.0678	0.0431	0.0113	0.0082	0.0041	0.0196	0.0050	0.0036	0.0050	0.0039
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PRODUCTS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E.	183:171	195:183	207:195	Link Ratios 219:207	231:219	243:231	Ult:243
12/31/1998	1.004	1.023	1.006	1.001	1.005	1.002	1.004 *
12/31/1999	1.054	1.035	1.023	1.019	1.023	1.005 *	1.004 *
12/31/2000	1.006	1.010	1.008	1.006	1.007 *	1.005 *	1.004 *
12/31/2001	1.014	1.010	1.014	1.010 *	1.007 *	1.005 *	1.004 *
12/31/2002	0.969	1.005	1.014 *	1.010 *	1.007 *	1.005 *	1.004 *
12/31/2003	1.004						
Best 3/5	1.008	1.014	1.012 *	1.009 *	1.007 *	1.005 *	1.004 *

171 to Ultimate Factor: 1.060

<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>
	0.546	0.437	0.294	0.171	0.104	0.061	0.049
<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>
	0.041	0.037	0.017	0.013	0.009	0.004	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	8,872,360	28,294,066	0.294	8,318,459	17,190,819	1.060	18,221,984
12/31/2016	4,413,867	25,330,468	0.437	11,069,414	15,483,281	1.060	16,412,035
12/31/2017	1,407,537	25,545,301	0.546	13,947,729	15,355,266	1.060	16,276,353

\* 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
12/31/1998	9,508,186	13,631,815	14,865,388	15,143,601	16,201,864	17,092,484	18,618,064	17,392,005	17,591,070	18,476,245	18,749,879
12/31/1999	9,375,407	12,270,884	14,197,145	15,983,441	15,404,497	16,585,559	16,452,448	17,612,163	18,385,274	18,690,966	18,733,398
12/31/2000	9,758,833	13,357,935	15,231,972	16,251,804	17,972,798	18,891,240	19,919,583	20,702,404	20,940,099	21,244,044	21,257,230
12/31/2001	11,751,945	14,990,584	19,119,813	20,158,573	19,960,075	20,761,512	21,985,181	21,891,672	22,327,277	22,565,040	22,930,739
12/31/2002	9,564,927	14,968,159	18,025,646	17,352,073	17,465,111	18,649,654	19,066,146	19,351,801	19,612,727	19,868,845	20,413,394
12/31/2003	11,416,124	13,439,314	15,672,385	17,013,844	18,535,627	19,861,345	20,268,561	20,782,686	21,357,005	21,717,248	21,838,225
12/31/2004	10,337,205	12,530,186	13,827,556	14,266,901	15,625,213	15,692,472	16,057,312	16,443,475	16,611,989	17,007,666	17,148,432
12/31/2005	12,024,445	14,351,295	14,633,771	15,206,411	15,408,547	15,878,255	15,851,792	16,864,335	16,927,881	17,568,908	17,881,227
12/31/2006	13,597,234	15,236,480	16,448,274	16,798,303	17,812,436	18,265,209	19,010,260	20,941,587	21,618,724	21,452,368	21,612,396
12/31/2007	18,580,856	20,898,919	21,969,138	22,007,997	23,416,047	24,239,735	25,626,608	26,370,083	26,600,257	27,355,657	27,932,172
12/31/2008	17,555,296	21,040,641	22,624,689	23,820,063	24,556,882	25,668,909	26,421,970	26,940,711	27,418,237	27,941,170	
12/31/2009	20,608,609	23,259,989	24,830,134	24,839,807	25,134,714	25,751,513	25,414,886	26,068,693	26,471,293		
12/31/2010	19,068,215	21,804,612	23,244,744	23,749,876	23,848,356	24,488,268	24,478,225	24,913,309			
12/31/2011	16,107,610	17,765,224	18,453,228	19,940,803	20,255,104	20,751,887	21,369,276				
12/31/2012	16,970,196	18,010,691	19,911,449	22,315,673	22,704,567	22,981,789					
12/31/2013	15,841,004	18,414,872	19,842,282	20,003,620	20,874,728						
12/31/2014	15,366,030	17,563,966	18,897,794	19,064,709							
12/31/2015	15,718,217	16,728,682	17,093,628								
12/31/2016	15,519,852	18,359,839									
12/31/2017	14,452,527										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	19,013,703	19,263,267	19,260,285	19,225,020	19,148,217	19,170,096	19,169,995	19,144,996	19,241,194
12/31/1999	18,586,286	18,476,696	18,570,100	18,540,628	18,568,843	18,695,335	18,699,213	18,687,044	
12/31/2000	21,027,236	21,172,897	21,021,778	21,008,135	21,009,526	21,008,154	21,010,355		
12/31/2001	22,932,285	22,756,792	22,665,821	22,720,195	22,674,046	22,680,873			
12/31/2002	20,504,155	20,608,692	20,645,414	20,769,493	20,768,534				
12/31/2003	22,356,819	22,155,897	22,115,984	22,146,226					
12/31/2004	17,352,697	17,289,760	17,467,175						
12/31/2005	17,744,750	17,656,248							
12/31/2006	21,286,530								

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

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>
12/31/1998	1.434	1.090	1.019	1.070	1.055	1.089	0.934	1.011	1.050	1.015	1.014
12/31/1999	1.309	1.157	1.126	0.964	1.077	0.992	1.070	1.044	1.017	1.002	0.992
12/31/2000	1.369	1.140	1.067	1.106	1.051	1.054	1.039	1.011	1.015	1.001	0.989
12/31/2001	1.276	1.275	1.054	0.990	1.040	1.059	0.996	1.020	1.011	1.016	1.000
12/31/2002	1.565	1.204	0.963	1.007	1.068	1.022	1.015	1.013	1.013	1.027	1.004
12/31/2003	1.177	1.166	1.086	1.089	1.072	1.021	1.025	1.028	1.017	1.006	1.024
12/31/2004	1.212	1.104	1.032	1.095	1.004	1.023	1.024	1.010	1.024	1.008	1.012
12/31/2005	1.194	1.020	1.039	1.013	1.030	0.998	1.064	1.004	1.038	1.018	0.992
12/31/2006	1.121	1.080	1.021	1.060	1.025	1.041	1.102	1.032	0.992	1.007	0.985
12/31/2007	1.125	1.051	1.002	1.064	1.035	1.057	1.029	1.009	1.028	1.021	
12/31/2008	1.199	1.075	1.053	1.031	1.045	1.029	1.020	1.018	1.019		
12/31/2009	1.129	1.068	1.000	1.012	1.025	0.987	1.026	1.015			
12/31/2010	1.144	1.066	1.022	1.004	1.027	1.000	1.018				
12/31/2011	1.103	1.039	1.081	1.016	1.025	1.030					
12/31/2012	1.061	1.106	1.121	1.017	1.012						
12/31/2013	1.162	1.078	1.008	1.044							
12/31/2014	1.143	1.076	1.009								
12/31/2015	1.064	1.022									
12/31/2016	1.183										

3 Yr Mean	1.130	1.059	1.046	1.026	1.021	1.006	1.021	1.014	1.013	1.015	0.996
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Best 3/5	1.123	1.064	1.037	1.015	1.026	1.020	1.025	1.014	1.024	1.011	1.003
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A.Y.E.	<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>			
12/31/1998	1.013	1.000	0.998	0.996	1.001	1.000	0.999	1.005			
12/31/1999	0.994	1.005	0.998	1.002	1.007	1.000	0.999	1.000 *			
12/31/2000	1.007	0.993	0.999	1.000	1.000	1.000	1.000 *	1.000 *			
12/31/2001	0.992	0.996	1.002	0.998	1.000	1.000 *	1.000 *	1.000 *			
12/31/2002	1.005	1.002	1.006	1.000	0.999 *	1.000 *	1.000 *	1.000 *			
12/31/2003	0.991	0.998	1.001								
12/31/2004	0.996	1.010									
12/31/2005	0.995										

3 Yr Mean	0.994	1.003	1.003	0.999	1.002 @	1.000 @	0.999 @	1.005 @			
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Best 3/5	0.994	0.999	1.001	0.999	1.000 *	1.000 *	1.000 *	1.000 *			
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Development From											
A.Y.E.	<u>15/ 27</u>	<u>27/ 39</u>	<u>39/ 51</u>	<u>51/ 63</u>	<u>63/ 75</u>	<u>75/ 87</u>	<u>87/ 99</u>	<u>99/111</u>	<u>111/123</u>	<u>123/135</u>	<u>135/147</u>
12/31/2013					1.026	1.020	1.025	1.014	1.024	1.011	1.003
12/31/2014				1.015	1.026	1.020	1.025	1.014	1.024	1.011	1.003
12/31/2015			1.037	1.015	1.026	1.020	1.025	1.014	1.024	1.011	1.003
12/31/2016		1.064	1.037	1.015	1.026	1.020	1.025	1.014	1.024	1.011	1.003
12/31/2017	1.123	1.064	1.037	1.015	1.026	1.020	1.025	1.014	1.024	1.011	1.003

A.Y.E.	<u>147/159</u>	<u>159/171</u>	<u>171/183</u>	<u>183/195</u>	<u>195/207</u>	<u>207/219</u>	<u>219/231</u>	<u>231/243</u>	<u>243/U1t</u>	FACTORS
12/31/2013	0.994	0.999	1.001	0.999	1.000	1.000	1.000	1.000	1.000*	1.122
12/31/2014	0.994	0.999	1.001	0.999	1.000	1.000	1.000	1.000	1.000*	1.138
12/31/2015	0.994	0.999	1.001	0.999	1.000	1.000	1.000	1.000	1.000*	1.180
12/31/2016	0.994	0.999	1.001	0.999	1.000	1.000	1.000	1.000	1.000*	1.256
12/31/2017	0.994	0.999	1.001	0.999	1.000	1.000	1.000	1.000	1.000*	1.411

\* 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
12/31/1998	1,035,375	1,693,891	1,888,505	1,907,518	2,135,914	3,078,424	2,757,453	2,751,402	3,080,149	3,265,137	3,320,703
12/31/1999	881,765	981,540	1,247,460	1,811,107	1,832,734	1,997,749	2,131,436	2,287,156	2,610,443	2,820,793	2,906,684
12/31/2000	921,129	1,445,187	1,891,161	1,803,234	1,911,565	2,086,180	2,474,003	2,667,906	2,811,852	3,026,858	3,096,825
12/31/2001	1,722,974	1,924,777	2,520,602	2,806,538	2,729,897	3,040,445	3,488,229	4,060,847	4,303,076	4,421,154	4,569,788
12/31/2002	821,127	1,532,634	1,888,541	2,303,004	2,893,778	3,018,020	3,170,334	3,284,663	3,885,946	3,872,977	3,872,178
12/31/2003	1,633,801	1,760,813	1,621,790	1,612,864	1,665,621	1,808,718	2,159,886	2,201,461	2,225,359	2,380,285	2,705,163
12/31/2004	708,966	1,301,618	1,799,252	1,551,855	1,433,456	1,510,529	1,524,216	1,492,583	1,605,728	1,707,199	1,704,027
12/31/2005	1,839,840	3,006,021	2,828,232	3,172,061	3,229,774	3,103,531	3,369,469	3,491,011	3,487,635	3,435,645	3,370,962
12/31/2006	2,739,548	4,038,503	4,482,928	4,160,418	4,098,990	4,233,977	4,690,793	4,763,238	4,869,295	4,998,224	5,031,644
12/31/2007	3,386,279	3,097,519	3,031,213	3,133,141	3,449,007	3,385,354	3,478,243	3,652,112	3,747,406	3,760,636	3,871,170
12/31/2008	2,318,311	2,552,925	3,040,547	3,183,744	2,960,420	3,018,726	3,185,618	3,273,757	3,283,953	3,229,166	
12/31/2009	3,499,393	3,487,472	3,057,187	3,116,760	3,240,776	3,461,193	3,368,806	3,494,914	3,518,663		
12/31/2010	2,187,415	3,079,994	3,387,852	3,125,893	3,113,662	3,223,520	3,261,193	3,214,622			
12/31/2011	3,305,690	3,329,092	3,186,600	3,175,545	3,351,416	3,264,421	3,228,339				
12/31/2012	2,966,126	2,907,153	3,337,127	3,191,842	3,356,984	2,913,598					
12/31/2013	3,777,963	3,929,893	4,009,011	4,089,906	4,121,879						
12/31/2014	3,357,997	4,406,067	4,542,104	4,563,319							
12/31/2015	2,789,251	3,111,342	3,281,438								
12/31/2016	2,966,088	3,468,186									
12/31/2017	2,195,023										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	3,266,846	3,250,253	3,261,792	3,259,292	3,281,628	3,281,835	3,281,835	3,281,835	3,281,835
12/31/1999	2,859,339	2,843,228	2,844,344	2,849,256	2,849,256	2,849,251	2,849,251	2,849,251	
12/31/2000	3,009,980	2,960,187	2,967,860	2,965,724	2,960,403	2,960,403	3,025,332		
12/31/2001	4,412,114	4,370,283	4,320,612	4,301,283	4,228,755	4,233,758			
12/31/2002	3,617,377	3,567,155	3,516,054	3,506,054	3,508,388				
12/31/2003	2,772,861	2,774,704	2,807,162	2,805,175					
12/31/2004	1,673,562	1,702,449	1,697,448						
12/31/2005	3,461,895	3,492,774							
12/31/2006	5,046,337								



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
12/31/1998	1.636	1.115	1.010	1.120	1.441	0.896	0.998	1.119	1.060	1.017	0.984
12/31/1999	1.113	1.271	1.452	1.012	1.090	1.067	1.073	1.141	1.081	1.030	0.984
12/31/2000	1.569	1.309	0.954	1.060	1.091	1.186	1.078	1.054	1.076	1.023	0.972
12/31/2001	1.117	1.310	1.113	0.973	1.114	1.147	1.164	1.060	1.027	1.034	0.965
12/31/2002	1.867	1.232	1.219	1.257	1.043	1.050	1.036	1.183	0.997	1.000	0.934
12/31/2003	1.078	0.921	0.994	1.033	1.086	1.194	1.019	1.011	1.070	1.136	1.025
12/31/2004	1.836	1.382	0.863	0.924	1.054	1.009	0.979	1.076	1.063	0.998	0.982
12/31/2005	1.634	0.941	1.122	1.018	0.961	1.086	1.036	0.999	0.985	0.981	1.027
12/31/2006	1.474	1.110	0.928	0.985	1.033	1.108	1.015	1.022	1.026	1.007	1.003
12/31/2007	0.915	0.979	1.034	1.101	0.982	1.027	1.050	1.026	1.004	1.029	
12/31/2008	1.101	1.191	1.047	0.930	1.020	1.055	1.028	1.003	0.983		
12/31/2009	0.997	0.877	1.019	1.040	1.068	0.973	1.037	1.007			
12/31/2010	1.408	1.100	0.923	0.996	1.035	1.012	0.986				
12/31/2011	1.007	0.957	0.997	1.055	0.974	0.989					
12/31/2012	0.980	1.148	0.956	1.052	0.868						
12/31/2013	1.040	1.020	1.020	1.008							
12/31/2014	1.312	1.031	1.005								
12/31/2015	1.115	1.055									
12/31/2016	1.169										
3 Yr Mean	1.199	1.035	0.994	1.038	0.959	0.991	1.017	1.012	1.004	1.006	1.004
Best 3/5	1.108	1.035	0.986	1.033	1.010	1.009	1.027	1.011	1.005	1.011	1.003

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	0.995	1.004	0.999	1.007	1.000	1.000	1.000	1.000			
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	1.022	1.000 *	1.000 *			
12/31/2001	0.991	0.989	0.996	0.983	1.001	1.000 *	1.000 *	1.000 *			
12/31/2002	0.986	0.986	0.997	1.001	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2003	1.001	1.012	0.999								
12/31/2004	1.017	0.997									
12/31/2005	1.009										
3 Yr Mean	1.009	0.998	0.997	0.994	1.000 @	1.007 @	1.000 @	1.000 @			
Best 3/5	1.000	0.996	0.998	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
12/31/2013					1.010	1.009	1.027	1.011	1.005	1.011	1.003
12/31/2014				1.033	1.010	1.009	1.027	1.011	1.005	1.011	1.003
12/31/2015			0.986	1.033	1.010	1.009	1.027	1.011	1.005	1.011	1.003
12/31/2016		1.035	0.986	1.033	1.010	1.009	1.027	1.011	1.005	1.011	1.003
12/31/2017	1.108	1.035	0.986	1.033	1.010	1.009	1.027	1.011	1.005	1.011	1.003

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.000	0.996	0.998	1.000	1.000	1.000	1.000	1.000	1.000*	1.072
12/31/2014	1.000	0.996	0.998	1.000	1.000	1.000	1.000	1.000	1.000*	1.107
12/31/2015	1.000	0.996	0.998	1.000	1.000	1.000	1.000	1.000	1.000*	1.092
12/31/2016	1.000	0.996	0.998	1.000	1.000	1.000	1.000	1.000	1.000*	1.130
12/31/2017	1.000	0.996	0.998	1.000	1.000	1.000	1.000	1.000	1.000*	1.252

\* 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>
12/31/1998	1,485,114	3,725,900	5,686,292	7,470,628	10,052,738	11,660,908	13,316,293	13,499,361	14,808,981	16,325,652	17,177,462
12/31/1999	2,260,092	3,030,022	5,277,912	7,867,413	9,139,256	11,452,717	12,746,533	14,103,792	15,308,764	17,088,584	17,543,131
12/31/2000	2,516,343	3,825,021	6,168,995	10,095,647	12,765,467	15,953,697	18,533,138	19,473,565	20,116,590	20,961,684	21,400,872
12/31/2001	2,041,421	3,498,520	6,085,372	9,608,708	13,123,883	15,081,618	17,957,549	19,475,506	20,838,333	20,046,328	20,282,982
12/31/2002	1,196,598	3,387,581	6,788,451	8,842,428	11,108,584	12,450,358	13,338,935	15,388,853	14,955,024	15,071,098	15,630,532
12/31/2003	1,603,483	3,943,279	6,593,307	10,687,804	12,722,407	14,679,943	16,526,580	17,644,387	18,901,531	19,929,054	20,830,189
12/31/2004	1,776,784	2,925,785	5,529,008	8,052,591	10,461,439	12,233,168	13,599,968	14,630,128	15,829,991	16,876,555	17,560,704
12/31/2005	2,226,828	4,552,172	7,956,945	8,125,619	9,391,745	10,676,657	12,912,880	14,537,083	15,681,357	16,838,659	17,957,311
12/31/2006	1,596,517	3,714,953	7,122,369	10,126,107	12,191,940	14,370,168	15,840,867	18,130,927	21,313,703	21,978,482	22,782,889
12/31/2007	2,336,400	4,355,403	6,700,299	10,590,461	13,475,113	15,728,339	17,135,263	19,434,354	20,599,619	22,435,996	23,617,581
12/31/2008	2,167,737	5,436,960	9,660,791	13,547,445	16,807,177	19,351,048	20,867,947	21,855,958	22,627,987	23,554,474	
12/31/2009	4,644,675	9,978,543	16,457,161	19,963,530	23,271,158	27,038,654	28,020,818	29,520,562	31,060,268		
12/31/2010	2,773,696	6,170,410	11,301,354	17,321,686	21,774,030	23,871,465	25,217,075	25,673,607			
12/31/2011	2,719,594	5,015,473	8,870,426	12,490,996	15,415,551	18,167,381	19,642,256				
12/31/2012	3,322,140	8,343,069	13,806,727	20,854,881	22,951,182	25,440,380					
12/31/2013	3,193,298	6,883,298	10,532,635	14,560,935	17,305,644						
12/31/2014	3,554,180	6,288,305	9,591,883	12,594,548							
12/31/2015	2,729,525	5,663,552	9,182,242								
12/31/2016	4,372,128	10,309,924									
12/31/2017	2,709,862										

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>
12/31/1998	17,735,567	18,184,774	18,343,644	18,253,294	18,298,816	18,302,064	18,302,356	18,302,635	18,449,690
12/31/1999	18,140,558	17,713,316	17,848,551	17,784,674	17,899,082	17,825,344	17,839,343	17,851,774	
12/31/2000	21,915,818	22,267,867	22,428,522	22,368,141	22,625,159	22,622,244	22,599,951		
12/31/2001	20,771,849	21,233,621	21,777,666	21,839,156	21,834,681	21,885,385			
12/31/2002	16,008,593	16,314,840	16,531,970	16,645,480	16,678,949				
12/31/2003	22,461,103	22,760,218	23,439,989	23,494,175					
12/31/2004	18,474,647	18,781,275	18,825,608						
12/31/2005	18,798,768	19,861,175							
12/31/2006	22,892,286								

PRODUCTS (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
12/31/1998	2,240,786	1,960,392	1,784,336	2,582,110	1,608,170	1,655,385	183,068	1,309,620	1,516,671	851,810	558,105	449,207	158,870
12/31/1999	769,930	2,247,890	2,589,501	1,271,843	2,313,461	1,293,816	1,357,259	1,204,972	1,779,820	454,547	597,427	-427,242	135,235
12/31/2000	1,308,678	2,343,974	3,926,652	2,669,820	3,188,230	2,579,441	940,427	643,025	845,094	439,188	514,946	352,049	160,655
12/31/2001	1,457,099	2,586,852	3,523,336	3,515,175	1,957,735	2,875,931	1,517,957	1,362,827	-792,005	236,654	488,867	461,772	544,045
12/31/2002	2,190,983	3,400,870	2,053,977	2,266,156	1,341,774	888,577	2,049,918	-433,829	116,074	559,434	378,061	306,247	217,130
12/31/2003	2,339,796	2,650,028	4,094,497	2,034,603	1,957,536	1,846,637	1,117,807	1,257,144	1,027,523	901,135	1,630,914	299,115	679,771
12/31/2004	1,149,001	2,603,223	2,523,583	2,408,848	1,771,729	1,366,800	1,030,160	1,199,863	1,046,564	684,149	913,943	306,628	44,333
12/31/2005	2,325,344	3,404,773	168,674	1,266,126	1,284,912	2,236,223	1,624,203	1,144,274	1,157,302	1,118,652	841,457	1,062,407	
12/31/2006	2,118,436	3,407,416	3,003,738	2,065,833	2,178,228	1,470,699	2,290,060	3,182,776	664,779	804,407	109,397		
12/31/2007	2,019,003	2,344,896	3,890,162	2,884,652	2,253,226	1,406,924	2,299,091	1,165,265	1,836,377	1,181,585			
12/31/2008	3,269,223	4,223,831	3,886,654	3,259,732	2,543,871	1,516,899	988,011	772,029	926,487				
12/31/2009	5,333,868	6,478,618	3,506,369	3,307,628	3,767,496	982,164	1,499,744	1,539,706					
12/31/2010	3,396,714	5,130,944	6,020,332	4,452,344	2,097,435	1,345,610	456,532						
12/31/2011	2,295,879	3,854,953	3,620,570	2,924,555	2,751,830	1,474,875							
12/31/2012	5,020,929	5,463,658	7,048,154	2,096,301	2,489,198								
12/31/2013	3,690,000	3,649,337	4,028,300	2,744,709									
12/31/2014	2,734,125	3,303,578	3,002,665										
12/31/2015	2,934,027	3,518,690											
12/31/2016	5,937,796												

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
12/31/1998	0.0890	0.0779	0.0709	0.1025	0.0639	0.0657	0.0073	0.0520	0.0602	0.0338	0.0222	0.0178	0.0063
12/31/1999	0.0284	0.0828	0.0954	0.0469	0.0852	0.0477	0.0500	0.0444	0.0656	0.0167	0.0220	-0.0157	0.0050
12/31/2000	0.0414	0.0741	0.1241	0.0844	0.1008	0.0815	0.0297	0.0203	0.0267	0.0139	0.0163	0.0111	0.0051
12/31/2001	0.0440	0.0782	0.1065	0.1062	0.0592	0.0869	0.0459	0.0412	-0.0239	0.0072	0.0148	0.0140	0.0164
12/31/2002	0.0737	0.1144	0.0691	0.0762	0.0451	0.0299	0.0689	-0.0146	0.0039	0.0188	0.0127	0.0103	0.0073
12/31/2003	0.0711	0.0806	0.1245	0.0619	0.0595	0.0562	0.0340	0.0382	0.0312	0.0274	0.0496	0.0091	0.0207
12/31/2004	0.0491	0.1112	0.1078	0.1029	0.0757	0.0584	0.0440	0.0513	0.0447	0.0292	0.0390	0.0131	0.0019
12/31/2005	0.0903	0.1322	0.0066	0.0492	0.0499	0.0869	0.0631	0.0444	0.0449	0.0434	0.0327	0.0413	
12/31/2006	0.0657	0.1057	0.0931	0.0641	0.0675	0.0456	0.0710	0.0987	0.0206	0.0249	0.0034		
12/31/2007	0.0501	0.0582	0.0965	0.0716	0.0559	0.0349	0.0571	0.0289	0.0456	0.0293			
12/31/2008	0.0744	0.0962	0.0885	0.0742	0.0579	0.0345	0.0225	0.0176	0.0211				
12/31/2009	0.1155	0.1402	0.0759	0.0716	0.0816	0.0213	0.0325	0.0333					
12/31/2010	0.0851	0.1286	0.1509	0.1116	0.0526	0.0337	0.0114						
12/31/2011	0.0628	0.1054	0.0990	0.0800	0.0753	0.0403							
12/31/2012	0.1133	0.1233	0.1591	0.0473	0.0562								
12/31/2013	0.0922	0.0912	0.1007	0.0686									
12/31/2014	0.0691	0.0835	0.0759										
12/31/2015	0.0891	0.1068											
12/31/2016	0.1415												

Best 3/5	0.0982	0.1012	0.1169	0.0734	0.0631	0.0344	0.0373	0.0356	0.0369	0.0287	0.0281	0.0125	0.0096
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PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
PROPERTY DAMAGE - OCCURRENCE  
INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E.	183:171	195:183	207:195	Link Ratios 219:207	231:219	243:231	Ult:243
12/31/1998	0.995	1.002	1.000	1.000	1.000	1.008	1.000 *
12/31/1999	0.996	1.006	0.996	1.001	1.001	1.000 *	1.000 *
12/31/2000	0.997	1.011	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	1.007	1.002	1.004 *	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2003	1.002						
Best 3/5	1.001	1.004	1.001 *	1.000 *	1.000 *	1.000 *	1.000 *

171 to Ultimate Factor: 1.006

<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>
	0.676	0.578	0.476	0.360	0.286	0.223	0.189
<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>
	0.151	0.116	0.079	0.050	0.022	0.010	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	9,350,031	33,042,390	0.476	15,728,179	25,078,210	1.006	25,228,377
12/31/2016	10,485,072	44,806,708	0.578	25,898,286	36,383,358	1.006	36,601,364
12/31/2017	2,908,692	39,782,690	0.676	26,893,125	29,801,817	1.006	29,980,277

\* Calculated Using Modified Bondy Method

Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2013 - 2017

<u>Item *</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2013 - 2017 Mean</u>
1. Direct Losses Incurred	\$19,650,392	\$20,723,228	\$25,486,854	\$26,406,385	\$23,400,844	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,575,153	\$5,301,984	\$6,171,818	\$5,132,541	\$6,233,925	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,296,595	\$2,476,228	\$2,580,924	\$2,694,622	\$2,384,924	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,225,545	\$26,025,212	\$31,658,672	\$31,538,926	\$29,634,769	
	<u>Incurred Percentage</u>					
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.1%	9.5%	8.2%	8.5%	8.0%	8.7%
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) 7/1/2015 to 7/1/2020 AYE 12/31/2015	+ 1.5%	
	b) 7/1/2016 to 7/1/2020 AYE 12/31/2016	+ 1.9%	
	c) 7/1/2017 to 7/1/2020 AYE 12/31/2017	+ 2.2%	
(2)	<u>OCCURRENCE SEVERITY</u>	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>
	a) Fitted		
	All Years	+ 4.2%	+ 5.8%
	Eight Years	+ 5.6%	+ 8.2%
	Six Years	+ 2.2%	+ 6.7%
	b) Selected	+ 2.5%	+ 6.5%
(3)	<u>FREQUENCY TREND</u>		
	Selected	- 1.5%	
(4)	<u>TOTAL ANNUAL NET TREND</u>		
	Net trend = (frequency trend x severity trend) / exposure trend		

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 12/31/2015, 12/31/2016 & 12/31/2017

(1)			(2)			(1)			(2)		
YEAR ENDING			PRODUCTS			YEAR ENDING			PRODUCTS		
<u>QUARTER*</u>			CLASS GROUP			<u>QUARTER*</u>			CLASS GROUP		
			SALES EXPOSURE						SALES EXPOSURE		
			<u>INDICES</u>						<u>INDICES</u>		
2007	1		0.955			2014	1		1.012		
	2		0.959				2		1.016		
	3		0.961				3		1.020		
	4		0.963				4		1.022		
2008	1		0.962			2015	1		1.025		
	2		0.958				2		1.027		
	3		0.956				3		1.029		
	4		0.957				4		1.031		
2009	1		0.961			2016	1		1.031		
	2		0.966				2		1.032		
	3		0.969				3		1.031		
	4		0.968				4		1.032		
2010	1		0.964			2017	1		1.035		
	2		0.962				2		1.036		
	3		0.962				3		1.039		
	4		0.965				4		1.042		
2011	1		0.968			2018	1		1.044		
	2		0.973				2		1.049		
	3		0.978				3P		1.054		
	4		0.982				4P		1.060		
2012	1		0.986			2019	1P		1.067		
	2		0.990				2P		1.075		
	3		0.995				3P		1.084		
	4		1.000				4P		1.093		
2013	1		1.004			2020	1P		1.100		
	2		1.006				2P		1.105		
	3		1.008				3P		1.109		
	4		1.010				4P		1.112		

CHANGE IN EXPOSURES		PRODUCTS
7/1/2015 to 7/1/2020	(2020:4/2015:4)	1.079
7/1/2016 to 7/1/2020	(2020:4/2016:4)	1.078
7/1/2017 to 7/1/2020	(2020:4/2017:4)	1.068

AVERAGE ANNUAL TREND FACTOR		
7/1/2015 to 7/1/2020	( 5.0 YRS )	1.015
7/1/2016 to 7/1/2020	( 4.0 YRS )	1.019
7/1/2017 to 7/1/2020	( 3.0 YRS )	1.022

\* 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>
12/31/2008	\$38,766,634	1,198	\$32,359	\$26,611		
12/31/2009	30,614,320	1,245	24,590	27,739		
12/31/2010	31,457,799	1,180	26,659	28,916	\$27,400	
12/31/2011	27,862,749	1,094	25,469	30,142	28,927	
12/31/2012	38,000,817	1,023	37,146	31,420	30,540	\$33,991
12/31/2013	27,285,494	857	31,838	32,753	32,242	34,738
12/31/2014	24,461,289	666	36,729	34,142	34,039	35,500
12/31/2015	20,654,994	617	33,476	35,590	35,936	36,280
12/31/2016	20,773,372	581	35,755	37,100	37,939	37,077
12/31/2017	19,190,405	467	41,093	38,673	40,053	37,891
Goodness of Fit Statistic, R-Squared:				0.521	0.637	0.210
Average Annual Severity Trend (10 yr)				+ 4.2%		
Average Annual Severity Trend ( 8 yr)				+ 5.6%		
Average Annual Severity Trend ( 6 yr)				+ 2.2%		
Selected Annual Severity Trend				+ 2.5%		

\* 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  
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>
12/31/2008	\$49,740,303	1,407	\$35,352	\$33,494		
12/31/2009	59,123,988	1,442	41,001	35,437		
12/31/2010	50,888,079	1,515	33,589	37,493	\$33,775	
12/31/2011	43,245,141	1,262	34,267	39,668	36,555	
12/31/2012	53,814,860	1,196	44,996	41,969	39,564	\$41,491
12/31/2013	46,658,825	1,099	42,456	44,404	42,820	44,266
12/31/2014	43,613,705	983	44,368	46,980	46,344	47,227
12/31/2015	41,334,400	896	46,132	49,706	50,159	50,386
12/31/2016	52,645,739	864	60,933	52,590	54,287	53,756
12/31/2017	43,715,916	773	56,554	55,641	58,755	57,351

Goodness of Fit Statistic, R-Squared:                      0.733              0.855              0.671

Average Annual Severity Trend (10 yr)                      + 5.8%

Average Annual Severity Trend ( 8 yr)                      + 8.2%

Average Annual Severity Trend ( 6 yr)                      + 6.7%

Selected Annual Severity Trend                      + 6.5%

\* 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).

# 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>
12/31/2004	\$ 107,976,215	3,576	33.11
12/31/2005	105,028,944	2,955	28.13
12/31/2006	103,228,129	3,013	29.19
12/31/2007	105,422,178	3,337	31.66
12/31/2008	112,287,020	3,219	28.67
12/31/2009	123,379,953	3,678	29.81
12/31/2010	129,196,347	3,686	28.53
12/31/2011	132,370,073	3,355	25.35
12/31/2012	133,400,484	3,210	24.06
12/31/2013	134,211,810	3,093	23.04
12/31/2014	135,944,006	2,830	20.82
12/31/2015	141,970,713	2,548	17.95
12/31/2016	146,581,441	2,439	16.64
12/31/2017	149,572,365	2,124	14.20

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 0.999 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 \* .965 \* .891

CLASS	AYE 2017 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	CRED. (4)	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	277080	1200285	1.88173	.1557	1.061	1.203	1.034	.020	.021	5.0	.020	.021
10141	485039	2225492	1.78861	.2217	1.104	1.252	1.076	.022	.024	9.1	.022	.024
12361	2649951	13037098	.92910	.5736	.921	1.044	.898	.091	.082	-9.9	.091	.082
12373	251235	892179	.39374	.1336	.840	.952	.819	.031	.025	-19.4	.031	.025
13049	228578	1127515	1.26882	.1505	.963	1.092	.939	.058	.054	-6.9	.058	.054
13111	59495	325479	.54753	.0897	.877	.994	.855	.113	.097	-14.2	.113	.097
13112	2326085	11149673	.80361	.5370	.853	.967	.831	.083	.069	-16.9	.083	.069
13621	551255	3053542	.78810	.2680	.877	.994	.855	.420	.360	-14.3	.420	.360
13670	324324	1524424	1.48659	.1777	1.012	1.147	.986	.013	.013	0.0	.013	.013
15223	1096521	5432088	1.09083	.3747	.977	1.108	.953	.035	.033	-5.7	.035	.033
15406	290219	1321061	1.25201	.1640	.966	1.095	.941	.047	.044	-6.4	.047	.044
16604	2009454	10860518	.53516	.5309	.711	.806	.693	.212	.147	-30.7	.212	.147
51300	20458	41813	.00000	.0661	.849	.963	.828	.209	.173	-17.2	.209	.173
51305	23837	66902	.12868	.0682	.856	.971	.835	1.230	1.030	-16.3	1.230	1.030
51315	1036706	4310329	.99691	.3286	.938	1.063	.914	.116	.106	-8.6	.116	.106
51350	241248	1133955	.33810	.1510	.823	.933	.802	.177	.142	-19.8	.177	.142
51351	24974	108356	.20909	.0717	.859	.974	.837	.054	.045	-16.7	.054	.045
51352	131282	551469	.34265	.1077	.848	.961	.826	.138	.114	-17.4	.138	.114
51355	212069	1083277	.47249	.1474	.845	.958	.824	.116	.096	-17.2	.116	.096
51356	70105	312488	.03453	.0887	.832	.943	.811	.850	.690	-18.8	.850	.690
51357	2802	10606	11.51574	.0634	1.582	1.794	1.543	.430	.530	23.3	.430	.530
51358	15330	73740	.38789	.0688	.874	.991	.852	.175	.149	-14.9	.175	.149
51359	93809	292007	.25148	.0870	.852	.966	.831	1.010	.840	-16.8	1.010	.840
51752	819538	3923346	.62310	.3110	.820	.930	.800	.199	.159	-20.1	.199	.159
52002	1634967	7451197	1.29912	.4436	1.082	1.227	1.055	.112	.118	5.4	.112	.118
53001	3165579	15237641	.87192	.6095	.887	1.006	.865	.380	.330	-13.2	.380	.330
53374	9622439	41157614	.84585	.8040	.858	.973	.837	.450	.380	-15.6	.450	.380
53375	2340180	10248105	1.20783	.5173	1.064	1.206	1.037	.244	.250	2.5	.244	.250
53376	584740	2833788	.88764	.2563	.904	1.025	.881	.212	.187	-11.8	.212	.187
53377	3505364	15996522	.73384	.6205	.800	.907	.780	.270	.211	-21.9	.270	.211
53565	320816	1190963	.23398	.1550	.805	.913	.785	.158	.124	-21.5	.158	.124
55371	32349	141590	.00000	.0745	.842	.955	.821	.158	.130	-17.7	.158	.130
56488	79220	286913	.58444	.0866	.881	.999	.859	.039	.034	-12.8	.039	.034
56758	123708	524419	.76607	.1056	.894	1.014	.872	.178	.155	-12.9	.178	.155
56759	1168304	4622030	.62190	.3421	.811	.920	.791	.118	.093	-21.2	.118	.093
56760	2167119	10367531	.80592	.5200	.856	.971	.835	.127	.106	-16.5	.127	.106
57002	270011	1038412	.59556	.1442	.864	.980	.843	.130	.110	-15.4	.130	.110

X-TILDE: .853 X-TILDE (MONOLINE): .882 PI-TILDE: .0038214  
 TAU SQUARED: .03000 SIGMA SQUARED: 326330.22905

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 \* .965 \* .891

CLASS	AYE 2017 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	215022	1071862	.71742	.1466	.881	.999	.859	.050	.043	-14.0	.050	.043
57913	1122464	4964176	.40931	.3563	.731	.829	.713	.430	.310	-27.9	.430	.310
59537	325759	1122981	1.51057	.1502	1.000	1.134	.975	.172	.168	-2.3	.172	.168
59647	72557	281277	.55467	.0861	.879	.997	.857	.205	.176	-14.1	.205	.176
59904	16745	91267	.00000	.0703	.845	.958	.824	.080	.066	-17.5	.080	.066
59905	179655	708029	1.39719	.1198	.968	1.098	.944	.138	.130	-5.8	.138	.130
59925	1163	5480	3.29890	.0630	1.060	1.202	1.033	1.060	1.090	2.8	1.060	1.090
59926	313328	1547932	.69142	.1793	.870	.986	.848	.490	.420	-14.3	.490	.420
59927	95613	217978	1.21263	.0809	.934	1.059	.911	1.710	1.560	-8.8	1.710	1.560
59963	46721	177583	.11708	.0776	.848	.961	.826	.540	.450	-16.7	.540	.450
59964	256320	1126674	1.15214	.1505	.946	1.073	.923	.066	.061	-7.6	.066	.061

X-TILDE: .853      X-TILDE (MONOLINE): .882      PI-TILDE: .0038214  
 TAU SQUARED: .03000      SIGMA SQUARED: 326330.22905

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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 \* 1.023 \* .891

