

LOSS COSTS – IMPLEMENTATION

APRIL 19, 2018

COMMERCIAL AUTOMOBILE

LI-CA-2018-116

MISSOURI REVISED COMMERCIAL AUTO ADVISORY PROSPECTIVE LOSS COSTS TO BE IMPLEMENTED

KEY MESSAGE

Loss costs representing a **+12.6%** statewide change to be implemented.

BACKGROUND

In circular [LI-CA-2018-075](#), we provided you with information about the Commercial Auto loss cost level experience review.

ISO ACTION

We are implementing CA-2018-BRLA1, which:

- Changes the liability and physical damage loss costs for Trucks, Tractors and Trailers, Private Passenger Types and Public Autos; and
- Changes the liability loss cost for Hired Autos in Rule **90.B.3.b**.

Refer to the attached explanatory material for complete details about the filing.

SUPPLEMENTARY INFORMATION

We are including the following supplementary information:

- Supplementary Information – Missouri, which provides additional information on the attached loss cost level experience review.
- The loss cost exhibits contained in this filing in a Microsoft® Excel workbook.

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

EFFECTIVE DATE

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

These changes are applicable to all policies written on or after October 1, 2018.

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

IMPACT ON THE STATISTICAL REPORTING OF LOSS COST MULTIPLIER

For the purpose of reporting your company Loss Cost Multiplier under the CSP, as of October 1, 2018, the multiplier must be based on the relationship between your gross rates and the ISO advisory prospective loss costs contained in this circular.

COMPANY ACTION

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 SEPTEMBER 10, 2018. 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 CA-2018-BRLA1, NOT this circular number.

CAUTION: This reference filing revises only certain advisory prospective loss costs for Commercial Auto 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.

RATING SOFTWARE IMPACT

No new attributes are being introduced with this revision.

POLICYHOLDER NOTIFICATION

If you decide to implement this revision, you should check all applicable laws for the state(s) to which this revision applies, to determine whether or not a specific policyholder notice requirement may apply. Please note that circular LI-CL-2017-074 contains the ISO Guide To Renewals With Changed Conditions For Commercial Lines, which is available only as a guide to assist participating companies in complying with various conditional renewal statutes or regulations, for the major commercial lines of insurance serviced by ISO. The information in the Guide does not necessarily reflect all requirements or exceptions that may apply, and it is not intended as a substitute for your review of all applicable statutes and regulations concerning policyholder notification.

FUTURE ISO ACTION

We will provide a status report for this and other Basic Limits Loss Costs (BRLA1) revisions. Please refer to the Insurance Lines Services web site (www.verisk.com/ils). In addition to other information, this web site contains copies of major multistate filing status reports that are updated approximately every two weeks.

REVISION DISTRIBUTION

We will issue a Notice to Manualholders with an edition date of 10-18 (or the earliest possible subsequent date), along with any new and/or revised manual pages.

REFERENCE(S)

- [LI-CA-2018-075](#) (03/07/2018) Commercial Auto Experience Level Indications Reviewed By Staff
- [LI-CL-2017-074](#) (11/20/2017) Revised Lead Time Requirements Listing

ATTACHMENT(S)

- Filing [CA-2018-BRLA1](#)
- Supplementary Information Exhibit
- Excel Workbook

FILES AVAILABLE FOR DOWNLOAD

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

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

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ACKNOWLEDGEMENT OF ACTUARIAL QUALIFICATIONS

The American Academy of Actuaries' "Qualifications 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 Director of Actuarial Operations for ISO and I, James Davidson, am an Actuarial Director for Commercial Auto for ISO. We are jointly responsible for the content of this Statement of Actuarial Opinion. We are both members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

CONTACT INFORMATION

If you have any questions concerning:

- The actuarial content of this circular, please contact:
Anthony Driscoll
Actuarial Operations
201-469-2546
Anthony.Driscoll@verisk.com
autoactuarial@verisk.com
- The non-actuarial content of this circular, please contact:
Vincent Barila
Production Operations, Compliance and Product Services
201-469-2751
Vincent.Barila@verisk.com
autoactuarial@verisk.com
- Other issues for this circular, please contact Customer Support:
E-mail: info@verisk.com
Phone: 800-888-4476

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

MISSOURI

BASIC LIMITS PROSPECTIVE LOSS COST LEVEL – COMMERCIAL AUTOMOBILE

FILING CA-2018-BRLA1

EXECUTIVE SUMMARY

PURPOSE

This document:

- revises the advisory prospective loss costs for the major Commercial Automobile classes. These loss costs represent a +12.6% statewide change from the loss costs currently in effect.
 - provides the analyses used to derive these advisory loss costs.
-

DEFINITION OF
THE ISO ADVISORY
PROSPECTIVE
LOSS COST

Advisory prospective loss costs in this document are 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. Throughout this document the words “loss cost” are synonymous with the words “prospective loss cost.”