CLASS	AYE 2017 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	FORMULA CRED. (4)	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	186671	876721	.40222	.1477	.885	.900	.820	.224	.184	-17.9	.224	.184
10040	1168882	4800185	1.07972	.3655	1.009	1.026	.935	.300	.280	-6.7	.300	.280
10070	1984400	9836293	1.18207	.5222	1.080	1.099	1.002	.141	.141	0.0	.141	.141
10101	416359	2002393	.82093	.2241	.935	.951	.867	.191	.166	-13.1	.191	.166
10111	220796	932165	.60870	.1518	.914	.930	.848	.098	.083	-15.3	.098	.083
10255	2792435	12213379	.89512	.5721	.926	.942	.859	.152	.131	-13.8	.152	.131
10256	10670	58813	1.36733	.0820	1.001	1.018	.928	.158	.147	-7.0	.158	.147
10257	3201594	13619040	.95992	.5970	.963	.980	.893	.187	.167	-10.7	.187	.167
11126	260331	1260867	.61081	.1754	.906	.922	.840	.024	.020	-16.7	.024	.020
11203	8780	44136	.00000	.0808	.890	.905	.825	.650	.540	-16.9	.650	.540
11248	13983	70593	.70405	.0831	.946	.962	.877	.022	.019	-13.6	.022	.019
12391	2096310	9581579	1.00311	.5162	.986	1.003	.914	.100	.091	-9.0	.100	.091
12509	64516	321382	.05957	.1042	.874	.889	.810	.047	.038	-19.1	.047	.038
12651	676706	3087567	.90643	.2858	.951	.967	.881	.560	.490	-12.5	.560	.490
12707	277556	1276383	.51091	.1765	.888	.903	.823	.790	.650	-17.7	.790	.650
12797	1030426	4841810	1.28649	.3672	1.085	1.104	1.006	.168	.169	0.6	.168	.169
13201	23551	118834	.12305	.0872	.895	.910	.829	.201	.167	-16.9	.201	.167
13204	1280899	7681343	1.49790	.4657	1.215	1.236	1.127	1.240	1.400	12.9	1.240	1.400
13205	462505	2009140	1.24194	.2245	1.030	1.048	.955	.450	.430	-4.4	.450	.430
13314	260	1163	.00000	.0770	.894	.909	.829	.020	.017	-15.0	.020	.017
13410	3807522	20254007	1.05928	.6838	1.031	1.049	.956	2.550	2.440	-4.3	2.550	2.440
13412	845697	5913621	.99773	.4084	.980	.997	.909	1.110	1.010	-9.0	1.110	1.010
13590	4088230	17705239	1.06206	.6552	1.030	1.048	.955	.770	.740	-3.9	.770	.740
13715	1808285	9045822	1.22748	.5029	1.099	1.118	1.019	.151	.154	2.0	.151	.154
13930	1036824	4762464	1.35766	.3639	1.110	1.129	1.029	.205	.211	2.9	.205	.211
14068	10271	49633	.00000	.0812	.890	.905	.825	.018	.015	-16.7	.018	.015
14527	389075	1849244	.94769	.2145	.964	.981	.894	.202	.181	-10.4	.202	.181
14855	63703	368206	.06414	.1080	.871	.886	.808	.200	.162	-19.0	.200	.162
16005	482304	2300287	.80004	.2421	.928	.944	.860	.040	.034	-15.0	.040	.034
16009	28877	147139	3.22449	.0896	1.171	1.191	1.086	.073	.079	8.2	.073	.079
16527	5747637	27178318	.91659	.7418	.930	.946	.862	.420	.360	-14.3	.420	.360
16705	298632	1092478	.86405	.1635	.951	.967	.881	.173	.152	-12.1	.173	.152
16750	608811	2090040	.33074	.2295	.822	.836	.762	.041	.031	-24.4	.041	.031
18205	536973	2601941	.77363	.2595	.918	.934	.851	.360	.310	-13.9	.360	.310
18616	2916728	12153250	.93633	.5709	.950	.966	.881	.610	.540	-11.5	.610	.540
18707	13411	62156	4.85099	.0823	1.288	1.310	1.194	.003	.003	0.0	.003	.003
45771	233194	1371074	.37918	.1830	.861	.876	.798	.220	.176	-20.0	.220	.176

X-TILDE: .989 X-TILDE (MONOLINE): .983 PI-TILDE: .0048163  
TAU SQUARED: .03000 SIGMA SQUARED: 316645.99419

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 \* 1.023 \* .891

CLASS	AYE 2017 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	470712	2663706	.48318	.2629	.841	.856	.780	.060	.047	-21.7	.060	.047
53907	2745971	10688827	.77168	.5414	.862	.877	.799	.139	.111	-20.1	.139	.111

X-TILDE: .989 X-TILDE (MONOLINE): .983 PI-TILDE: .0048163  
 TAU SQUARED: .03000 SIGMA SQUARED: 316645.99419

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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 \* 1.018 \* .891

CLASS	AYE 2017 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	2387	8760	.33390	.1524	.650	.690	.626	.072	.050	-30.6	.072	.050	L
51575	303354	1481844	.76405	.4255	.731	.776	.704	.028	.020	-28.6	.028	.020	
51576	229149	928392	.92242	.3463	.781	.829	.752	.100	.075	-25.0	.100	.075	
51613	133152	618383	.51134	.2917	.650	.690	.626	.200	.138	-31.0	.200	.138	L
51666	76486	341219	1.27976	.2345	.841	.893	.810	.127	.103	-18.9	.127	.103	
51767	2032	14356	.00000	.1539	.598	.635	.576	.012	.009	-25.0	.012	.009	L
51833	3332	19682	.51926	.1554	.677	.719	.652	.103	.072	-30.1	.103	.072	L
51869	209824	748443	.89241	.3157	.765	.812	.737	.190	.140	-26.3	.190	.140	
51889	1186	6845	.00000	.1519	.599	.636	.577	.020	.014	-30.0	.020	.014	L
51941	1914854	8943586	.96687	.7817	.910	.966	.876	.045	.039	-13.3	.045	.039	
52469	2273394	11370400	1.22338	.8183	1.129	1.199	1.088	.100	.109	9.0	.100	.109	
55647	530086	2439334	.66702	.5249	.686	.728	.660	.080	.056	-30.0	.080	.056	L
55802	35534	168032	.09939	.1938	.589	.625	.567	.013	.009	-30.8	.013	.009	L
56040	975	5279	.00000	.1514	.600	.637	.578	.057	.040	-29.8	.057	.040	L
57257	38541	165954	.92374	.1933	.749	.795	.721	.050	.036	-28.0	.050	.036	
57410	35310	159827	.00000	.1918	.571	.606	.550	.188	.130	-30.9	.188	.130	L
58503	35912	130626	1.32981	.1845	.822	.873	.792	.077	.061	-20.8	.077	.061	
58627	3079	17011	.00000	.1547	.597	.634	.575	.022	.016	-27.3	.022	.016	L
59257	354	3839	.00000	.1511	.600	.637	.578	.021	.015	-28.6	.021	.015	L
59923	3075	74270	.00000	.1699	.586	.622	.564	.007	.005	-28.6	.007	.005	L

X-TILDE: 1.008 X-TILDE (MONOLINE): .942 PI-TILDE: .0072008  
TAU SQUARED: .03000 SIGMA SQUARED: 92725.26603

L - CAPPED DOWN  
U - CAPPED UP  
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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 \* 1.007 \* .891

CLASS	AYE 2017 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	30102	141815	.01013	.0397	.871	.954	.856	.044	.038	-13.6	.044	.038
51001	5001	16432	.00000	.0277	.881	.965	.866	.530	.460	-13.2	.530	.460
51116	654100	3074348	1.51130	.2547	1.060	1.161	1.042	.550	.570	3.6	.550	.570
51240	79630	292035	.23737	.0537	.870	.953	.855	.213	.182	-14.6	.213	.182
51241	450002	2149407	.84338	.1981	.894	.979	.878	.340	.300	-11.8	.340	.300
51330	173006	823954	1.97635	.1001	1.013	1.110	.996	.430	.430	0.0	.430	.430
51370	166411	442996	.00000	.0673	.845	.926	.831	6.020	5.000	-16.9	6.020	5.000
51500	347595	1951060	.80930	.1848	.888	.973	.873	.125	.109	-12.8	.125	.109
51550	17966	78753	.50308	.0337	.893	.978	.877	.410	.360	-12.2	.410	.360
51551	32350	60390	.23840	.0319	.885	.969	.869	1.060	.920	-13.2	1.060	.920
51552	8390	20294	2.71051	.0281	.957	1.048	.940	.169	.159	-5.9	.169	.159
51600	159565	752068	.50701	.0941	.869	.952	.854	.232	.198	-14.7	.232	.198
51734	7155	57185	.00000	.0316	.878	.962	.863	.360	.310	-13.9	.360	.310
51741	146935	747539	1.08282	.0937	.923	1.011	.907	.280	.250	-10.7	.280	.250
51777	149596	756073	1.11774	.0944	.926	1.014	.910	.084	.076	-9.5	.084	.076
51808	166651	738813	1.70537	.0930	.981	1.074	.964	.760	.730	-3.9	.760	.730
51809	25778	108812	.00000	.0365	.873	.956	.858	.184	.158	-14.1	.184	.158
51877	113859	524131	.32562	.0745	.863	.945	.848	.260	.220	-15.4	.260	.220
51896	866284	4201576	.82407	.3138	.881	.965	.866	.023	.020	-13.0	.023	.020
51900	12541	70711	.80574	.0329	.903	.989	.887	.105	.093	-11.4	.105	.093
51909	159	1280	.00000	.0262	.883	.967	.868	.066	.057	-13.6	.066	.057
51926	345792	1647885	.49820	.1636	.840	.920	.825	.049	.040	-18.4	.049	.040
51927	487801	1886265	1.02147	.1804	.927	1.015	.911	.126	.115	-8.7	.126	.115
51934	242444	869481	.01392	.1038	.814	.892	.800	.178	.142	-20.2	.178	.142
51956	2044412	9223661	.75970	.4929	.834	.913	.819	.300	.246	-18.0	.300	.246
51957	1307227	6545100	1.07992	.4109	.978	1.071	.961	.420	.400	-4.8	.420	.400
51960	5537	43820	.00000	.0303	.879	.963	.864	.420	.360	-14.3	.420	.360
51982	12070	70126	.00000	.0329	.877	.961	.862	.099	.085	-14.1	.099	.085
51986	73583	407354	.04493	.0641	.851	.932	.836	.128	.107	-16.4	.128	.107
51999	194239	843446	.47907	.1017	.863	.945	.848	.540	.460	-14.8	.540	.460
52075	50840	243620	.51476	.0492	.887	.972	.872	.290	.250	-13.8	.290	.250
52134	2417494	12399003	.98864	.5647	.953	1.044	.937	.750	.700	-6.7	.750	.700
52315	493163	2248127	.89360	.2045	.904	.990	.888	.270	.240	-11.1	.270	.240
52505	57933	310808	1.17414	.0554	.921	1.009	.905	.224	.203	-9.4	.224	.203
52547	263366	1290168	1.30659	.1372	.961	1.053	.945	.093	.088	-5.4	.093	.088
52911	1726759	6479186	.58286	.4085	.774	.848	.761	.680	.520	-23.5	.680	.520
52967	39604	145073	.36768	.0400	.885	.969	.869	.074	.064	-13.5	.074	.064

X-TILDE: .918 X-TILDE (MONOLINE): .913 PI-TILDE: .0016763  
 TAU SQUARED: .03000 SIGMA SQUARED: 300617.20672

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 \* 1.007 \* .891

CLASS	AYE 2017 MONO/MULTI ALCCL (1)	5 YEAR MONO/MULTI ALCCL (2)	5 YEAR MONO/MULTI EXPERIENCE RATIO (3)	FORMULA CRED. (4)	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	47011	317984	.09205	.0560	.861	.943	.846	.540	.460	-14.8	.540	.460
53333	78801	377555	.96751	.0614	.910	.997	.895	.238	.213	-10.5	.238	.213
53631	262	1828	.00000	.0263	.882	.966	.867	.025	.022	-12.0	.025	.022
53632	1559	8497	.00000	.0269	.882	.966	.867	.040	.035	-12.5	.040	.035
53732	1990770	9291892	.63513	.4947	.772	.846	.759	.600	.460	-23.3	.600	.460
53733	4195922	18204635	1.06373	.6542	1.009	1.105	.991	.260	.260	0.0	.260	.260
54077	664106	3672575	1.09127	.2873	.959	1.050	.942	.390	.370	-5.1	.390	.370
55010	127608	609972	.73970	.0820	.893	.978	.877	1.250	1.100	-12.0	1.250	1.100
55011	341049	1803620	2.16671	.1746	1.126	1.233	1.106	1.140	1.260	10.5	1.140	1.260
55012	50559	198033	.78321	.0450	.901	.987	.886	1.320	1.170	-11.4	1.320	1.170
55013	380346	1533483	1.26779	.1553	.962	1.054	.946	1.050	.990	-5.7	1.050	.990
55214	1277	5926	.00000	.0267	.882	.966	.867	.103	.089	-13.6	.103	.089
55715	60093	180904	.29984	.0434	.880	.964	.865	.270	.234	-13.3	.270	.234
55716	32925	179438	.73054	.0432	.899	.985	.884	.590	.520	-11.9	.590	.520
56202	176585	1754802	.30618	.1712	.804	.881	.790	.126	.100	-20.6	.126	.100
56390	270501	927449	2.11931	.1086	1.038	1.137	1.020	.620	.630	1.6	.620	.630
56391	885637	4769054	.86372	.3401	.892	.977	.877	.360	.320	-11.1	.360	.320
56427	16128	100837	.00000	.0358	.874	.957	.859	.146	.125	-14.4	.146	.125
56690	5203	18822	.00000	.0279	.881	.965	.866	.420	.360	-14.3	.420	.360
56699	156289	741848	2.17126	.0932	1.024	1.122	1.007	.051	.051	0.0	.051	.051
56916	698432	3071590	1.15804	.2546	.970	1.062	.953	.196	.187	-4.6	.196	.187
57090	167037	587858	.89559	.0801	.905	.991	.889	.710	.630	-11.3	.710	.630
57401	10587	42361	.00000	.0302	.879	.963	.864	.113	.098	-13.3	.113	.098
57403	522	4309	.00000	.0265	.882	.966	.867	.041	.036	-12.2	.041	.036
57572	77872	463124	.70231	.0691	.892	.977	.877	.107	.094	-12.1	.107	.094
57600	62895	232237	.00003	.0481	.863	.945	.848	.039	.033	-15.4	.039	.033
57611	82703	381053	.36747	.0618	.873	.956	.858	.075	.064	-14.7	.075	.064
57690	388961	1647299	.34622	.1636	.815	.893	.801	.640	.510	-20.3	.640	.510
57716	274379	1590627	.47094	.1595	.837	.917	.823	.106	.087	-17.9	.106	.087
57725	1005208	4033138	1.14708	.3056	.980	1.073	.963	.094	.091	-3.2	.094	.091
57726	53078	300539	2.84037	.0544	1.012	1.108	.994	.019	.019	0.0	.019	.019
57810	4715	24328	.00000	.0284	.881	.965	.866	.126	.109	-13.5	.126	.109
57871	31999	228943	1.45244	.0478	.932	1.021	.916	.127	.116	-8.7	.127	.116
57998	37062	159972	.56205	.0414	.892	.977	.877	.067	.059	-11.9	.067	.059
57999	7395	41067	.31656	.0301	.889	.974	.874	.081	.071	-12.3	.081	.071
58095	1717108	7398207	1.02101	.4397	.957	1.048	.940	1.950	1.830	-6.2	1.950	1.830
58096	1633586	6051184	1.13838	.3928	.997	1.092	.980	1.060	1.040	-1.9	1.060	1.040

X-TILDE: .918 X-TILDE (MONOLINE): .913 PI-TILDE: .0016763  
 TAU SQUARED: .03000 SIGMA SQUARED: 300617.20672

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 \* 1.007 \* .891

CLASS	AYE 2017 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	71203	263259	2.09590	.0510	.967	1.059	.950	.086	.082	-4.7	.086	.082
58302	63805	284229	.22409	.0529	.870	.953	.855	.064	.055	-14.1	.064	.055
58397	1452198	6220733	.82818	.3991	.875	.958	.860	.970	.830	-14.4	.970	.830
58575	14498	103733	.00000	.0361	.874	.957	.859	.143	.123	-14.0	.143	.123
58663	1759173	7170994	.81443	.4323	.867	.950	.852	1.870	1.590	-15.0	1.870	1.590
58802	40759	228272	1.07646	.0478	.914	1.001	.898	.500	.450	-10.0	.500	.450
58837	6234	42670	13.27736	.0302	1.280	1.402	1.258	.132	.165	25.0	.132	.165
58840	4093	11612	.00000	.0272	.882	.966	.867	.128	.111	-13.3	.128	.111
58873	223863	1095639	.95135	.1221	.912	.999	.896	.034	.030	-11.8	.034	.030
58904	15350	64641	.00000	.0323	.877	.961	.862	.152	.131	-13.8	.152	.131
58922	1432852	7000122	.63429	.4266	.790	.865	.776	.241	.187	-22.4	.241	.187
59005	241366	1353772	.87863	.1420	.902	.988	.886	.108	.096	-11.1	.108	.096
59188	171	896	.00000	.0262	.883	.967	.868	.065	.056	-13.8	.065	.056
59189	2823	16175	.00000	.0277	.881	.965	.866	.350	.300	-14.3	.350	.300
59223	126681	785433	.86019	.0969	.902	.988	.886	.087	.077	-11.5	.087	.077
59378	0	101	.00000	.0261	.883	.967	.868	.175	.152	-13.1	.175	.152
59481	95429	395932	.51416	.0631	.882	.966	.867	.101	.088	-12.9	.101	.088
59701	14087	58980	6.79945	.0318	1.094	1.198	1.075	.227	.244	7.5	.227	.244
59713	387734	1685691	.91917	.1663	.908	.995	.893	.370	.330	-10.8	.370	.330
59722	69355	332015	.89980	.0573	.906	.992	.890	.036	.032	-11.1	.036	.032
59723	16203	185706	.51016	.0438	.889	.974	.874	.044	.038	-13.6	.044	.038
59726	149553	818660	1.41792	.0996	.957	1.048	.940	.026	.024	-7.7	.026	.024
59738	15771	106105	.00000	.0363	.873	.956	.858	.077	.066	-14.3	.077	.066
59773	1	837	.00000	.0262	.883	.967	.868	.032	.028	-12.5	.032	.028
59774	45	949	.00000	.0262	.883	.967	.868	.175	.152	-13.1	.175	.152
59775	0	0	.00000	.0000	.000	.000	.000	.211	.189	-10.4	.211	.189
59798	724077	3412782	.79154	.2735	.875	.958	.860	.530	.460	-13.2	.530	.460
59886	27643	151228	.00000	.0406	.870	.953	.855	.131	.112	-14.5	.131	.112
59889	16268	109142	1.32307	.0366	.922	1.010	.906	.169	.153	-9.5	.169	.153
59914	924446	4175393	.90282	.3125	.905	.991	.889	.700	.620	-11.4	.700	.620
59915	237024	792257	.85844	.0974	.902	.988	.886	.880	.780	-11.4	.880	.780
59917	58897	360272	2.90047	.0599	1.026	1.124	1.008	.164	.165	0.6	.164	.165
59931	235023	959517	.57049	.1112	.869	.952	.854	.690	.590	-14.5	.690	.590
59932	69478	317869	.00000	.0560	.856	.938	.842	1.110	.930	-16.2	1.110	.930
59947	12418	137520	.00000	.0393	.871	.954	.856	.390	.330	-15.4	.390	.330
59955	26258	100923	.00000	.0358	.874	.957	.859	.171	.147	-14.0	.171	.147
59970	23547	111267	.00000	.0368	.873	.956	.858	.212	.182	-14.2	.212	.182

X-TILDE: .918 X-TILDE (MONOLINE): .913 PI-TILDE: .0016763  
 TAU SQUARED: .03000 SIGMA SQUARED: 300617.20672

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 \* 1.007 \* .891

CLASS	AYE 2017 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	660392	2924489	1.45607	.2461	1.042	1.141	1.024	.237	.243	2.5	.237	.243
59984	25587	142572	.00000	.0397	.870	.953	.855	.064	.055	-14.1	.064	.055
59988	1632	17205	.00000	.0278	.881	.965	.866	.069	.060	-13.0	.069	.060
59989	9	36	.00000	.0261	.883	.967	.868	.052	.045	-13.5	.052	.045

X-TILDE: .918 X-TILDE (MONOLINE): .913 PI-TILDE: .0016763  
 TAU SQUARED: .03000 SIGMA SQUARED: 300617.20672

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 \* 1.006 \* .891

CLASS	AYE 2017 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	94928	583436	.58439	.1760	.770	.878	.787	.830	.650	-21.7	.830	.650
50010	70367	359762	.02628	.1473	.694	.791	.709	.820	.580	-29.3	.820	.580
51205	2098	8731	.00000	.0981	.730	.832	.746	.111	.083	-25.2	.111	.083
51206	13578	36027	.00000	.1021	.727	.829	.743	.610	.450	-26.2	.610	.450
51220	99574	514355	.61834	.1673	.778	.887	.795	3.250	2.580	-20.6	3.250	2.580
51221	835100	3380235	.73979	.4198	.780	.889	.797	2.440	1.940	-20.5	2.440	1.940
51222	227717	1122335	1.20056	.2377	.903	1.030	.923	3.380	3.120	-7.7	3.380	3.120
51224	963695	4140046	1.42301	.4630	1.094	1.247	1.118	1.190	1.330	11.8	1.190	1.330
51230	0	0	.00000	.0000	.000	.000	.000	.880	.790	-10.2	.880	.790
51252	2008606	9078986	.94712	.6380	.897	1.023	.917	.110	.101	-8.2	.110	.101
51254	5421	17596	.00000	.0994	.729	.831	.745	.060	.045	-25.0	.060	.045
51333	160711	553744	1.21772	.1723	.880	1.003	.899	.340	.310	-8.8	.340	.310
51958	296443	1404441	1.42193	.2665	.973	1.109	.994	.390	.390	0.0	.390	.390
51970	812320	3978535	1.20056	.4543	.987	1.125	1.008	.250	.250	0.0	.250	.250
52433	89169	418852	.77411	.1551	.804	.917	.822	1.460	1.200	-17.8	1.460	1.200
52581	302749	2323760	.28578	.3468	.628	.716	.642	5.330	3.680	-31.0	5.330	3.680
52744	1855	19719	.00000	.0997	.729	.831	.745	.126	.094	-25.4	.126	.094
53077	229859	1734068	.70142	.2974	.778	.887	.795	.248	.197	-20.6	.248	.197
55597	0	0	.00000	.0000	.000	.000	.000	1.990	1.780	-10.6	1.990	1.780
55918	322	35672	.00000	.1020	.727	.829	.743	4.300	3.190	-25.8	4.300	3.190
55919	0	5	.00000	.0968	.731	.834	.748	4.860	3.640	-25.1	4.860	3.640
56912	1022646	5028719	.75884	.5060	.784	.894	.801	.105	.084	-20.0	.105	.084
57146	401742	1696506	1.11325	.2940	.899	1.025	.919	.730	.670	-8.2	.730	.670
58737	71597	376995	.21960	.1496	.721	.822	.737	1.010	.740	-26.7	1.010	.740
59601	181243	531136	.41218	.1694	.742	.846	.758	3.050	2.310	-24.3	3.050	2.310
59660	486449	2817450	1.10973	.3831	.925	1.055	.946	1.200	1.140	-5.0	1.200	1.140
59724	62315	197433	.00000	.1252	.708	.807	.723	.031	.022	-29.0	.031	.022
59725	550033	2590483	1.30754	.3669	.992	1.131	1.014	.103	.104	1.0	.103	.104
59750	8872	44519	1.08311	.1033	.838	.956	.857	.280	.240	-14.3	.280	.240
59781	595605	2969773	.89243	.3935	.842	.960	.860	.088	.076	-13.6	.088	.076
59782	472863	2256746	.45848	.3415	.690	.787	.705	.690	.490	-29.0	.690	.490

L

X-TILDE: .930 X-TILDE (MONOLINE): .877 PI-TILDE: .0059437  
TAU SQUARED: .03000 SIGMA SQUARED: 182148.78409

L - CAPPED DOWN  
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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	12/31/2015	\$75,423,592	1.000	1.141		\$86,058,319
	12/31/2016	83,804,483	1.000	1.111		93,106,781
	12/31/2017	88,937,730	1.022	1.083		98,438,592
MULTILINE	12/31/2015	\$168,932,111	1.000	1.141	0.971	\$187,161,744
	12/31/2016	180,651,209	1.000	1.113	0.973	195,636,046
	12/31/2017	187,341,632	1.022	1.084	0.977	202,772,493
TOTAL	12/31/2015					\$273,220,063
	12/31/2016					288,742,827
	12/31/2017					301,211,085

+ 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 7/1/2019 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*	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	12/31/2015	\$19,923,128		1.082		1.085		1.131		0.975		\$25,781,745
		12/31/2016	15,500,413		1.428		1.085		1.104		0.980		25,980,528
		12/31/2017	10,552,828		2.590		1.085		1.077		0.985		31,462,316
BI	ALAE	12/31/2015	\$18,999,833				1.085		1.131		0.975		\$22,732,476
		12/31/2016	18,988,596				1.085		1.104		0.980		22,290,394
		12/31/2017	32,454,421				1.085		1.077		0.985		37,355,585
PD	B/L INDEMNITY	12/31/2015	\$60,441,200		1.257		1.085		1.246		0.975		\$100,110,444
		12/31/2016	57,075,501		1.339		1.085		1.193		0.980		96,927,466
		12/31/2017	49,132,118		1.554		1.085		1.141		0.985		93,108,421
PD	ALAE	12/31/2015	\$69,086,099				1.085		1.246		0.975		\$91,063,233
		12/31/2016	67,880,568				1.085		1.193		0.980		86,107,648
		12/31/2017	63,216,745				1.085		1.141		0.985		77,087,461
TOTAL													
	FULL COVERAGE	12/31/2015											\$239,687,899
		12/31/2016											231,306,035
		12/31/2017											239,013,783

\* 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	FREQUENCY	=	\$100,000 BASIC LIMIT DEVELOPED & TRENDED LOSS AND LAE	
									TREND	TREND						
BI	B/L INDEMNITY	12/31/2015	\$2,485,344			1.119			1.085			1.131	0.975		\$3,327,909	
		12/31/2016	2,715,697			1.387			1.085			1.104	0.980		4,422,462	
		12/31/2017	728,079			2.164			1.085			1.077	0.985		1,813,388	
BI	ALAE	12/31/2015	\$2,269,645						1.085			1.131	0.975		\$2,715,532	
		12/31/2016	5,140,307						1.085			1.104	0.980		6,034,120	
		12/31/2017	2,561,601						1.085			1.077	0.985		2,948,446	
PD	B/L INDEMNITY	12/31/2015	\$16,768,998			1.444			1.085			1.246	0.975		\$31,913,457	
		12/31/2016	15,753,964			1.569			1.085			1.193	0.980		31,358,401	
		12/31/2017	12,388,677			1.872			1.085			1.141	0.985		28,276,828	
PD	ALAE	12/31/2015	\$19,603,909						1.085			1.246	0.975		\$25,840,153	
		12/31/2016	21,713,392						1.085			1.193	0.980		27,543,805	
		12/31/2017	18,334,432						1.085			1.141	0.985		22,357,286	
TOTAL																
DED COVERAGE		12/31/2015													\$63,797,050	
		12/31/2016													69,358,788	
		12/31/2017													55,395,947	
TOTAL																
OCCURRENCE		12/31/2015													\$303,484,949	
		12/31/2016													300,664,824	
		12/31/2017													294,409,730	

\* 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.

MICHIGAN

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	1.099
35	Not Applicable	--
36	Service Policy	1.204
37	Industrial/Processing Policy	0.644
38	Contractors Policy	0.911

(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 G - 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.

MICHIGAN

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	1.023	0.8567	1.023	6,000,000
27 to 39 Months	1.000	1.000	0.6634	1.000	17,000,000
Accident Year Ending	Exposure Development From				
	<u>27:15</u>	<u>39:27</u>	<u>ULT:39</u>		<u>Factor</u>
12/31/2015			1.000		1.000
12/31/2016		1.000	1.000		1.000
12/31/2017	1.023	1.000	1.000		1.023

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

MICHIGAN  
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>
12/31/2010	8,741,660	8,677,713	8,685,059	8,685,051	8,685,051	8,685,051	8,685,007	8,685,007
12/31/2011	8,784,120	8,808,386	8,808,848	8,810,079	8,810,079	8,810,174	8,810,174	
12/31/2012	9,200,532	9,285,453	9,289,932	9,289,524	9,290,099	9,290,099		
12/31/2013	9,717,241	9,892,132	9,803,717	9,805,161	9,805,254			
12/31/2014	10,867,972	11,134,316	11,121,575	11,122,258				
12/31/2015	12,177,093	12,479,743	12,494,467					
12/31/2016	12,812,972	13,157,184						
12/31/2017	13,103,176							

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>
12/31/2010	0.993	1.001	1.000	1.000	1.000	1.000	1.000
12/31/2011	1.003	1.000	1.000	1.000	1.000	1.000	
12/31/2012	1.009	1.000	1.000	1.000	1.000		
12/31/2013	1.018	0.991	1.000	1.000			
12/31/2014	1.025	0.999	1.000				
12/31/2015	1.025	1.001					
12/31/2016	1.027						
12/31/2017							

Average Best 3 of 5

<u>27:15</u>	<u>39:27</u>
1.023	1.000

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>
12/31/2010	416,539,944	416,896,872	417,055,870	417,047,659	417,034,920	417,019,169	417,019,378	417,018,953
12/31/2011	425,930,027	434,235,963	434,335,946	434,319,554	434,279,591	434,292,316	434,292,240	
12/31/2012	466,092,326	477,638,925	477,700,364	477,346,559	477,376,096	477,374,201		
12/31/2013	530,241,848	541,430,451	540,656,091	540,607,061	540,632,224			
12/31/2014	585,953,801	599,802,001	599,399,858	599,504,123				
12/31/2015	619,097,767	631,797,472	631,518,230					
12/31/2016	644,821,189	658,002,698						
12/31/2017	664,941,932							

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>
12/31/2010	1.001	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2011	1.020	1.000	1.000	1.000	1.000	1.000	
12/31/2012	1.025	1.000	0.999	1.000	1.000		
12/31/2013	1.021	0.999	1.000	1.000			
12/31/2014	1.024	0.999	1.000				
12/31/2015	1.021	1.000					
12/31/2016	1.020						
12/31/2017							

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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MICHIGAN

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	1.981	4.359	0.4802	3.123	440,000
27 to 39 Months	1.476	1.735	0.5607	1.621	450,000
39 to 51 Months	1.095	0.943	0.7098	0.987	470,000
51 to 63 Months	1.018	1.075	0.6241	1.054	480,000
63 to 75 Months	1.008	0.869	0.5752	0.928	510,000
75 to 87 Months	0.977	1.000	0.5504	0.990	530,000
87 to 99 Months	1.002	1.000	0.5612	1.001	560,000
99 to 111 Months	0.997	1.000	0.6252	0.999	580,000
111 to 123 Months	0.998	1.000	0.5647	0.999	600,000
123 to 135 Months	1.000	1.000	0.5898	1.000	630,000
135 to 147 Months	0.999	1.000	0.5070	1.000	650,000
147 to 159 Months	1.001	1.000	0.5451	1.000	680,000
159 to 171 Months	1.001	1.000	0.5082	1.000	710,000
171 to 183 Months	1.001	1.000	0.5190	1.000	740,000
183 to 195 Months	1.000	1.000	0.5377	1.000	780,000
195 to 207 Months	1.000	1.000	0.5924	1.000	810,000
207 to 219 Months	1.000	1.000	0.5951	1.000	850,000
219 to 231 Months	1.000	1.000	0.4514	1.000	890,000
231 to 243 Months	1.000	1.000	0.2490	1.000	920,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year Ending	27:15	Loss Development From				75:63	87:75	99:87	111:99	123:111	135:123	147:135
		39:27	51:39	63:51								
12/31/2015			0.987	1.054	0.928	0.990	1.001	0.999	0.999	1.000	1.000	
12/31/2016		1.621	0.987	1.054	0.928	0.990	1.001	0.999	0.999	1.000	1.000	
12/31/2017	3.123	1.621	0.987	1.054	0.928	0.990	1.001	0.999	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
12/31/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.955
12/31/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.548
12/31/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	4.833

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

MICHIGAN

Completed Operations  
Bodily Injury  
Full Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.0628
27 to 39 Months	0.1237
39 to 51 Months	0.1146
51 to 63 Months	0.0926
63 to 75 Months	0.0520
75 to 87 Months	0.0201
87 to 99 Months	0.0124
99 to 111 Months	0.0109
111 to 123 Months	0.0062
123 to 135 Months	0.0036
135 to 147 Months	0.0051
147 to 159 Months	0.0027
159 to 171 Months	0.0013
171 to Ultimate	A multistate link ratio factor of 1.011 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>
	0.508	0.445	0.321	0.207	0.114	0.062	0.042
<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>
	0.030	0.019	0.013	0.009	0.004	0.001	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	334,666	964,828	0.321	309,710	644,376	1.011	651,456
12/31/2016	19,166	383,981	0.445	170,872	190,038	1.011	192,125
12/31/2017	1,271	473,071	0.508	240,320	241,591	1.011	244,247

(A) See Section G - Multistate Loss Development.

Note: Completed Operations Incremental ALAE Factors are calculated using multistate data.

MICHIGAN

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	1.151	1.211	0.6630	1.191	1,400,000
27 to 39 Months	1.062	1.077	0.6796	1.072	1,400,000
39 to 51 Months	1.035	0.908	0.6687	0.950	1,500,000
51 to 63 Months	1.034	1.021	0.6289	1.026	1,600,000
63 to 75 Months	1.024	0.990	0.6306	1.003	1,600,000
75 to 87 Months	1.020	1.002	0.6741	1.008	1,700,000
87 to 99 Months	1.024	1.022	0.7127	1.023	1,800,000
99 to 111 Months	1.042	0.997	0.7275	1.009	1,900,000
111 to 123 Months	1.018	1.001	0.7301	1.006	2,000,000
123 to 135 Months	1.025	1.000	0.7106	1.007	2,100,000
135 to 147 Months	1.008	0.991	0.6858	0.996	2,200,000
147 to 159 Months	1.005	1.000	0.6593	1.002	2,300,000
159 to 171 Months	1.001	1.000	0.6422	1.000	2,400,000
171 to 183 Months	1.003	1.000	0.6398	1.001	2,500,000
183 to 195 Months	1.001	1.000	0.6688	1.000	2,700,000
195 to 207 Months	1.000	1.000	0.6714	1.000	2,800,000
207 to 219 Months	1.000	1.000	0.6445	1.000	2,900,000
219 to 231 Months	1.000	1.000	0.4739	1.000	3,100,000
231 to 243 Months	1.000	1.000	0.2619	1.000	3,200,000
243 to ULTIMATE	The Multistate ratio has been used.				

Accident Year Ending	27:15	Loss Development From				75:63	87:75	99:87	111:99	123:111	135:123	147:135
		39:27	51:39	63:51								
12/31/2015			0.950	1.026	1.003	1.008	1.023	1.009	1.006	1.007	0.996	
12/31/2016		1.072	0.950	1.026	1.003	1.008	1.023	1.009	1.006	1.007	0.996	
12/31/2017	1.191	1.072	0.950	1.026	1.003	1.008	1.023	1.009	1.006	1.007	0.996	
		159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231	ULT:243		Factor
12/31/2015	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.029
12/31/2016	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.104
12/31/2017	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.314

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

MICHIGAN

Completed Operations  
Property Damage  
Full Coverage  
ALAE

Calculation of Cumulative Incremental Factors

(1)	(2)
EVALUATION PERIOD	MULTISTATE RATIO (A)
15 to 27 Months	0.0685
27 to 39 Months	0.0746
39 to 51 Months	0.0796
51 to 63 Months	0.0645
63 to 75 Months	0.0468
75 to 87 Months	0.0373
87 to 99 Months	0.0351
99 to 111 Months	0.0438
111 to 123 Months	0.0403
123 to 135 Months	0.0302
135 to 147 Months	0.0227
147 to 159 Months	0.0150
159 to 171 Months	0.0059
171 to Ultimate	A multistate link ratio factor of 1.029 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>
	0.564	0.496	0.421	0.342	0.277	0.230	0.193
<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>
	0.158	0.114	0.074	0.044	0.021	0.006	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	295,775	1,061,675	0.421	446,964	742,739	1.029	764,267
12/31/2016	288,230	2,216,189	0.496	1,099,230	1,387,460	1.029	1,427,687
12/31/2017	97,554	2,415,698	0.564	1,362,452	1,460,006	1.029	1,502,332

(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  
MICHIGAN  
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
12/31/1998	63,841	207,006	323,956	403,956	304,956	304,956	304,956	304,956	304,956	304,956	304,956
12/31/1999	203,792	379,292	436,892	545,608	499,308	500,808	477,308	477,308	477,308	477,308	427,308
12/31/2000	246,882	474,454	500,254	667,304	591,954	501,954	516,954	516,954	516,954	516,954	516,954
12/31/2001	243,702	257,395	268,834	261,085	232,798	232,798	232,798	232,798	232,798	232,798	232,798
12/31/2002	72,550	259,984	371,436	293,835	347,436	157,436	157,436	157,436	157,436	157,436	157,436
12/31/2003	286,172	308,339	301,738	396,839	378,339	416,340	408,339	408,339	408,339	408,339	408,339
12/31/2004	196,756	276,450	182,911	168,581	167,911	167,911	167,911	167,911	167,911	167,911	167,911
12/31/2005	144,000	244,851	289,851	238,851	238,851	313,851	238,492	238,492	238,492	238,492	238,492
12/31/2006	57,689	103,434	161,934	196,934	196,934	261,934	261,934	261,934	261,934	261,934	261,934
12/31/2007	1,500	142,000	159,500	265,508	355,500	305,500	305,500	405,500	405,500	405,500	405,500
12/31/2008	102,000	75,568	97,798	111,000	111,000	111,000	111,000	111,000	111,000	111,000	
12/31/2009	79,000	430,850	605,207	337,500	452,500	452,500	451,032	451,032	451,032		
12/31/2010	81,000	195,790	104,250	96,750	253,221	154,250	154,250	154,250			
12/31/2011	136,350	238,250	167,000	142,000	142,000	42,000	42,000				
12/31/2012	89,599	123,408	344,591	350,097	295,408	294,408					
12/31/2013	5,081	165,634	326,243	304,867	269,746						
12/31/2014	21,600	227,697	478,966	463,600							
12/31/2015	264,005	180,936	204,542								
12/31/2016	120,933	139,884									
12/31/2017	48,730										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	304,956	304,956	304,956	304,956	304,956	304,956	304,956	304,956	304,956
12/31/1999	427,308	427,308	427,308	427,308	427,308	427,308	427,308	427,308	
12/31/2000	516,954	516,954	516,954	516,954	516,954	516,954	516,954		
12/31/2001	232,798	232,798	232,798	232,798	232,798	232,798			
12/31/2002	157,436	157,436	157,436	157,436	157,436				
12/31/2003	408,339	408,339	408,339	408,339					
12/31/2004	167,911	167,911	167,911						
12/31/2005	238,492	238,492							
12/31/2006	261,934								

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MICHIGAN  
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
12/31/1998	3.243	1.565	1.247	0.755	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/1999	1.861	1.152	1.249	0.915	1.003	0.953	1.000	1.000	1.000	0.895	1.000
12/31/2000	1.922	1.054	1.334	0.887	0.848	1.030	1.000	1.000	1.000	1.000	1.000
12/31/2001	1.056	1.044	0.971	0.892	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2002	3.584	1.429	0.791	1.182	0.453	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2003	1.077	0.979	1.315	0.953	1.100	0.981	1.000	1.000	1.000	1.000	1.000
12/31/2004	1.405	0.662	0.922	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2005	1.700	1.184	0.824	1.000	1.314	0.760	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.793	1.566	1.216	1.000	1.330	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2007	94.667	1.123	1.665	1.339	0.859	1.000	1.327	1.000	1.000	1.000	1.000
12/31/2008	0.741	1.294	1.135	1.000	1.000	1.000	1.000	1.000	1.000		
12/31/2009	5.454	1.405	0.558	1.341	1.000	0.997	1.000	1.000			
12/31/2010	2.417	0.532	0.928	2.617	0.609	1.000	1.000				
12/31/2011	1.747	0.701	0.850	1.000	0.296	1.000					
12/31/2012	1.377	2.792	1.016	0.844	0.997						
12/31/2013	32.599	1.970	0.934	0.885							
12/31/2014	10.542	2.104	0.968								
12/31/2015	0.685	1.130									
12/31/2016	1.157										

3 Yr Mean	4.128	1.735	0.973	0.910	0.634	0.999	1.000	1.000	1.000	1.000	1.000
Best 3/5	4.359	1.735	0.943	1.075	0.869	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
12/31/1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
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					
12/31/2004	1.000	1.000						
12/31/2005	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 *

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
12/31/2013					0.869	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2014				1.075	0.869	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2015			0.943	1.075	0.869	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2016		1.735	0.943	1.075	0.869	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2017	4.359	1.735	0.943	1.075	0.869	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
12/31/2013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.869
12/31/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.934
12/31/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.881
12/31/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.528
12/31/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	6.662

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

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MICHIGAN  
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>
12/31/1998	0	15,743	9,916	101,642	229,180	230,024	230,273	230,273	230,273	230,273	230,273
12/31/1999	12,293	51,275	177,319	343,807	396,757	512,013	520,058	528,632	529,889	529,889	530,489
12/31/2000	19,091	97,413	192,721	274,498	309,600	311,457	323,290	323,290	323,290	323,290	323,290
12/31/2001	13,203	47,021	127,482	255,721	257,835	257,239	257,239	257,239	280,814	280,814	280,814
12/31/2002	11,493	57,118	92,325	134,858	180,488	120,243	120,243	120,243	120,243	120,243	120,243
12/31/2003	43,922	48,743	71,854	98,578	131,885	189,037	189,953	189,953	189,953	189,953	189,953
12/31/2004	7,024	41,438	78,387	84,259	85,729	85,729	85,729	85,729	85,729	85,729	85,729
12/31/2005	3,938	6,045	110,534	97,055	97,055	103,154	144,528	144,528	144,528	144,528	144,528
12/31/2006	8,083	27,384	33,648	41,425	52,004	53,590	53,590	53,590	53,590	53,590	53,590
12/31/2007	0	50,631	166,371	257,197	287,660	356,855	356,855	360,291	360,291	360,291	360,291
12/31/2008	14,999	37,112	56,419	61,733	87,776	94,820	94,820	94,820	94,820	94,820	
12/31/2009	0	41,456	127,295	203,263	330,483	331,236	331,236	331,236	331,236		
12/31/2010	4,086	44,186	51,313	73,340	163,342	231,730	247,837	247,837			
12/31/2011	16,176	264,405	306,707	318,295	336,486	338,246	338,246				
12/31/2012	16,345	64,357	125,951	202,213	193,444	193,057					
12/31/2013	1	17,459	86,823	253,450	291,487						
12/31/2014	7,020	89,030	249,126	270,050							
12/31/2015	20,276	109,282	236,193								
12/31/2016	5,235	19,166									
12/31/2017	1,271										

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>
12/31/1998	230,273	230,273	230,273	230,273	230,273	230,273	230,273	230,273	230,273
12/31/1999	530,489	530,489	530,489	530,489	530,489	530,489	530,489	534,604	
12/31/2000	323,290	323,290	324,462	324,462	324,462	324,462	324,462		
12/31/2001	280,814	280,814	280,814	280,814	280,814	281,840			
12/31/2002	120,243	120,243	120,243	120,243	120,243				
12/31/2003	189,953	189,953	189,953	189,953					
12/31/2004	85,729	85,729	85,729						
12/31/2005	144,528	144,528							
12/31/2006	53,590								

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MICHIGAN  
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>
12/31/1998	1,054,347	1,320,345	1,252,383	1,221,733	1,077,733	1,165,031	1,147,336	1,147,337	1,222,337	1,159,650	1,134,650
12/31/1999	1,126,119	1,247,529	1,278,946	1,614,192	1,705,547	1,664,458	1,693,458	1,657,185	1,658,185	1,667,185	1,657,185
12/31/2000	1,680,320	2,186,505	2,165,850	2,441,876	2,379,746	2,456,644	2,501,394	2,565,811	2,515,862	2,468,362	2,466,122
12/31/2001	1,244,314	1,320,882	1,494,566	1,599,934	1,566,380	1,611,081	1,627,081	1,597,132	1,602,132	1,602,392	1,602,081
12/31/2002	1,153,705	1,149,980	1,280,062	1,435,595	1,412,655	1,365,149	1,366,125	1,365,201	1,367,460	1,365,148	1,406,398
12/31/2003	1,395,660	1,431,150	1,444,896	1,436,992	1,423,139	1,407,250	1,470,018	1,438,671	1,439,671	1,453,670	1,453,670
12/31/2004	1,733,540	1,559,760	1,551,313	1,366,478	1,466,035	1,601,960	1,445,985	1,468,486	1,468,485	1,468,485	1,468,485
12/31/2005	1,015,230	1,210,672	1,361,896	1,409,084	1,521,668	1,535,478	1,578,337	1,578,338	1,568,337	1,568,337	1,545,926
12/31/2006	1,212,216	1,682,914	1,702,866	1,773,081	1,716,488	1,676,148	1,658,548	1,738,551	1,708,551	1,771,886	1,786,982
12/31/2007	1,121,525	1,524,885	1,655,089	1,846,958	1,819,281	1,847,577	1,860,003	1,815,733	1,815,733	1,815,733	1,815,733
12/31/2008	1,732,602	1,937,128	1,744,544	1,880,940	2,003,291	1,929,280	1,839,898	1,893,125	1,886,751	1,893,251	
12/31/2009	1,526,596	1,313,366	1,286,885	1,285,254	1,366,290	1,362,611	1,362,611	1,362,615	1,362,611		
12/31/2010	1,029,100	1,242,007	1,376,533	1,239,028	1,246,235	1,252,835	1,263,335	1,311,335			
12/31/2011	795,114	870,602	1,044,749	875,395	900,395	900,395	900,395				
12/31/2012	512,651	858,228	656,404	571,301	584,777	568,777					
12/31/2013	800,760	973,462	1,325,286	1,264,970	1,277,116						
12/31/2014	852,392	1,058,053	1,046,516	1,109,721							
12/31/2015	798,436	938,515	978,506								
12/31/2016	1,103,437	1,185,623									
12/31/2017	1,286,688										
<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>		
12/31/1998	1,135,650	1,135,650	1,135,650	1,135,650	1,135,650	1,135,650	1,135,650	1,135,650	1,135,650		
12/31/1999	1,657,185	1,657,185	1,657,185	1,657,185	1,657,185	1,657,185	1,657,185	1,657,185			
12/31/2000	2,465,811	2,465,811	2,465,811	2,465,811	2,465,811	2,465,811	2,465,811				
12/31/2001	1,602,081	1,602,081	1,602,081	1,602,081	1,597,081	1,597,081					
12/31/2002	1,384,648	1,384,648	1,384,648	1,384,648	1,384,648						
12/31/2003	1,453,670	1,453,670	1,453,670	1,453,670							
12/31/2004	1,468,485	1,468,485	1,468,485								
12/31/2005	1,528,337	1,528,337									
12/31/2006	1,739,982										



COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MICHIGAN  
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
12/31/1998	1.252	0.949	0.976	0.882	1.081	0.985	1.000	1.065	0.949	0.978	1.001
12/31/1999	1.108	1.025	1.262	1.057	0.976	1.017	0.979	1.001	1.005	0.994	1.000
12/31/2000	1.301	0.991	1.127	0.975	1.032	1.018	1.026	0.981	0.981	0.999	1.000
12/31/2001	1.062	1.131	1.071	0.979	1.029	1.010	0.982	1.003	1.000	1.000	1.000
12/31/2002	0.997	1.113	1.122	0.984	0.966	1.001	0.999	1.002	0.998	1.030	0.985
12/31/2003	1.025	1.010	0.995	0.990	0.989	1.045	0.979	1.001	1.010	1.000	1.000
12/31/2004	0.900	0.995	0.881	1.073	1.093	0.903	1.016	1.000	1.000	1.000	1.000
12/31/2005	1.193	1.125	1.035	1.080	1.009	1.028	1.000	0.994	1.000	0.986	0.989
12/31/2006	1.388	1.012	1.041	0.968	0.976	0.989	1.048	0.983	1.037	1.009	0.974
12/31/2007	1.360	1.085	1.116	0.985	1.016	1.007	0.976	1.000	1.000	1.000	
12/31/2008	1.118	0.901	1.078	1.065	0.963	0.954	1.029	0.997	1.003		
12/31/2009	0.860	0.980	0.999	1.063	0.997	1.000	1.000	1.000			
12/31/2010	1.207	1.108	0.900	1.006	1.005	1.008	1.038				
12/31/2011	1.095	1.200	0.838	1.029	1.000	1.000					
12/31/2012	1.674	0.765	0.870	1.024	0.973						
12/31/2013	1.216	1.361	0.954	1.010							
12/31/2014	1.241	0.989	1.060								
12/31/2015	1.175	1.043									
12/31/2016	1.074										

3 Yr Mean	1.163	1.131	0.961	1.021	0.993	1.003	1.022	0.999	1.013	0.998	0.988
Best 3/5	1.211	1.077	0.908	1.021	0.990	1.002	1.022	0.997	1.001	1.000	0.991

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
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	0.997	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								
12/31/2004	1.000	1.000									
12/31/2005	1.000										
3 Yr Mean	1.000	1.000	1.000	0.999	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 *			

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
12/31/2013					0.990	1.002	1.022	0.997	1.001	1.000	0.991
12/31/2014				1.021	0.990	1.002	1.022	0.997	1.001	1.000	0.991
12/31/2015			0.908	1.021	0.990	1.002	1.022	0.997	1.001	1.000	0.991
12/31/2016		1.077	0.908	1.021	0.990	1.002	1.022	0.997	1.001	1.000	0.991
12/31/2017	1.211	1.077	0.908	1.021	0.990	1.002	1.022	0.997	1.001	1.000	0.991

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/Ult	FACTORS
12/31/2013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.003
12/31/2014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.024
12/31/2015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	0.930
12/31/2016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.001
12/31/2017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.212

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

COMPLETED OPERATIONS (Subline Code 336)  
FULL COVERAGE  
MICHIGAN  
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>
12/31/1998	16,898	56,831	148,693	204,772	262,789	296,940	440,057	440,465	440,465	456,561	456,561
12/31/1999	17,291	184,042	346,804	503,815	620,543	665,441	687,429	686,043	686,043	686,043	686,043
12/31/2000	77,221	202,473	423,604	563,427	663,608	938,434	970,318	1,014,566	1,010,442	1,010,442	1,010,670
12/31/2001	64,997	208,992	523,511	660,831	696,892	724,392	742,153	749,444	750,853	753,810	753,810
12/31/2002	79,667	202,912	354,978	554,832	630,220	675,766	673,369	706,067	751,147	745,642	749,782
12/31/2003	168,856	441,212	745,356	820,080	835,275	837,040	851,724	918,591	928,614	943,743	943,743
12/31/2004	176,696	361,881	578,703	656,149	689,470	703,017	775,121	788,271	788,271	788,271	788,271
12/31/2005	62,056	235,908	411,218	551,629	638,786	679,734	691,975	703,380	726,264	730,724	731,718
12/31/2006	140,994	336,484	576,838	737,117	839,980	839,305	839,971	900,054	886,978	901,606	913,133
12/31/2007	71,895	191,912	323,655	471,813	546,670	620,670	644,887	644,887	644,972	644,972	644,972
12/31/2008	135,258	404,466	628,200	649,305	796,337	907,800	975,330	996,908	1,012,321	1,020,032	
12/31/2009	146,727	240,836	417,007	683,605	735,614	748,965	782,072	863,080	878,364		
12/31/2010	158,320	594,262	1,108,789	1,293,653	1,314,170	1,318,710	1,322,663	1,325,701			
12/31/2011	73,217	125,756	149,898	203,876	211,073	252,700	252,853				
12/31/2012	52,598	109,680	158,250	168,536	251,542	286,296					
12/31/2013	93,914	180,633	308,977	466,221	486,415						
12/31/2014	95,545	165,861	365,758	684,096							
12/31/2015	64,721	148,453	291,860								
12/31/2016	108,333	264,654									
12/31/2017	97,554										

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>
12/31/1998	461,877	462,302	462,302	462,302	462,302	462,302	462,302	462,302	462,302
12/31/1999	686,043	686,043	686,043	686,043	686,043	686,043	686,043	686,043	
12/31/2000	1,010,670	1,010,670	1,010,670	1,010,670	1,010,670	1,010,670	1,010,670		
12/31/2001	753,810	753,810	753,810	753,810	753,809	753,809			
12/31/2002	752,640	752,640	752,640	752,640	752,640				
12/31/2003	943,743	943,743	943,743	943,743					
12/31/2004	788,271	788,271	788,271						
12/31/2005	731,718	731,718							
12/31/2006	907,633								

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
12/31/1998	5,382,417	7,749,839	9,931,451	10,446,493	10,771,244	11,071,766	11,629,912	12,194,086	11,813,168	11,491,537	11,513,144
12/31/1999	5,749,137	8,017,859	10,639,569	12,401,376	12,443,087	12,699,247	12,379,843	12,193,739	12,195,292	12,194,842	12,217,636
12/31/2000	3,349,135	7,571,175	9,596,988	11,428,849	11,198,782	11,574,625	11,068,388	11,131,573	11,072,222	11,110,866	11,108,287
12/31/2001	3,393,318	7,201,271	9,537,740	10,536,173	11,011,306	11,000,593	10,913,285	10,668,162	10,563,560	10,462,107	10,483,477
12/31/2002	3,083,798	7,149,689	9,605,824	10,234,120	11,261,210	11,427,625	11,642,502	11,849,223	12,068,855	12,173,690	12,207,408
12/31/2003	3,686,338	6,728,413	10,123,232	10,766,319	10,579,933	10,391,292	10,165,994	10,128,188	10,111,720	10,148,121	10,199,131
12/31/2004	4,704,040	7,310,503	10,048,328	11,065,060	11,123,482	10,632,087	10,944,868	10,900,102	10,883,690	10,918,853	11,023,711
12/31/2005	4,237,064	7,327,137	10,408,250	11,613,602	11,488,082	11,664,862	11,980,476	11,915,964	11,833,171	11,930,107	11,885,653
12/31/2006	4,875,979	8,998,528	13,044,800	13,665,727	13,510,110	13,707,180	13,575,413	13,773,042	13,684,331	13,599,010	13,525,900
12/31/2007	4,398,986	8,656,290	11,586,599	12,845,738	12,838,601	12,816,133	12,722,889	12,863,528	13,060,436	12,845,961	12,825,548
12/31/2008	4,368,007	8,180,835	11,883,905	12,415,028	12,285,724	12,286,357	12,948,682	12,679,778	12,736,180	12,691,939	
12/31/2009	5,249,161	8,550,421	11,893,434	12,415,395	12,397,832	12,814,744	12,319,464	12,306,881	12,143,478		
12/31/2010	5,375,717	10,504,029	12,940,878	14,141,716	14,991,402	15,236,317	14,837,641	14,789,481			
12/31/2011	4,810,618	7,893,315	11,660,517	13,829,197	14,132,196	13,711,111	13,237,756				
12/31/2012	3,978,800	8,020,892	13,885,712	14,228,788	14,642,367	14,749,517					
12/31/2013	4,817,311	10,398,687	12,844,592	14,543,624	14,580,323						
12/31/2014	5,613,035	8,743,838	13,013,349	13,788,841							
12/31/2015	4,792,467	8,479,671	12,413,824								
12/31/2016	3,676,027	8,927,860									
12/31/2017	5,346,513										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	11,704,244	11,676,419	11,890,604	11,870,843	11,870,843	11,876,343	11,751,657	11,770,895	11,736,807
12/31/1999	12,174,868	12,136,600	12,122,727	12,122,426	12,122,427	12,122,426	12,122,426	12,122,425	
12/31/2000	11,144,580	11,197,424	11,140,073	11,193,327	11,188,323	11,203,322	11,203,322		
12/31/2001	10,534,479	10,538,161	10,575,203	10,618,410	10,595,046	10,564,845			
12/31/2002	12,140,613	12,171,146	12,315,380	12,316,090	12,305,052				
12/31/2003	10,234,635	10,247,693	10,286,435	10,266,434					
12/31/2004	11,087,981	11,284,441	11,125,197						
12/31/2005	11,778,914	11,546,887							
12/31/2006	13,511,099								

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
12/31/1998	1.440	1.282	1.052	1.031	1.028	1.050	1.049	0.969	0.973	1.002	1.017
12/31/1999	1.395	1.327	1.166	1.003	1.021	0.975	0.985	1.000	1.000	1.002	0.996
12/31/2000	2.261	1.268	1.191	0.980	1.034	0.956	1.006	0.995	1.003	1.000	1.003
12/31/2001	2.122	1.324	1.105	1.045	0.999	0.992	0.978	0.990	0.990	1.002	1.005
12/31/2002	2.318	1.344	1.065	1.100	1.015	1.019	1.018	1.019	1.009	1.003	0.995
12/31/2003	1.825	1.505	1.064	0.983	0.982	0.978	0.996	0.998	1.004	1.005	1.003
12/31/2004	1.554	1.375	1.101	1.005	0.956	1.029	0.996	0.998	1.003	1.010	1.006
12/31/2005	1.729	1.421	1.116	0.989	1.015	1.027	0.995	0.993	1.008	0.996	0.991
12/31/2006	1.845	1.450	1.048	0.989	1.015	0.990	1.015	0.994	0.994	0.995	0.999
12/31/2007	1.968	1.339	1.109	0.999	0.998	0.993	1.011	1.015	0.984	0.998	
12/31/2008	1.873	1.453	1.045	0.990	1.000	1.054	0.979	1.004	0.997		
12/31/2009	1.629	1.391	1.044	0.999	1.034	0.961	0.999	0.987			
12/31/2010	1.954	1.232	1.093	1.060	1.016	0.974	0.997				
12/31/2011	1.641	1.477	1.186	1.022	0.970	0.965					
12/31/2012	2.016	1.731	1.025	1.029	1.007						
12/31/2013	2.159	1.235	1.132	1.003							
12/31/2014	1.558	1.488	1.060								
12/31/2015	1.769	1.464									
12/31/2016	2.429										

3 Yr Mean	1.919	1.396	1.072	1.018	0.998	0.967	0.992	1.002	0.992	0.996	0.999
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Best 3/5	1.981	1.476	1.095	1.018	1.008	0.977	1.002	0.997	0.998	1.000	0.999
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A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	0.998	1.018	0.998	1.000	1.000	0.990	1.002	0.997			
12/31/1999	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000 *			
12/31/2000	1.005	0.995	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	1.000 *	1.000 *	1.000 *			
12/31/2002	1.003	1.012	1.000	0.999	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2003	1.001	1.004	0.998								
12/31/2004	1.018	0.986									
12/31/2005	0.980										

3 Yr Mean	1.000	1.001	1.001	0.999	0.999 @	0.997 @	1.001 @	0.997 @			
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Best 3/5	1.001	1.001	1.001	1.000	1.000 *	1.000 *	1.000 *	1.000 *			
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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
12/31/2013					1.008	0.977	1.002	0.997	0.998	1.000	0.999
12/31/2014				1.018	1.008	0.977	1.002	0.997	0.998	1.000	0.999
12/31/2015			1.095	1.018	1.008	0.977	1.002	0.997	0.998	1.000	0.999
12/31/2016		1.476	1.095	1.018	1.008	0.977	1.002	0.997	0.998	1.000	0.999
12/31/2017	1.981	1.476	1.095	1.018	1.008	0.977	1.002	0.997	0.998	1.000	0.999

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	0.984
12/31/2014	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.002
12/31/2015	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.097
12/31/2016	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	1.619
12/31/2017	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000*	3.207

\* 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
12/31/1998	106,123	395,586	680,640	916,686	1,171,521	1,186,605	901,002	965,932	1,072,428	1,157,485	1,143,685
12/31/1999	404,714	874,417	1,899,163	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	529,262	1,176,368	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	354,125	744,154	1,044,107	1,065,722	983,082	1,063,864	1,310,140	1,408,357	1,360,107	1,347,307	1,354,107
12/31/2002	229,242	655,739	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	269,310	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	1,141,746	1,111,605	1,212,958	1,069,928	1,159,474	1,160,802	1,128,902	1,262,811	1,208,236
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	324,368	1,022,453	961,110	1,100,843	1,193,090	1,306,290	1,246,602	1,214,427	1,189,453	1,188,954	1,237,004
12/31/2008	316,396	864,693	913,403	1,050,595	1,063,780	1,242,728	1,336,184	1,473,931	1,486,978	1,424,520	
12/31/2009	586,791	1,045,400	1,069,085	1,263,752	1,084,741	1,154,076	1,098,109	1,097,244	1,038,243		
12/31/2010	641,422	781,803	1,443,275	2,008,073	1,739,838	1,672,694	1,597,404	1,643,905			
12/31/2011	270,205	819,627	1,330,077	1,689,436	1,722,481	1,706,863	1,706,863				
12/31/2012	383,511	1,149,597	1,593,586	1,772,309	1,649,357	1,695,210					
12/31/2013	1,675,399	2,467,513	2,712,232	2,786,946	2,729,808						
12/31/2014	2,159,321	2,831,984	3,298,850	3,463,909							
12/31/2015	1,195,104	1,659,445	2,141,952								
12/31/2016	1,265,885	2,626,725									
12/31/2017	546,720										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	1,121,445	1,121,445	1,121,445	1,108,985	1,108,985	1,121,485	1,208,985	1,208,985	1,208,985
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	
12/31/2000	1,538,613	1,533,111	1,503,111	1,570,611	1,565,611	1,565,611	1,566,111		
12/31/2001	1,307,912	1,307,915	1,355,912	1,320,911	1,320,912	1,345,912			
12/31/2002	1,467,700	1,579,904	1,581,334	1,581,333	1,581,333				
12/31/2003	1,446,695	1,424,195	1,423,696	1,423,696					
12/31/2004	828,318	828,219	833,218						
12/31/2005	1,248,237	1,322,207							
12/31/2006	1,555,316								

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
12/31/1998	3.728	1.721	1.347	1.278	1.013	0.759	1.072	1.110	1.079	0.988	0.981
12/31/1999	2.161	2.172	1.178	1.027	0.788	0.987	1.033	1.021	1.019	1.037	0.997
12/31/2000	1.509	2.223	1.242	0.856	1.458	0.902	0.928	1.049	0.994	0.955	1.011
12/31/2001	2.101	1.403	1.021	0.922	1.082	1.231	1.075	0.966	0.991	1.005	0.966
12/31/2002	2.860	1.714	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	2.306	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	1.092	0.974	1.091	0.882	1.084	1.001	0.973	1.119	0.957	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	3.152	0.940	1.145	1.084	1.095	0.954	0.974	0.979	1.000	1.040	
12/31/2008	2.733	1.056	1.150	1.013	1.168	1.075	1.103	1.009	0.958		
12/31/2009	1.782	1.023	1.182	0.858	1.064	0.952	0.999	0.946			
12/31/2010	1.219	1.846	1.391	0.866	0.961	0.955	1.029				
12/31/2011	3.033	1.623	1.270	1.020	0.991	1.000					
12/31/2012	2.998	1.386	1.112	0.931	1.028						
12/31/2013	1.473	1.099	1.028	0.979							
12/31/2014	1.312	1.165	1.050								
12/31/2015	1.389	1.291									
12/31/2016	2.075										

3 Yr Mean      1.592      1.185      1.063      0.977      0.993      0.969      1.044      0.978      0.977      0.979      1.002

Best 3/5      1.646      1.281      1.144      0.925      1.028      0.970      1.044      0.987      0.986      0.973      0.991

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.000	1.000	0.989	1.000	1.011	1.078	1.000	1.000			
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	1.002 *	1.000 *			
12/31/2001	1.000	1.037	0.974	1.000	1.019	1.004 *	1.002 *	1.000 *			
12/31/2002	1.076	1.001	1.000	1.000	1.000 *	1.004 *	1.002 *	1.000 *			
12/31/2003	0.984	1.000	1.000								
12/31/2004	1.000	1.006									
12/31/2005	1.059										

3 Yr Mean      1.014      1.002      0.991      0.999      1.006 @      1.026 @      1.000 @      1.000 @

Best 3/5      1.020      1.002      1.000      1.000      1.004 \*      1.003 \*      1.001 \*      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
12/31/2013					1.028	0.970	1.044	0.987	0.986	0.973	0.991
12/31/2014				0.925	1.028	0.970	1.044	0.987	0.986	0.973	0.991
12/31/2015			1.144	0.925	1.028	0.970	1.044	0.987	0.986	0.973	0.991
12/31/2016		1.281	1.144	0.925	1.028	0.970	1.044	0.987	0.986	0.973	0.991
12/31/2017	1.646	1.281	1.144	0.925	1.028	0.970	1.044	0.987	0.986	0.973	0.991

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.020	1.002	1.000	1.000	1.004	1.003	1.001	1.000	1.000*	1.006
12/31/2014	1.020	1.002	1.000	1.000	1.004	1.003	1.001	1.000	1.000*	0.931
12/31/2015	1.020	1.002	1.000	1.000	1.004	1.003	1.001	1.000	1.000*	1.065
12/31/2016	1.020	1.002	1.000	1.000	1.004	1.003	1.001	1.000	1.000*	1.364
12/31/2017	1.020	1.002	1.000	1.000	1.004	1.003	1.001	1.000	1.000*	2.246

\* 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
12/31/1998	1,012,271	2,348,842	4,112,802	5,182,512	5,813,250	12,480,107	10,604,765	11,385,664	11,547,685	11,481,993	11,529,180
12/31/1999	939,072	1,726,111	3,327,048	5,471,691	6,467,594	7,363,565	7,335,524	7,949,068	8,566,762	8,690,714	8,973,317
12/31/2000	674,323	2,617,777	3,850,487	6,190,738	6,833,426	7,416,763	7,457,113	7,481,893	7,646,436	8,102,365	8,114,194
12/31/2001	653,560	2,154,996	4,065,005	6,286,557	7,688,175	8,477,243	9,147,867	9,148,197	9,211,226	9,221,453	9,193,699
12/31/2002	731,998	2,916,605	4,737,295	8,050,078	8,938,150	10,352,461	10,692,516	11,056,247	11,310,248	11,327,231	11,410,096
12/31/2003	1,059,929	2,257,224	4,717,758	7,545,398	8,428,716	9,094,136	9,744,227	9,740,289	9,611,654	9,650,675	9,702,823
12/31/2004	541,344	1,852,152	4,496,054	7,003,862	8,823,022	10,014,284	11,219,057	10,852,569	10,923,710	10,952,116	11,275,394
12/31/2005	737,161	1,347,695	3,794,920	6,362,216	7,745,995	8,504,076	9,060,380	9,359,776	9,709,212	10,001,765	10,172,304
12/31/2006	915,351	3,689,840	6,463,802	8,349,218	9,621,204	10,826,356	11,391,500	11,717,670	11,991,919	12,006,894	11,986,209
12/31/2007	818,839	2,535,416	5,570,438	9,312,279	10,422,393	11,028,880	11,321,576	11,605,887	11,787,267	11,899,978	11,913,524
12/31/2008	826,229	2,217,025	4,794,351	7,208,995	9,311,773	10,564,469	11,312,431	11,875,870	12,574,080	15,831,927	
12/31/2009	549,105	2,050,691	4,434,228	6,931,335	9,301,142	9,926,780	10,287,584	10,596,388	10,608,501		
12/31/2010	846,989	2,933,834	5,793,148	8,843,773	11,579,858	12,864,766	14,006,841	14,078,770			
12/31/2011	779,950	2,145,656	4,693,828	8,246,454	11,608,983	12,939,643	13,085,720				
12/31/2012	347,165	2,237,908	6,226,446	9,180,244	11,098,000	13,794,368					
12/31/2013	601,939	2,476,227	5,895,054	9,526,740	11,740,793						
12/31/2014	550,560	2,377,786	5,708,589	7,792,110							
12/31/2015	472,258	1,894,196	4,934,361								
12/31/2016	412,617	1,852,627									
12/31/2017	660,305										

A.Y.E	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	11,910,138	12,244,746	12,543,160	12,686,410	12,766,609	12,819,452	12,886,134	13,011,151	13,080,009
12/31/1999	9,167,838	9,064,802	9,056,342	9,057,481	9,057,706	9,058,174	9,056,276	9,060,877	
12/31/2000	8,228,110	8,224,592	8,213,906	8,219,719	8,223,475	8,235,702	8,243,234		
12/31/2001	9,226,163	9,214,887	9,227,247	9,297,000	9,301,647	9,311,848			
12/31/2002	11,476,367	11,660,885	11,747,003	11,849,320	11,854,760				
12/31/2003	9,814,109	9,851,746	9,929,044	9,939,645					
12/31/2004	11,458,806	11,584,918	11,536,279						
12/31/2005	10,312,614	10,100,905							
12/31/2006	12,069,243								

Link Ratios: 171 to Ultimate									
A.Y.E	183:171	195:183	207:195	219:207	231:219	243:231	Ult:243		
12/31/1998	1.011	1.006	1.004	1.005	1.010	1.005	1.004	*	
12/31/1999	1.000	1.000	1.000	1.000	1.001	1.001	1.004	*	
12/31/2000	1.001	1.000	1.001	1.001	1.001	*	1.001	*	
12/31/2001	1.008	1.000	1.001	1.001	*	1.001	*	1.004	*
12/31/2002	1.009	1.000	1.000	*	1.001	*	1.001	*	1.004
12/31/2003	1.001								

Best 3/5      1.003      1.000      1.001 \*      1.001 \*      1.001 \*      1.001 \*      1.004 \*

171 to Ultimate Factor: 1.011

\* 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	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
12/31/1998	1,336,571	1,763,960	1,069,710	630,738	6,666,857	-1,875,342	780,899	162,021	-65,692	47,187	380,958	334,608	298,414
12/31/1999	787,039	1,600,937	2,144,643	995,903	895,971	-28,041	613,544	617,694	123,952	282,603	194,521	-103,036	-8,460
12/31/2000	1,943,454	1,232,710	2,340,251	642,688	583,337	40,350	24,780	164,543	455,929	11,829	113,916	-3,518	-10,686
12/31/2001	1,501,436	1,910,009	2,221,552	1,401,618	789,068	670,624	330	63,029	10,227	-27,754	32,464	-11,276	12,360
12/31/2002	2,184,607	1,820,690	3,312,783	888,072	1,414,311	340,055	363,731	254,001	16,983	82,865	66,271	184,518	86,118
12/31/2003	1,197,295	2,460,534	2,827,640	883,318	665,420	650,091	-3,938	-128,635	39,021	52,148	111,286	37,637	77,298
12/31/2004	1,310,808	2,643,902	2,507,808	1,819,160	1,191,262	1,204,773	-366,488	71,141	28,406	323,278	183,412	126,112	-48,639
12/31/2005	610,534	2,447,225	2,567,296	1,383,779	758,081	556,304	299,396	349,436	292,553	170,539	140,310	-211,709	
12/31/2006	2,774,489	2,773,962	1,885,416	1,271,986	1,205,152	565,144	326,170	274,249	14,975	-20,685	83,034		
12/31/2007	1,716,577	3,035,022	3,741,841	1,110,114	606,487	292,696	284,311	181,380	112,711	13,546			
12/31/2008	1,390,796	2,577,326	2,414,644	2,102,778	1,252,696	747,962	563,439	698,210	3,257,847				
12/31/2009	1,501,586	2,383,537	2,497,107	2,369,807	625,638	360,804	308,804	12,113					
12/31/2010	2,086,845	2,859,314	3,050,625	2,736,085	1,284,908	1,142,075	71,929						
12/31/2011	1,365,706	2,548,172	3,552,626	3,362,529	1,330,660	146,077							
12/31/2012	1,890,743	3,988,538	2,953,798	1,917,756	2,696,368								
12/31/2013	1,874,288	3,418,827	3,418,827	2,214,053									
12/31/2014	1,827,226	3,330,803	2,083,521										
12/31/2015	1,421,938	3,040,165											
12/31/2016	1,440,010												

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
12/31/1998	0.0611	0.0806	0.0489	0.0288	0.3046	-0.0857	0.0357	0.0074	-0.0030	0.0022	0.0174	0.0153	0.0136
12/31/1999	0.0371	0.0755	0.1011	0.0470	0.0422	-0.0013	0.0289	0.0291	0.0058	0.0133	0.0092	-0.0049	-0.0004
12/31/2000	0.0945	0.0600	0.1138	0.0313	0.0284	0.0020	0.0012	0.0080	0.0222	0.0006	0.0055	-0.0002	-0.0005
12/31/2001	0.0810	0.1031	0.1199	0.0756	0.0426	0.0362	0.0000	0.0034	0.0006	-0.0015	0.0018	-0.0006	0.0007
12/31/2002	0.0951	0.0792	0.1442	0.0387	0.0616	0.0148	0.0158	0.0111	0.0007	0.0036	0.0029	0.0080	0.0037
12/31/2003	0.0684	0.1405	0.1614	0.0504	0.0380	0.0371	-0.0002	-0.0073	0.0022	0.0030	0.0064	0.0021	0.0044
12/31/2004	0.0674	0.1360	0.1290	0.0936	0.0613	0.0620	-0.0189	0.0037	0.0015	0.0166	0.0094	0.0065	-0.0025
12/31/2005	0.0255	0.1021	0.1071	0.0577	0.0316	0.0232	0.0125	0.0146	0.0122	0.0071	0.0059	-0.0088	
12/31/2006	0.1049	0.1049	0.0713	0.0481	0.0456	0.0214	0.0123	0.0104	0.0006	-0.0008	0.0031		
12/31/2007	0.0730	0.1290	0.1591	0.0472	0.0258	0.0124	0.0121	0.0077	0.0048	0.0006			
12/31/2008	0.0611	0.1133	0.1061	0.0924	0.0550	0.0329	0.0248	0.0307	0.1432				
12/31/2009	0.0625	0.0991	0.1039	0.0986	0.0260	0.0150	0.0128	0.0005					
12/31/2010	0.0745	0.1021	0.1089	0.0977	0.0459	0.0408	0.0026						
12/31/2011	0.0566	0.1056	0.1472	0.1393	0.0551	0.0061							
12/31/2012	0.0649	0.1370	0.1014	0.0658	0.0926								
12/31/2013	0.0689	0.1258	0.1336	0.0814									
12/31/2014	0.0712	0.1298	0.0812										
12/31/2015	0.0540	0.1154											
12/31/2016	0.0547												

Best 3/5	0.0628	0.1237	0.1146	0.0926	0.0520	0.0201	0.0124	0.0109	0.0062	0.0036	0.0051	0.0027	0.0013
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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
12/31/1998	18,113,843	23,332,101	26,686,591	32,926,021	36,994,732	40,149,460	42,614,367	43,842,084	44,731,840	46,036,717	46,907,927
12/31/1999	18,141,667	23,122,030	26,816,232	30,454,925	33,256,684	36,769,286	38,529,479	39,624,399	40,658,450	41,616,062	41,693,822
12/31/2000	21,618,596	29,922,202	35,646,440	39,939,316	42,811,024	45,600,549	49,510,389	51,452,752	52,307,599	53,501,448	53,882,110
12/31/2001	25,121,363	32,994,877	39,760,370	43,949,225	47,621,401	49,315,544	50,409,676	52,681,785	54,248,972	54,769,978	54,836,097
12/31/2002	25,879,796	34,813,817	39,479,615	44,435,810	45,646,147	46,673,529	48,693,563	50,562,427	51,522,666	51,114,736	51,931,355
12/31/2003	27,934,421	33,376,843	37,758,441	38,557,656	41,290,434	42,463,838	42,907,196	44,009,454	45,175,715	45,412,461	45,966,469
12/31/2004	28,708,795	35,259,437	39,343,108	43,461,954	45,902,150	47,706,885	49,545,316	50,507,362	52,362,307	53,059,298	54,553,998
12/31/2005	25,930,630	32,239,645	36,518,740	41,119,382	43,550,624	46,329,538	49,090,875	50,415,703	52,061,304	52,312,269	53,313,682
12/31/2006	36,116,254	43,863,748	49,957,500	55,227,329	60,916,125	62,940,227	64,684,213	64,162,602	65,608,294	66,435,392	68,351,285
12/31/2007	40,765,577	49,475,433	58,383,620	61,274,195	64,121,906	66,326,890	67,400,382	69,385,970	71,174,306	73,271,810	75,745,257
12/31/2008	51,156,205	60,112,314	66,296,326	68,890,062	71,339,035	72,727,266	74,751,551	76,112,641	84,252,031	92,238,886	
12/31/2009	55,734,185	64,686,433	71,421,476	73,754,190	75,542,315	76,392,988	77,965,828	81,099,473	86,482,396		
12/31/2010	54,461,530	63,523,966	67,259,875	69,393,234	71,828,242	73,032,362	74,212,026	76,006,564			
12/31/2011	54,000,680	60,947,303	63,439,948	63,706,524	65,238,768	67,937,476	69,483,417				
12/31/2012	47,501,598	54,053,994	55,788,886	58,742,622	61,545,513	63,776,319					
12/31/2013	43,439,843	47,854,780	51,967,689	53,830,229	56,203,061						
12/31/2014	43,586,316	50,330,591	53,279,039	55,194,896							
12/31/2015	41,066,805	47,577,565	52,259,353								
12/31/2016	37,724,326	47,818,955									
12/31/2017	37,939,531										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	47,064,626	47,216,990	47,155,971	47,154,335	47,325,739	47,280,018	47,279,411	47,213,292	47,214,126
12/31/1999	41,912,978	42,098,081	41,988,854	42,192,295	42,133,542	42,252,840	42,252,058	42,326,869	
12/31/2000	54,401,981	54,342,887	54,336,379	54,365,784	54,253,358	54,123,659	54,170,072		
12/31/2001	55,350,472	54,967,769	55,097,517	55,292,943	55,273,656	55,293,513			
12/31/2002	52,125,587	52,065,195	52,166,986	52,177,915	52,598,843				
12/31/2003	46,018,279	46,448,885	46,866,378	47,395,216					
12/31/2004	55,374,842	55,816,618	55,761,459						
12/31/2005	53,615,482	53,976,771							
12/31/2006	69,290,100								

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
12/31/1998	1.288	1.144	1.234	1.124	1.085	1.061	1.029	1.020	1.029	1.019	1.003
12/31/1999	1.275	1.160	1.136	1.092	1.106	1.048	1.028	1.026	1.024	1.002	1.005
12/31/2000	1.384	1.191	1.120	1.072	1.065	1.086	1.039	1.017	1.023	1.007	1.010
12/31/2001	1.313	1.205	1.105	1.084	1.036	1.022	1.045	1.030	1.010	1.001	1.009
12/31/2002	1.345	1.134	1.126	1.027	1.023	1.043	1.038	1.019	0.992	1.016	1.004
12/31/2003	1.195	1.131	1.021	1.071	1.028	1.010	1.026	1.027	1.005	1.012	1.001
12/31/2004	1.228	1.116	1.105	1.056	1.039	1.039	1.019	1.037	1.013	1.028	1.015
12/31/2005	1.243	1.133	1.126	1.059	1.064	1.060	1.027	1.033	1.005	1.019	1.006
12/31/2006	1.215	1.139	1.105	1.103	1.033	1.028	0.992	1.023	1.013	1.029	1.014
12/31/2007	1.214	1.180	1.050	1.046	1.034	1.016	1.029	1.026	1.029	1.034	
12/31/2008	1.175	1.103	1.039	1.036	1.019	1.028	1.018	1.107	1.095		
12/31/2009	1.161	1.104	1.033	1.024	1.011	1.021	1.040	1.066			
12/31/2010	1.166	1.059	1.032	1.035	1.017	1.016	1.024				
12/31/2011	1.129	1.041	1.004	1.024	1.041	1.023					
12/31/2012	1.138	1.032	1.053	1.048	1.036						
12/31/2013	1.102	1.086	1.036	1.044							
12/31/2014	1.155	1.059	1.036								
12/31/2015	1.159	1.098									
12/31/2016	1.268										
3 Yr Mean	1.194	1.081	1.042	1.039	1.031	1.020	1.027	1.066	1.046	1.027	1.012
Best 3/5	1.151	1.062	1.035	1.034	1.024	1.020	1.024	1.042	1.018	1.025	1.008

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.003	0.999	1.000	1.004	0.999	1.000	0.999	1.000			
12/31/1999	1.004	0.997	1.005	0.999	1.003	1.000	1.002	1.000 *			
12/31/2000	0.999	1.000	1.001	0.998	0.998	1.001	1.000 *	1.000 *			
12/31/2001	0.993	1.002	1.004	1.000	1.000	1.000 *	1.000 *	1.000 *			
12/31/2002	0.999	1.002	1.000	1.008	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2003	1.009	1.009	1.011								
12/31/2004	1.008	0.999									
12/31/2005	1.007										
3 Yr Mean	1.008	1.003	1.005	1.002	1.000 @	1.000 @	1.001 @	1.000 @			
Best 3/5	1.005	1.001	1.003	1.001	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
12/31/2013					1.024	1.020	1.024	1.042	1.018	1.025	1.008
12/31/2014				1.034	1.024	1.020	1.024	1.042	1.018	1.025	1.008
12/31/2015			1.035	1.034	1.024	1.020	1.024	1.042	1.018	1.025	1.008
12/31/2016		1.062	1.035	1.034	1.024	1.020	1.024	1.042	1.018	1.025	1.008
12/31/2017	1.151	1.062	1.035	1.034	1.024	1.020	1.024	1.042	1.018	1.025	1.008

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.005	1.001	1.003	1.001	1.000	1.000	1.000	1.000	1.000*	1.184
12/31/2014	1.005	1.001	1.003	1.001	1.000	1.000	1.000	1.000	1.000*	1.224
12/31/2015	1.005	1.001	1.003	1.001	1.000	1.000	1.000	1.000	1.000*	1.267
12/31/2016	1.005	1.001	1.003	1.001	1.000	1.000	1.000	1.000	1.000*	1.346
12/31/2017	1.005	1.001	1.003	1.001	1.000	1.000	1.000	1.000	1.000*	1.549