OPTIONAL CLASS
PLAN LOSS COSTS

The loss costs contained in this filing CA-2018-BRLA1 are intended for use with the class plan in our standard manual. The prospective loss costs in this filing have also been used as the basis to develop the loss costs for the Optional Class Plan, which are located in companion filing CA-2018-BRLB1.

AUTO DEALERS
LIABILITY
COVERAGE

The Auto Dealers Liability coverage is not being reviewed this year.

REVISED LOSS
COST CHANGES

The statewide advisory loss cost level changes are:

<u>Trucks, Tractors & Trailers</u>	<u>Indicated</u>	<u>Filed</u>
Single Limit Liability	+16.7%	+16.7%
Physical Damage		
Other than Collision	+14.1%	+14.1%
Collision	+6.8%	+6.8%
Total Trucks, Tractors & Trailers	+14.5%	+14.5%

REVISED LOSS
COST CHANGES
(CONT'D)

<u>Private Passenger Types</u>			
Single Limit Liability		+3.8%	+3.8%
Physical Damage			
Other than Collision		+8.8%	+8.8%
Collision		+5.9%	+5.9%
Total Private Passenger Types		+4.8%	+4.8%
<u>Grand Total</u>		+12.6%	+12.6%

Loss cost level changes are relative to the current loss costs.

INDICATED VS.
FILED

Indicated changes are based on standard ISO methodology, utilizing a 10/01/2018 trend effective date. The filed loss cost level changes are the same as the indicated.

PRIOR ISO
REVISIONS

The latest selected revisions in this state are:

<u>Filing</u>	CA-17-BRLA1	CA-16-BRLA1	CA-15-BRLA1
Rate Level/ Loss Costs	Loss Costs	Loss Costs	Loss Costs
Effective Date	10/01/17	10/01/16	10/01/15
<u>Changes</u>			
Indicated	+8.1%	-0.5%	+5.7%
Filed	+7.9%	-0.6%	+5.7%
Approved	+7.9%	-0.6%	+5.7%

HISTORICAL
SOURCE DATA

The sources of the data underlying this loss cost review are:

- ISO companies reporting voluntary automobile experience under the Commercial Automobile modules of ISO's statistical plans.
- Accident year data through year ended 03/31/2017 for all coverages.

ADJUSTMENTS TO
REPORTED
EXPERIENCE

Loss Trend

To adjust the loss data to levels expected to prevail during the period when the revised loss costs will be in effect, historical losses have been multiplied by trend factors. These trend factors are based on the changes in claim cost and claim frequency that are expected to arise between the historical experience period and the prospective period during which the revised loss costs are anticipated to be in effect. Based on earlier analyses, there had been differences in historical frequency trends between Trucks, Tractors, and Trailers (TTT) and Private Passenger Types (PPT) liability classes. In general, Commercial Auto classes had experienced an abnormally long period of negative frequency trends prior to 2010. For the most recent 6 years, however, the frequency trends have been slightly increasing (TTT BI) or somewhat cyclical and/or flat (TTT PD and PPT BI and PD) over the experience period. An exponential curve of the form $Y=A(B^X)$ does not fit the data well. To reflect these recent patterns and the difficulty in predicting turning points and rates of change, frequency trend is being selected to be 0% for TTT and PPT for both the Bodily Injury and Property Damage coverages.

Claim cost trend data through fourth quarter 2016 and claim frequency trend data through third quarter 2016 were used in selecting the following annual liability trend factors:

<u>Coverage</u>	<u>Annual Trend Factor</u>
Trucks, Tractors, and Trailers Liability:	
Bodily Injury	+2.5%
Property Damage	+6.4%
Private Passenger Types Liability:	
Bodily Injury	+2.5%
Property Damage	+6.4%
Trucks, Tractors & Trailers OTC	+6.5%
Trucks, Tractors & Trailers Collision	+5.5%
Private Passenger Types OTC	+5.0%
Private Passenger Types Collision	+5.0%

ADJUSTMENTS TO
REPORTED
EXPERIENCE
(CONT'D)

OCN Trend

To recognize the trend in the Original Cost New (OCN) relativities for Trucks, Tractors & Trailers and Private Passenger Type's physical damage, aggregate loss costs at current level have been multiplied by trend factors. The selected annual OCN trend factors for Trucks, Tractors & Trailers are +0.9% and +1.3% for OTC and Collision respectively. For Private Passenger Types, the OCN Trend factors are +1.0% and +0.6% for OTC and Collision respectively.