\* 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
12/31/1998	3,399,444	4,989,700	6,202,072	6,573,098	7,622,348	8,324,913	9,548,997	11,065,182	12,008,214	12,847,863	13,009,150
12/31/1999	3,158,496	4,995,868	5,544,880	7,214,750	8,158,620	9,622,013	11,077,329	12,073,570	12,772,861	13,105,521	13,599,647
12/31/2000	3,418,844	5,201,798	7,222,822	9,408,512	11,610,385	14,409,917	16,500,773	18,365,859	19,140,188	21,412,799	23,165,417
12/31/2001	3,511,180	5,643,683	7,708,760	10,531,499	13,917,700	17,139,624	21,907,913	23,317,216	25,809,995	25,881,683	27,418,893
12/31/2002	4,171,438	5,629,922	8,295,766	10,129,202	11,760,337	14,321,654	15,961,431	17,832,280	20,066,042	19,995,522	19,978,249
12/31/2003	4,196,138	6,067,239	7,657,808	8,457,245	9,795,816	10,397,330	11,397,206	12,090,593	12,766,238	13,615,662	13,533,948
12/31/2004	5,824,885	7,372,939	9,171,424	9,751,195	10,459,553	11,464,569	12,149,530	13,332,912	13,916,022	14,294,772	14,519,929
12/31/2005	6,630,570	9,087,433	10,040,091	10,770,269	12,073,588	12,818,796	13,253,663	13,972,615	14,699,222	14,860,054	15,089,706
12/31/2006	7,644,998	9,212,774	10,413,710	11,101,832	11,193,322	12,124,225	12,755,867	13,477,739	13,894,055	15,108,278	15,949,800
12/31/2007	9,590,985	11,767,028	12,236,194	12,674,812	13,395,367	13,910,544	15,005,742	15,705,925	16,458,994	17,704,907	17,692,339
12/31/2008	8,809,687	11,738,940	14,074,906	14,432,382	15,389,000	16,329,662	17,489,267	17,980,085	18,709,239	18,707,349	
12/31/2009	8,117,647	10,459,730	12,009,396	12,817,661	13,826,333	15,496,377	16,669,360	17,209,446	17,972,898		
12/31/2010	9,247,147	10,965,970	11,221,561	12,043,844	12,995,298	13,347,047	13,700,251	14,501,155			
12/31/2011	8,604,885	10,621,575	11,638,785	11,990,155	12,746,276	13,445,358	13,773,500				
12/31/2012	8,048,212	9,493,963	10,762,218	11,341,329	12,746,315	13,309,707					
12/31/2013	10,595,383	12,864,590	13,692,132	14,691,418	15,332,401						
12/31/2014	11,312,379	13,514,540	15,228,213	16,395,390							
12/31/2015	13,713,941	17,286,531	18,320,825								
12/31/2016	14,691,091	16,432,606									
12/31/2017	12,412,893										

  

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	13,418,464	13,440,232	13,448,864	13,462,669	13,294,167	13,285,694	13,285,194	13,285,194	13,285,194
12/31/1999	13,810,964	14,084,241	13,923,290	13,855,351	13,873,143	13,820,966	13,820,966	13,821,325	
12/31/2000	23,737,675	23,937,171	23,855,105	23,827,893	23,603,414	23,432,869	23,483,142		
12/31/2001	27,579,551	27,657,839	27,279,281	27,187,406	27,025,499	27,071,246			
12/31/2002	20,313,248	20,115,036	19,819,200	19,589,072	19,667,964				
12/31/2003	13,380,432	13,581,000	13,234,508	13,185,814					
12/31/2004	14,556,234	14,699,378	14,733,647						
12/31/2005	15,673,999	15,834,737							
12/31/2006	15,996,109								

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

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>
12/31/1998	1.468	1.243	1.060	1.160	1.092	1.147	1.159	1.085	1.070	1.013	1.031
12/31/1999	1.582	1.110	1.301	1.131	1.179	1.151	1.090	1.058	1.026	1.038	1.016
12/31/2000	1.522	1.389	1.303	1.234	1.241	1.145	1.113	1.042	1.119	1.082	1.025
12/31/2001	1.607	1.366	1.366	1.322	1.231	1.278	1.064	1.107	1.003	1.059	1.006
12/31/2002	1.350	1.474	1.221	1.161	1.218	1.114	1.117	1.125	0.996	0.999	1.017
12/31/2003	1.446	1.262	1.104	1.158	1.061	1.096	1.061	1.056	1.067	0.994	0.989
12/31/2004	1.266	1.244	1.063	1.073	1.096	1.060	1.097	1.044	1.027	1.016	1.003
12/31/2005	1.371	1.105	1.073	1.121	1.062	1.034	1.054	1.052	1.011	1.015	1.039
12/31/2006	1.205	1.130	1.066	1.008	1.083	1.052	1.057	1.031	1.087	1.056	1.003
12/31/2007	1.227	1.040	1.036	1.057	1.038	1.079	1.047	1.048	1.076	0.999	
12/31/2008	1.333	1.199	1.025	1.066	1.061	1.071	1.028	1.041	1.000		
12/31/2009	1.289	1.148	1.067	1.079	1.121	1.076	1.032	1.044			
12/31/2010	1.186	1.023	1.073	1.079	1.027	1.026	1.058				
12/31/2011	1.234	1.096	1.030	1.063	1.055	1.024					
12/31/2012	1.180	1.134	1.054	1.124	1.044						
12/31/2013	1.214	1.064	1.073	1.044							
12/31/2014	1.195	1.127	1.077								
12/31/2015	1.261	1.060									
12/31/2016	1.119										
3 Yr Mean	1.192	1.084	1.068	1.077	1.042	1.042	1.039	1.044	1.054	1.023	1.015
Best 3/5	1.196	1.096	1.067	1.074	1.053	1.058	1.045	1.044	1.038	1.010	1.008

A.Y.E.	<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>			
12/31/1998	1.002	1.001	1.001	0.987	0.999	1.000	1.000	1.000			
12/31/1999	1.020	0.989	0.995	1.001	0.996	1.000	1.000	1.000 *			
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	0.998 *	1.000 *	1.000 *			
12/31/2002	0.990	0.985	0.988	1.004	0.995 *	0.998 *	1.000 *	1.000 *			
12/31/2003	1.015	0.974	0.996								
12/31/2004	1.010	1.002									
12/31/2005	1.010										
3 Yr Mean	1.012	0.987	0.994	0.996	0.997 @	1.001 @	1.000 @	1.000 @			
Best 3/5	1.008	0.989	0.996	0.995	0.997 *	0.999 *	1.000 *	1.000 *			

A.Y.E.	<u>15/ 27</u>	<u>27/ 39</u>	<u>39/ 51</u>	<u>51/ 63</u>	<u>63/ 75</u>	<u>75/ 87</u>	<u>87/ 99</u>	<u>99/111</u>	<u>111/123</u>	<u>123/135</u>	<u>135/147</u>
12/31/2013					1.053	1.058	1.045	1.044	1.038	1.010	1.008
12/31/2014				1.074	1.053	1.058	1.045	1.044	1.038	1.010	1.008
12/31/2015			1.067	1.074	1.053	1.058	1.045	1.044	1.038	1.010	1.008
12/31/2016		1.096	1.067	1.074	1.053	1.058	1.045	1.044	1.038	1.010	1.008
12/31/2017	1.196	1.096	1.067	1.074	1.053	1.058	1.045	1.044	1.038	1.010	1.008

A.Y.E.	<u>147/159</u>	<u>159/171</u>	<u>171/183</u>	<u>183/195</u>	<u>195/207</u>	<u>207/219</u>	<u>219/231</u>	<u>231/243</u>	<u>243/U1t</u>	FACTORS
12/31/2013	1.008	0.989	0.996	0.995	0.997	0.999	1.000	1.000	1.000*	1.264
12/31/2014	1.008	0.989	0.996	0.995	0.997	0.999	1.000	1.000	1.000*	1.357
12/31/2015	1.008	0.989	0.996	0.995	0.997	0.999	1.000	1.000	1.000*	1.448
12/31/2016	1.008	0.989	0.996	0.995	0.997	0.999	1.000	1.000	1.000*	1.587
12/31/2017	1.008	0.989	0.996	0.995	0.997	0.999	1.000	1.000	1.000*	1.899

\* 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
12/31/1998	1,702,320	3,040,081	5,710,343	9,787,394	13,434,163	16,357,288	18,763,728	21,296,695	23,796,235	25,224,147	26,476,195
12/31/1999	1,706,644	3,481,009	6,584,544	11,573,547	15,174,740	19,147,628	22,704,366	25,851,919	28,821,301	30,522,498	31,171,004
12/31/2000	2,082,708	4,571,790	8,501,617	13,688,601	18,110,072	22,583,205	29,138,435	33,314,507	35,297,406	37,974,189	39,899,359
12/31/2001	3,585,475	7,255,569	13,634,096	19,818,062	25,157,240	31,137,598	37,538,505	41,963,213	45,447,012	47,747,793	48,877,378
12/31/2002	2,812,414	7,314,861	13,990,193	19,958,992	24,526,499	27,847,362	30,694,795	33,146,756	36,559,862	38,405,433	39,831,595
12/31/2003	4,106,008	7,079,115	13,155,073	17,920,363	22,628,689	27,001,329	29,072,709	32,001,664	34,080,879	36,068,582	37,735,027
12/31/2004	3,107,088	6,520,006	12,731,583	19,295,171	23,868,056	28,316,782	33,140,590	37,249,905	42,942,860	46,950,340	51,584,008
12/31/2005	2,188,106	6,777,359	12,498,286	18,937,120	24,170,865	30,321,069	34,242,139	38,174,805	42,711,368	46,347,127	49,065,112
12/31/2006	4,131,944	9,192,167	16,895,780	24,370,355	31,361,053	37,468,485	43,743,652	47,484,975	54,127,947	57,094,149	60,047,340
12/31/2007	4,602,030	9,438,283	17,942,979	24,819,494	31,505,774	38,031,136	42,843,663	47,940,392	52,197,434	56,721,561	59,092,729
12/31/2008	5,530,087	13,401,990	22,164,338	32,789,494	42,293,489	48,477,429	52,480,621	55,783,329	59,932,387	61,891,153	
12/31/2009	7,628,251	15,903,520	27,782,271	40,143,284	49,019,284	55,200,202	59,914,710	65,359,762	67,832,396		
12/31/2010	6,494,399	15,016,572	26,412,918	38,439,930	45,675,009	51,063,411	55,049,171	57,155,081			
12/31/2011	7,387,545	14,645,311	22,625,863	29,582,753	34,787,059	40,288,806	44,845,742				
12/31/2012	5,743,628	12,337,356	20,134,442	28,239,709	36,870,447	41,105,129					
12/31/2013	4,975,286	12,237,160	18,724,264	27,659,718	33,876,647						
12/31/2014	4,761,822	11,439,894	19,251,093	26,086,214							
12/31/2015	5,488,309	11,754,843	19,394,362								
12/31/2016	5,647,316	12,917,082									
12/31/2017	4,451,431										

A.Y.E	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	26,864,043	27,789,325	28,285,537	28,555,717	29,018,742	29,098,335	29,105,461	29,112,865	29,151,670
12/31/1999	32,405,642	33,539,223	33,862,573	34,155,277	34,614,894	34,701,052	34,721,305	34,765,096	
12/31/2000	42,022,772	42,146,448	42,066,803	42,391,725	42,791,912	42,874,057	42,749,270		
12/31/2001	49,755,141	50,130,142	50,402,538	50,856,696	51,410,119	51,570,295			
12/31/2002	41,852,718	43,394,478	43,603,358	44,551,237	45,295,343				
12/31/2003	39,518,823	40,104,993	41,038,263	41,783,695					
12/31/2004	56,230,412	58,226,979	59,174,422						
12/31/2005	49,602,799	50,791,378							
12/31/2006	61,458,224								

Link Ratios: 171 to Ultimate									
A.Y.E	183:171	195:183	207:195	219:207	231:219	243:231	Ult:243		
12/31/1998	1.010	1.016	1.003	1.000	1.000	1.001	1.000	*	
12/31/1999	1.009	1.013	1.002	1.001	1.001	1.000	*	1.000	*
12/31/2000	1.008	1.009	1.002	0.997	1.000	*	1.000	*	1.000
12/31/2001	1.009	1.011	1.003	1.001	*	1.000	*	1.000	*
12/31/2002	1.022	1.017	1.014	*	1.001	*	1.000	*	1.000
12/31/2003	1.018								

Best 3/5      1.012      1.014      1.003 \*      1.000 \*      1.000 \*      1.000 \*      1.000 \*

171 to Ultimate Factor: 1.029

\* 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
12/31/1998	1,337,761	2,670,262	4,077,051	3,646,769	2,923,125	2,406,440	2,532,967	2,499,540	1,427,912	1,252,048	387,848	925,282	496,212
12/31/1999	1,774,365	3,103,535	4,989,003	3,601,193	3,972,888	3,556,738	3,147,553	2,969,382	1,701,197	648,506	1,234,638	1,133,581	323,350
12/31/2000	2,489,082	3,929,827	5,186,984	4,421,471	4,473,133	6,555,230	4,176,072	1,982,899	2,676,783	1,925,170	2,123,413	123,676	-79,645
12/31/2001	3,670,094	6,378,527	6,183,966	5,339,178	5,980,358	6,400,907	4,424,708	3,483,799	2,300,781	1,129,585	877,763	375,001	272,396
12/31/2002	4,502,447	6,675,332	5,968,799	4,567,507	3,320,863	2,847,433	2,451,961	3,413,106	1,845,571	1,426,162	2,021,123	1,541,760	208,880
12/31/2003	2,973,107	6,075,958	4,765,290	4,708,326	4,372,640	2,071,380	2,928,955	2,079,215	1,987,703	1,666,445	1,783,796	586,170	933,270
12/31/2004	3,412,918	6,211,577	6,563,588	4,572,885	4,448,726	4,823,808	4,109,315	5,692,955	4,007,480	4,633,668	4,646,404	1,996,567	947,443
12/31/2005	4,589,253	5,720,927	6,438,834	5,233,745	6,150,204	3,921,070	3,932,666	4,536,563	3,635,759	2,717,985	537,687	1,188,579	
12/31/2006	5,060,223	7,703,613	7,474,575	6,990,698	6,107,432	6,275,167	3,741,323	6,642,972	2,966,202	2,953,191	1,410,884		
12/31/2007	4,836,253	8,504,696	6,876,515	6,686,280	6,525,362	4,812,527	5,096,729	4,257,042	4,524,127	2,371,168			
12/31/2008	7,871,903	8,762,348	10,625,156	9,503,995	6,183,940	4,003,192	3,302,708	4,149,058	1,958,766				
12/31/2009	8,275,269	11,878,751	12,361,013	8,876,000	6,180,918	4,714,508	5,445,052	2,472,634					
12/31/2010	8,522,173	11,396,346	12,027,012	7,235,079	5,388,402	3,985,760	2,105,910						
12/31/2011	7,257,766	7,980,552	6,956,890	5,204,306	5,501,747	4,556,936							
12/31/2012	6,593,728	7,797,086	8,105,267	8,630,738	4,234,682								
12/31/2013	7,261,874	6,487,104	8,935,454	6,216,929									
12/31/2014	6,678,072	7,811,199	6,835,121										
12/31/2015	6,266,534	7,639,519											
12/31/2016	7,269,766												

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
12/31/1998	0.0219	0.0437	0.0667	0.0597	0.0478	0.0394	0.0414	0.0409	0.0234	0.0205	0.0063	0.0151	0.0081
12/31/1999	0.0299	0.0523	0.0840	0.0606	0.0669	0.0599	0.0530	0.0500	0.0287	0.0109	0.0208	0.0191	0.0054
12/31/2000	0.0325	0.0512	0.0676	0.0577	0.0583	0.0855	0.0545	0.0259	0.0349	0.0251	0.0277	0.0016	-0.0010
12/31/2001	0.0472	0.0820	0.0795	0.0687	0.0769	0.0823	0.0569	0.0448	0.0296	0.0145	0.0113	0.0048	0.0035
12/31/2002	0.0601	0.0891	0.0797	0.0610	0.0443	0.0380	0.0327	0.0456	0.0246	0.0190	0.0270	0.0206	0.0028
12/31/2003	0.0445	0.0909	0.0713	0.0705	0.0654	0.0310	0.0438	0.0311	0.0298	0.0249	0.0267	0.0088	0.0140
12/31/2004	0.0413	0.0752	0.0795	0.0554	0.0539	0.0584	0.0498	0.0689	0.0485	0.0561	0.0563	0.0242	0.0115
12/31/2005	0.0603	0.0751	0.0846	0.0687	0.0808	0.0515	0.0517	0.0596	0.0478	0.0357	0.0071	0.0156	
12/31/2006	0.0513	0.0781	0.0758	0.0709	0.0619	0.0636	0.0379	0.0673	0.0301	0.0299	0.0143		
12/31/2007	0.0460	0.0809	0.0654	0.0636	0.0620	0.0458	0.0485	0.0405	0.0430	0.0225			
12/31/2008	0.0594	0.0661	0.0801	0.0717	0.0466	0.0302	0.0249	0.0313	0.0148				
12/31/2009	0.0645	0.0926	0.0964	0.0692	0.0482	0.0368	0.0425	0.0193					
12/31/2010	0.0721	0.0964	0.1017	0.0612	0.0456	0.0337	0.0178						
12/31/2011	0.0661	0.0727	0.0634	0.0474	0.0501	0.0415							
12/31/2012	0.0642	0.0760	0.0790	0.0841	0.0413								
12/31/2013	0.0738	0.0660	0.0909	0.0632									
12/31/2014	0.0673	0.0787	0.0689										
12/31/2015	0.0616	0.0751											
12/31/2016	0.0785												

Best 3/5	0.0685	0.0746	0.0796	0.0645	0.0468	0.0373	0.0351	0.0438	0.0403	0.0302	0.0227	0.0150	0.0059
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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:

<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>
12/31/1998	6,603,354	7,253,522	7,896,632	8,197,894	7,835,838	8,024,316	7,980,365	8,091,023	7,981,576	8,030,295	7,895,333
12/31/1999	6,142,053	7,697,553	8,654,000	9,088,278	9,227,342	8,878,522	8,754,949	8,874,063	8,825,854	8,843,826	8,888,835
12/31/2000	6,699,115	8,276,546	9,344,668	10,564,056	9,649,951	9,615,514	9,581,590	9,638,778	9,555,790	9,570,523	9,553,949
12/31/2001	6,352,076	7,916,073	9,227,113	9,523,575	9,406,018	9,654,630	9,702,223	9,589,336	9,644,297	9,626,176	9,674,596
12/31/2002	6,855,389	8,155,926	9,674,373	10,882,225	10,831,400	10,733,645	10,734,250	10,717,630	10,717,830	10,714,008	10,820,009
12/31/2003	4,873,781	6,868,819	9,252,913	9,947,851	10,364,094	10,274,345	10,057,645	9,951,462	9,964,640	10,049,679	9,930,741
12/31/2004	5,920,660	7,265,043	8,604,557	9,357,406	9,132,131	8,792,041	8,865,203	8,708,689	8,747,681	8,769,110	8,740,645
12/31/2005	6,523,861	6,979,114	8,591,444	8,692,104	8,601,315	8,532,951	8,521,084	8,559,957	8,452,837	8,431,706	8,431,557
12/31/2006	5,700,119	7,003,299	8,512,093	8,554,541	8,340,621	8,115,222	7,928,150	7,939,442	8,001,354	8,001,354	8,001,354
12/31/2007	5,696,979	6,655,490	8,131,761	8,074,536	8,275,461	8,120,950	7,968,493	7,746,105	7,636,496	7,651,493	7,651,493
12/31/2008	5,907,820	7,254,565	8,207,563	7,911,496	7,714,057	7,815,903	7,834,320	7,715,569	7,715,569	7,764,569	
12/31/2009	6,695,175	7,467,254	9,039,578	9,155,349	9,060,835	9,052,685	8,980,713	9,004,469	9,008,028		
12/31/2010	7,385,076	8,911,435	10,443,898	10,572,896	10,884,892	10,719,856	10,675,240	10,673,296			
12/31/2011	7,054,099	8,080,706	9,074,815	9,603,294	9,391,812	9,243,217	9,181,408				
12/31/2012	5,072,686	6,395,489	7,624,226	7,770,238	7,781,411	7,741,872					
12/31/2013	5,744,062	6,930,437	7,457,188	7,463,259	7,346,629						
12/31/2014	5,533,284	6,379,028	6,802,359	7,028,511							
12/31/2015	5,526,866	5,776,724	6,494,321								
12/31/2016	4,294,337	5,533,643									
12/31/2017	4,245,209										

<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>
12/31/1998	7,918,732	7,908,037	7,908,537	7,909,037	7,913,339	7,938,338	8,138,337	8,113,337	8,133,337
12/31/1999	8,868,289	8,851,340	8,950,340	8,955,141	8,960,141	8,975,141	8,975,141	8,956,943	
12/31/2000	9,650,449	9,575,993	9,612,288	9,648,788	9,638,536	9,618,786	9,743,786		
12/31/2001	9,680,355	9,679,355	9,721,255	9,678,355	9,658,720	9,634,480			
12/31/2002	10,793,071	10,806,070	10,813,600	10,933,599	10,833,600				
12/31/2003	9,919,741	9,909,742	9,909,741	9,919,741					
12/31/2004	8,743,144	8,741,501	8,741,501						
12/31/2005	8,438,981	8,430,514							
12/31/2006	8,001,354								

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
12/31/1998	1.098	1.089	1.038	0.956	1.024	0.995	1.014	0.986	1.006	0.983	1.003
12/31/1999	1.253	1.124	1.050	1.015	0.962	0.986	1.014	0.995	1.002	1.005	0.998
12/31/2000	1.235	1.129	1.130	0.913	0.996	0.996	1.006	0.991	1.002	0.998	1.010
12/31/2001	1.246	1.166	1.032	0.988	1.026	1.005	0.988	1.006	0.998	1.005	1.001
12/31/2002	1.190	1.186	1.125	0.995	0.991	1.000	0.998	1.000	1.000	1.010	0.998
12/31/2003	1.409	1.347	1.075	1.042	0.991	0.979	0.989	1.001	1.009	0.988	0.999
12/31/2004	1.227	1.184	1.087	0.976	0.963	1.008	0.982	1.004	1.002	0.997	1.000
12/31/2005	1.070	1.231	1.012	0.990	0.992	0.999	1.005	0.987	0.998	1.000	1.001
12/31/2006	1.229	1.215	1.005	0.975	0.973	0.977	1.001	1.008	1.000	1.000	1.000
12/31/2007	1.168	1.222	0.993	1.025	0.981	0.981	0.972	0.986	1.002	1.000	
12/31/2008	1.228	1.131	0.964	0.975	1.013	1.002	0.985	1.000	1.006		
12/31/2009	1.115	1.211	1.013	0.990	0.999	0.992	1.003	1.000			
12/31/2010	1.207	1.172	1.012	1.030	0.985	0.996	1.000				
12/31/2011	1.146	1.123	1.058	0.978	0.984	0.993					
12/31/2012	1.261	1.192	1.019	1.001	0.995						
12/31/2013	1.207	1.076	1.001	0.984							
12/31/2014	1.153	1.066	1.033								
12/31/2015	1.045	1.124									
12/31/2016	1.289										
3 Yr Mean	1.162	1.089	1.018	0.988	0.988	0.994	0.996	0.995	1.003	1.000	1.000
Best 3/5	1.207	1.108	1.021	0.992	0.993	0.994	0.995	0.996	1.001	0.999	1.000

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	0.999	1.000	1.000	1.001	1.003	1.025	0.997	1.002			
12/31/1999	0.998	1.011	1.001	1.001	1.002	1.000	0.998	1.001 *			
12/31/2000	0.992	1.004	1.004	0.999	0.998	1.013	1.004 *	1.001 *			
12/31/2001	1.000	1.004	0.996	0.998	0.997	1.000 *	1.004 *	1.001 *			
12/31/2002	1.001	1.001	1.011	0.991	0.999 *	1.000 *	1.004 *	1.001 *			
12/31/2003	0.999	1.000	1.001								
12/31/2004	1.000	1.000									
12/31/2005	0.999										
3 Yr Mean	0.999	1.000	1.003	0.996	0.999 @	1.013 @	0.998 @	1.002 @			
Best 3/5	1.000	1.002	1.002	0.999	1.000 *	1.004 *	1.002 *	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
12/31/2013					0.993	0.994	0.995	0.996	1.001	0.999	1.000
12/31/2014				0.992	0.993	0.994	0.995	0.996	1.001	0.999	1.000
12/31/2015			1.021	0.992	0.993	0.994	0.995	0.996	1.001	0.999	1.000
12/31/2016		1.108	1.021	0.992	0.993	0.994	0.995	0.996	1.001	0.999	1.000
12/31/2017	1.207	1.108	1.021	0.992	0.993	0.994	0.995	0.996	1.001	0.999	1.000

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.000	1.002	1.002	0.999	1.000	1.004	1.002	1.001	1.001*	0.989
12/31/2014	1.000	1.002	1.002	0.999	1.000	1.004	1.002	1.001	1.001*	0.981
12/31/2015	1.000	1.002	1.002	0.999	1.000	1.004	1.002	1.001	1.001*	1.002
12/31/2016	1.000	1.002	1.002	0.999	1.000	1.004	1.002	1.001	1.001*	1.110
12/31/2017	1.000	1.002	1.002	0.999	1.000	1.004	1.002	1.001	1.001*	1.340

\* 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
12/31/1998	104,651	183,618	137,402	75,802	75,802	76,802	76,802	76,802	84,345	84,302	84,302
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	314,291	528,582	556,688	476,626	501,626	490,970	486,970	487,970	487,970	486,970	521,970
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	408,226	436,004	390,234	498,725	484,971	446,232	446,231	446,231	446,231	446,231	446,231
12/31/2003	137,726	261,136	219,409	274,123	191,730	123,445	121,945	96,844	96,844	96,844	96,844
12/31/2004	711,594	664,590	1,075,135	1,252,571	863,010	864,290	841,891	841,890	841,890	841,890	841,890
12/31/2005	648,240	814,848	1,114,321	1,010,826	905,856	988,273	988,272	988,322	988,322	988,951	988,951
12/31/2006	449,818	935,743	937,460	812,104	834,562	834,005	834,005	834,005	834,005	834,005	834,005
12/31/2007	366,539	604,551	956,120	997,329	947,160	937,260	937,260	968,260	968,260	968,260	962,260
12/31/2008	527,184	422,912	537,374	427,853	351,603	368,464	367,964	367,964	367,964	367,964	
12/31/2009	283,339	295,250	308,523	246,539	438,219	439,219	439,119	439,130	439,119		
12/31/2010	430,140	332,606	401,643	289,143	389,473	389,473	389,473	383,473			
12/31/2011	427,122	653,662	887,478	869,628	877,128	860,729	947,229				
12/31/2012	334,430	460,418	559,627	584,465	718,991	672,795					
12/31/2013	398,180	730,228	918,552	1,034,380	1,049,787						
12/31/2014	948,609	1,103,449	1,048,701	1,319,364							
12/31/2015	609,327	835,185	910,497								
12/31/2016	446,718	579,212									
12/31/2017	529,178										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	84,302	84,302	84,302	84,302	84,302	84,302	85,302	104,302	184,302
12/31/1999	221,172	221,172	247,673	247,673	247,673	247,673	247,673	247,673	
12/31/2000	505,070	505,571	571,905	560,889	567,011	566,053	562,052		
12/31/2001	466,578	463,774	505,428	505,428	480,116	475,915			
12/31/2002	446,231	446,231	446,231	438,731	438,731				
12/31/2003	96,844	96,844	96,844	96,844					
12/31/2004	841,893	841,890	841,890						
12/31/2005	988,951	988,951							
12/31/2006	834,005								

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
12/31/1998	1.755	0.748	0.552	1.000	1.013	1.000	1.000	1.098	0.999	1.000	1.000
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	1.682	1.053	0.856	1.052	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	1.068	0.895	1.278	0.972	0.920	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2003	1.896	0.840	1.249	0.699	0.644	0.988	0.794	1.000	1.000	1.000	1.000
12/31/2004	0.934	1.618	1.165	0.689	1.001	0.974	1.000	1.000	1.000	1.000	1.000
12/31/2005	1.257	1.368	0.907	0.896	1.091	1.000	1.000	1.000	1.001	1.000	1.000
12/31/2006	2.080	1.002	0.866	1.028	0.999	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2007	1.649	1.582	1.043	0.950	0.990	1.000	1.033	1.000	1.000	0.994	
12/31/2008	0.802	1.271	0.796	0.822	1.048	0.999	1.000	1.000	1.000		
12/31/2009	1.042	1.045	0.799	1.777	1.002	1.000	1.000	1.000			
12/31/2010	0.773	1.208	0.720	1.347	1.000	1.000	0.985				
12/31/2011	1.530	1.358	0.980	1.009	0.981	1.100					
12/31/2012	1.377	1.215	1.044	1.230	0.936						
12/31/2013	1.834	1.258	1.126	1.015							
12/31/2014	1.163	0.950	1.258								
12/31/2015	1.371	1.090									
12/31/2016	1.297										
3 Yr Mean	1.277	1.099	1.143	1.085	0.972	1.033	0.995	1.000	1.000	0.998	1.000
Best 3/5	1.348	1.188	1.050	1.197	0.994	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			
12/31/1998	1.000	1.000	1.000	1.000	1.000	1.012	1.223	1.767			
12/31/1999	1.000	1.120	1.000	1.000	1.000	1.000	1.000	0.999 *			
12/31/2000	1.001	1.131	0.981	1.011	0.998	0.993	0.999 *	0.999 *			
12/31/2001	0.994	1.090	1.000	0.950	0.991	0.999 *	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								
12/31/2004	1.000	1.000									
12/31/2005	1.000										
3 Yr Mean	1.000	1.000	0.994	0.987	0.996 @	1.002 @	1.112 @	1.767 @			
Best 3/5	1.000	1.030	0.994	1.000	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
12/31/2013					0.994	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2014				1.197	0.994	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2015			1.050	1.197	0.994	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2016		1.188	1.050	1.197	0.994	1.000	1.000	1.000	1.000	1.000	1.000
12/31/2017	1.348	1.188	1.050	1.197	0.994	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
12/31/2013	1.000	1.030	0.994	1.000	0.999	0.999	0.999	0.999	0.996*	1.010
12/31/2014	1.000	1.030	0.994	1.000	0.999	0.999	0.999	0.999	0.996*	1.208
12/31/2015	1.000	1.030	0.994	1.000	0.999	0.999	0.999	0.999	0.996*	1.269
12/31/2016	1.000	1.030	0.994	1.000	0.999	0.999	0.999	0.999	0.996*	1.507
12/31/2017	1.000	1.030	0.994	1.000	0.999	0.999	0.999	0.999	0.996*	2.032

\* 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>
12/31/1998	782,535	1,588,636	2,379,963	2,682,330	2,401,677	2,476,134	2,487,849	2,589,249	2,722,147	2,761,760	2,781,079
12/31/1999	804,830	1,804,858	2,421,437	3,104,940	3,451,637	3,454,393	3,553,122	3,947,790	3,944,424	3,981,985	3,992,803
12/31/2000	1,159,693	1,520,745	2,490,459	3,768,949	4,532,835	4,868,694	5,006,790	4,951,638	4,992,285	5,010,477	5,036,148
12/31/2001	969,397	2,089,857	3,423,276	4,302,598	5,412,860	5,911,296	6,814,968	7,066,509	7,320,893	7,160,303	7,316,468
12/31/2002	1,622,388	2,448,370	3,853,938	4,570,868	5,601,176	5,915,951	6,019,450	6,173,084	6,235,265	6,238,780	6,336,926
12/31/2003	775,229	1,568,608	2,410,896	3,219,598	3,963,631	4,335,908	4,514,062	4,493,533	4,502,781	4,541,629	4,615,595
12/31/2004	677,539	1,395,074	2,411,235	3,069,582	3,603,723	3,810,694	3,953,399	4,095,492	4,093,434	4,092,649	4,093,394
12/31/2005	538,158	1,223,369	2,263,008	2,814,412	3,992,525	3,311,500	3,427,332	3,437,255	3,433,484	3,414,297	3,414,327
12/31/2006	704,999	1,682,540	2,861,539	4,142,879	4,908,842	5,258,487	5,367,267	5,324,519	5,357,829	5,353,150	5,353,150
12/31/2007	718,684	1,564,273	2,978,139	3,577,675	4,326,571	4,578,059	4,785,327	4,624,380	4,662,640	4,658,519	4,660,655
12/31/2008	564,562	1,301,056	2,729,685	3,323,728	3,566,757	3,681,452	3,753,154	3,786,407	3,800,681	3,804,721	
12/31/2009	589,235	1,501,659	3,313,055	3,354,146	3,976,251	3,958,274	3,974,501	3,988,117	3,986,272		
12/31/2010	929,929	1,905,378	3,352,814	4,721,453	5,883,707	5,995,346	5,929,873	5,937,282			
12/31/2011	742,749	1,408,392	2,747,985	3,966,704	4,629,352	4,974,405	5,125,278				
12/31/2012	619,515	1,627,529	3,647,040	4,666,743	5,252,168	5,688,957					
12/31/2013	1,031,627	2,217,391	3,674,380	4,735,519	5,368,138						
12/31/2014	804,849	1,507,463	2,361,620	2,885,133							
12/31/2015	553,190	1,068,995	1,822,961								
12/31/2016	498,832	1,250,373									
12/31/2017	535,956										

<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>
12/31/1998	2,795,489	2,803,203	2,813,739	2,838,654	2,836,048	2,843,591	2,994,053	3,104,177	3,118,389
12/31/1999	4,024,326	4,038,127	4,229,068	4,259,781	4,208,030	4,223,791	4,237,879	4,238,256	
12/31/2000	5,435,453	5,200,312	5,270,429	5,323,168	5,385,359	5,408,612	5,451,990		
12/31/2001	7,421,602	7,590,412	7,700,639	7,843,658	8,027,569	8,164,750			
12/31/2002	6,389,619	6,453,378	6,459,201	6,724,259	6,495,731				
12/31/2003	4,595,885	4,595,885	4,593,778	4,643,778					
12/31/2004	4,090,594	4,113,261	4,110,140						
12/31/2005	3,414,327	3,444,774							
12/31/2006	5,353,150								

LOCAL PRODUCTS (Subline Code 336)  
FULL COVERAGE  
MULTISTATE  
BODILY INJURY - 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>
12/31/1998	806,101	791,327	302,367	-280,653	74,457	11,715	101,400	132,898	39,613	19,319	14,410	7,714	10,536
12/31/1999	1,000,028	616,579	683,503	346,697	2,756	98,729	394,668	-3,366	37,561	10,818	31,523	13,801	190,941
12/31/2000	361,052	969,714	1,278,490	763,886	335,859	138,096	-55,152	40,647	18,192	25,671	399,305	-235,141	70,117
12/31/2001	1,120,460	1,333,419	879,322	1,110,262	498,436	903,672	251,541	254,384	-160,590	156,165	105,134	168,810	110,227
12/31/2002	825,982	1,405,568	716,930	1,030,308	314,775	103,499	153,634	62,181	3,515	98,146	52,693	63,759	5,823
12/31/2003	793,379	842,288	808,702	744,033	372,277	178,154	-20,529	9,248	38,848	73,966	-19,710	0	-2,107
12/31/2004	717,535	1,016,161	658,347	534,141	206,971	142,705	142,093	-2,058	-785	745	-2,800	22,667	-3,121
12/31/2005	685,211	1,039,639	551,404	1,178,113	-681,025	115,832	9,923	-3,771	-19,187	30	0	30,447	
12/31/2006	977,541	1,178,999	1,281,340	765,963	349,645	108,780	-42,748	33,310	-4,679	0	0		
12/31/2007	845,589	1,413,866	599,536	748,896	251,488	207,268	-160,947	38,260	-4,121	2,136			
12/31/2008	736,494	1,428,629	594,043	243,029	114,695	71,702	33,253	14,274	4,040				
12/31/2009	912,424	1,811,396	41,091	622,105	-17,977	16,227	13,616	-1,845					
12/31/2010	975,449	1,447,436	1,368,639	1,162,254	111,639	-65,473	7,409						
12/31/2011	665,643	1,339,593	1,218,719	662,648	345,053	150,873							
12/31/2012	1,008,014	2,019,511	1,019,703	585,425	436,789								
12/31/2013	1,185,764	1,456,989	1,061,139	632,619									
12/31/2014	702,614	854,157	523,513										
12/31/2015	515,805	753,966											
12/31/2016	751,541												

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>
12/31/1998	0.0643	0.0631	0.0241	-0.0224	0.0059	0.0009	0.0081	0.0106	0.0032	0.0015	0.0011	0.0006	0.0008
12/31/1999	0.0785	0.0484	0.0536	0.0272	0.0002	0.0077	0.0310	-0.0003	0.0029	0.0008	0.0025	0.0011	0.0150
12/31/2000	0.0255	0.0686	0.0904	0.0540	0.0238	0.0098	-0.0039	0.0029	0.0013	0.0018	0.0282	-0.0166	0.0050
12/31/2001	0.0800	0.0952	0.0628	0.0792	0.0356	0.0645	0.0180	0.0182	-0.0115	0.0111	0.0075	0.0120	0.0079
12/31/2002	0.0461	0.0785	0.0400	0.0576	0.0176	0.0058	0.0086	0.0035	0.0002	0.0055	0.0029	0.0036	0.0003
12/31/2003	0.0470	0.0499	0.0479	0.0441	0.0221	0.0106	-0.0012	0.0005	0.0023	0.0044	-0.0012	0.0000	-0.0001
12/31/2004	0.0576	0.0816	0.0529	0.0429	0.0166	0.0115	0.0114	-0.0002	-0.0001	0.0001	-0.0002	0.0018	-0.0003
12/31/2005	0.0508	0.0771	0.0409	0.0874	-0.0505	0.0086	0.0007	-0.0003	-0.0014	0.0000	0.0000	0.0023	
12/31/2006	0.0749	0.0904	0.0982	0.0587	0.0268	0.0083	-0.0033	0.0026	-0.0004	0.0000	0.0000		
12/31/2007	0.0577	0.0965	0.0409	0.0511	0.0172	0.0141	-0.0110	0.0026	-0.0003	0.0001			
12/31/2008	0.0547	0.1061	0.0441	0.0181	0.0085	0.0053	0.0025	0.0011	0.0003				
12/31/2009	0.0676	0.1341	0.0030	0.0461	-0.0013	0.0012	0.0010	-0.0001					
12/31/2010	0.0625	0.0928	0.0877	0.0745	0.0072	-0.0042	0.0005						
12/31/2011	0.0443	0.0891	0.0811	0.0441	0.0230	0.0100							
12/31/2012	0.0798	0.1600	0.0808	0.0464	0.0346								
12/31/2013	0.1003	0.1232	0.0898	0.0535									
12/31/2014	0.0666	0.0810	0.0496										
12/31/2015	0.0466	0.0682											
12/31/2016	0.0682												

Best 3/5	0.0716	0.0978	0.0832	0.0487	0.0129	0.0055	-0.0006	0.0012	-0.0002	0.0001	-0.0001	0.0025	0.0017
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LOCAL PRODUCTS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 BODILY INJURY - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E.	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>
12/31/1998	1.009	0.999	1.003	1.053	1.037	1.005	1.020 *
12/31/1999	1.007	0.988	1.004	1.003	1.000	1.005 *	1.020 *
12/31/2000	1.010	1.012	1.004	1.008	1.005 *	1.005 *	1.020 *
12/31/2001	1.019	1.023	1.017	1.004 *	1.005 *	1.005 *	1.020 *
12/31/2002	1.041	0.966	1.000 *	1.004 *	1.005 *	1.005 *	1.020 *
12/31/2003	1.011						
Best 3/5	1.013	1.000	1.004 *	1.005 *	1.005 *	1.005 *	1.020 *

171 to Ultimate Factor: 1.053

<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>
	0.324	0.253	0.155	0.072	0.023	0.010	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>
	0.005	0.004	0.004	0.004	0.004	0.002	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	1,624,227	10,977,948	0.155	1,701,597	3,325,824	1.053	3,501,914
12/31/2016	1,337,232	13,733,437	0.253	3,474,569	4,811,801	1.053	5,066,650
12/31/2017	450,529	16,693,654	0.324	5,408,747	5,859,276	1.053	6,169,663

\* 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:

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
12/31/1998	1,357,849	1,570,388	1,810,690	1,972,268	1,990,396	1,839,801	1,878,186	1,854,737	1,901,718	2,032,187	1,951,608
12/31/1999	1,606,756	2,001,530	2,076,139	2,237,951	2,242,488	2,225,805	2,330,001	2,302,722	2,364,574	2,310,129	2,328,101
12/31/2000	2,145,123	2,362,105	2,560,983	2,650,947	2,840,011	3,188,583	3,045,996	3,066,472	3,229,148	3,308,331	3,316,247
12/31/2001	1,723,427	1,771,522	2,049,556	2,126,256	2,008,026	2,060,359	2,226,835	2,399,411	2,407,137	2,479,793	2,473,939
12/31/2002	1,624,590	1,770,089	1,925,803	1,935,445	1,895,509	1,955,304	2,034,052	2,030,021	2,080,638	2,145,760	2,210,145
12/31/2003	1,451,202	2,060,436	2,369,542	2,323,010	2,599,406	2,600,918	2,637,432	2,651,498	2,656,644	2,707,534	2,708,088
12/31/2004	2,207,932	2,488,408	2,505,076	2,445,214	2,510,420	2,516,998	2,445,625	2,484,108	2,504,957	2,513,440	2,508,407
12/31/2005	2,957,140	3,221,765	3,445,324	3,534,285	3,594,929	3,476,741	3,490,097	3,536,585	3,545,955	3,539,665	3,539,943
12/31/2006	3,172,541	3,693,344	3,685,326	3,719,155	3,734,006	3,882,609	3,891,364	4,072,072	4,119,501	4,196,596	4,189,570
12/31/2007	3,032,916	3,114,256	3,102,429	3,437,140	3,712,959	3,682,262	3,824,707	3,797,308	3,789,568	3,762,779	3,771,491
12/31/2008	3,885,793	4,235,868	4,378,591	4,469,965	4,662,154	4,909,703	5,165,659	5,520,397	5,762,539	5,817,484	
12/31/2009	3,677,916	3,837,043	3,868,702	3,896,620	3,880,093	4,106,570	4,116,404	4,261,776	4,327,026		
12/31/2010	4,626,754	4,688,667	4,958,814	4,935,589	4,539,229	4,776,791	4,777,994	4,712,952			
12/31/2011	4,375,000	4,535,427	4,833,244	4,773,187	4,880,574	5,035,491	4,992,592				
12/31/2012	4,133,493	4,253,483	3,978,823	3,853,150	4,010,514	4,007,746					
12/31/2013	3,841,205	3,729,742	4,334,354	4,154,245	4,180,233						
12/31/2014	3,463,496	3,787,789	3,689,972	3,911,913							
12/31/2015	4,707,377	4,990,802	5,598,977								
12/31/2016	4,548,190	4,524,846									
12/31/2017	4,259,746										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	1,878,997	1,884,282	1,883,747	1,883,747	1,886,919	1,883,586	1,883,585	1,883,585	1,886,085
12/31/1999	2,340,378	2,421,200	2,431,483	2,405,972	2,470,871	2,472,072	2,469,571	2,469,571	
12/31/2000	3,322,892	3,316,140	3,319,639	3,312,637	3,312,636	3,310,636	3,310,636		
12/31/2001	2,456,528	2,413,606	2,419,100	2,420,279	2,432,286	2,432,286			
12/31/2002	2,192,041	2,257,683	2,264,558	2,273,158	2,290,451				
12/31/2003	2,748,144	2,732,930	2,716,879	2,739,175					
12/31/2004	2,483,629	2,485,408	2,597,900						
12/31/2005	3,535,343	3,521,102							
12/31/2006	4,242,891								

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
12/31/1998	1.157	1.153	1.089	1.009	0.924	1.021	0.988	1.025	1.069	0.960	0.963
12/31/1999	1.246	1.037	1.078	1.002	0.993	1.047	0.988	1.027	0.977	1.008	1.005
12/31/2000	1.101	1.084	1.035	1.071	1.123	0.955	1.007	1.053	1.025	1.002	1.002
12/31/2001	1.028	1.157	1.037	0.944	1.026	1.081	1.077	1.003	1.030	0.998	0.993
12/31/2002	1.090	1.088	1.005	0.979	1.032	1.040	0.998	1.025	1.031	1.030	0.992
12/31/2003	1.420	1.150	0.980	1.119	1.001	1.014	1.005	1.002	1.019	1.000	1.015
12/31/2004	1.127	1.007	0.976	1.027	1.003	0.972	1.016	1.008	1.003	0.998	0.990
12/31/2005	1.089	1.069	1.026	1.017	0.967	1.004	1.013	1.003	0.998	1.000	0.999
12/31/2006	1.164	0.998	1.009	1.004	1.040	1.002	1.046	1.012	1.019	0.998	1.013
12/31/2007	1.027	0.996	1.108	1.080	0.992	1.039	0.993	0.998	0.993	1.002	
12/31/2008	1.090	1.034	1.021	1.043	1.053	1.052	1.069	1.044	1.010		
12/31/2009	1.043	1.008	1.007	0.996	1.058	1.002	1.035	1.015			
12/31/2010	1.013	1.058	0.995	0.920	1.052	1.000	0.986				
12/31/2011	1.037	1.066	0.988	1.022	1.032	0.991					
12/31/2012	1.029	0.935	0.968	1.041	0.999						
12/31/2013	0.971	1.162	0.958	1.006							
12/31/2014	1.094	0.974	1.060								
12/31/2015	1.060	1.122									
12/31/2016	0.995										
3 Yr Mean	1.050	1.086	0.995	1.023	1.028	0.998	1.030	1.019	1.007	1.000	1.001
Best 3/5	1.028	1.054	0.984	1.008	1.046	1.014	1.025	1.010	1.004	0.999	1.001

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.003	1.000	1.000	1.002	0.998	1.000	1.000	1.001			
12/31/1999	1.035	1.004	0.990	1.027	1.000	0.999	1.000	1.000 *			
12/31/2000	0.998	1.001	0.998	1.000	0.999	1.000	1.000 *	1.000 *			
12/31/2001	0.983	1.002	1.000	1.005	1.000	1.000 *	1.000 *	1.000 *			
12/31/2002	1.030	1.003	1.004	1.008	1.005 *	1.000 *	1.000 *	1.000 *			
12/31/2003	0.994	0.994	1.008								
12/31/2004	1.001	1.045									
12/31/2005	0.996										
3 Yr Mean	0.997	1.014	1.004	1.004	1.000 @	1.000 @	1.000 @	1.001 @			
Best 3/5	0.997	1.002	1.001	1.005	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
12/31/2013					1.046	1.014	1.025	1.010	1.004	0.999	1.001
12/31/2014				1.008	1.046	1.014	1.025	1.010	1.004	0.999	1.001
12/31/2015			0.984	1.008	1.046	1.014	1.025	1.010	1.004	0.999	1.001
12/31/2016		1.054	0.984	1.008	1.046	1.014	1.025	1.010	1.004	0.999	1.001
12/31/2017	1.028	1.054	0.984	1.008	1.046	1.014	1.025	1.010	1.004	0.999	1.001

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	0.997	1.002	1.001	1.005	1.000	1.000	1.000	1.000	1.000*	1.108
12/31/2014	0.997	1.002	1.001	1.005	1.000	1.000	1.000	1.000	1.000*	1.117
12/31/2015	0.997	1.002	1.001	1.005	1.000	1.000	1.000	1.000	1.000*	1.099
12/31/2016	0.997	1.002	1.001	1.005	1.000	1.000	1.000	1.000	1.000*	1.158
12/31/2017	0.997	1.002	1.001	1.005	1.000	1.000	1.000	1.000	1.000*	1.191

\* 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
12/31/1998	157,924	224,899	253,590	229,478	251,902	259,200	225,813	222,912	284,696	286,522	285,522
12/31/1999	125,391	316,529	317,617	282,616	308,229	292,253	273,195	272,697	279,695	272,695	272,695
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	126,361	142,070	179,489	193,002	260,082	377,800	491,895	473,896	511,136	547,821	575,216
12/31/2003	301,928	273,260	286,387	400,997	521,569	603,103	647,217	719,333	800,317	989,921	1,086,391
12/31/2004	271,414	148,753	234,289	358,922	445,685	636,408	620,290	908,519	1,012,477	1,091,692	1,300,429
12/31/2005	197,281	268,813	319,792	399,663	440,559	544,464	604,272	604,850	649,740	1,097,958	1,212,221
12/31/2006	329,693	314,413	429,191	574,642	694,425	791,636	765,563	789,657	977,751	1,111,968	1,015,782
12/31/2007	444,093	654,857	681,805	622,939	592,373	583,394	587,261	684,261	681,411	678,189	678,189
12/31/2008	341,102	249,777	378,523	377,040	388,540	386,540	486,540	486,540	480,041	480,041	
12/31/2009	183,622	185,756	157,956	156,256	156,356	263,169	263,069	363,069	363,069		
12/31/2010	263,109	267,778	262,233	266,329	360,329	360,329	360,329	360,329			
12/31/2011	286,889	314,097	286,926	308,426	286,515	296,515	288,515				
12/31/2012	261,577	237,466	244,631	252,528	238,888	238,888					
12/31/2013	488,486	533,285	562,590	712,931	694,020						
12/31/2014	417,949	518,128	511,190	582,196							
12/31/2015	656,374	749,798	728,287								
12/31/2016	937,497	1,067,681									
12/31/2017	872,110										

A.Y.E.	147 Months	159 Months	171 Months	183 Months	195 Months	207 Months	219 Months	231 Months	243 Months
12/31/1998	285,637	285,637	285,637	285,637	285,637	285,637	285,637	285,637	285,637
12/31/1999	272,695	272,695	272,695	272,695	272,695	272,695	272,695	272,695	
12/31/2000	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			
12/31/2002	574,442	569,196	569,552	575,757	575,757				
12/31/2003	1,280,210	1,300,582	1,222,192	1,171,335					
12/31/2004	1,292,790	1,187,108	1,181,039						
12/31/2005	1,201,211	1,211,321							
12/31/2006	989,512								



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
12/31/1998	1.424	1.128	0.905	1.098	1.029	0.871	0.987	1.277	1.006	0.997	1.000
12/31/1999	2.524	1.003	0.890	1.091	0.948	0.935	0.998	1.026	0.975	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	1.124	1.263	1.075	1.348	1.453	1.302	0.963	1.079	1.072	1.050	0.999
12/31/2003	0.905	1.048	1.400	1.301	1.156	1.073	1.111	1.113	1.237	1.097	1.178
12/31/2004	0.548	1.575	1.532	1.242	1.428	0.975	1.465	1.114	1.078	1.191	0.994
12/31/2005	1.363	1.190	1.250	1.102	1.236	1.110	1.001	1.074	1.690	1.104	0.991
12/31/2006	0.954	1.365	1.339	1.208	1.140	0.967	1.031	1.238	1.137	0.913	0.974
12/31/2007	1.475	1.041	0.914	0.951	0.985	1.007	1.165	0.996	0.995	1.000	
12/31/2008	0.732	1.515	0.996	1.031	0.995	1.259	1.000	0.987	1.000		
12/31/2009	1.012	0.850	0.989	1.001	1.683	1.000	1.380	1.000			
12/31/2010	1.018	0.979	1.016	1.353	1.000	1.000	1.000				
12/31/2011	1.095	0.913	1.075	0.929	1.035	0.973					
12/31/2012	0.908	1.030	1.032	0.946	1.000						
12/31/2013	1.092	1.055	1.267	0.973							
12/31/2014	1.240	0.987	1.139								
12/31/2015	1.142	0.971									
12/31/2016	1.139										

3 Yr Mean 1.174 1.004 1.146 0.949 1.012 0.991 1.127 0.994 1.044 1.006 0.986

Best 3/5 1.124 0.996 1.082 0.973 1.012 1.002 1.065 1.023 1.072 1.067 0.995

A.Y.E.	159:147	171:159	183:171	195:183	207:195	219:207	231:219	243:231			
12/31/1998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
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	1.000 *	1.000 *	1.000 *	1.000 *			
12/31/2003	1.016	0.940	0.958								
12/31/2004	0.918	0.995									
12/31/2005	1.008										

3 Yr Mean 0.981 0.979 0.990 1.000 1.000 @ 1.000 @ 1.000 @ 1.000 @

Best 3/5 1.000 0.998 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
12/31/2013					1.012	1.002	1.065	1.023	1.072	1.067	0.995
12/31/2014				0.973	1.012	1.002	1.065	1.023	1.072	1.067	0.995
12/31/2015			1.082	0.973	1.012	1.002	1.065	1.023	1.072	1.067	0.995
12/31/2016		0.996	1.082	0.973	1.012	1.002	1.065	1.023	1.072	1.067	0.995
12/31/2017	1.124	0.996	1.082	0.973	1.012	1.002	1.065	1.023	1.072	1.067	0.995

A.Y.E.	147/159	159/171	171/183	183/195	195/207	207/219	219/231	231/243	243/U1t	FACTORS
12/31/2013	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.255
12/31/2014	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.221
12/31/2015	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.321
12/31/2016	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.316
12/31/2017	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000*	1.479

\* 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:

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>
12/31/1998	91,782	141,656	257,077	417,474	522,484	679,308	712,032	693,170	846,549	1,136,869	1,396,280
12/31/1999	181,936	337,067	603,218	766,776	842,083	936,228	1,125,458	1,229,613	1,373,857	1,556,607	1,687,060
12/31/2000	302,940	496,355	721,571	877,421	1,100,407	1,356,273	1,776,124	1,995,380	2,169,664	2,469,497	2,639,991
12/31/2001	216,535	309,054	519,615	757,525	906,521	1,142,063	1,586,443	1,917,847	1,868,832	2,072,075	2,196,340
12/31/2002	181,573	341,083	591,644	911,289	1,013,752	1,140,026	1,229,580	1,303,088	1,364,666	1,562,005	1,752,328
12/31/2003	65,613	686,781	1,048,042	1,219,104	1,372,862	1,409,879	1,468,581	1,558,976	1,632,964	1,734,881	1,818,596
12/31/2004	167,404	323,283	492,704	693,371	817,596	992,571	1,013,791	1,035,205	1,066,627	1,074,808	1,102,415
12/31/2005	256,929	343,197	641,866	833,939	886,939	975,469	1,040,434	1,164,142	1,158,657	1,157,967	1,162,276
12/31/2006	165,429	402,611	691,807	1,000,699	1,290,385	1,637,987	1,719,758	2,029,803	2,077,679	2,167,619	2,169,214
12/31/2007	418,783	925,799	1,293,409	2,026,117	2,376,159	2,821,493	2,852,466	3,071,495	3,141,447	3,120,844	2,994,079
12/31/2008	438,170	1,034,773	1,521,967	2,586,147	3,562,178	5,773,199	8,274,706	9,698,489	9,683,777	9,087,789	
12/31/2009	669,778	1,166,618	1,302,927	1,334,905	1,492,762	1,563,893	1,874,710	2,056,703	2,081,430		
12/31/2010	230,371	431,467	751,051	1,109,447	1,215,671	1,378,877	1,584,760	1,775,279			
12/31/2011	417,167	766,501	1,157,854	1,546,670	1,865,811	1,877,509	1,905,119				
12/31/2012	270,654	573,679	966,473	1,109,502	1,308,007	1,493,387					
12/31/2013	436,669	593,795	868,303	1,085,225	1,308,462						
12/31/2014	215,770	526,240	763,031	1,002,559							
12/31/2015	427,785	858,191	1,216,821								
12/31/2016	333,294	640,742									
12/31/2017	438,060										

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>
12/31/1998	1,403,445	1,413,209	1,425,838	1,425,562	1,426,073	1,423,563	1,423,563	1,423,563	1,423,563
12/31/1999	2,084,368	2,219,312	2,379,849	2,502,487	2,519,533	2,520,259	2,520,321	2,520,321	
12/31/2000	2,789,366	2,902,067	2,967,577	2,914,387	2,938,923	2,963,923	2,958,388		
12/31/2001	2,311,057	2,398,464	2,426,334	2,515,945	2,742,434	2,742,434			
12/31/2002	1,844,219	2,116,841	2,275,683	2,306,670	2,306,395				
12/31/2003	1,879,279	1,898,546	1,921,828	1,965,853					
12/31/2004	1,102,371	1,116,272	1,146,297						
12/31/2005	1,339,277	1,215,109							
12/31/2006	2,341,464								

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

A.Y.E	27: 15	39: 27	51: 39	63: 51	75: 63	Increments							
						87: 75	99: 87	111: 99	123: 111	135: 123	147: 135	159:147	171:159
12/31/1998	49,874	115,421	160,397	105,010	156,824	32,724	-18,862	153,379	290,320	259,411	7,165	9,764	12,629
12/31/1999	155,131	266,151	163,558	75,307	94,145	189,230	104,155	144,244	182,750	130,453	397,308	134,944	160,537
12/31/2000	193,415	225,216	155,850	222,986	255,866	419,851	219,256	174,284	299,833	170,494	149,375	112,701	65,510
12/31/2001	92,519	210,561	237,910	148,996	235,542	444,380	331,404	-49,015	203,243	124,265	114,717	87,407	27,870
12/31/2002	159,510	250,561	319,645	102,463	126,274	89,554	73,508	61,578	197,339	190,323	91,891	272,622	158,842
12/31/2003	621,168	361,261	171,062	153,758	37,017	58,702	90,395	73,988	101,917	83,715	60,683	19,267	23,282
12/31/2004	155,879	169,421	200,667	124,225	174,975	21,220	21,414	31,422	8,181	27,607	-44	13,901	30,025
12/31/2005	86,268	298,669	192,073	53,000	88,530	64,965	123,708	-5,485	-690	4,309	177,001	-124,168	
12/31/2006	237,182	289,196	308,892	289,686	347,602	81,771	310,045	47,876	89,940	1,595	172,250		
12/31/2007	507,016	367,610	732,708	350,042	445,334	30,973	219,029	69,952	-20,603	-126,765			
12/31/2008	596,603	487,194	1,064,180	976,031	2,211,021	2,501,507	1,423,783	-14,712	-595,988				
12/31/2009	496,840	136,309	31,978	157,857	71,131	310,817	181,993	24,727					
12/31/2010	201,096	319,584	358,396	106,224	163,206	205,883	190,519						
12/31/2011	349,334	391,353	388,816	319,141	11,698	27,610							
12/31/2012	303,025	392,794	143,029	198,505	185,380								
12/31/2013	157,126	274,508	216,922	223,237									
12/31/2014	310,470	236,791	239,528										
12/31/2015	430,406	358,630											
12/31/2016	307,448												

	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
12/31/1998	0.0252	0.0583	0.0810	0.0530	0.0792	0.0165	-0.0095	0.0775	0.1466	0.1310	0.0036	0.0049	0.0064
12/31/1999	0.0502	0.0862	0.0530	0.0244	0.0305	0.0613	0.0337	0.0467	0.0592	0.0423	0.1287	0.0437	0.0520
12/31/2000	0.0457	0.0532	0.0368	0.0527	0.0604	0.0991	0.0518	0.0412	0.0708	0.0403	0.0353	0.0266	0.0155
12/31/2001	0.0284	0.0646	0.0730	0.0457	0.0723	0.1364	0.1017	-0.0150	0.0624	0.0381	0.0352	0.0268	0.0086
12/31/2002	0.0685	0.1076	0.1373	0.0440	0.0542	0.0385	0.0316	0.0264	0.0848	0.0817	0.0395	0.1171	0.0682
12/31/2003	0.2140	0.1245	0.0589	0.0530	0.0128	0.0202	0.0311	0.0255	0.0351	0.0288	0.0209	0.0066	0.0080
12/31/2004	0.0530	0.0576	0.0682	0.0422	0.0595	0.0072	0.0073	0.0107	0.0028	0.0094	0.0000	0.0047	0.0102
12/31/2005	0.0213	0.0739	0.0475	0.0131	0.0219	0.0161	0.0306	-0.0014	-0.0002	0.0011	0.0438	-0.0307	
12/31/2006	0.0478	0.0582	0.0622	0.0583	0.0700	0.0165	0.0624	0.0096	0.0181	0.0003	0.0347		
12/31/2007	0.0990	0.0717	0.1430	0.0683	0.0869	0.0060	0.0427	0.0137	-0.0040	-0.0247			
12/31/2008	0.0904	0.0738	0.1612	0.1479	0.3350	0.3790	0.2157	-0.0022	-0.0903				
12/31/2009	0.1088	0.0299	0.0070	0.0346	0.0156	0.0681	0.0399	0.0054					
12/31/2010	0.0393	0.0625	0.0701	0.0208	0.0319	0.0403	0.0373						
12/31/2011	0.0576	0.0645	0.0641	0.0526	0.0019	0.0046							
12/31/2012	0.0659	0.0854	0.0311	0.0432	0.0403								
12/31/2013	0.0330	0.0577	0.0456	0.0469									
12/31/2014	0.0578	0.0441	0.0446										
12/31/2015	0.0620	0.0517											
12/31/2016	0.0582												

Best 3/5	0.0593	0.0580	0.0514	0.0416	0.0293	0.0381	0.0484	0.0046	-0.0005	0.0036	0.0317	0.0127	0.0114
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LOCAL PRODUCTS (Subline Code 336)  
 FULL COVERAGE  
 MULTISTATE  
 PROPERTY DAMAGE - OCCURRENCE  
 INCURRED ACCIDENT YEAR ALAE DEVELOPMENT

A.Y.E.	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>
12/31/1998	1.000	1.000	0.998	1.000	1.000	1.000	1.000 *
12/31/1999	1.052	1.007	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	1.037	1.090	1.000	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2002	1.014	1.000	1.001 *	1.000 *	1.000 *	1.000 *	1.000 *
12/31/2003	1.023						
Best 3/5	1.024	1.005	1.000 *	1.000 *	1.000 *	1.000 *	1.000 *

171 to Ultimate Factor: 1.029

<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>
	0.390	0.330	0.272	0.221	0.179	0.150	0.112
<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>
	0.064	0.059	0.059	0.056	0.024	0.011	0.000

A.Y.E	Reported ALAE as of 3/31/18	\$500,000 Ultimate Indemnity	ALAE Factor	Additional ALAE	ALAE at 171 Months	171-Ultimate Factor	Ultimate ALAE
12/31/2015	1,289,373	7,028,122	0.272	1,911,646	3,201,019	1.029	3,293,701
12/31/2016	727,654	6,082,861	0.330	2,007,337	2,734,991	1.029	2,814,146
12/31/2017	453,838	7,019,634	0.390	2,737,662	3,191,500	1.029	3,283,901

\* Calculated Using Modified Bondy Method

Multistate Review of ULAE Experience  
General Liability Including CMP Liability  
Loss Adjustment Expense Special Call  
Calendar Years 2013 - 2017

<u>Item *</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2013 - 2017 Mean</u>
1. Direct Losses Incurred	\$19,650,392	\$20,723,228	\$25,486,854	\$26,406,385	\$23,400,844	
2. Allocated Loss Adjustment Expenses Incurred (ALAE)	\$5,575,153	\$5,301,984	\$6,171,818	\$5,132,541	\$6,233,925	
3. Unallocated Loss Adjustment Expenses Incurred (ULAE)	\$2,296,595	\$2,476,228	\$2,580,924	\$2,694,622	\$2,384,924	
4. Incurred Losses + ALAE [(1) + (2)]	\$25,225,545	\$26,025,212	\$31,658,672	\$31,538,926	\$29,634,769	
	<u>Incurred Percentage</u>					
5. Ratio of ULAE to (Losses + ALAE) [(3)/(4)]	9.1%	9.5%	8.2%	8.5%	8.0%	8.7%
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) 7/1/2015 to 7/1/2020 AYE 12/31/2015	+ 1.5%	+ 2.9%	+ 2.8%
b) 7/1/2016 to 7/1/2020 AYE 12/31/2016	+ 1.9%	+ 2.9%	+ 2.8%
c) 7/1/2017 to 7/1/2020 AYE 12/31/2017	+ 2.2%	+ 2.9%	+ 2.8%
(2) <u>OCCURRENCE SEVERITY</u>	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>	
a) Fitted			
All Years	+ 3.0%	+ 3.6%	
Eight Years	+ 3.2%	+ 5.5%	
Six Years	+ 4.8%	+ 5.8%	
b) Selected	+ 2.5%	+ 4.5%	
(3) <u>FREQUENCY TREND</u>			
Selected	- 0.5%		
(4) <u>TOTAL ANNUAL NET TREND</u>			
Net trend = (frequency trend x severity trend) / exposure trend			

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 12/31/2015, 12/31/2016 & 12/31/2017

(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
2007	1	0.955	20.243	2014	1	1.012	24.295
	2	0.959	20.497		2	1.016	24.404
	3	0.961	20.718		3	1.020	24.527
	4	0.963	20.928		4	1.022	24.655
2008	1	0.962	21.143	2015	1	1.025	24.767
	2	0.958	21.357		2	1.027	24.913
	3	0.956	21.604		3	1.029	25.019
	4	0.957	21.880		4	1.031	25.174
2009	1	0.961	22.128	2016	1	1.031	25.317
	2	0.966	22.349		2	1.032	25.484
	3	0.969	22.502		3	1.031	25.742
	4	0.968	22.653		4	1.032	25.950
2010	1	0.964	22.806	2017	1	1.035	26.162
	2	0.962	22.928		2	1.036	26.325
	3	0.962	23.080		3	1.039	26.521
	4	0.965	23.208		4	1.042	26.707
2011	1	0.968	23.312	2018	1	1.044	26.937
	2	0.973	23.427		2	1.049	27.181
	3	0.978	23.556		3P	1.054	27.392
	4	0.982	23.638		4P	1.060	27.626
2012	1	0.986	23.715	2019	1P	1.067	27.827
	2	0.990	23.794		2P	1.075	28.025
	3	0.995	23.873		3P	1.084	28.220
	4	1.000	23.965		4P	1.093	28.419
2013	1	1.004	24.062	2020	1P	1.100	28.619
	2	1.006	24.140		2P	1.105	28.801
	3	1.008	24.167		3P	1.109	28.956
	4	1.010	24.208		4P	1.112	29.080
CHANGE IN EXPOSURES				LOCAL PRODUCTS      COMPLETED OPERATIONS			
	7/1/2015 to 7/1/2020	(2020:4/2015:4)	1.079			1.155	
	7/1/2016 to 7/1/2020	(2020:4/2016:4)	1.078			1.121	
	7/1/2017 to 7/1/2020	(2020:4/2017:4)	1.068			1.089	
AVERAGE ANNUAL TREND FACTOR							
	7/1/2015 to 7/1/2020	( 5.0 YRS )	1.015			1.029	
	7/1/2016 to 7/1/2020	( 4.0 YRS )	1.019			1.029	
	7/1/2017 to 7/1/2020	( 3.0 YRS )	1.022			1.029	

\* 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
12/31/2008	\$41,536,801	1,464	\$28,372		\$26,066		
12/31/2009	37,718,068	1,537	24,540		26,850		
12/31/2010	48,470,935	1,656	29,270		27,658	\$27,535	
12/31/2011	43,757,831	1,539	28,433		28,490	28,405	
12/31/2012	45,498,643	1,496	30,414		29,348	29,302	\$27,869
12/31/2013	45,465,433	1,577	28,830		30,231	30,228	29,211
12/31/2014	38,593,732	1,382	27,926		31,140	31,183	30,618
12/31/2015	35,677,692	1,165	30,625		32,077	32,169	32,092
12/31/2016	32,280,859	974	33,143		33,043	33,185	33,637
12/31/2017	35,839,976	939	38,168		34,037	34,234	35,257

Goodness of Fit Statistic, R-Squared: 0.596 0.546 0.608

Average Annual Severity Trend (10 yr) + 3.0%

Average Annual Severity Trend ( 8 yr) + 3.2%

Average Annual Severity Trend ( 6 yr) + 4.8%

Selected Annual Severity Trend + 2.5%

\* 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 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 <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>
12/31/2008	\$172,882,541	5,903	\$29,287	\$27,804		
12/31/2009	184,504,263	5,751	32,082	28,801		
12/31/2010	175,197,916	5,960	29,396	29,835	\$27,424	
12/31/2011	155,130,790	5,780	26,839	30,905	28,934	
12/31/2012	156,142,534	5,156	30,284	32,014	30,528	\$30,342
12/31/2013	140,114,647	4,383	31,968	33,162	32,209	32,103
12/31/2014	137,418,459	4,037	34,040	34,352	33,983	33,967
12/31/2015	144,652,655	4,000	36,163	35,584	35,854	35,939
12/31/2016	145,372,397	3,794	38,316	36,861	37,829	38,026
12/31/2017	138,646,254	3,480	39,841	38,183	39,913	40,234
Goodness of Fit Statistic, R-Squared:				0.707	0.918	0.996
Average Annual Severity Trend (10 yr)				+ 3.6%		
Average Annual Severity Trend ( 8 yr)				+ 5.5%		
Average Annual Severity Trend ( 6 yr)				+ 5.8%		
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).

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>
12/31/2004	\$ 248,607,755	7,903	31.79
12/31/2005	273,734,243	7,665	28.00
12/31/2006	292,402,382	8,202	28.05
12/31/2007	291,588,690	8,155	27.97
12/31/2008	282,774,544	8,626	30.50
12/31/2009	270,535,015	8,651	31.98
12/31/2010	259,837,047	8,875	34.16
12/31/2011	260,856,145	8,539	32.73
12/31/2012	263,370,990	8,195	31.12
12/31/2013	268,079,423	7,926	29.57
12/31/2014	273,456,815	7,746	28.33
12/31/2015	281,770,127	7,556	26.82
12/31/2016	297,069,843	7,223	24.31
12/31/2017	302,232,137	6,776	22.42

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 0.997 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 \* .953 \* .992

CLASS	AYE 2017 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	132498	803629	1.06741	.2676	.909	1.008	.953	-4.5	.044	.042
10145	74242	663218	.43482	.2413	.751	.833	.787	-18.2	.011	.009
10146	27164	305521	.40505	.1646	.778	.863	.816	-16.7	.018	.015
10352	31374	212940	.26838	.1422	.768	.851	.805	-19.4	.072	.058
11039	232977	1782267	1.29217	.4105	1.032	1.144	1.082	9.1	.044	.048
11258	30194	120722	.18720	.1186	.773	.857	.810	-19.0	.231	.187
11259	729	2731	.00000	.0865	.778	.863	.816	-18.1	.160	.131
11288	70401	433769	1.30279	.1938	.939	1.041	.984	-1.4	.070	.069
12374	188216	970851	1.18599	.2967	.951	1.054	.996	0.0	.049	.049
12375	133857	760193	.16925	.2597	.674	.747	.706	-20.5	.044	.035
13673	226953	2099504	1.04330	.4455	.937	1.039	.982	0.0	.010	.010
13720	24710	183843	.57622	.1349	.814	.902	.853	-15.3	.059	.050
14401	45948	229369	.34218	.1462	.777	.861	.814	-19.0	.116	.094
15224	75911	551572	1.20193	.2189	.928	1.029	.973	-2.0	.050	.049
16900	429414	2941877	.74955	.5211	.798	.885	.837	-16.9	.077	.064
16901	1430230	11544879	.83626	.7999	.839	.930	.879	-11.8	.093	.082
16902	131996	773252	.61877	.2621	.790	.876	.828	-17.6	.074	.061
16905								-16.9	.077	.064
16906								-11.8	.093	.082
16910	2196731	12652914	.97810	.8138	.954	1.058	1.000	0.0	.055	.055
16911	131171	914393	1.03987	.2872	.905	1.003	.948	-5.0	.040	.038
16915	89005	543507	.82770	.2172	.846	.938	.887	-11.3	.053	.047
16916	613561	5608952	.93442	.6655	.907	1.006	.951	-5.1	.039	.037
16920	13334	87209	.96848	.1097	.864	.958	.906	-9.2	.119	.108
16921	1718	7273	.00000	.0878	.777	.861	.814	-18.3	.060	.049
16930	52106	342277	.90259	.1732	.860	.953	.901	-9.8	.123	.111
16931	18411	133518	.09045	.1219	.759	.841	.795	-19.6	.056	.045
16940	940	4774	.00000	.0871	.777	.861	.814	-18.3	.060	.049
16941	14898	107246	.25366	.1150	.783	.868	.821	-18.1	.083	.068
18435	210543	1448308	1.37387	.3684	1.044	1.157	1.094	9.3	.043	.047
18436	12719	105545	.36160	.1146	.795	.881	.833	-16.7	.126	.105
18501	307024	2212759	.99948	.4571	.919	1.019	.963	0.0	.011	.011
45900	17312	290320	.86631	.1610	.854	.947	.895	-10.6	.047	.042
49617	383111	2094354	1.04564	.4450	.938	1.040	.983	-1.5	.132	.130
57001	45686	183140	2.13190	.1347	1.024	1.135	1.073	5.0	.020	.021

L

X-TILDE: .919 X-TILDE (MONOLINE): .902 PI-TILDE: .0049604  
 TAU SQUARED: .03000 SIGMA SQUARED: 97060.81690

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 \* 1.007 \* .992

CLASS	AYE 2017 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	5910	44227	.25086	.0888	1.010	.970	.969	-5.3	.019	.018
10042	1509055	6733781	1.00966	.8481	1.021	.981	.980	-3.0	.330	.320
10060	3030	18855	.00000	.0712	1.007	.967	.966	-3.8	.052	.050
10065	22222	164971	.16413	.1642	.933	.896	.895	-9.4	.032	.029
10066	3866	17847	.00000	.0705	1.008	.968	.967	-3.2	.063	.061
10071	499897	2976842	1.01320	.7145	1.033	.992	.991	-1.1	.087	.086
10073	9062727	46343633	1.05913	.9744	1.060	1.018	1.017	2.5	.400	.410
10075	966	13608	.42622	.0675	1.040	.999	.998	0.0	.173	.173
10107	42018	305202	1.42208	.2375	1.164	1.118	1.117	11.9	.176	.197
10115	73507	332776	.64409	.2504	.974	.936	.935	-6.7	.090	.084
10309	34849	205742	.03777	.1870	.889	.854	.853	-15.8	.019	.016
11020	3931	34050	23.25094	.0819	2.900	2.786	2.783	24.8	.101	.126
11127	102981	557005	.51631	.3412	.890	.855	.854	-11.1	.009	.008
11128	31286	171349	1.60449	.1679	1.172	1.126	1.125	12.5	.064	.072
11204	14660	95998	.34050	.1228	.993	.954	.953	-4.6	1.530	1.460
11234	31297	157324	.01610	.1598	.914	.878	.877	-12.7	.071	.062
12014	26917	179333	.26512	.1724	.943	.906	.905	-10.0	.040	.036
12356	10990	54011	.56529	.0954	1.035	.994	.993	0.0	.028	.028
12510	7444	39469	.00000	.0856	.991	.952	.951	-3.8	.026	.025
12805	1002517	5164410	.93092	.8112	.960	.922	.921	-8.3	.133	.122
13351	526620	4678670	.92213	.7958	.955	.917	.916	-9.4	.032	.029
13352	2371	48430	.00000	.0917	.985	.946	.945	-4.8	.042	.040
13506	92501	555883	.87367	.3408	1.012	.972	.971	-3.0	.067	.065
13507	68660	301709	.91523	.2358	1.044	1.003	1.002	0.0	.178	.178
13716	776782	4042249	.89717	.7715	.940	.903	.902	-9.7	.134	.121
13759	22675	133151	.01685	.1456	.929	.892	.891	-11.2	.125	.111
14101	10375	80176	1.51795	.1127	1.133	1.088	1.087	8.6	.035	.038
14279	118687	688181	.66770	.3848	.924	.888	.887	-10.9	.064	.057
14913	44006	306658	1.54064	.2382	1.193	1.146	1.145	14.1	.085	.097
15538	12095	132948	.08013	.1455	.938	.901	.900	-7.1	.014	.013
15600	4462	34385	.00000	.0821	.995	.956	.955	-4.7	.085	.081
15608	2076	17903	.00000	.0706	1.008	.968	.967	0.0	.011	.011
15839	26631	170442	.93035	.1674	1.058	1.016	1.015	0.0	.022	.022
15991	37326	218116	.63280	.1936	.997	.958	.957	-3.7	.080	.077
15993	5857	47743	1.26142	.0912	1.100	1.057	1.056	4.7	.043	.045
16403	120597	547754	1.30314	.3379	1.158	1.112	1.111	11.6	.095	.106
16676	1301	6856	.00861	.0627	1.017	.977	.976	0.0	.014	.014

U

X-TILDE: 1.022 X-TILDE (MONOLINE): 1.041 PI-TILDE: .0025832  
TAU SQUARED: .22249 SIGMA SQUARED: 287922.37749

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 \* 1.007 \* .992

CLASS	AYE 2017 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	100246	698656	.63435	.3881	.910	.874	.873	-12.9	.178	.155
18109	457	3285	.00000	.0601	1.019	.979	.978	-3.1	.032	.031
18110	43920	355263	.29440	.2607	.878	.843	.842	-16.1	.031	.026
18206	301086	2380168	1.21315	.6681	1.170	1.124	1.123	12.8	.078	.088
18335	7251	68630	.08486	.1051	.979	.940	.939	-5.3	.019	.018
18506	42	336	.00000	.0579	1.021	.981	.980	0.0	.006	.006
18507	1342	9629	.00000	.0647	1.014	.974	.973	0.0	.008	.008
18708	7609	37142	15.21689	.0840	2.271	2.182	2.180	25.0	.012	.015
18834	4673	30904	.00000	.0797	.998	.959	.958	-4.5	.133	.127
18911	6007	48069	.33587	.0914	1.016	.976	.975	0.0	.018	.018
18912	899	5795	1.22243	.0619	1.093	1.050	1.049	4.3	.023	.024
18920	441	10031	.26348	.0649	1.031	.990	.989	0.0	.017	.017
45819	463608	2964840	1.09459	.7137	1.092	1.049	1.048	4.1	.049	.051
49618	305	1744	4.59289	.0590	1.291	1.240	1.239	24.2	.033	.041
49619	151892	851735	1.51933	.4317	1.272	1.222	1.221	21.8	.078	.095

U

X-TILDE: 1.022      X-TILDE (MONOLINE): 1.041      PI-TILDE: .0025832  
 TAU SQUARED: .22249      SIGMA SQUARED: 287922.37749

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 U - CAPPED UP  
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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 \* 1.026 \* .992

CLASS	AYE 2017 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	.973	1.000	1.018	2.6	.380	.390	
92054	0	16	.00000	.1250	.852	.858	.873	-12.8	.203	.177	
92055	746	4470	.00000	.1256	.851	.857	.872	-12.8	.243	.212	
95124	379208	3841143	.91000	.4395	.945	.952	.969	-2.3	.440	.430	
98303	83734	409498	.79969	.1744	.943	.950	.967	-3.4	6.260	6.050	
98304	2112582	11696735	.91079	.6770	.931	.938	.955	-4.7	2.790	2.660	
98305	1958236	11559895	1.02220	.6746	1.006	1.013	1.031	3.5	1.130	1.170	
98306	22684	121111	.42440	.1402	.896	.902	.918	-8.8	.680	.620	
98307	1470	10073	.21761	.1263	.878	.884	.900	-8.9	.450	.410	
98308	213549	1653294	2.44533	.2952	1.408	1.418	1.443	23.9	.460	.570	U
98309	24884	141060	.05601	.1427	.842	.848	.863	-13.4	1.640	1.420	
98344	48533	259510	.93833	.1570	.968	.975	.992	0.0	.590	.590	
98449	1677048	9512760	1.07134	.6338	1.035	1.042	1.061	6.1	16.400	17.400	
98805	158440	1005130	1.06509	.2370	.995	1.002	1.020	2.4	.830	.850	
98813	383696	2293467	.78997	.3446	.910	.916	.932	-6.9	1.750	1.630	
98967	910730	4988026	1.45697	.4938	1.212	1.221	1.243	24.3	5.270	6.550	
99003	37064	201177	1.37373	.1500	1.033	1.040	1.059	5.6	1.070	1.130	
99826	21404	168743	.58689	.1460	.917	.923	.939	-5.4	.370	.350	
99827	58962	444072	1.21491	.1783	1.016	1.023	1.041	5.0	.400	.420	
99948	2598022	12485382	.98708	.6901	.983	.990	1.008	0.9	22.200	22.400	
99952	350490	1660195	1.28334	.2958	1.065	1.073	1.092	9.2	13.100	14.300	
99953	161519	979741	1.07914	.2345	.998	1.005	1.023	2.2	7.560	7.730	
99954	160205	920472	.90930	.2287	.959	.966	.983	-1.7	7.680	7.550	
99955	762538	5043251	.50558	.4962	.741	.746	.759	-21.0	8.720	6.890	L

X-TILDE: 1.018 X-TILDE (MONOLINE): .993 PI-TILDE: .0073635  
 TAU SQUARED: .03000 SIGMA SQUARED: 205370.14616

L - CAPPED DOWN  
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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 \* 1.006 \* .992

CLASS	AYE 2017 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	1545900	10076217	1.16550	.5064	1.059	1.110	1.108	10.8	4.070	4.510
91150	774420	5122863	.86606	.3544	.920	.964	.962	-3.9	3.850	3.700
91155	3829006	21898395	.93989	.6840	.943	.988	.986	-1.3	23.600	23.300
91340	16218909	89456107	1.10241	.8966	1.087	1.139	1.137	13.7	6.200	7.050
91341	7019260	34893847	1.12370	.7735	1.084	1.136	1.134	13.5	3.190	3.620
91342	9239595	50918317	.87123	.8322	.884	.927	.925	-7.5	3.070	2.840
91343	332501	1673302	1.50648	.1781	1.048	1.099	1.097	9.8	1.230	1.350
91436	271497	1304033	.50197	.1534	.880	.922	.920	-8.1	2.600	2.390
91507	39813	229310	.02488	.0720	.882	.925	.923	-7.7	3.230	2.980
91551	770374	4342209	.58815	.3214	.833	.873	.871	-12.3	.650	.570
91555	97675	710323	.35232	.1103	.883	.926	.924	-7.1	.840	.780
91560	11218797	58635279	.87549	.8508	.886	.929	.927	-7.2	3.870	3.590
91577	1323711	6700757	.96785	.4121	.957	1.003	1.001	0.0	2.460	2.460
91746	2541460	14183583	.81283	.5870	.869	.911	.909	-9.0	4.420	4.020
92101	536470	2916339	1.09936	.2517	.987	1.035	1.033	3.1	2.570	2.650
92102	372136	2616320	1.11878	.2352	.989	1.037	1.035	3.5	2.260	2.340
92215	5941560	43049187	.87750	.8077	.891	.934	.932	-6.7	2.080	1.940
92338	2918185	17849715	.89415	.6396	.914	.958	.956	-4.7	1.280	1.220
92446	263560	1201920	.50952	.1462	.885	.928	.926	-7.4	1.890	1.750
92447	43351	283644	.11597	.0765	.885	.928	.926	-7.2	1.660	1.540
92451	2232607	12785895	.97051	.5627	.961	1.007	1.005	0.5	2.060	2.070
92478	15993505	81884229	.90623	.8882	.911	.955	.953	-4.5	1.760	1.680
94007	6842189	36198134	1.05248	.7798	1.030	1.080	1.078	7.7	3.760	4.050
94276	1376911	7797276	.87674	.4464	.917	.961	.959	-4.2	3.370	3.230
94569	1655300	9766120	1.48988	.4990	1.219	1.278	1.275	24.7	2.350	2.930
95410	5205508	28127866	.98081	.7343	.972	1.019	1.017	1.7	2.390	2.430
95455	802791	4857410	.62046	.3435	.836	.876	.874	-12.7	1.660	1.450
95505	58455	459178	.25687	.0907	.886	.929	.927	-7.3	1.640	1.520
95625	935231	5145756	1.06824	.3553	.991	1.039	1.037	3.9	2.590	2.690
95647	21772509	121180419	.97014	.9214	.968	1.015	1.013	1.3	4.650	4.710
96053	460825	2222951	.70748	.2124	.898	.941	.939	-6.1	4.130	3.880
96410	1271364	7110579	1.06046	.4254	.996	1.044	1.042	4.2	6.720	7.000
96611	278886	1218775	1.44026	.1474	1.021	1.070	1.068	6.7	1.490	1.590
97447	5038173	29507638	.98509	.7434	.976	1.023	1.021	2.3	3.100	3.170
97650	311498	1840743	.68951	.1889	.900	.943	.941	-6.0	2.830	2.660
97651	266759	1376373	.54612	.1583	.885	.928	.926	-7.4	3.390	3.140
97652	52768	243123	.04105	.0732	.882	.925	.923	-7.7	4.180	3.860

U

X-TILDE: .947 X-TILDE (MONOLINE): .954 PI-TILDE: .0033008  
TAU SQUARED: .03000 SIGMA SQUARED: 328830.50006

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: 12

NUMBER OF YEARS OF DATA USED: 5

CHANGE FACTOR = INDEX \* CG REL \* SWRL USED = INDEX \* 1.006 \* .992

CLASS	AYE 2017 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	744618	2977136	1.21407	.2550	1.017	1.066	1.064	6.3	2.550	2.710
97654	80442	421388	.58825	.0877	.917	.961	.959	-4.3	2.810	2.690
97655	1311774	6478898	.67701	.4046	.839	.879	.877	-12.3	4.230	3.710
98002	56085	409594	.00000	.0868	.867	.909	.907	-9.6	.730	.660
98482	19423480	109841642	.84884	.9140	.857	.898	.896	-10.4	6.040	5.410
98483	22745054	122536560	.95113	.9222	.951	.997	.995	-0.7	14.800	14.700
98502	275236	1442246	1.25846	.1628	.999	1.047	1.045	4.5	2.900	3.030
98636	1397103	8927433	.94465	.4779	.947	.993	.991	-1.0	2.920	2.890
98677	3368051	18331108	1.02558	.6455	.998	1.046	1.044	4.4	7.960	8.310
98678	2035283	11564475	1.03740	.5390	.997	1.045	1.043	4.1	9.610	10.000
98806	570310	2981732	.93663	.2552	.946	.992	.990	-1.0	3.100	3.070
98820	2344076	14022755	.88328	.5844	.911	.955	.953	-4.9	2.670	2.540
98884	999662	8325802	1.14442	.4616	1.039	1.089	1.087	8.6	.930	1.010
99004	26072	165776	.32944	.0667	.908	.952	.950	-4.7	1.270	1.210
99080	993917	4266880	1.30139	.3181	1.061	1.112	1.110	11.0	7.200	7.990
99315	825446	4531296	.90450	.3297	.934	.979	.977	-2.0	1.510	1.480
99321	1980726	10366611	.94090	.5131	.945	.991	.989	-1.3	2.350	2.320
99613	1126384	5969073	.75523	.3866	.874	.916	.914	-8.8	2.280	2.080
99650	434050	2562222	1.08959	.2321	.982	1.029	1.027	2.3	.860	.880
99746	1782328	12324612	1.19237	.5541	1.084	1.136	1.134	13.6	1.770	2.010

X-TILDE: .947 X-TILDE (MONOLINE): .954 PI-TILDE: .0033008  
 TAU SQUARED: .03000 SIGMA SQUARED: 328830.50006

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 U - CAPPED UP  
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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 \* .934 \* .992

CLASS	AYE 2017 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	54616	145032	.12616	.1480	.662	.883	.818	-18.3	2.680	2.190	
91127	987317	5674599	.64867	.6457	.686	.915	.848	-15.3	1.500	1.270	
91235	402796	2792683	1.12721	.4907	.938	1.251	1.159	16.1	2.050	2.380	
91265	36944	162386	.88151	.1517	.774	1.032	.956	-4.4	3.410	3.260	
91266	191668	892678	.53627	.2840	.693	.924	.856	-14.9	1.010	.860	
91280	6379	72333	.00000	.1320	.656	.875	.811	-19.1	1.940	1.570	
94381	1369049	10524118	.58909	.7658	.628	.837	.776	-21.0	11.000	8.690	L
94404	76836	326232	.85932	.1855	.775	1.033	.957	-4.2	4.980	4.770	
95310	325879	2157717	.51519	.4363	.651	.868	.804	-19.7	1.370	1.100	
96408	1529755	6244658	.53681	.6659	.610	.813	.753	-20.8	14.400	11.400	L
96409	1891770	10247049	.83297	.7611	.814	1.085	1.005	1.0	10.100	10.200	
97221	862100	5462857	.63770	.6376	.680	.907	.840	-15.7	1.080	.910	
97222	4026491	23512977	.67755	.8772	.687	.916	.849	-15.1	2.180	1.850	
97223	1896528	16330205	.80798	.8334	.799	1.065	.987	-1.0	1.920	1.900	
98152	302256	2371919	1.71591	.4559	1.193	1.591	1.474	23.7	.380	.470	U
98157	76217	636736	.73505	.2426	.750	1.000	.927	-7.1	.420	.390	
98163	2713	33828	.00000	.1232	.662	.883	.818	-18.3	.290	.237	
98164	31175	162902	.00002	.1518	.641	.855	.792	-20.9	.091	.072	
98659	389	2121	.00000	.1159	.668	.891	.826	-18.4	.490	.400	
98914	274	2546	.00000	.1160	.668	.891	.826	-17.3	.520	.430	
98949	3284	10457	.00000	.1178	.666	.888	.823	-17.6	.340	.280	
98993	889500	6369401	1.06696	.6700	.964	1.285	1.191	19.2	3.180	3.790	
99163	674	3412	.00000	.1162	.668	.891	.826	-17.5	.630	.520	
99803	7324	69967	2.08247	.1314	.930	1.240	1.149	14.9	6.170	7.090	
99946	1780791	12999156	.82975	.8003	.815	1.087	1.007	0.5	1.990	2.000	
99969	408081	3506329	1.13458	.5405	.960	1.280	1.186	18.8	1.330	1.580	

X-TILDE: .771 X-TILDE (MONOLINE): .750 PI-TILDE: .0068807  
 TAU SQUARED: .03000 SIGMA SQUARED: 113709.95365

L - CAPPED DOWN  
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MICHIGAN GL-2019-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>
M&C	- 7.6%	- 7.6%
OL&T	+ 1.9%	+ 1.9%
Premises/Operations	- 2.7%	- 2.7%
Products	- 9.7%	- 9.7%
Local Products/Completed Operations	- 0.5%	- 0.5%
Products/Completed Operations	- 4.6%	- 4.6%
GL Overall	- 3.2%	- 3.2%

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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.

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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 6/30/2018 for Premises/Operations.  
Calendar - accident year data through year ended 12/31/2017 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) increased by an average of 3.6%, 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 8.1% increase in ALCCL;
- Implemented loss cost level change (-8.6%);
- A change in exposure trend plus an additional year of trending (+2.1%);
- The effect on ALCCL due to a change in average IPMFs (+2.2%).

The BLER varied within reasonable limits.

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### Owners, Landlords and Tenants

The Aggregate Loss Costs at Current Level (ALCCL) increased by an average of 12.2%, 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 an 7.0% increase in ALCCL;
- Implemented loss cost level change (+6.0%);
- A change in exposure trend plus an additional year of trending (+0.4%);
- The effect on ALCCL due to a change in average IPMFs (-1.0%).

The BLER varied within reasonable limits.

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### Products

Multistate ALCCL decreased by an average of 9.8% 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 6.1% decrease in ALCCL;
- Implemented an average loss cost level change of approximately - 8.0% 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 (+ 3.7%).

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 18.4% 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 11.5% decrease in ALCCL;
- Implemented an average loss cost level change of approximately - 10.5% in most states;
- A change in exposure trend plus an additional year of trending of + 2.6%;
- The effect on ALCCL due to a change in average IPMFs (- 0.4%).

The BLERs changed due to the various effects listed above.

LATEST CALL  
YEAR TO YEAR  
COMPARISON

Manufacturers and  
Contractors

The ALCCL increased steadily from 2014 to 2018.

The low BLERs for 2016 (0.878) and 2017 (0.893) are attributable to favorable experience in several class groups. The high BLERs for 2014 (1.154) and 2015 (1.118) are attributable to unfavorable experience in several class groups.

Owners, Landlords  
and Tenants

The ALCCL increased steadily from 2014 to 2018.

The high BLER for 2014 (1.317) is attributable to unfavorable experience in several class groups.

Products

The ALCCL increased steadily from 2013 to 2017.

The BLER decreased from 2013 to 2015, increased in 2016, and decreased thereafter.

Local Products/  
Completed Ops

The ALCCL increased steadily from 2013 to 2017.

The BLER decreased from 2013 to 2017.

LOSS  
DEVELOPMENT  
FACTOR  
COMPARISON

Manufacturers and  
Contractors

The BI and PD indemnity loss development factors for the 2019 review remained stable compared to those in the 2018 review.

The multistate full coverage BI and PD indemnity factors remained stable compared to the 2018 review.

The multistate deductible coverage BI and PD indemnity factors remained stable compared to the 2018 review.

The multistate Fringe indemnity factors have increased compared to the 2018 review.

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Owners, Landlords  
and Tenants

The BI and PD indemnity loss development factors for the 2019 review remained stable compared to those in the 2018 review.

The multistate full coverage BI and PD Indemnity factors remained stable compared to those in the 2018 review.

The multistate deductible coverage BI and PD Indemnity factors remained stable compared to the 2018 review.

The multistate Fringe indemnity factors have increased compared to the 2018 review.

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Products

The multistate full coverage BI and PD indemnity development factors for the 2019 review remained stable compared to those in the 2018 review.

The multistate deductible coverage BI indemnity development factors have increased compared to the 2018 review. The PD indemnity development factors have decreased compared to the 2018 review. The fluctuations in these factors are due to the low volume of the deductible coverage data.

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LOSS  
DEVELOPMENT  
FACTOR  
COMPARISON  
(Cont'd)

Local Products/  
Completed Ops

For Local Products, the multistate full coverage BI and PD indemnity development factors in this review remained stable compared to those in the 2018 review. The multistate deductible coverage BI indemnity development factors remained stable compared to the 2018 review. The multistate deductible coverage PD indemnity development factors have decreased compared to the 2018 review. The fluctuations in these factors are due to the low volume of the deductible coverage data.

For Completed Operations, the full coverage BI indemnity loss development factors for the 2019 review remained stable compared to those in the 2018 review, except for the 15 and 27 months-to-ultimate factors which increased by 19.1% and 12.8% respectively. This can largely be attributed to a higher 15-to-27 and 27-to-39 months state link ratios. The full coverage PD indemnity loss development factors for the 2019 review remained stable compared to those in the 2018 review.

The Completed Operations multistate full coverage BI indemnity factors have increased compared to those in the 2018 review for the latest three years. The multistate full coverage PD indemnity factors have increased compared to those in the 2018 review. The multistate deductible coverage BI indemnity factors have decreased compared to those in the 2018 review for the latest three years. The multistate deductible coverage PD indemnity factors have decreased compared to those in the 2018 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	<p>The BI severity trend selection is +4.5%, unchanged from +4.5% in the previous Fiscal review.</p> <p>The PD severity trend selection is +4.5%, up from +4.0% in the previous Fiscal review.</p> <p>The Fringe severity trend selection is +0.5%, unchanged from +0.5% in the previous Fiscal review.</p>
	Owners, Landlords and Tenants	<p>The BI severity trend selection is +3.5%, down from +4.0% in the previous Fiscal review.</p> <p>The PD severity trend selection is +4.5%, unchanged from +4.5% in the previous Fiscal review.</p> <p>The Fringe severity selection is +1.5%, down from +2.5% in the previous Fiscal review.</p>
	Products	<p>The BI severity trend selection is +2.5%, unchanged from +2.5% in the previous review.</p> <p>The PD severity trend selection is +6.5%, unchanged from +6.5% in the previous review.</p>
	Local Products/ Completed Ops	<p>The BI severity trend selection is +2.5%, unchanged from +2.5% in the previous review.</p> <p>The PD selected severity trend is +4.5%, up from +4.0% in the previous review.</p>

FREQUENCY  
TREND  
COMPARISON

We have selected a frequency trend of -0.5% for Manufacturers & Contractors, -1.0% 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 higher 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 those used in the previous review all three years. The exposure trend factor for Contractors is higher than that used in the previous review for the earliest year, same for the second latest year and lower for the latest year.

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. For Class Group 16, the exposure trend factors are higher than that used in the previous review for the earliest year and lower for the two latest years.

Products

The exposure trend factors are higher than those used in the previous review all three years.

Local Products/  
Completed Ops

The exposure trend factors for Local Products are higher than those used in the previous review for all three years. The exposure trend factor for Completed Operations is higher than that used in the previous review for the earliest year, lower than the second latest year and the same for the latest year.

WEIGHTED AVERAGE IMPLICIT PACKAGE MODIFICATION FACTOR (IPMF) COMPARISON	Manufacturers and Contractors	The current weighted average IPMF is 0.984. In the 2018 review the weighted average IPMF was 0.954.
	Owners, Landlords and Tenants	The current weighted average IPMF is 0.952. In the 2018 review the weighted average IPMF was 0.968.
	Products	The current multistate weighted average IPMF is 0.856. In the 2018 review the multistate weighted average IPMF was 0.815.
	Local Products/ Completed Ops	The current multistate weighted average IPMF is 0.977. In the Group 3, 2018 review the multistate weighted average IPMF was 0.980.
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, Michigan's state balanced relative change (0.999) ranks 27th highest overall. In last year's review, Michigan's state balanced relative change (1.032) ranked 11th highest overall.	
CHANGE IN COMPANY MIX SINCE LAST CALL	For Manufacturers and Contractors the change in company mix results in an average increase of 8.1% in the total statewide ALCCL.	
	For Owners, Landlords and Tenants, the change in company mix results in an average increase of 7.0% in the total statewide ALCCL.	
	For Products, the change in company mix results in a 6.1% decrease in the total multistate ALCCL.	
	For Local Products/Completed Operations, the change in company mix results in a 11.5% 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	.083	.184	10205	.151	—	11210	1.71	—	13207	(a)	(a)
10015	4.97	—	10220	2.84	—	11211	8.86	—	13208	(a)	(a)
10020	(a)	(a)	10255	.123	.131	11212	1.34	—	13314	.072	.017
10026	.39	.018	10256	.45	.147	11213	1.09	—	13351	.176	.029
10036	.33	(a)	10257	.085	.167	11214	2.69	—	13352	.179	.04
10040	.064	.28	10309	.097	.016	11222	.045	—	13410	.71	2.44
10042	.223	.32	10315	.229	(a)	11234	.169	.062	13411	(a)	(a)
10052	3.44	—	10331	6.74	—	11248	.023	.019	13412	.239	1.01
10054	3.05	—	10332	11.60	—	11258	.68	.187	13453	.28	(a)
10060	.107	.05	10352	.33	.058	11259	.72	.131	13454	.32	(a)
10065	.16	.029	10367	2.28	—	11273	8.40	—	13455	.33	(a)
10066	.163	.061	10368	3.34	—	11274	8.06	—	13461	(a)	(a)
10070	.048	.141	10375	(a)	—	11288	.83	.069	13506	.55	.065
10071	.191	.086	10378	6.82	—	12014	.051	.036	13507	.66	.178
10072	2.58	—	10379	3.17	—	12356	.71	.028	13590	.244	.74
10073	.52	.41	10380	5.41	—	12361	.047	.082	13621	.062	.36
10075	3.84	.173	10381	4.68	—	12362	.053	(a)	13670	.026	.013
10100	.56	.042	11007	.97	—	12373	.02	.025	13673	.51	.01
10101	.144	.166	11020	.182	.126	12374	.37	.049	13715	.053	.154
10105	1.56	—	11039	.45	.048	12375	.182	.035	13716	.27	.121
10107	1.58	.197	11052	2.76	—	12391	.039	.091	13720	.29	.05
10110	16.90	—	11101	(a)	(a)	12393	.242	(a)	13759	.107	.111
10111	.104	.083	11120	(a)	—	12467	.10	(a)	13930	.112	.211
10113	.216	—	11126	.038	.02	12509	.031	.038	14068	.024	.015
10115	.43	.084	11127	.27	.008	12510	.39	.025	14101	.28	.038
10117	4.94	—	11128	.36	.072	12583	.174	(a)	14279	.235	.057
10119	(a)	—	11138	1.68	—	12651	.51	.49	14401	.68	.094
10120	11.10	—	11155	.129	—	12683	.232	(a)	14405	.57	—
10130	2.13	—	11160	(a)	(a)	12707	.34	.65	14527	.214	.181
10132	1.83	—	11167	.64	—	12797	.072	.169	14655	.053	—
10133	2.65	—	11168	3.30	—	12805	.194	.122	14731	2.74	—
10135	(a)	—	11201	8.49	—	12841	.32	—	14732	.203	—
10140	.022	.021	11202	2.51	—	12927	.056	—	14733	.37	—
10141	.043	.024	11203	.62	.54	13049	.024	.054	14734	.16	—
10145	.208	.009	11204	.188	1.46	13111	.63	.097	14855	.108	.162
10146	.25	.015	11205	(a)	—	13112	.04	.069	14913	.201	.097
10150	.30	(a)	11206	.39	—	13201	.45	.167	15060	(a)	(a)
10151	7.50	—	11207	4.98	—	13204	.51	1.40	15061	(a)	(a)
10160	1.34	—	11208	.85	—	13205	.195	.43	15062	.097	(a)
10204	.135	—	11209	4.01	—	13206	(a)	(a)	15063	.113	(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	.076	—	16750	.063	.031	18707	.008	.003	40117	(a)	—
15119	(a)	—	16751	.063	—	18708	.069	.015	40140	(a)	—
15120	(a)	—	16819	.59	(a)	18833	.094	(a)	41001	.185	—
15123	2.65	—	16820	.46	(a)	18834	.179	.127	41210	(a)	—
15124	.93	—	16881	.98	(a)	18911	.56	.018	41421	.37	—
15188	.171	(a)	16890	.069	(a)	18912	1.06	.024	41422	.198	—
15223	.031	.033	16891	.075	(a)	18920	.28	.017	41510	28.40	—
15224	.30	.049	16892	.137	(a)	18991	(a)	—	41603	17.60	—
15300	(a)	—	16900	1.12	.064	19007	1.03	—	41604	9.65	—
15314	.129	(a)	16901	.72	.082	19051	2.29	—	41620	.71	—
15404	.044	(a)	16902	.61	.061	19061	(a)	—	41650	24.70	—
15405	.065	(a)	16905	1.18	.064	19795	.185	(a)	41664	23.50	—
15406	.166	.044	16906	.75	.082	19796	.216	—	41665	2.75	—
15488	.42	(a)	16910	.67	.055	40005	(a)	—	41666	(a)	—
15538	.229	.013	16911	.61	.038	40006	(a)	—	41667	64.10	—
15600	.58	.081	16915	.69	.047	40010	(a)	—	41668	60.10	—
15607	.10	—	16916	.57	.037	40015	(a)	—	41669	.42	—
15608	.129	.011	16920	1.53	.108	40020	(a)	—	41670	.71	—
15656	3.80	—	16921	1.40	.049	40026	(a)	—	41672	(a)	—
15699	.247	—	16930	.88	.111	40031	(a)	—	41673	(a)	—
15733	.108	.038	16931	.95	.045	40032	(a)	—	41675	(a)	—
15839	.173	.022	16940	1.91	.049	40040	(a)	—	41677	.147	—
15991	.141	.077	16941	.76	.068	40041	(a)	—	41678	56.50	—
15993	.119	.045	18078	.095	.155	40042	(a)	—	41679	(a)	(a)
16005	.028	.034	18109	.235	.031	40045	155.00	—	41680	12.90	—
16009	.133	.079	18110	.188	.026	40046	30.60	—	41696	.46	—
16402	.85	—	18200	(a)	—	40047	10.90	—	41697	.32	—
16403	.54	.106	18205	.147	.31	40059	3.91	—	41700	(a)	—
16404	.68	—	18206	.30	.088	40061	2.07	—	41715	8.16	—
16471	.141	—	18335	.22	.018	40063	69.30	—	41716	5.20	—
16501	.059	(a)	18435	.59	.047	40064	20.40	—	43007	(a)	—
16527	.09	.36	18436	.48	.105	40066	(a)	—	43117	(a)	—
16588	.062	(a)	18437	.31	(a)	40067	(a)	—	43151	17.30	—
16604	.103	.147	18438	.60	(a)	40069	(a)	—	43152	16.90	—
16670	2.80	—	18501	.54	.011	40072	(a)	—	43200	65.80	—
16676	.179	.014	18506	.217	.006	40075	34.80	—	43215	(a)	—
16694	.205	(a)	18507	.113	.008	40101	21.10	—	43421	18.00	—
16705	.168	.152	18570	1.18	—	40102	18.60	—	43422	94.70	—
16722	(a)	—	18575	(a)	(a)	40111	5.49	—	43424	(a)	—
16723	(a)	—	18616	.165	.54	40115	(a)	—	43470	2.71	—

\$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	57.30	—	46004	23.50	—	47471	3.22	—
43518	10.10	—	44280	.147	—	46005	18.80	—	47473	4.21	—
43550	64.40	—	44311	5.19	—	46112	.083	—	47474	4.70	—
43551	35.70	—	44315	3.49	—	46202	2.54	—	47475	3.71	—
43626	8.04	—	44427	76.30	—	46362	197.00	—	47476	3.71	—
43628	104.00	—	44428	76.70	—	46426	28.80	—	47477	4.95	—
43629	88.50	—	44429	1.15	—	46427	38.50	—	47478	5.20	—
43754	(a)	—	44430	.80	—	46510	(a)	—	47600	(a)	—
43760	2.95	—	44431	2.55	—	46590	(a)	—	47610	(a)	—
43822	2.15	—	44432	.81	—	46603	2.42	—	48039	46.70	—
43840	.026	—	44433	25.80	—	46604	2.79	—	48177	(a)	—
43860	1.69	—	44434	49.30	—	46606	7.44	—	48178	(a)	—
43889	.61	—	44435	51.10	—	46607	10.20	—	48206	21.30	—
43945	(a)	—	44436	59.70	—	46622	6.29	—	48252	(a)	—
43946	(a)	—	44437	49.50	—	46671	(a)	—	48441	.089	—
43990	(a)	(a)	44438	39.10	—	46700	132.00	—	48557	8.93	—
43991	(a)	—	44439	76.10	—	46773	(a)	—	48558	7.77	—
44009	3.23	—	44440	63.00	—	46822	(a)	—	48600	57.60	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	8.59	—	44501	(a)	—	46882	(a)	—	48636	.88	(a)
44070	2.54	—	45190	2.00	—	46911	15.90	—	48637	6.82	—
44071	2.83	—	45191	1.42	—	46912	29.10	—	48638	3.39	—
44072	1.95	—	45192	1.66	—	46913	(a)	—	48727	(a)	—
44100	1.37	—	45193	.98	—	46914	(a)	—	48808	.97	—
44101	1.43	—	45210	1.24	—	46915	(a)	—	48924	(a)	—
44102	1.12	—	45224	(a)	—	46916	(a)	—	48925	163.00	—
44103	.99	—	45225	(a)	—	47050	.59	—	49005	.10	—
44104	.41	—	45334	37.90	—	47051	(a)	—	49111	1.49	—
44105	(a)	—	45380	.127	(a)	47052	(a)	—	49181	15.30	—
44106	(a)	—	45450	11.20	—	47103	(a)	—	49183	18.60	—
44108	.49	—	45523	(a)	—	47146	(a)	—	49184	39.20	—
44109	1.23	—	45524	(a)	—	47147	(a)	—	49185	35.70	—
44110	1.26	—	45539	(a)	—	47221	145.00	—	49239	.095	.65
44111	.77	—	45678	.159	—	47253	(a)	—	49292	1.12	—
44112	.46	—	45771	.193	.176	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.063	.051	47318	6.54	—	49333	8.18	—
44193	(a)	—	45900	.066	.042	47367	.147	—	49451	(a)	—
44194	(a)	—	45901	.056	.047	47420	1.43	—	49452	(a)	—
44222	(a)	—	45937	.149	—	47468	(a)	—	49617	.218	.13
44276	88.40	—	45993	(a)	(a)	47469	3.71	—	49618	.183	.041

## 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	.34	.095	51315	.062	.106	51809	.119	.158	52341	.025	(a)
49763	2.24	—	51330	.054	.43	51833	.126	.072	52342	.073	(a)
49800	(a)	—	51333	.018	.31	51850	.13	(a)	52343	.044	(a)
49801	128.00	—	51340	.012	(a)	51851	.088	(a)	52401	.137	(a)
49802	11.30	—	51350	.194	.142	51852	.206	(a)	52402	.006	(a)
49803	20.10	—	51351	.174	.045	51853	.083	(a)	52432	.032	(a)
49840	.61	—	51352	.239	.114	51854	.186	(a)	52433	.029	1.20
49870	68.30	—	51355	.163	.096	51855	.195	(a)	52435	.037	(a)
49890	(a)	—	51356	.175	.69	51856	.107	(a)	52438	.027	(a)
49891	(a)	—	51357	.087	.53	51857	.184	(a)	52440	.042	(a)
49902	(a)	—	51358	.211	.149	51869	.032	.14	52467	.039	(a)
49903	(a)	—	51359	.185	.84	51877	.179	.22	52469	.014	.109
50010	.069	.58	51370	.139	5.00	51889	.03	.014	52505	.067	.203
50015	.045	(a)	51380	.014	.05	51896	.014	.02	52547	.119	.088
50017	.034	(a)	51400	.126	(a)	51900	.094	.093	52581	.33	3.68
50045	.078	(a)	51401	.185	(a)	51909	.117	.057	52619	.023	(a)
50047	.009	(a)	51500	.026	.109	51919	.03	(a)	52660	.052	—
51001	.03	.46	51516	.044	—	51926	.03	.04	52744	.48	.094
51005	.006	(a)	51517	.05	—	51927	.016	.115	52767	.109	(a)
51116	.076	.57	51550	.033	.36	51934	.033	.142	52876	(a)	(a)
51201	.012	(a)	51551	.011	.92	51941	.03	.039	52911	.018	.52
51205	.036	.083	51552	.02	.159	51942	.048	—	52967	.007	.064
51206	.006	.45	51553	.035	(a)	51956	.13	.246	53001	.067	.33
51210	.053	(a)	51554	.003	(a)	51957	.115	.40	53077	.032	.197
51211	(a)	(a)	51575	.052	.02	51958	.102	.39	53095	.022	(a)
51220	.181	2.58	51576	.063	.075	51959	.104	(a)	53096	.031	(a)
51221	.101	1.94	51600	.043	.198	51960	.014	.36	53121	.088	.46
51222	.122	3.12	51613	.028	.138	51970	.06	.25	53147	.018	(a)
51224	.128	1.33	51625	.028	(a)	51982	.018	.085	53229	.103	(a)
51230	.022	.79	51666	.083	.103	51985	.041	—	53271	.017	(a)
51240	.143	.182	51702	.083	(a)	51986	.069	.107	53333	.101	.213
51241	.42	.30	51703	.034	(a)	51999	.029	.46	53374	.127	.38
51250	.139	(a)	51734	.065	.31	52002	.026	.118	53375	.067	.25
51251	.012	(a)	51741	.074	.25	52075	.102	.25	53376	.108	.187
51252	.043	.101	51752	.063	.159	52076	.123	(a)	53377	.11	.211
51253	.037	(a)	51767	.024	.009	52109	.006	(a)	53403	.07	(a)
51254	.011	.045	51777	.084	.076	52134	.086	.70	53425	.096	(a)
51255	.35	(a)	51790	.14	(a)	52137	.04	(a)	53565	.081	.124
51300	.116	.173	51796	.027	(a)	52150	.158	(a)	53631	.01	.022
51305	.116	1.03	51808	.096	.73	52315	.109	.24	53632	.012	.035



\$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	.011	(a)	56170	.094	(a)	57401	.021	.098	58503	.026	.061
53732	.073	.46	56171	.046	(a)	57403	.171	.036	58532	.033	(a)
53733	.048	.26	56202	.025	.10	57410	.01	.13	58559	.007	(a)
53734	.26	—	56390	.043	.63	57411	.023	(a)	58560	.016	(a)
53803	.228	(a)	56391	.037	.32	57572	.006	.094	58561	(a)	(a)
53901	(a)	(a)	56427	.059	.125	57600	.018	.033	58575	.021	.123
53902	(a)	(a)	56488	.14	.034	57611	.05	.064	58627	.067	.016
53903	(a)	(a)	56567	.097	(a)	57625	.159	(a)	58663	.215	1.59
53904	(a)	(a)	56650	.30	(a)	57651	.019	.043	58682	.06	(a)
53905	(a)	(a)	56651	.162	(a)	57690	.065	.51	58713	.053	(a)
53907	.032	.111	56652	.116	(a)	57716	.031	.087	58737	.043	.74
53951	(a)	(a)	56653	.111	(a)	57725	.068	.091	58756	.04	(a)
53952	(a)	(a)	56654	.057	(a)	57726	.053	.019	58757	.146	(a)
53953	(a)	(a)	56690	.072	.36	57798	.01	(a)	58759	.018	(a)
54012	.026	—	56699	.027	.051	57800	.037	(a)	58802	.021	.45
54077	.044	.37	56758	.023	.155	57808	.026	(a)	58813	.099	(a)
54444	(a)	(a)	56759	.024	.093	57809	.027	(a)	58822	.057	(a)
55010	.133	1.10	56760	.034	.106	57810	.026	.109	58837	.199	.165
55011	.036	1.26	56805	.045	(a)	57871	.031	.116	58840	.059	.111
55012	.043	1.17	56806	.032	(a)	57913	.047	.31	58873	.095	.03
55013	.086	.99	56807	.031	(a)	57997	.059	—	58903	.013	(a)
55014	(a)	(a)	56808	.041	(a)	57998	.021	.059	58904	.01	.131
55214	.035	.089	56900	.039	(a)	57999	.043	.071	58922	.158	.187
55371	.32	.13	56910	.02	(a)	58009	.043	(a)	59005	.025	.096
55410	(a)	(a)	56911	.084	(a)	58010	.049	(a)	59057	.182	(a)
55426	.105	(a)	56912	.068	.084	58020	.184	(a)	59058	.118	(a)
55597	.009	1.78	56913	.055	(a)	58056	.058	(a)	59188	.37	.056
55647	.017	.056	56915	.33	(a)	58057	.037	(a)	59189	.50	.30
55648	.008	(a)	56916	.30	.187	58058	.033	(a)	59223	.098	.077
55649	.009	(a)	56917	.085	(a)	58095	.046	1.83	59257	.007	.015
55715	.069	.234	56918	.041	(a)	58096	.061	1.04	59306	.041	(a)
55716	.10	.52	56919	.105	(a)	58301	.033	.082	59378	.064	.152
55717	.138	(a)	56920	.096	(a)	58302	.017	.055	59481	.112	.088
55718	.134	(a)	56980	.034	(a)	58397	.096	.83	59482	.38	(a)
55802	.084	.009	57001	.012	.021	58408	.035	—	59537	.069	.168
55918	.039	3.19	57002	.008	.11	58409	.044	—	59601	.042	2.31
55919	.005	3.64	57090	.153	.63	58456	.024	—	59647	.17	.176
56040	.004	.04	57146	.097	.67	58457	.034	—	59660	.077	1.14
56041	.025	(a)	57202	.03	(a)	58458	.044	—	59661	.038	(a)
56042	.031	(a)	57257	.038	.036	58459	.053	—	59693	.006	—

## 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	.192	.061	63220	(a)	—	91190	2.10	(a)
59701	.003	.244	59970	.059	.182	64074	14.10	—	91200	.68	—
59713	.069	.33	59973	.053	(a)	64075	9.96	—	91210	(a)	—
59722	.036	.032	59975	.082	.243	64500	(a)	—	91235	1.76	2.38
59723	.014	.038	59977	.047	(a)	65007	30.70	—	91250	2.65	(a)
59724	.021	.022	59984	.014	.055	66122	13.20	—	91265	14.60	3.26
59725	.026	.104	59985	.057	(a)	66123	7.25	—	91266	7.73	.86
59726	.019	.024	59986	.043	(a)	66309	21.20	—	91280	(a)	1.57
59738	.06	.066	59988	.021	.06	66561	49.10	—	91302	11.20	(a)
59750	.051	.24	59989	.008	.045	67017	45.60	—	91315	3.40	—
59751	.018	(a)	60010	28.20	—	67508	29.70	—	91324	7.57	(a)
59773	.022	.028	60011	32.40	—	67509	21.80	—	91325	(a)	(a)
59774	.018	.152	60012	53.20	—	67510	12.10	—	91340	4.94	7.05
59775	.023	.189	60013	45.60	—	67511	13.10	—	91341	4.48	3.62
59781	.044	.076	60015	34.10	—	67512	56.20	—	91342	4.53	2.84
59782	.066	.49	60016	38.30	—	67513	35.60	—	91343	.99	1.35
59783	.065	(a)	60035	34.60	—	67634	39.40	—	91405	5.76	—
59784	.049	(a)	61000	27.90	—	67635	27.90	—	91436	5.06	2.39
59790	.046	(a)	61212	18.60	—	68001	85.20	—	91481	18.50	—
59798	.168	.46	61216	20.60	—	68439	110.00	—	91507	2.72	2.98
59806	.121	(a)	61217	18.80	—	68500	6.20	—	91523	42.00	—
59867	.052	(a)	61218	12.80	—	68604	2.05	—	91547	.239	—
59886	.007	.112	61223	86.60	—	68606	8.00	—	91551	1.48	.57
59889	.071	.153	61224	30.70	—	68607	6.32	—	91555	1.06	.78
59892	.065	(a)	61225	42.60	—	68702	5.21	—	91560	4.27	3.59
59904	.044	.066	61226	67.90	—	68703	3.90	—	91562	3.30	—
59905	.033	.13	61227	62.10	—	68706	16.70	—	91577	11.80	2.46
59914	.191	.62	62000	14.10	—	68707	16.50	—	91580	5.64	—
59915	.145	.78	62001	10.60	—	90089	4.28	—	91581	(a)	(a)
59917	.027	.165	62002	4.83	—	91111	2.27	4.51	91582	(a)	(a)
59923	.005	.005	62003	15.20	—	91125	2.58	2.19	91583	(a)	(a)
59925	.19	1.09	63010	50.70	—	91127	1.53	1.27	91584	(a)	(a)
59926	.161	.42	63011	63.40	—	91130	1.20	—	91585	(a)	(a)
59927	.108	1.56	63012	90.10	—	91135	.33	(a)	91586	(a)	(a)
59931	.086	.59	63013	85.40	—	91150	1.44	3.70	91587	(a)	(a)
59932	.093	.93	63215	50.40	—	91155	3.21	23.30	91588	(a)	(a)
59941	.029	(a)	63216	35.00	—	91160	1.04	—	91589	(a)	(a)
59947	.044	.33	63217	31.10	—	91175	.89	—	91590	3.42	—
59955	.011	.147	63218	10.50	—	91177	3.90	—	91591	(a)	(a)
59963	.082	.45	63219	(a)	—	91179	3.92	—	91606	11.70	—

\$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	1.20	—	97653	3.11	2.71	98426	2.52	(a)
91629	2.39	(a)	95358	(a)	—	97654	5.41	2.69	98427	2.45	—
91636	4.10	—	95410	4.40	2.43	97655	4.49	3.71	98428	(a)	—
91641	1.11	(a)	95455	4.96	1.45	98002	.81	.66	98429	1.07	—
91666	.92	(a)	95487	2.36	(a)	98003	.97	(a)	98430	(a)	—
91722	3.59	(a)	95505	2.31	1.52	98090	.131	—	98449	3.52	17.40
91746	3.30	4.02	95620	1.91	(a)	98091	.142	—	98482	3.77	5.41
91805	.207	—	95625	5.35	2.69	98092	.43	—	98483	5.57	14.70
92053	.51	.39	95630	(a)	(a)	98111	.45	—	98502	5.34	3.03
92054	.175	.177	95647	2.12	4.71	98150	(a)	—	98555	2.48	—
92055	4.89	.212	95648	(a)	(a)	98151	(a)	—	98597	.56	—
92101	7.64	2.65	96053	1.61	3.88	98152	2.73	.47	98598	.191	—
92102	4.60	2.34	96317	1.24	—	98153	3.08	(a)	98601	6.39	(a)
92215	2.53	1.94	96408	3.81	11.40	98154	3.63	(a)	98622	(a)	—
92338	1.77	1.22	96409	3.52	10.20	98155	5.09	(a)	98623	(a)	—
92445	2.35	—	96410	3.09	7.00	98156	(a)	(a)	98624	1.00	—
92446	5.81	1.75	96611	1.13	1.59	98157	3.25	.39	98636	2.17	2.89
92447	5.08	1.54	96702	4.38	(a)	98158	(a)	(a)	98640	110.00	—
92451	1.76	2.07	96703	(a)	—	98159	2.18	(a)	98658	5.26	—
92453	3.22	—	96816	4.11	—	98160	4.62	(a)	98659	.94	.40
92478	1.59	1.68	96872	4.40	(a)	98161	5.17	(a)	98677	17.40	8.31
92593	23.10	—	96930	(a)	—	98162	(a)	(a)	98678	15.40	10.00
92663	.56	—	97002	(a)	(a)	98163	5.43	.237	98698	(a)	(a)
94007	10.90	4.05	97003	(a)	(a)	98164	1.49	.072	98699	5.02	(a)
94099	2.48	—	97047	3.44	—	98257	1.47	—	98705	7.44	—
94225	8.74	—	97050	2.67	—	98303	10.20	6.05	98710	3.49	—
94276	4.55	3.23	97111	5.26	—	98304	5.43	2.66	98751	3.97	—
94304	2.25	(a)	97220	.32	(a)	98305	2.76	1.17	98805	4.55	.85
94381	4.23	8.69	97221	(a)	.91	98306	7.12	.62	98806	2.02	3.07
94404	4.32	4.77	97222	1.17	1.85	98307	1.72	.41	98810	3.90	—
94444	(a)	(a)	97223	1.76	1.90	98308	1.13	.57	98813	3.76	1.63
94569	2.91	2.93	97308	.60	—	98309	5.13	1.42	98820	8.70	2.54
94590	12.60	—	97447	1.97	3.17	98344	.77	.59	98871	(a)	(a)
94617	3.97	—	97501	(a)	—	98405	1.27	—	98884	2.26	1.01
94638	(a)	—	97502	(a)	—	98413	14.30	(a)	98914	.64	.43
95124	1.47	.43	97503	(a)	—	98414	13.10	(a)	98949	.90	.28
95233	3.14	—	97504	(a)	—	98415	1.72	(a)	98967	3.55	6.55
95305	3.41	—	97650	3.63	2.66	98423	4.09	(a)	98993	4.14	3.79
95306	4.70	—	97651	5.81	3.14	98424	6.94	(a)	99003	1.69	1.13
95310	8.14	1.10	97652	5.04	3.86	98425	2.85	(a)	99004	3.13	1.21

\$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	1.19	7.99	99826	.77	.35						
99081	(a)	—	99827	.43	.42						
99082	(a)	—	99851	1.75	—						
99083	(a)	—	99917	2.83	—						
99084	(a)	(a)	99938	3.19	—						
99085	(a)	(a)	99943	9.24	—						
99111	1.74	—	99946	6.88	2.00						
99160	(a)	—	99948	4.99	22.40						
99163	4.14	.52	99952	5.71	14.30						
99165	.91	(a)	99953	6.16	7.73						
99220	1.41	(a)	99954	4.49	7.55						
99221	(a)	(a)	99955	5.62	6.89						
99222	2.65	(a)	99963	.68	—						
99223	.25	(a)	99969	2.56	1.58						
99303	13.90	—	99975	4.99	—						
99310	3.47	(a)	99986	(a)	—						
99315	10.20	1.48	99987	(a)	—						
99321	9.91	2.32	99988	2.26	—						
99445	(a)	(a)									
99471	.64	—									
99505	3.50	—									
99506	4.31	—									
99507	3.76	—									
99570	2.02	(a)									
99571	.49	(a)									
99572	.96	(a)									
99573	.91	(a)									
99600	1.36	—									
99613	8.78	2.08									
99614	3.04	—									
99620	.48	—									
99650	.96	.88									
99709	2.36	(a)									
99718	1.40	—									
99746	2.37	2.01									
99760	.27	—									
99777	6.75	—									
99793	3.01	—									
99798	(a)	(a)									
99803	(a)	7.09									

\$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	.097	.184	10205	.194	—	11210	3.04	—	13207	(a)	(a)
10015	8.27	—	10220	3.66	—	11211	15.80	—	13208	(a)	(a)
10020	(a)	(a)	10255	.159	.131	11212	2.39	—	13314	.093	.017
10026	.50	.018	10256	.58	.147	11213	1.95	—	13351	.227	.029
10036	.43	(a)	10257	.109	.167	11214	4.80	—	13352	.231	.04
10040	.073	.28	10309	.126	.016	11222	.081	—	13410	.91	2.44
10042	.29	.32	10315	.30	(a)	11234	.219	.062	13411	(a)	(a)
10052	5.72	—	10331	11.20	—	11248	.03	.019	13412	.31	1.01
10054	5.08	—	10332	19.30	—	11258	.69	.187	13453	.36	(a)
10060	.138	.05	10352	.34	.058	11259	.74	.131	13454	.42	(a)
10065	.207	.029	10367	4.06	—	11273	10.80	—	13455	.42	(a)
10066	.211	.061	10368	5.94	—	11274	10.40	—	13461	(a)	(a)
10070	.055	.141	10375	(a)	—	11288	.85	.069	13506	.71	.065
10071	.247	.086	10378	11.40	—	12014	.065	.036	13507	.86	.178
10072	4.60	—	10379	5.27	—	12356	.92	.028	13590	.31	.74
10073	.67	.41	10380	9.00	—	12361	.05	.082	13621	.079	.36
10075	4.94	.173	10381	7.80	—	12362	.061	(a)	13670	.028	.013
10100	.58	.042	11007	1.73	—	12373	.023	.025	13673	.53	.01
10101	.186	.166	11020	.235	.126	12374	.48	.049	13715	.061	.154
10105	2.02	—	11039	.58	.048	12375	.235	.035	13716	.35	.121
10107	2.04	.197	11052	2.79	—	12391	.046	.091	13720	.30	.05
10110	28.20	—	11101	(a)	(a)	12393	.31	(a)	13759	.138	.111
10111	.121	.083	11120	(a)	—	12467	.13	(a)	13930	.129	.211
10113	.28	—	11126	.049	.02	12509	.04	.038	14068	.03	.015
10115	.55	.084	11127	.31	.008	12510	.50	.025	14101	.36	.038
10117	8.22	—	11128	.42	.072	12583	.224	(a)	14279	.30	.057
10119	(a)	—	11138	2.80	—	12651	.65	.49	14401	.70	.094
10120	18.40	—	11155	.166	—	12683	.30	(a)	14405	1.02	—
10130	2.75	—	11160	(a)	(a)	12707	.40	.65	14527	.247	.181
10132	2.37	—	11167	.64	—	12797	.084	.169	14655	.069	—
10133	2.68	—	11168	3.33	—	12805	.25	.122	14731	2.76	—
10135	(a)	—	11201	15.10	—	12841	.42	—	14732	.204	—
10140	.023	.021	11202	4.47	—	12927	.073	—	14733	.48	—
10141	.046	.024	11203	.72	.54	13049	.026	.054	14734	.207	—
10145	.222	.009	11204	.243	1.46	13111	.64	.097	14855	.14	.162
10146	.26	.015	11205	(a)	—	13112	.043	.069	14913	.26	.097
10150	.38	(a)	11206	.70	—	13201	.58	.167	15060	(a)	(a)
10151	9.69	—	11207	8.86	—	13204	.65	1.40	15061	(a)	(a)
10160	1.73	—	11208	1.52	—	13205	.25	.43	15062	.125	(a)
10204	.174	—	11209	7.13	—	13206	(a)	(a)	15063	.146	(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	.136	—	16750	.081	.031	18707	.009	.003	40117	(a)	—
15119	(a)	—	16751	.081	—	18708	.089	.015	40140	(a)	—
15120	(a)	—	16819	.76	(a)	18833	.109	(a)	41001	.31	—
15123	2.67	—	16820	.59	(a)	18834	.231	.127	41210	(a)	—
15124	.93	—	16881	1.27	(a)	18911	.73	.018	41421	.221	—
15188	.22	(a)	16890	.089	(a)	18912	1.37	.024	41422	.118	—
15223	.033	.033	16891	.097	(a)	18920	.36	.017	41510	36.70	—
15224	.31	.049	16892	.176	(a)	18991	(a)	—	41603	10.40	—
15300	(a)	—	16900	1.36	.064	19007	1.04	—	41604	5.74	—
15314	.166	(a)	16901	.87	.082	19051	2.31	—	41620	1.27	—
15404	.057	(a)	16902	.74	.061	19061	(a)	—	41650	14.70	—
15405	.084	(a)	16905	1.43	.064	19795	.239	(a)	41664	39.00	—
15406	.214	.044	16906	.92	.082	19796	.28	—	41665	4.57	—
15488	.53	(a)	16910	.82	.055	40005	(a)	—	41666	(a)	—
15538	.30	.013	16911	.74	.038	40006	(a)	—	41667	107.00	—
15600	.75	.081	16915	.84	.047	40010	(a)	—	41668	100.00	—
15607	.178	—	16916	.70	.037	40015	(a)	—	41669	.70	—
15608	.166	.011	16920	1.86	.108	40020	(a)	—	41670	1.18	—
15656	4.91	—	16921	1.70	.049	40026	(a)	—	41672	(a)	—
15699	.44	—	16930	1.07	.111	40031	(a)	—	41673	(a)	—
15733	.14	.038	16931	1.15	.045	40032	(a)	—	41675	(a)	—
15839	.223	.022	16940	2.32	.049	40040	(a)	—	41677	.26	—
15991	.182	.077	16941	.93	.068	40041	(a)	—	41678	38.50	—
15993	.154	.045	18078	.11	.155	40042	(a)	—	41679	(a)	(a)
16005	.032	.034	18109	.30	.031	40045	258.00	—	41680	7.65	—
16009	.171	.079	18110	.243	.026	40046	51.00	—	41696	.83	—
16402	1.10	—	18200	(a)	—	40047	18.20	—	41697	.58	—
16403	.70	.106	18205	.169	.31	40059	6.51	—	41700	(a)	—
16404	.88	—	18206	.39	.088	40061	3.45	—	41715	4.86	—
16471	.25	—	18335	.28	.018	40063	115.00	—	41716	3.09	—
16501	.068	(a)	18435	.61	.047	40064	33.90	—	43007	(a)	—
16527	.104	.36	18436	.49	.105	40066	(a)	—	43117	(a)	—
16588	.079	(a)	18437	.41	(a)	40067	(a)	—	43151	15.80	—
16604	.133	.147	18438	.78	(a)	40069	(a)	—	43152	11.50	—
16670	4.66	—	18501	.56	.011	40072	(a)	—	43200	60.30	—
16676	.231	.014	18506	.28	.006	40075	31.80	—	43215	(a)	—
16694	.26	(a)	18507	.146	.008	40101	29.70	—	43421	16.50	—
16705	.194	.152	18570	1.52	—	40102	26.20	—	43422	86.70	—
16722	(a)	—	18575	(a)	(a)	40111	9.14	—	43424	(a)	—
16723	(a)	—	18616	.212	.54	40115	(a)	—	43470	4.82	—

\$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	52.40	—	46004	14.00	—	47471	1.91	—
43518	16.70	—	44280	.26	—	46005	11.20	—	47473	2.50	—
43550	58.90	—	44311	8.64	—	46112	.117	—	47474	2.80	—
43551	32.70	—	44315	5.80	—	46202	4.04	—	47475	2.21	—
43626	13.40	—	44427	107.00	—	46362	134.00	—	47476	2.21	—
43628	174.00	—	44428	108.00	—	46426	19.60	—	47477	2.94	—
43629	147.00	—	44429	1.62	—	46427	26.20	—	47478	3.09	—
43754	(a)	—	44430	1.12	—	46510	(a)	—	47600	(a)	—
43760	4.91	—	44431	3.59	—	46590	(a)	—	47610	(a)	—
43822	3.83	—	44432	1.14	—	46603	1.65	—	48039	42.70	—
43840	.047	—	44433	36.30	—	46604	1.90	—	48177	(a)	—
43860	3.02	—	44434	69.40	—	46606	5.06	—	48178	(a)	—
43889	1.08	—	44435	71.80	—	46607	6.96	—	48206	35.40	—
43945	(a)	—	44436	83.90	—	46622	11.20	—	48252	(a)	—
43946	(a)	—	44437	69.50	—	46671	(a)	—	48441	.149	—
43990	(a)	(a)	44438	54.90	—	46700	121.00	—	48557	14.90	—
43991	(a)	—	44439	107.00	—	46773	(a)	—	48558	12.90	—
44009	3.26	—	44440	88.50	—	46822	(a)	—	48600	39.30	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	14.30	—	44501	(a)	—	46882	(a)	—	48636	.59	(a)
44070	4.23	—	45190	3.18	—	46911	26.50	—	48637	11.40	—
44071	4.71	—	45191	2.26	—	46912	48.50	—	48638	5.64	—
44072	3.25	—	45192	2.64	—	46913	(a)	—	48727	(a)	—
44100	1.45	—	45193	1.56	—	46914	(a)	—	48808	1.26	—
44101	1.51	—	45210	1.97	—	46915	(a)	—	48924	(a)	—
44102	1.18	—	45224	(a)	—	46916	(a)	—	48925	272.00	—
44103	1.04	—	45225	(a)	—	47050	1.05	—	49005	.178	—
44104	.44	—	45334	34.70	—	47051	(a)	—	49111	1.92	—
44105	(a)	—	45380	.163	(a)	47052	(a)	—	49181	14.00	—
44106	(a)	—	45450	10.20	—	47103	(a)	—	49183	17.00	—
44108	.51	—	45523	(a)	—	47146	(a)	—	49184	35.90	—
44109	1.30	—	45524	(a)	—	47147	(a)	—	49185	32.70	—
44110	1.33	—	45539	(a)	—	47221	133.00	—	49239	.122	.65
44111	.81	—	45678	.28	—	47253	(a)	—	49292	1.02	—
44112	.48	—	45771	.249	.176	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.081	.051	47318	10.90	—	49333	7.49	—
44193	(a)	—	45900	.085	.042	47367	.26	—	49451	(a)	—
44194	(a)	—	45901	.073	.047	47420	2.38	—	49452	(a)	—
44222	(a)	—	45937	.136	—	47468	(a)	—	49617	.22	.13
44276	80.90	—	45993	(a)	(a)	47469	2.21	—	49618	.185	.041

## 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	.35	.095	51315	.079	.106	51809	.157	.158	52341	.017	(a)
49763	2.26	—	51330	.036	.43	51833	.123	.072	52342	.049	(a)
49800	(a)	—	51333	.012	.31	51850	.087	(a)	52343	.03	(a)
49801	117.00	—	51340	.015	(a)	51851	.059	(a)	52401	.092	(a)
49802	10.40	—	51350	.19	.142	51852	.138	(a)	52402	.009	(a)
49803	18.40	—	51351	.17	.045	51853	.055	(a)	52432	.042	(a)
49840	1.08	—	51352	.234	.114	51854	.124	(a)	52433	.039	1.20
49870	114.00	—	51355	.159	.096	51855	.13	(a)	52435	.048	(a)
49890	(a)	—	51356	.172	.69	51856	.072	(a)	52438	.035	(a)
49891	(a)	—	51357	.113	.53	51857	.122	(a)	52440	.055	(a)
49902	(a)	—	51358	.27	.149	51869	.042	.14	52467	.051	(a)
49903	(a)	—	51359	.238	.84	51877	.236	.22	52469	.018	.109
50010	.091	.58	51370	.183	5.00	51889	.039	.014	52505	.088	.203
50015	.059	(a)	51380	.018	.05	51896	.018	.02	52547	.079	.088
50017	.045	(a)	51400	.084	(a)	51900	.092	.093	52581	.43	3.68
50045	.103	(a)	51401	.124	(a)	51909	.078	.057	52619	.03	(a)
50047	.012	(a)	51500	.035	.109	51919	.039	(a)	52660	.093	—
51001	.02	.46	51516	.079	—	51926	.04	.04	52744	.47	.094
51005	.004	(a)	51517	.089	—	51927	.022	.115	52767	.073	(a)
51116	.051	.57	51550	.043	.36	51934	.044	.142	52876	(a)	(a)
51201	.016	(a)	51551	.015	.92	51941	.04	.039	52911	.024	.52
51205	.047	.083	51552	.026	.159	51942	.063	—	52967	.009	.064
51206	.007	.45	51553	.046	(a)	51956	.171	.246	53001	.089	.33
51210	.035	(a)	51554	.004	(a)	51957	.151	.40	53077	.043	.197
51211	(a)	(a)	51575	.051	.02	51958	.134	.39	53095	.029	(a)
51220	.121	2.58	51576	.082	.075	51959	.137	(a)	53096	.041	(a)
51221	.067	1.94	51600	.056	.198	51960	.018	.36	53121	.115	.46
51222	.082	3.12	51613	.037	.138	51970	.079	.25	53147	.012	(a)
51224	.086	1.33	51625	.018	(a)	51982	.023	.085	53229	.069	(a)
51230	.015	.79	51666	.081	.103	51985	.073	—	53271	.022	(a)
51240	.187	.182	51702	.055	(a)	51986	.091	.107	53333	.068	.213
51241	.56	.30	51703	.023	(a)	51999	.038	.46	53374	.124	.38
51250	.093	(a)	51734	.043	.31	52002	.034	.118	53375	.066	.25
51251	.016	(a)	51741	.097	.25	52075	.068	.25	53376	.106	.187
51252	.057	.101	51752	.082	.159	52076	.082	(a)	53377	.108	.211
51253	.048	(a)	51767	.024	.009	52109	.009	(a)	53403	.068	(a)
51254	.015	.045	51777	.082	.076	52134	.113	.70	53425	.064	(a)
51255	.235	(a)	51790	.137	(a)	52137	.027	(a)	53565	.08	.124
51300	.113	.173	51796	.036	(a)	52150	.208	(a)	53631	.013	.022
51305	.113	1.03	51808	.126	.73	52315	.107	.24	53632	.015	.035



\$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	.014	(a)	56170	.063	(a)	57401	.028	.098	58503	.034	.061
53732	.096	.46	56171	.031	(a)	57403	.168	.036	58532	.043	(a)
53733	.063	.26	56202	.032	.10	57410	.014	.13	58559	.009	(a)
53734	.47	—	56390	.056	.63	57411	.016	(a)	58560	.021	(a)
53803	.152	(a)	56391	.048	.32	57572	.008	.094	58561	(a)	(a)
53901	(a)	(a)	56427	.078	.125	57600	.024	.033	58575	.028	.123
53902	(a)	(a)	56488	.137	.034	57611	.034	.064	58627	.088	.016
53903	(a)	(a)	56567	.065	(a)	57625	.209	(a)	58663	.144	1.59
53904	(a)	(a)	56650	.199	(a)	57651	.025	.043	58682	.079	(a)
53905	(a)	(a)	56651	.108	(a)	57690	.044	.51	58713	.052	(a)
53907	.042	.111	56652	.077	(a)	57716	.021	.087	58737	.057	.74
53951	(a)	(a)	56653	.074	(a)	57725	.045	.091	58756	.027	(a)
53952	(a)	(a)	56654	.038	(a)	57726	.035	.019	58757	.192	(a)
53953	(a)	(a)	56690	.071	.36	57798	.013	(a)	58759	.024	(a)
54012	.047	—	56699	.036	.051	57800	.048	(a)	58802	.027	.45
54077	.058	.37	56758	.03	.155	57808	.017	(a)	58813	.066	(a)
54444	(a)	(a)	56759	.031	.093	57809	.018	(a)	58822	.074	(a)
55010	.175	1.10	56760	.045	.106	57810	.017	.109	58837	.133	.165
55011	.047	1.26	56805	.059	(a)	57871	.021	.116	58840	.04	.111
55012	.056	1.17	56806	.042	(a)	57913	.062	.31	58873	.063	.03
55013	.058	.99	56807	.041	(a)	57997	.105	—	58903	.017	(a)
55014	(a)	(a)	56808	.054	(a)	57998	.028	.059	58904	.013	.131
55214	.046	.089	56900	.052	(a)	57999	.029	.071	58922	.105	.187
55371	.32	.13	56910	.026	(a)	58009	.029	(a)	59005	.032	.096
55410	(a)	(a)	56911	.056	(a)	58010	.064	(a)	59057	.239	(a)
55426	.07	(a)	56912	.045	.084	58020	.18	(a)	59058	.155	(a)
55597	.011	1.78	56913	.037	(a)	58056	.076	(a)	59188	.36	.056
55647	.023	.056	56915	.219	(a)	58057	.048	(a)	59189	.49	.30
55648	.01	(a)	56916	.197	.187	58058	.043	(a)	59223	.065	.077
55649	.012	(a)	56917	.057	(a)	58095	.061	1.83	59257	.009	.015
55715	.091	.234	56918	.027	(a)	58096	.081	1.04	59306	.055	(a)
55716	.131	.52	56919	.07	(a)	58301	.022	.082	59378	.042	.152
55717	.092	(a)	56920	.064	(a)	58302	.022	.055	59481	.147	.088
55718	.089	(a)	56980	.045	(a)	58397	.126	.83	59482	.37	(a)
55802	.082	.009	57001	.015	.021	58408	.062	—	59537	.046	.168
55918	.052	3.19	57002	.01	.11	58409	.079	—	59601	.055	2.31
55919	.007	3.64	57090	.102	.63	58456	.042	—	59647	.167	.176
56040	.005	.04	57146	.065	.67	58457	.061	—	59660	.102	1.14
56041	.032	(a)	57202	.04	(a)	58458	.079	—	59661	.05	(a)
56042	.041	(a)	57257	.049	.036	58459	.094	—	59693	.008	—

## 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
59695	(a)	(a)	59964	.25	.061	63220	(a)	—	91190	2.10	(a)
59701	.004	.244	59970	.039	.182	64074	22.50	—	91200	.68	—
59713	.091	.33	59973	.07	(a)	64075	15.80	—	91210	(a)	—
59722	.047	.032	59975	.055	.243	64500	(a)	—	91235	1.76	2.38
59723	.018	.038	59977	.031	(a)	65007	20.90	—	91250	2.65	(a)
59724	.027	.022	59984	.019	.055	66122	8.99	—	91265	14.60	3.26
59725	.034	.104	59985	.074	(a)	66123	4.94	—	91266	7.73	.86
59726	.025	.024	59986	.057	(a)	66309	14.40	—	91280	(a)	1.57
59738	.079	.066	59988	.014	.06	66561	33.40	—	91302	11.20	(a)
59750	.034	.24	59989	.01	.045	67017	31.00	—	91315	3.40	—
59751	.012	(a)	60010	30.30	—	67508	17.70	—	91324	7.57	(a)
59773	.021	.028	60011	34.90	—	67509	12.90	—	91325	(a)	(a)
59774	.017	.152	60012	57.30	—	67510	7.21	—	91340	4.94	7.05
59775	.022	.189	60013	49.10	—	67511	7.80	—	91341	4.48	3.62
59781	.03	.076	60015	36.70	—	67512	33.40	—	91342	4.53	2.84
59782	.044	.49	60016	41.30	—	67513	21.20	—	91343	.99	1.35
59783	.043	(a)	60035	23.60	—	67634	26.80	—	91405	5.76	—
59784	.033	(a)	61000	30.00	—	67635	19.00	—	91436	5.06	2.39
59790	.061	(a)	61212	12.70	—	68001	58.00	—	91481	18.50	—
59798	.112	.46	61216	14.10	—	68439	74.60	—	91507	2.72	2.98
59806	.081	(a)	61217	12.80	—	68500	6.67	—	91523	42.00	—
59867	.068	(a)	61218	8.74	—	68604	1.39	—	91547	.239	—
59886	.009	.112	61223	59.00	—	68606	5.44	—	91551	1.48	.57
59889	.07	.153	61224	20.90	—	68607	4.30	—	91555	1.06	.78
59892	.043	(a)	61225	29.00	—	68702	3.55	—	91560	4.27	3.59
59904	.029	.066	61226	46.20	—	68703	2.66	—	91562	3.30	—
59905	.043	.13	61227	42.30	—	68706	11.40	—	91577	11.80	2.46
59914	.25	.62	62000	9.62	—	68707	11.30	—	91580	5.64	—
59915	.097	.78	62001	7.22	—	90089	4.28	—	91581	(a)	(a)
59917	.018	.165	62002	3.29	—	91111	2.27	4.51	91582	(a)	(a)
59923	.006	.005	62003	10.40	—	91125	2.58	2.19	91583	(a)	(a)
59925	.244	1.09	63010	54.60	—	91127	1.53	1.27	91584	(a)	(a)
59926	.208	.42	63011	68.20	—	91130	1.20	—	91585	(a)	(a)
59927	.14	1.56	63012	97.10	—	91135	.33	(a)	91586	(a)	(a)
59931	.113	.59	63013	91.90	—	91150	1.44	3.70	91587	(a)	(a)
59932	.122	.93	63215	34.30	—	91155	3.21	23.30	91588	(a)	(a)
59941	.038	(a)	63216	23.80	—	91160	1.04	—	91589	(a)	(a)
59947	.029	.33	63217	51.80	—	91175	.89	—	91590	3.42	—
59955	.014	.147	63218	17.40	—	91177	3.90	—	91591	(a)	(a)
59963	.108	.45	63219	(a)	—	91179	3.92	—	91606	11.70	—

\$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
91618	(a)	(a)	95357	1.20	—	97653	3.11	2.71	98426	2.52	(a)
91629	2.39	(a)	95358	(a)	—	97654	5.41	2.69	98427	2.45	—
91636	4.10	—	95410	4.40	2.43	97655	4.49	3.71	98428	(a)	—
91641	1.11	(a)	95455	4.96	1.45	98002	.81	.66	98429	1.07	—
91666	.92	(a)	95487	2.36	(a)	98003	.97	(a)	98430	(a)	—
91722	3.59	(a)	95505	2.31	1.52	98090	.131	—	98449	3.52	17.40
91746	3.30	4.02	95620	1.91	(a)	98091	.142	—	98482	3.77	5.41
91805	.207	—	95625	5.35	2.69	98092	.43	—	98483	5.57	14.70
92053	.51	.39	95630	(a)	(a)	98111	.45	—	98502	5.34	3.03
92054	.175	.177	95647	2.12	4.71	98150	(a)	—	98555	2.48	—
92055	4.89	.212	95648	(a)	(a)	98151	(a)	—	98597	.56	—
92101	7.64	2.65	96053	1.61	3.88	98152	2.73	.47	98598	.191	—
92102	4.60	2.34	96317	1.24	—	98153	3.08	(a)	98601	6.39	(a)
92215	2.53	1.94	96408	3.81	11.40	98154	3.63	(a)	98622	(a)	—
92338	1.77	1.22	96409	3.52	10.20	98155	5.09	(a)	98623	(a)	—
92445	2.35	—	96410	3.09	7.00	98156	(a)	(a)	98624	1.00	—
92446	5.81	1.75	96611	1.13	1.59	98157	3.25	.39	98636	2.17	2.89
92447	5.08	1.54	96702	4.38	(a)	98158	(a)	(a)	98640	110.00	—
92451	1.76	2.07	96703	(a)	—	98159	2.18	(a)	98658	5.26	—
92453	3.22	—	96816	4.11	—	98160	4.62	(a)	98659	.94	.40
92478	1.59	1.68	96872	4.40	(a)	98161	5.17	(a)	98677	17.40	8.31
92593	23.10	—	96930	(a)	—	98162	(a)	(a)	98678	15.40	10.00
92663	.56	—	97002	(a)	(a)	98163	5.43	.237	98698	(a)	(a)
94007	10.90	4.05	97003	(a)	(a)	98164	1.49	.072	98699	5.02	(a)
94099	2.48	—	97047	3.44	—	98257	1.47	—	98705	7.44	—
94225	8.74	—	97050	2.67	—	98303	10.20	6.05	98710	3.49	—
94276	4.55	3.23	97111	5.26	—	98304	5.43	2.66	98751	3.97	—
94304	2.25	(a)	97220	.32	(a)	98305	2.76	1.17	98805	4.55	.85
94381	4.23	8.69	97221	(a)	.91	98306	7.12	.62	98806	2.02	3.07
94404	4.32	4.77	97222	1.17	1.85	98307	1.72	.41	98810	3.90	—
94444	(a)	(a)	97223	1.76	1.90	98308	1.13	.57	98813	3.76	1.63
94569	2.91	2.93	97308	.60	—	98309	5.13	1.42	98820	8.70	2.54
94590	12.60	—	97447	1.97	3.17	98344	.77	.59	98871	(a)	(a)
94617	3.97	—	97501	(a)	—	98405	1.27	—	98884	2.26	1.01
94638	(a)	—	97502	(a)	—	98413	14.30	(a)	98914	.64	.43
95124	1.47	.43	97503	(a)	—	98414	13.10	(a)	98949	.90	.28
95233	3.14	—	97504	(a)	—	98415	1.72	(a)	98967	3.55	6.55
95305	3.41	—	97650	3.63	2.66	98423	4.09	(a)	98993	4.14	3.79
95306	4.70	—	97651	5.81	3.14	98424	6.94	(a)	99003	1.69	1.13
95310	8.14	1.10	97652	5.04	3.86	98425	2.85	(a)	99004	3.13	1.21

\$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	1.19	7.99	99826	.77	.35						
99081	(a)	—	99827	.43	.42						
99082	(a)	—	99851	1.75	—						
99083	(a)	—	99917	2.83	—						
99084	(a)	(a)	99938	3.19	—						
99085	(a)	(a)	99943	9.24	—						
99111	1.74	—	99946	6.88	2.00						
99160	(a)	—	99948	4.99	22.40						
99163	4.14	.52	99952	5.71	14.30						
99165	.91	(a)	99953	6.16	7.73						
99220	1.41	(a)	99954	4.49	7.55						
99221	(a)	(a)	99955	5.62	6.89						
99222	2.65	(a)	99963	.68	—						
99223	.25	(a)	99969	2.56	1.58						
99303	13.90	—	99975	4.99	—						
99310	3.47	(a)	99986	(a)	—						
99315	10.20	1.48	99987	(a)	—						
99321	9.91	2.32	99988	2.26	—						
99445	(a)	(a)									
99471	.64	—									
99505	3.50	—									
99506	4.31	—									
99507	3.76	—									
99570	2.02	(a)									
99571	.49	(a)									
99572	.96	(a)									
99573	.91	(a)									
99600	1.36	—									
99613	8.78	2.08									
99614	3.04	—									
99620	.48	—									
99650	.96	.88									
99709	2.36	(a)									
99718	1.40	—									
99746	2.37	2.01									
99760	.27	—									
99777	6.75	—									
99793	3.01	—									
99798	(a)	(a)									
99803	(a)	7.09									

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	.055	.184	10205	.129	—	11210	1.50	—	13207	(a)	(a)
10015	4.96	—	10220	2.43	—	11211	7.80	—	13208	(a)	(a)
10020	(a)	(a)	10255	.133	.131	11212	1.18	—	13314	.062	.017
10026	.33	.018	10256	.49	.147	11213	.96	—	13351	.151	.029
10036	.36	(a)	10257	.092	.167	11214	2.37	—	13352	.153	.04
10040	.042	.28	10309	.083	.016	11222	.04	—	13410	.76	2.44
10042	.191	.32	10315	.197	(a)	11234	.145	.062	13411	(a)	(a)
10052	3.43	—	10331	6.72	—	11248	.025	.019	13412	.26	1.01
10054	3.04	—	10332	11.60	—	11258	.46	.187	13453	.30	(a)
10060	.092	.05	10352	.224	.058	11259	.50	.131	13454	.35	(a)
10065	.137	.029	10367	2.01	—	11273	7.21	—	13455	.35	(a)
10066	.14	.061	10368	2.93	—	11274	6.92	—	13461	(a)	(a)
10070	.032	.141	10375	(a)	—	11288	.57	.069	13506	.47	.065
10071	.164	.086	10378	6.81	—	12014	.054	.036	13507	.57	.178
10072	2.27	—	10379	3.16	—	12356	.61	.028	13590	.26	.74
10073	.56	.41	10380	5.39	—	12361	.039	.082	13621	.066	.36
10075	4.14	.173	10381	4.67	—	12362	.035	(a)	13670	.022	.013
10100	.38	.042	11007	.85	—	12373	.013	.025	13673	.35	.01
10101	.124	.166	11020	.156	.126	12374	.32	.049	13715	.035	.154
10105	1.34	—	11039	.48	.048	12375	.156	.035	13716	.234	.121
10107	1.70	.197	11052	1.96	—	12391	.026	.091	13720	.198	.05
10110	16.90	—	11101	(a)	(a)	12393	.207	(a)	13759	.092	.111
10111	.069	.083	11120	(a)	—	12467	.086	(a)	13930	.074	.211
10113	.186	—	11126	.032	.02	12509	.033	.038	14068	.02	.015
10115	.37	.084	11127	.176	.008	12510	.42	.025	14101	.237	.038
10117	4.92	—	11128	.238	.072	12583	.187	(a)	14279	.25	.057
10119	(a)	—	11138	1.68	—	12651	.55	.49	14401	.47	.094
10120	11.00	—	11155	.11	—	12683	.25	(a)	14405	.50	—
10130	1.83	—	11160	(a)	(a)	12707	.228	.65	14527	.141	.181
10132	1.58	—	11167	.45	—	12797	.048	.169	14655	.046	—
10133	1.89	—	11168	2.34	—	12805	.167	.122	14731	1.95	—
10135	(a)	—	11201	7.47	—	12841	.28	—	14732	.144	—
10140	.018	.021	11202	2.21	—	12927	.048	—	14733	.32	—
10141	.036	.024	11203	.41	.54	13049	.02	.054	14734	.137	—
10145	.173	.009	11204	.162	1.46	13111	.43	.097	14855	.117	.162
10146	.172	.015	11205	(a)	—	13112	.033	.069	14913	.172	.097
10150	.26	(a)	11206	.35	—	13201	.48	.167	15060	(a)	(a)
10151	6.44	—	11207	4.38	—	13204	.55	1.40	15061	(a)	(a)
10160	1.15	—	11208	.75	—	13205	.21	.43	15062	.105	(a)
10204	.116	—	11209	3.52	—	13206	(a)	(a)	15063	.122	(a)

## DIVISION SIX

PREM/OPS TERR. 504

## GENERAL LIABILITY

PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	.067	—	16750	.054	.031	18707	.005	.003	40117	(a)	—
15119	(a)	—	16751	.054	—	18708	.059	.015	40140	(a)	—
15120	(a)	—	16819	.63	(a)	18833	.062	(a)	41001	.185	—
15123	1.88	—	16820	.49	(a)	18834	.153	.127	41210	(a)	—
15124	.66	—	16881	.84	(a)	18911	.48	.018	41421	.231	—
15188	.185	(a)	16890	.074	(a)	18912	.91	.024	41422	.123	—
15223	.026	.033	16891	.081	(a)	18920	.237	.017	41510	24.40	—
15224	.209	.049	16892	.147	(a)	18991	(a)	—	41603	10.90	—
15300	(a)	—	16900	.99	.064	19007	.74	—	41604	6.00	—
15314	.11	(a)	16901	.64	.082	19051	1.63	—	41620	.63	—
15404	.048	(a)	16902	.54	.061	19061	(a)	—	41650	15.40	—
15405	.07	(a)	16905	1.04	.064	19795	.159	(a)	41664	23.40	—
15406	.179	.044	16906	.67	.082	19796	.186	—	41665	2.74	—
15488	.45	(a)	16910	.59	.055	40005	(a)	—	41666	(a)	—
15538	.197	.013	16911	.54	.038	40006	(a)	—	41667	63.90	—
15600	.50	.081	16915	.61	.047	40010	(a)	—	41668	59.90	—
15607	.088	—	16916	.51	.037	40015	(a)	—	41669	.42	—
15608	.11	.011	16920	1.35	.108	40020	(a)	—	41670	.71	—
15656	3.26	—	16921	1.24	.049	40026	(a)	—	41672	(a)	—
15699	.217	—	16930	.78	.111	40031	(a)	—	41673	(a)	—
15733	.117	.038	16931	.84	.045	40032	(a)	—	41675	(a)	—
15839	.148	.022	16940	1.69	.049	40040	(a)	—	41677	.129	—
15991	.121	.077	16941	.68	.068	40041	(a)	—	41678	31.80	—
15993	.102	.045	18078	.063	.155	40042	(a)	—	41679	(a)	(a)
16005	.018	.034	18109	.202	.031	40045	154.00	—	41680	8.00	—
16009	.143	.079	18110	.162	.026	40046	30.50	—	41696	.41	—
16402	.73	—	18200	(a)	—	40047	10.90	—	41697	.28	—
16403	.46	.106	18205	.097	.31	40059	3.90	—	41700	(a)	—
16404	.58	—	18206	.26	.088	40061	2.07	—	41715	5.08	—
16471	.124	—	18335	.188	.018	40063	69.20	—	41716	3.23	—
16501	.039	(a)	18435	.41	.047	40064	20.30	—	43007	(a)	—
16527	.06	.36	18436	.33	.105	40066	(a)	—	43117	(a)	—
16588	.066	(a)	18437	.27	(a)	40067	(a)	—	43151	6.54	—
16604	.112	.147	18438	.52	(a)	40069	(a)	—	43152	9.53	—
16670	2.79	—	18501	.37	.011	40072	(a)	—	43200	24.90	—
16676	.153	.014	18506	.234	.006	40075	13.20	—	43215	(a)	—
16694	.22	(a)	18507	.097	.008	40101	10.20	—	43421	6.82	—
16705	.111	.152	18570	1.01	—	40102	8.97	—	43422	35.80	—
16722	(a)	—	18575	(a)	(a)	40111	5.48	—	43424	(a)	—
16723	(a)	—	18616	.178	.54	40115	(a)	—	43470	2.38	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	21.70	—	46004	14.60	—	47471	2.00	—
43518	10.00	—	44280	.129	—	46005	11.70	—	47473	2.62	—
43550	24.30	—	44311	5.18	—	46112	.04	—	47474	2.92	—
43551	13.50	—	44315	3.48	—	46202	2.04	—	47475	2.31	—
43626	8.02	—	44427	36.70	—	46362	111.00	—	47476	2.31	—
43628	104.00	—	44428	36.90	—	46426	16.20	—	47477	3.08	—
43629	88.30	—	44429	.55	—	46427	21.70	—	47478	3.23	—
43754	(a)	—	44430	.38	—	46510	(a)	—	47600	(a)	—
43760	2.94	—	44431	1.23	—	46590	(a)	—	47610	(a)	—
43822	1.89	—	44432	.39	—	46603	1.36	—	48039	17.70	—
43840	.023	—	44433	12.40	—	46604	1.57	—	48177	(a)	—
43860	1.49	—	44434	23.70	—	46606	4.19	—	48178	(a)	—
43889	.53	—	44435	24.60	—	46607	5.76	—	48206	21.20	—
43945	(a)	—	44436	28.70	—	46622	5.53	—	48252	(a)	—
43946	(a)	—	44437	23.80	—	46671	(a)	—	48441	.089	—
43990	(a)	(a)	44438	18.80	—	46700	50.10	—	48557	8.91	—
43991	(a)	—	44439	36.60	—	46773	(a)	—	48558	7.75	—
44009	2.29	—	44440	30.30	—	46822	(a)	—	48600	32.50	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	8.57	—	44501	(a)	—	46882	(a)	—	48636	1.10	(a)
44070	2.54	—	45190	1.61	—	46911	15.90	—	48637	6.81	—
44071	2.82	—	45191	1.14	—	46912	29.10	—	48638	3.38	—
44072	1.95	—	45192	1.34	—	46913	(a)	—	48727	(a)	—
44100	3.25	—	45193	.79	—	46914	(a)	—	48808	.83	—
44101	3.39	—	45210	1.00	—	46915	(a)	—	48924	(a)	—
44102	2.64	—	45224	(a)	—	46916	(a)	—	48925	163.00	—
44103	2.34	—	45225	(a)	—	47050	.52	—	49005	.088	—
44104	.98	—	45334	14.40	—	47051	(a)	—	49111	1.28	—
44105	(a)	—	45380	.137	(a)	47052	(a)	—	49181	5.77	—
44106	(a)	—	45450	4.22	—	47103	(a)	—	49183	7.04	—
44108	1.15	—	45523	(a)	—	47146	(a)	—	49184	14.80	—
44109	2.91	—	45524	(a)	—	47147	(a)	—	49185	13.50	—
44110	2.98	—	45539	(a)	—	47221	54.90	—	49239	.102	.65
44111	1.83	—	45678	.14	—	47253	(a)	—	49292	.42	—
44112	1.08	—	45771	.208	.176	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.068	.051	47318	6.52	—	49333	3.10	—
44193	(a)	—	45900	.057	.042	47367	.129	—	49451	(a)	—
44194	(a)	—	45901	.048	.047	47420	1.43	—	49452	(a)	—
44222	(a)	—	45937	.056	—	47468	(a)	—	49617	.155	.13
44276	33.40	—	45993	(a)	(a)	47469	2.31	—	49618	.13	.041

## DIVISION SIX

## PREM/OPS TERR. 504

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	.245	.095	51315	.066	.106	51809	.135	.158	52341	.031	(a)
49763	1.59	—	51330	.067	.43	51833	.06	.072	52342	.091	(a)
49800	(a)	—	51333	.022	.31	51850	.162	(a)	52343	.055	(a)
49801	48.40	—	51340	.013	(a)	51851	.11	(a)	52401	.172	(a)
49802	4.29	—	51350	.092	.142	51852	.26	(a)	52402	.007	(a)
49803	7.60	—	51351	.083	.045	51853	.104	(a)	52432	.036	(a)
49840	.53	—	51352	.113	.114	51854	.232	(a)	52433	.033	1.20
49870	68.10	—	51355	.077	.096	51855	.244	(a)	52435	.042	(a)
49890	(a)	—	51356	.083	.69	51856	.134	(a)	52438	.03	(a)
49891	(a)	—	51357	.094	.53	51857	.229	(a)	52440	.047	(a)
49902	(a)	—	51358	.227	.149	51869	.036	.14	52467	.044	(a)
49903	(a)	—	51359	.199	.84	51877	.204	.22	52469	.015	.109
50010	.079	.58	51370	.158	5.00	51889	.033	.014	52505	.076	.203
50015	.051	(a)	51380	.016	.05	51896	.016	.02	52547	.149	.088
50017	.039	(a)	51400	.157	(a)	51900	.045	.093	52581	.37	3.68
50045	.089	(a)	51401	.231	(a)	51909	.146	.057	52619	.026	(a)
50047	.01	(a)	51500	.03	.109	51919	.034	(a)	52660	.046	—
51001	.038	.46	51516	.039	—	51926	.034	.04	52744	.229	.094
51005	.008	(a)	51517	.044	—	51927	.019	.115	52767	.136	(a)
51116	.095	.57	51550	.037	.36	51934	.038	.142	52876	(a)	(a)
51201	.013	(a)	51551	.013	.92	51941	.034	.039	52911	.021	.52
51205	.041	.083	51552	.022	.159	51942	.055	—	52967	.008	.064
51206	.006	.45	51553	.04	(a)	51956	.148	.246	53001	.077	.33
51210	.066	(a)	51554	.004	(a)	51957	.13	.40	53077	.037	.197
51211	(a)	(a)	51575	.025	.02	51958	.116	.39	53095	.025	(a)
51220	.226	2.58	51576	.071	.075	51959	.119	(a)	53096	.035	(a)
51221	.125	1.94	51600	.048	.198	51960	.016	.36	53121	.10	.46
51222	.153	3.12	51613	.032	.138	51970	.068	.25	53147	.023	(a)
51224	.16	1.33	51625	.035	(a)	51982	.02	.085	53229	.129	(a)
51230	.027	.79	51666	.039	.103	51985	.036	—	53271	.019	(a)
51240	.162	.182	51702	.104	(a)	51986	.079	.107	53333	.127	.213
51241	.48	.30	51703	.043	(a)	51999	.033	.46	53374	.06	.38
51250	.174	(a)	51734	.081	.31	52002	.029	.118	53375	.032	.25
51251	.014	(a)	51741	.084	.25	52075	.128	.25	53376	.051	.187
51252	.049	.101	51752	.071	.159	52076	.154	(a)	53377	.052	.211
51253	.042	(a)	51767	.011	.009	52109	.007	(a)	53403	.033	(a)
51254	.013	.045	51777	.04	.076	52134	.098	.70	53425	.119	(a)
51255	.44	(a)	51790	.066	(a)	52137	.05	(a)	53565	.039	.124
51300	.055	.173	51796	.031	(a)	52150	.18	(a)	53631	.012	.022
51305	.055	1.03	51808	.109	.73	52315	.052	.24	53632	.013	.035



\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	.012	(a)	56170	.117	(a)	57401	.024	.098	58503	.029	.061
53732	.083	.46	56171	.058	(a)	57403	.081	.036	58532	.038	(a)
53733	.054	.26	56202	.028	.10	57410	.012	.13	58559	.008	(a)
53734	.233	—	56390	.049	.63	57411	.029	(a)	58560	.018	(a)
53803	.28	(a)	56391	.042	.32	57572	.007	.094	58561	(a)	(a)
53901	(a)	(a)	56427	.067	.125	57600	.021	.033	58575	.024	.123
53902	(a)	(a)	56488	.066	.034	57611	.063	.064	58627	.076	.016
53903	(a)	(a)	56567	.121	(a)	57625	.18	(a)	58663	.27	1.59
53904	(a)	(a)	56650	.37	(a)	57651	.022	.043	58682	.068	(a)
53905	(a)	(a)	56651	.202	(a)	57690	.082	.51	58713	.025	(a)
53907	.037	.111	56652	.144	(a)	57716	.039	.087	58737	.049	.74
53951	(a)	(a)	56653	.139	(a)	57725	.085	.091	58756	.05	(a)
53952	(a)	(a)	56654	.071	(a)	57726	.066	.019	58757	.166	(a)
53953	(a)	(a)	56690	.034	.36	57798	.011	(a)	58759	.021	(a)
54012	.023	—	56699	.031	.051	57800	.041	(a)	58802	.023	.45
54077	.05	.37	56758	.026	.155	57808	.032	(a)	58813	.123	(a)
54444	(a)	(a)	56759	.027	.093	57809	.033	(a)	58822	.064	(a)
55010	.151	1.10	56760	.039	.106	57810	.032	.109	58837	.248	.165
55011	.041	1.26	56805	.051	(a)	57871	.039	.116	58840	.074	.111
55012	.049	1.17	56806	.036	(a)	57913	.054	.31	58873	.118	.03
55013	.108	.99	56807	.036	(a)	57997	.052	—	58903	.015	(a)
55014	(a)	(a)	56808	.047	(a)	57998	.024	.059	58904	.011	.131
55214	.039	.089	56900	.045	(a)	57999	.053	.071	58922	.197	.187
55371	.154	.13	56910	.022	(a)	58009	.053	(a)	59005	.028	.096
55410	(a)	(a)	56911	.105	(a)	58010	.055	(a)	59057	.206	(a)
55426	.131	(a)	56912	.085	.084	58020	.087	(a)	59058	.134	(a)
55597	.01	1.78	56913	.069	(a)	58056	.066	(a)	59188	.174	.056
55647	.02	.056	56915	.41	(a)	58057	.041	(a)	59189	.238	.30
55648	.009	(a)	56916	.37	.187	58058	.037	(a)	59223	.122	.077
55649	.011	(a)	56917	.107	(a)	58095	.052	1.83	59257	.008	.015
55715	.078	.234	56918	.051	(a)	58096	.07	1.04	59306	.047	(a)
55716	.113	.52	56919	.131	(a)	58301	.041	.082	59378	.079	.152
55717	.173	(a)	56920	.119	(a)	58302	.019	.055	59481	.127	.088
55718	.167	(a)	56980	.039	(a)	58397	.109	.83	59482	.181	(a)
55802	.04	.009	57001	.013	.021	58408	.031	—	59537	.086	.168
55918	.045	3.19	57002	.009	.11	58409	.039	—	59601	.048	2.31
55919	.006	3.64	57090	.191	.63	58456	.021	—	59647	.081	.176
56040	.004	.04	57146	.121	.67	58457	.03	—	59660	.088	1.14
56041	.028	(a)	57202	.034	(a)	58458	.039	—	59661	.043	(a)
56042	.035	(a)	57257	.043	.036	58459	.047	—	59693	.007	—

## DIVISION SIX

## PREM/OPS TERR. 504

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	.218	.061	63220	(a)	—	91190	2.10	(a)
59701	.003	.244	59970	.073	.182	64074	11.40	—	91200	.68	—
59713	.079	.33	59973	.06	(a)	64075	8.00	—	91210	(a)	—
59722	.041	.032	59975	.102	.243	64500	(a)	—	91235	1.76	2.38
59723	.015	.038	59977	.059	(a)	65007	17.30	—	91250	2.65	(a)
59724	.023	.022	59984	.016	.055	66122	7.43	—	91265	14.60	3.26
59725	.029	.104	59985	.064	(a)	66123	4.08	—	91266	7.73	.86
59726	.021	.024	59986	.049	(a)	66309	11.90	—	91280	(a)	1.57
59738	.068	.066	59988	.026	.06	66561	27.60	—	91302	11.20	(a)
59750	.064	.24	59989	.009	.045	67017	25.70	—	91315	3.40	—
59751	.023	(a)	60010	21.10	—	67508	18.50	—	91324	7.57	(a)
59773	.01	.028	60011	24.30	—	67509	13.50	—	91325	(a)	(a)
59774	.008	.152	60012	40.00	—	67510	7.54	—	91340	4.94	7.05
59775	.011	.189	60013	34.20	—	67511	8.16	—	91341	4.48	3.62
59781	.055	.076	60015	25.60	—	67512	34.90	—	91342	4.53	2.84
59782	.083	.49	60016	28.80	—	67513	22.20	—	91343	.99	1.35
59783	.081	(a)	60035	19.50	—	67634	22.20	—	91405	5.76	—
59784	.062	(a)	61000	20.90	—	67635	15.70	—	91436	5.06	2.39
59790	.052	(a)	61212	10.50	—	68001	48.00	—	91481	18.50	—
59798	.21	.46	61216	11.60	—	68439	61.70	—	91507	2.72	2.98
59806	.151	(a)	61217	10.60	—	68500	4.65	—	91523	42.00	—
59867	.059	(a)	61218	7.22	—	68604	1.15	—	91547	.239	—
59886	.008	.112	61223	48.80	—	68606	4.50	—	91551	1.48	.57
59889	.034	.153	61224	17.30	—	68607	3.56	—	91555	1.06	.78
59892	.081	(a)	61225	24.00	—	68702	2.93	—	91560	4.27	3.59
59904	.054	.066	61226	38.20	—	68703	2.20	—	91562	3.30	—
59905	.037	.13	61227	35.00	—	68706	9.42	—	91577	11.80	2.46
59914	.217	.62	62000	7.96	—	68707	9.32	—	91580	5.64	—
59915	.181	.78	62001	5.97	—	90089	4.28	—	91581	(a)	(a)
59917	.033	.165	62002	2.72	—	91111	2.27	4.51	91582	(a)	(a)
59923	.005	.005	62003	8.59	—	91125	2.58	2.19	91583	(a)	(a)
59925	.204	1.09	63010	38.10	—	91127	1.53	1.27	91584	(a)	(a)
59926	.174	.42	63011	47.60	—	91130	1.20	—	91585	(a)	(a)
59927	.117	1.56	63012	67.60	—	91135	.33	(a)	91586	(a)	(a)
59931	.098	.59	63013	64.10	—	91150	1.44	3.70	91587	(a)	(a)
59932	.105	.93	63215	28.40	—	91155	3.21	23.30	91588	(a)	(a)
59941	.033	(a)	63216	19.70	—	91160	1.04	—	91589	(a)	(a)
59947	.054	.33	63217	31.00	—	91175	.89	—	91590	3.42	—
59955	.013	.147	63218	10.50	—	91177	3.90	—	91591	(a)	(a)
59963	.093	.45	63219	(a)	—	91179	3.92	—	91606	11.70	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	1.20	—	97653	3.11	2.71	98426	2.52	(a)
91629	2.39	(a)	95358	(a)	—	97654	5.41	2.69	98427	2.45	—
91636	4.10	—	95410	4.40	2.43	97655	4.49	3.71	98428	(a)	—
91641	1.11	(a)	95455	4.96	1.45	98002	.81	.66	98429	1.07	—
91666	.92	(a)	95487	2.36	(a)	98003	.97	(a)	98430	(a)	—
91722	3.59	(a)	95505	2.31	1.52	98090	.131	—	98449	3.52	17.40
91746	3.30	4.02	95620	1.91	(a)	98091	.142	—	98482	3.77	5.41
91805	.207	—	95625	5.35	2.69	98092	.43	—	98483	5.57	14.70
92053	.51	.39	95630	(a)	(a)	98111	.45	—	98502	5.34	3.03
92054	.175	.177	95647	2.12	4.71	98150	(a)	—	98555	2.48	—
92055	4.89	.212	95648	(a)	(a)	98151	(a)	—	98597	.56	—
92101	7.64	2.65	96053	1.61	3.88	98152	2.73	.47	98598	.191	—
92102	4.60	2.34	96317	1.24	—	98153	3.08	(a)	98601	6.39	(a)
92215	2.53	1.94	96408	3.81	11.40	98154	3.63	(a)	98622	(a)	—
92338	1.77	1.22	96409	3.52	10.20	98155	5.09	(a)	98623	(a)	—
92445	2.35	—	96410	3.09	7.00	98156	(a)	(a)	98624	1.00	—
92446	5.81	1.75	96611	1.13	1.59	98157	3.25	.39	98636	2.17	2.89
92447	5.08	1.54	96702	4.38	(a)	98158	(a)	(a)	98640	110.00	—
92451	1.76	2.07	96703	(a)	—	98159	2.18	(a)	98658	5.26	—
92453	3.22	—	96816	4.11	—	98160	4.62	(a)	98659	.94	.40
92478	1.59	1.68	96872	4.40	(a)	98161	5.17	(a)	98677	17.40	8.31
92593	23.10	—	96930	(a)	—	98162	(a)	(a)	98678	15.40	10.00
92663	.56	—	97002	(a)	(a)	98163	5.43	.237	98698	(a)	(a)
94007	10.90	4.05	97003	(a)	(a)	98164	1.49	.072	98699	5.02	(a)
94099	2.48	—	97047	3.44	—	98257	1.47	—	98705	7.44	—
94225	8.74	—	97050	2.67	—	98303	10.20	6.05	98710	3.49	—
94276	4.55	3.23	97111	5.26	—	98304	5.43	2.66	98751	3.97	—
94304	2.25	(a)	97220	.32	(a)	98305	2.76	1.17	98805	4.55	.85
94381	4.23	8.69	97221	(a)	.91	98306	7.12	.62	98806	2.02	3.07
94404	4.32	4.77	97222	1.17	1.85	98307	1.72	.41	98810	3.90	—
94444	(a)	(a)	97223	1.76	1.90	98308	1.13	.57	98813	3.76	1.63
94569	2.91	2.93	97308	.60	—	98309	5.13	1.42	98820	8.70	2.54
94590	12.60	—	97447	1.97	3.17	98344	.77	.59	98871	(a)	(a)
94617	3.97	—	97501	(a)	—	98405	1.27	—	98884	2.26	1.01
94638	(a)	—	97502	(a)	—	98413	14.30	(a)	98914	.64	.43
95124	1.47	.43	97503	(a)	—	98414	13.10	(a)	98949	.90	.28
95233	3.14	—	97504	(a)	—	98415	1.72	(a)	98967	3.55	6.55
95305	3.41	—	97650	3.63	2.66	98423	4.09	(a)	98993	4.14	3.79
95306	4.70	—	97651	5.81	3.14	98424	6.94	(a)	99003	1.69	1.13
95310	8.14	1.10	97652	5.04	3.86	98425	2.85	(a)	99004	3.13	1.21

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 504 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	1.19	7.99	99826	.77	.35						
99081	(a)	—	99827	.43	.42						
99082	(a)	—	99851	1.75	—						
99083	(a)	—	99917	2.83	—						
99084	(a)	(a)	99938	3.19	—						
99085	(a)	(a)	99943	9.24	—						
99111	1.74	—	99946	6.88	2.00						
99160	(a)	—	99948	4.99	22.40						
99163	4.14	.52	99952	5.71	14.30						
99165	.91	(a)	99953	6.16	7.73						
99220	1.41	(a)	99954	4.49	7.55						
99221	(a)	(a)	99955	5.62	6.89						
99222	2.65	(a)	99963	.68	—						
99223	.25	(a)	99969	2.56	1.58						
99303	13.90	—	99975	4.99	—						
99310	3.47	(a)	99986	(a)	—						
99315	10.20	1.48	99987	(a)	—						
99321	9.91	2.32	99988	2.26	—						
99445	(a)	(a)									
99471	.64	—									
99505	3.50	—									
99506	4.31	—									
99507	3.76	—									
99570	2.02	(a)									
99571	.49	(a)									
99572	.96	(a)									
99573	.91	(a)									
99600	1.36	—									
99613	8.78	2.08									
99614	3.04	—									
99620	.48	—									
99650	.96	.88									
99709	2.36	(a)									
99718	1.40	—									
99746	2.37	2.01									
99760	.27	—									
99777	6.75	—									
99793	3.01	—									
99798	(a)	(a)									
99803	(a)	7.09									

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	.082	.184	10205	.142	—	11210	2.02	—	13207	(a)	(a)
10015	3.49	—	10220	2.67	—	11211	10.50	—	13208	(a)	(a)
10020	(a)	(a)	10255	.115	.131	11212	1.59	—	13314	.068	.017
10026	.37	.018	10256	.42	.147	11213	1.30	—	13351	.166	.029
10036	.31	(a)	10257	.079	.167	11214	3.19	—	13352	.169	.04
10040	.062	.28	10309	.092	.016	11222	.054	—	13410	.66	2.44
10042	.21	.32	10315	.216	(a)	11234	.16	.062	13411	(a)	(a)
10052	2.41	—	10331	4.73	—	11248	.022	.019	13412	.223	1.01
10054	2.14	—	10332	8.17	—	11258	.42	.187	13453	.26	(a)
10060	.101	.05	10352	.201	.058	11259	.45	.131	13454	.30	(a)
10065	.151	.029	10367	2.71	—	11273	7.92	—	13455	.31	(a)
10066	.154	.061	10368	3.95	—	11274	7.60	—	13461	(a)	(a)
10070	.047	.141	10375	(a)	—	11288	.51	.069	13506	.52	.065
10071	.18	.086	10378	4.79	—	12014	.047	.036	13507	.63	.178
10072	3.06	—	10379	2.23	—	12356	.67	.028	13590	.228	.74
10073	.48	.41	10380	3.80	—	12361	.034	.082	13621	.057	.36
10075	3.58	.173	10381	3.29	—	12362	.052	(a)	13670	.019	.013
10100	.35	.042	11007	1.15	—	12373	.02	.025	13673	.32	.01
10101	.136	.166	11020	.172	.126	12374	.35	.049	13715	.052	.154
10105	1.47	—	11039	.42	.048	12375	.172	.035	13716	.26	.121
10107	1.48	.197	11052	1.51	—	12391	.039	.091	13720	.178	.05
10110	11.90	—	11101	(a)	(a)	12393	.228	(a)	13759	.101	.111
10111	.103	.083	11120	(a)	—	12467	.095	(a)	13930	.11	.211
10113	.204	—	11126	.035	.02	12509	.029	.038	14068	.022	.015
10115	.41	.084	11127	.26	.008	12510	.36	.025	14101	.26	.038
10117	3.47	—	11128	.35	.072	12583	.162	(a)	14279	.22	.057
10119	(a)	—	11138	1.18	—	12651	.47	.49	14401	.42	.094
10120	7.78	—	11155	.121	—	12683	.216	(a)	14405	.68	—
10130	2.01	—	11160	(a)	(a)	12707	.34	.65	14527	.21	.181
10132	1.73	—	11167	.35	—	12797	.071	.169	14655	.05	—
10133	1.45	—	11168	1.81	—	12805	.183	.122	14731	1.50	—
10135	(a)	—	11201	10.10	—	12841	.30	—	14732	.111	—
10140	.016	.021	11202	2.98	—	12927	.053	—	14733	.35	—
10141	.032	.024	11203	.61	.54	13049	.018	.054	14734	.151	—
10145	.152	.009	11204	.177	1.46	13111	.39	.097	14855	.101	.162
10146	.154	.015	11205	(a)	—	13112	.029	.069	14913	.189	.097
10150	.28	(a)	11206	.47	—	13201	.42	.167	15060	(a)	(a)
10151	7.08	—	11207	5.90	—	13204	.47	1.40	15061	(a)	(a)
10160	1.26	—	11208	1.01	—	13205	.182	.43	15062	.091	(a)
10204	.127	—	11209	4.75	—	13206	(a)	(a)	15063	.106	(a)

## DIVISION SIX

PREM/OPS TERR. 505

## GENERAL LIABILITY

PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	.091	—	16750	.059	.031	18707	.008	.003	40117	(a)	—
15119	(a)	—	16751	.059	—	18708	.065	.015	40140	(a)	—
15120	(a)	—	16819	.55	(a)	18833	.092	(a)	41001	.13	—
15123	1.45	—	16820	.43	(a)	18834	.169	.127	41210	(a)	—
15124	.51	—	16881	.93	(a)	18911	.53	.018	41421	.161	—
15188	.16	(a)	16890	.064	(a)	18912	1.00	.024	41422	.086	—
15223	.023	.033	16891	.07	(a)	18920	.26	.017	41510	26.80	—
15224	.188	.049	16892	.128	(a)	18991	(a)	—	41603	7.63	—
15300	(a)	—	16900	1.57	.064	19007	.57	—	41604	4.19	—
15314	.121	(a)	16901	1.01	.082	19051	1.26	—	41620	.84	—
15404	.041	(a)	16902	.85	.061	19061	(a)	—	41650	10.80	—
15405	.061	(a)	16905	1.65	.064	19795	.175	(a)	41664	16.50	—
15406	.155	.044	16906	1.05	.082	19796	.204	—	41665	1.93	—
15488	.39	(a)	16910	.94	.055	40005	(a)	—	41666	(a)	—
15538	.216	.013	16911	.85	.038	40006	(a)	—	41667	45.00	—
15600	.54	.081	16915	.97	.047	40010	(a)	—	41668	42.20	—
15607	.119	—	16916	.80	.037	40015	(a)	—	41669	.30	—
15608	.121	.011	16920	2.14	.108	40020	(a)	—	41670	.50	—
15656	3.58	—	16921	1.95	.049	40026	(a)	—	41672	(a)	—
15699	.29	—	16930	1.23	.111	40031	(a)	—	41673	(a)	—
15733	.101	.038	16931	1.33	.045	40032	(a)	—	41675	(a)	—
15839	.163	.022	16940	2.67	.049	40040	(a)	—	41677	.174	—
15991	.133	.077	16941	1.07	.068	40041	(a)	—	41678	23.70	—
15993	.112	.045	18078	.093	.155	40042	(a)	—	41679	(a)	(a)
16005	.027	.034	18109	.222	.031	40045	109.00	—	41680	5.59	—
16009	.124	.079	18110	.177	.026	40046	21.50	—	41696	.55	—
16402	.80	—	18200	(a)	—	40047	7.67	—	41697	.38	—
16403	.51	.106	18205	.144	.31	40059	2.75	—	41700	(a)	—
16404	.64	—	18206	.29	.088	40061	1.46	—	41715	3.55	—
16471	.167	—	18335	.207	.018	40063	48.70	—	41716	2.26	—
16501	.058	(a)	18435	.37	.047	40064	14.30	—	43007	(a)	—
16527	.089	.36	18436	.30	.105	40066	(a)	—	43117	(a)	—
16588	.057	(a)	18437	.30	(a)	40067	(a)	—	43151	8.91	—
16604	.097	.147	18438	.57	(a)	40069	(a)	—	43152	7.09	—
16670	1.96	—	18501	.34	.011	40072	(a)	—	43200	33.90	—
16676	.169	.014	18506	.202	.006	40075	17.90	—	43215	(a)	—
16694	.191	(a)	18507	.106	.008	40101	8.64	—	43421	9.29	—
16705	.164	.152	18570	1.11	—	40102	7.64	—	43422	48.80	—
16722	(a)	—	18575	(a)	(a)	40111	3.86	—	43424	(a)	—
16723	(a)	—	18616	.154	.54	40115	(a)	—	43470	3.21	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	29.50	—	46004	10.20	—	47471	1.40	—
43518	7.07	—	44280	.174	—	46005	8.17	—	47473	1.83	—
43550	33.20	—	44311	3.65	—	46112	.034	—	47474	2.04	—
43551	18.40	—	44315	2.45	—	46202	1.86	—	47475	1.61	—
43626	5.65	—	44427	31.20	—	46362	82.70	—	47476	1.61	—
43628	73.40	—	44428	31.40	—	46426	12.10	—	47477	2.15	—
43629	62.20	—	44429	.47	—	46427	16.10	—	47478	2.26	—
43754	(a)	—	44430	.33	—	46510	(a)	—	47600	(a)	—
43760	2.07	—	44431	1.05	—	46590	(a)	—	47610	(a)	—
43822	2.55	—	44432	.33	—	46603	1.01	—	48039	24.10	—
43840	.031	—	44433	10.60	—	46604	1.17	—	48177	(a)	—
43860	2.01	—	44434	20.20	—	46606	3.12	—	48178	(a)	—
43889	.72	—	44435	20.90	—	46607	4.28	—	48206	14.90	—
43945	(a)	—	44436	24.40	—	46622	7.46	—	48252	(a)	—
43946	(a)	—	44437	20.30	—	46671	(a)	—	48441	.063	—
43990	(a)	(a)	44438	16.00	—	46700	68.20	—	48557	6.27	—
43991	(a)	—	44439	31.20	—	46773	(a)	—	48558	5.46	—
44009	1.77	—	44440	25.80	—	46822	(a)	—	48600	24.20	—
44010	(a)	(a)	44500	(a)	—	46881	(a)	—	48610	(a)	—
44069	6.04	—	44501	(a)	—	46882	(a)	—	48636	.91	(a)
44070	1.79	—	45190	1.46	—	46911	11.20	—	48637	4.79	—
44071	1.99	—	45191	1.04	—	46912	20.50	—	48638	2.38	—
44072	1.37	—	45192	1.22	—	46913	(a)	—	48727	(a)	—
44100	1.28	—	45193	.72	—	46914	(a)	—	48808	.92	—
44101	1.33	—	45210	.91	—	46915	(a)	—	48924	(a)	—
44102	1.04	—	45224	(a)	—	46916	(a)	—	48925	115.00	—
44103	.92	—	45225	(a)	—	47050	.70	—	49005	.119	—
44104	.39	—	45334	19.50	—	47051	(a)	—	49111	1.40	—
44105	(a)	—	45380	.118	(a)	47052	(a)	—	49181	7.86	—
44106	(a)	—	45450	5.75	—	47103	(a)	—	49183	9.58	—
44108	.45	—	45523	(a)	—	47146	(a)	—	49184	20.20	—
44109	1.14	—	45524	(a)	—	47147	(a)	—	49185	18.40	—
44110	1.17	—	45539	(a)	—	47221	74.80	—	49239	.089	.65
44111	.72	—	45678	.188	—	47253	(a)	—	49292	.57	—
44112	.43	—	45771	.181	.176	47254	(a)	—	49305	(a)	—
44113	(a)	—	45819	.059	.051	47318	4.59	—	49333	4.22	—
44193	(a)	—	45900	.062	.042	47367	.174	—	49451	(a)	—
44194	(a)	—	45901	.053	.047	47420	1.01	—	49452	(a)	—
44222	(a)	—	45937	.077	—	47468	(a)	—	49617	.119	.13
44276	45.50	—	45993	(a)	(a)	47469	1.61	—	49618	.10	.041

## DIVISION SIX

PREM/OPS TERR. 505

## GENERAL LIABILITY

PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	.188	.095	51315	.057	.106	51809	.165	.158	52341	.026	(a)
49763	1.22	—	51330	.055	.43	51833	.10	.072	52342	.075	(a)
49800	(a)	—	51333	.018	.31	51850	.134	(a)	52343	.046	(a)
49801	65.90	—	51340	.016	(a)	51851	.091	(a)	52401	.142	(a)
49802	5.84	—	51350	.154	.142	51852	.213	(a)	52402	.009	(a)
49803	10.30	—	51351	.138	.045	51853	.086	(a)	52432	.045	(a)
49840	.72	—	51352	.19	.114	51854	.192	(a)	52433	.041	1.20
49870	48.00	—	51355	.129	.096	51855	.201	(a)	52435	.051	(a)
49890	(a)	—	51356	.139	.69	51856	.111	(a)	52438	.037	(a)
49891	(a)	—	51357	.082	.53	51857	.189	(a)	52440	.058	(a)
49902	(a)	—	51358	.197	.149	51869	.044	.14	52467	.054	(a)
49903	(a)	—	51359	.172	.84	51877	.249	.22	52469	.019	.109
50010	.096	.58	51370	.193	5.00	51889	.041	.014	52505	.093	.203
50015	.063	(a)	51380	.019	.05	51896	.019	.02	52547	.123	.088
50017	.048	(a)	51400	.13	(a)	51900	.075	.093	52581	.46	3.68
50045	.109	(a)	51401	.191	(a)	51909	.121	.057	52619	.032	(a)
50047	.012	(a)	51500	.037	.109	51919	.041	(a)	52660	.062	—
51001	.031	.46	51516	.052	—	51926	.042	.04	52744	.38	.094
51005	.006	(a)	51517	.059	—	51927	.023	.115	52767	.112	(a)
51116	.079	.57	51550	.045	.36	51934	.046	.142	52876	(a)	(a)
51201	.016	(a)	51551	.016	.92	51941	.042	.039	52911	.025	.52
51205	.05	.083	51552	.027	.159	51942	.067	—	52967	.01	.064
51206	.008	.45	51553	.048	(a)	51956	.181	.246	53001	.094	.33
51210	.054	(a)	51554	.005	(a)	51957	.159	.40	53077	.045	.197
51211	(a)	(a)	51575	.041	.02	51958	.142	.39	53095	.031	(a)
51220	.187	2.58	51576	.087	.075	51959	.145	(a)	53096	.043	(a)
51221	.104	1.94	51600	.059	.198	51960	.019	.36	53121	.122	.46
51222	.126	3.12	51613	.039	.138	51970	.083	.25	53147	.019	(a)
51224	.132	1.33	51625	.029	(a)	51982	.024	.085	53229	.106	(a)
51230	.022	.79	51666	.066	.103	51985	.049	—	53271	.023	(a)
51240	.198	.182	51702	.086	(a)	51986	.096	.107	53333	.105	.213
51241	.59	.30	51703	.035	(a)	51999	.041	.46	53374	.101	.38
51250	.143	(a)	51734	.067	.31	52002	.036	.118	53375	.053	.25
51251	.017	(a)	51741	.103	.25	52075	.105	.25	53376	.086	.187
51252	.06	.101	51752	.087	.159	52076	.127	(a)	53377	.088	.211
51253	.051	(a)	51767	.019	.009	52109	.009	(a)	53403	.055	(a)
51254	.016	.045	51777	.067	.076	52134	.119	.70	53425	.098	(a)
51255	.36	(a)	51790	.111	(a)	52137	.041	(a)	53565	.065	.124
51300	.092	.173	51796	.037	(a)	52150	.219	(a)	53631	.014	.022
51305	.092	1.03	51808	.133	.73	52315	.087	.24	53632	.016	.035



\$100,000/200,000 BASIC LIMIT OCCURRENCE											
Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505											
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	.015	(a)	56170	.097	(a)	57401	.03	.098	58503	.036	.061
53732	.102	.46	56171	.048	(a)	57403	.136	.036	58532	.046	(a)
53733	.066	.26	56202	.034	.10	57410	.014	.13	58559	.009	(a)
53734	.31	—	56390	.06	.63	57411	.024	(a)	58560	.023	(a)
53803	.235	(a)	56391	.051	.32	57572	.008	.094	58561	(a)	(a)
53901	(a)	(a)	56427	.082	.125	57600	.025	.033	58575	.029	.123
53902	(a)	(a)	56488	.111	.034	57611	.052	.064	58627	.093	.016
53903	(a)	(a)	56567	.10	(a)	57625	.22	(a)	58663	.222	1.59
53904	(a)	(a)	56650	.31	(a)	57651	.027	.043	58682	.083	(a)
53905	(a)	(a)	56651	.167	(a)	57690	.067	.51	58713	.042	(a)
53907	.045	.111	56652	.119	(a)	57716	.032	.087	58737	.06	.74
53951	(a)	(a)	56653	.115	(a)	57725	.07	.091	58756	.041	(a)
53952	(a)	(a)	56654	.059	(a)	57726	.054	.019	58757	.203	(a)
53953	(a)	(a)	56690	.057	.36	57798	.014	(a)	58759	.025	(a)
54012	.031	—	56699	.038	.051	57800	.051	(a)	58802	.029	.45
54077	.061	.37	56758	.032	.155	57808	.027	(a)	58813	.102	(a)
54444	(a)	(a)	56759	.033	.093	57809	.028	(a)	58822	.078	(a)
55010	.185	1.10	56760	.047	.106	57810	.027	.109	58837	.205	.165
55011	.05	1.26	56805	.062	(a)	57871	.032	.116	58840	.061	.111
55012	.06	1.17	56806	.044	(a)	57913	.066	.31	58873	.098	.03
55013	.089	.99	56807	.044	(a)	57997	.07	—	58903	.018	(a)
55014	(a)	(a)	56808	.057	(a)	57998	.029	.059	58904	.014	.131
55214	.048	.089	56900	.055	(a)	57999	.044	.071	58922	.162	.187
55371	.26	.13	56910	.027	(a)	58009	.044	(a)	59005	.034	.096
55410	(a)	(a)	56911	.086	(a)	58010	.068	(a)	59057	.25	(a)
55426	.108	(a)	56912	.07	.084	58020	.146	(a)	59058	.163	(a)
55597	.012	1.78	56913	.057	(a)	58056	.081	(a)	59188	.29	.056
55647	.024	.056	56915	.34	(a)	58057	.051	(a)	59189	.40	.30
55648	.011	(a)	56916	.30	.187	58058	.046	(a)	59223	.101	.077
55649	.013	(a)	56917	.088	(a)	58095	.064	1.83	59257	.009	.015
55715	.096	.234	56918	.042	(a)	58096	.085	1.04	59306	.058	(a)
55716	.138	.52	56919	.108	(a)	58301	.034	.082	59378	.066	.152
55717	.143	(a)	56920	.098	(a)	58302	.023	.055	59481	.155	.088
55718	.138	(a)	56980	.047	(a)	58397	.133	.83	59482	.30	(a)
55802	.067	.009	57001	.016	.021	58408	.041	—	59537	.071	.168
55918	.055	3.19	57002	.011	.11	58409	.052	—	59601	.058	2.31
55919	.007	3.64	57090	.158	.63	58456	.028	—	59647	.135	.176
56040	.005	.04	57146	.10	.67	58457	.04	—	59660	.107	1.14
56041	.034	(a)	57202	.042	(a)	58458	.052	—	59661	.053	(a)
56042	.043	(a)	57257	.052	.036	58459	.063	—	59693	.009	—

## DIVISION SIX

## PREM/OPS TERR. 505

## GENERAL LIABILITY

## PROD/COPS

## LOSS COST PAGES

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	.27	.061	63220	(a)	—	91190	2.10	(a)
59701	.004	.244	59970	.06	.182	64074	10.30	—	91200	.68	—
59713	.096	.33	59973	.073	(a)	64075	7.28	—	91210	(a)	—
59722	.05	.032	59975	.085	.243	64500	(a)	—	91235	1.76	2.38
59723	.019	.038	59977	.048	(a)	65007	12.90	—	91250	2.65	(a)
59724	.029	.022	59984	.02	.055	66122	5.53	—	91265	14.60	3.26
59725	.036	.104	59985	.079	(a)	66123	3.04	—	91266	7.73	.86
59726	.026	.024	59986	.06	(a)	66309	8.88	—	91280	(a)	1.57
59738	.083	.066	59988	.022	.06	66561	20.60	—	91302	11.20	(a)
59750	.053	.24	59989	.011	.045	67017	19.10	—	91315	3.40	—
59751	.019	(a)	60010	15.10	—	67508	12.90	—	91324	7.57	(a)
59773	.017	.028	60011	17.40	—	67509	9.46	—	91325	(a)	(a)
59774	.014	.152	60012	28.50	—	67510	5.27	—	91340	4.94	7.05
59775	.018	.189	60013	24.50	—	67511	5.70	—	91341	4.48	3.62
59781	.046	.076	60015	18.30	—	67512	24.40	—	91342	4.53	2.84
59782	.068	.49	60016	20.50	—	67513	15.50	—	91343	.99	1.35
59783	.067	(a)	60035	14.50	—	67634	16.50	—	91405	5.76	—
59784	.051	(a)	61000	15.00	—	67635	11.70	—	91436	5.06	2.39
59790	.064	(a)	61212	7.79	—	68001	35.70	—	91481	18.50	—
59798	.174	.46	61216	8.65	—	68439	45.90	—	91507	2.72	2.98
59806	.124	(a)	61217	7.87	—	68500	3.32	—	91523	42.00	—
59867	.072	(a)	61218	5.38	—	68604	.86	—	91547	.239	—
59886	.01	.112	61223	36.30	—	68606	3.35	—	91551	1.48	.57
59889	.056	.153	61224	12.90	—	68607	2.65	—	91555	1.06	.78
59892	.067	(a)	61225	17.80	—	68702	2.18	—	91560	4.27	3.59
59904	.045	.066	61226	28.40	—	68703	1.64	—	91562	3.30	—
59905	.045	.13	61227	26.00	—	68706	7.01	—	91577	11.80	2.46
59914	.27	.62	62000	5.92	—	68707	6.93	—	91580	5.64	—
59915	.149	.78	62001	4.44	—	90089	4.28	—	91581	(a)	(a)
59917	.028	.165	62002	2.03	—	91111	2.27	4.51	91582	(a)	(a)
59923	.007	.005	62003	6.39	—	91125	2.58	2.19	91583	(a)	(a)
59925	.177	1.09	63010	27.20	—	91127	1.53	1.27	91584	(a)	(a)
59926	.151	.42	63011	34.00	—	91130	1.20	—	91585	(a)	(a)
59927	.101	1.56	63012	48.30	—	91135	.33	(a)	91586	(a)	(a)
59931	.119	.59	63013	45.80	—	91150	1.44	3.70	91587	(a)	(a)
59932	.128	.93	63215	21.10	—	91155	3.21	23.30	91588	(a)	(a)
59941	.04	(a)	63216	14.60	—	91160	1.04	—	91589	(a)	(a)
59947	.045	.33	63217	21.90	—	91175	.89	—	91590	3.42	—
59955	.015	.147	63218	7.36	—	91177	3.90	—	91591	(a)	(a)
59963	.114	.45	63219	(a)	—	91179	3.92	—	91606	11.70	—

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	1.20	—	97653	3.11	2.71	98426	2.52	(a)
91629	2.39	(a)	95358	(a)	—	97654	5.41	2.69	98427	2.45	—
91636	4.10	—	95410	4.40	2.43	97655	4.49	3.71	98428	(a)	—
91641	1.11	(a)	95455	4.96	1.45	98002	.81	.66	98429	1.07	—
91666	.92	(a)	95487	2.36	(a)	98003	.97	(a)	98430	(a)	—
91722	3.59	(a)	95505	2.31	1.52	98090	.131	—	98449	3.52	17.40
91746	3.30	4.02	95620	1.91	(a)	98091	.142	—	98482	3.77	5.41
91805	.207	—	95625	5.35	2.69	98092	.43	—	98483	5.57	14.70
92053	.51	.39	95630	(a)	(a)	98111	.45	—	98502	5.34	3.03
92054	.175	.177	95647	2.12	4.71	98150	(a)	—	98555	2.48	—
92055	4.89	.212	95648	(a)	(a)	98151	(a)	—	98597	.56	—
92101	7.64	2.65	96053	1.61	3.88	98152	2.73	.47	98598	.191	—
92102	4.60	2.34	96317	1.24	—	98153	3.08	(a)	98601	6.39	(a)
92215	2.53	1.94	96408	3.81	11.40	98154	3.63	(a)	98622	(a)	—
92338	1.77	1.22	96409	3.52	10.20	98155	5.09	(a)	98623	(a)	—
92445	2.35	—	96410	3.09	7.00	98156	(a)	(a)	98624	1.00	—
92446	5.81	1.75	96611	1.13	1.59	98157	3.25	.39	98636	2.17	2.89
92447	5.08	1.54	96702	4.38	(a)	98158	(a)	(a)	98640	110.00	—
92451	1.76	2.07	96703	(a)	—	98159	2.18	(a)	98658	5.26	—
92453	3.22	—	96816	4.11	—	98160	4.62	(a)	98659	.94	.40
92478	1.59	1.68	96872	4.40	(a)	98161	5.17	(a)	98677	17.40	8.31
92593	23.10	—	96930	(a)	—	98162	(a)	(a)	98678	15.40	10.00
92663	.56	—	97002	(a)	(a)	98163	5.43	.237	98698	(a)	(a)
94007	10.90	4.05	97003	(a)	(a)	98164	1.49	.072	98699	5.02	(a)
94099	2.48	—	97047	3.44	—	98257	1.47	—	98705	7.44	—
94225	8.74	—	97050	2.67	—	98303	10.20	6.05	98710	3.49	—
94276	4.55	3.23	97111	5.26	—	98304	5.43	2.66	98751	3.97	—
94304	2.25	(a)	97220	.32	(a)	98305	2.76	1.17	98805	4.55	.85
94381	4.23	8.69	97221	(a)	.91	98306	7.12	.62	98806	2.02	3.07
94404	4.32	4.77	97222	1.17	1.85	98307	1.72	.41	98810	3.90	—
94444	(a)	(a)	97223	1.76	1.90	98308	1.13	.57	98813	3.76	1.63
94569	2.91	2.93	97308	.60	—	98309	5.13	1.42	98820	8.70	2.54
94590	12.60	—	97447	1.97	3.17	98344	.77	.59	98871	(a)	(a)
94617	3.97	—	97501	(a)	—	98405	1.27	—	98884	2.26	1.01
94638	(a)	—	97502	(a)	—	98413	14.30	(a)	98914	.64	.43
95124	1.47	.43	97503	(a)	—	98414	13.10	(a)	98949	.90	.28
95233	3.14	—	97504	(a)	—	98415	1.72	(a)	98967	3.55	6.55
95305	3.41	—	97650	3.63	2.66	98423	4.09	(a)	98993	4.14	3.79
95306	4.70	—	97651	5.81	3.14	98424	6.94	(a)	99003	1.69	1.13
95310	8.14	1.10	97652	5.04	3.86	98425	2.85	(a)	99004	3.13	1.21

\$100,000/200,000 BASIC LIMIT OCCURRENCE Premises/Operations (Prem/Ops) (Subline Code 334) Territory 505 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	1.19	7.99	99826	.77	.35						
99081	(a)	—	99827	.43	.42						
99082	(a)	—	99851	1.75	—						
99083	(a)	—	99917	2.83	—						
99084	(a)	(a)	99938	3.19	—						
99085	(a)	(a)	99943	9.24	—						
99111	1.74	—	99946	6.88	2.00						
99160	(a)	—	99948	4.99	22.40						
99163	4.14	.52	99952	5.71	14.30						
99165	.91	(a)	99953	6.16	7.73						
99220	1.41	(a)	99954	4.49	7.55						
99221	(a)	(a)	99955	5.62	6.89						
99222	2.65	(a)	99963	.68	—						
99223	.25	(a)	99969	2.56	1.58						
99303	13.90	—	99975	4.99	—						
99310	3.47	(a)	99986	(a)	—						
99315	10.20	1.48	99987	(a)	—						
99321	9.91	2.32	99988	2.26	—						
99445	(a)	(a)									
99471	.64	—									
99505	3.50	—									
99506	4.31	—									
99507	3.76	—									
99570	2.02	(a)									
99571	.49	(a)									
99572	.96	(a)									
99573	.91	(a)									
99600	1.36	—									
99613	8.78	2.08									
99614	3.04	—									
99620	.48	—									
99650	.96	.88									
99709	2.36	(a)									
99718	1.40	—									
99746	2.37	2.01									
99760	.27	—									
99777	6.75	—									
99793	3.01	—									
99798	(a)	(a)									
99803	(a)	7.09									