Standard actuarial procedures have been used in calculating the loss costs including adjusting the losses to ultimate settlement level, reflecting all loss adjustment expenses.

TEN LARGEST
COMPANIES/
GROUPS
IN THIS REVIEW

LIABILITY (ASLOB 19.3 & 19.4)

1. Travelers Indemnity Co.
2. Zurich American Insurance Co.
3. Nationwide Mutual Insurance Co.
4. Cincinnati Insurance Co.
5. Liberty Mutual Insurance Co.
6. Tokio Marine Companies
7. Federated Mutual Insurance Co.
8. American International Group
9. AMCO (Allied Group)
10. Sentry Insurance A Mutual Co.

PHYSICAL DAMAGE (ASLOB 21.2)

1. Motors Insurance Corp.
2. Travelers Indemnity Co.
3. Liberty Mutual Insurance Co.
4. Cincinnati Insurance Co.
5. Sentry Insurance A Mutual Co.
6. Vanliner Insurance Co.
7. Zurich American Insurance Co.
8. Tokio Marine Companies
9. Hartford Accident & Indemnity Co.
10. Star Insurance Co.

Insurers are listed in descending order based on the percent of statewide written premium volume from Annual Statement Page 15 for the year ending 12/31/2016 for the Annual Statement Line of Business (ASLOB) indicated.

MARKET SHARE

The market share of ISO participating insurers used in this review as measured by Annual Statement Page 15 written premium for the year ending 12/31/2016 is:

Liability (ASLOB 19.3 & 19.4)
41.9%

Physical Damage (ASLOB 21.2)
35.7%

COMPANY
DECISION

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

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MISSOURI
COMMERCIAL AUTOMOBILE
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MISSOURI
COMMERCIAL AUTOMOBILE

SECTION A - SCOPE OF REVISION

Summary of Prospective Loss Cost Level Changes	A2
Revised Prospective Loss Costs and Percentage Changes	A3-A20

MISSOURI
STATEWIDE LOSS COST LEVEL CHANGES (A)

Coverages	Aggregate Loss Cost at Current Level (B)	Loss Cost Changes (C)
TRUCKS, TRACTORS & TRAILERS (D)		
Single Limit Liability	\$ 40,980,188	+16.7%
Physical Damage		
Other Than Collision	4,226,996	+14.1%
Collision	11,233,038	+6.8%
Combined	15,460,034	+8.8%
Total Trucks, Tractors & Trailers	56,440,222	+14.5%
PRIVATE PASSENGER TYPES		
Single Limit Liability	9,299,117	+3.8%
Physical Damage		
Other Than Collision	1,424,187	+8.8%
Collision	3,167,173	+5.9%
Combined	4,591,360	+6.8%
Total Private Passenger Types	13,890,477	+4.8%
GRAND TOTAL ALL COVERAGES	70,330,699	+12.6%
TOTAL LIABILITY	50,279,305	+14.3%
TOTAL PHYSICAL DAMAGE	20,051,394	+8.3%

(A) An implementation date of 10/01/2018 is assumed for purposes of trending.

(B) Accident Year ending 03/31/2017 Aggregate Loss Cost at Current Level for all coverages.

The liability loss costs are on a Total Limits basis.

(C) Loss Cost changes are calculated on a \$100,000 CSL Basic Limits basis for liability and on an all deductibles combined basis for physical damage.

(D) Classes related to Trucks, Tractors & Trailers, such as the Public Automobile classes, are impacted by the Trucks, Tractors & Trailers loss cost level changes.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES

FOR TRUCKS, TRACTORS & TRAILERS POLICY COVERAGES

TERRITORY CODE	\$100,000 CSL LIABILITY	\$500 MED PAY
102	20.9%	27.3%
104	19.9%	20.0%
105	17.3%	16.7%
106	15.9%	12.5%
108	18.9%	20.0%
109	15.2%	10.0%
110	16.8%	20.0%
112	14.5%	16.7%
116	17.6%	9.1%
117	19.0%	16.7%
125	19.5%	21.4%
126	15.7%	18.2%
127	15.6%	14.3%
128	11.8%	16.7%
129	14.9%	16.7%
131	27.4%	25.0%
132	16.5%	16.7%
133	18.5%	27.3%
134	16.2%	13.3%
135	19.0%	23.1%
136	16.8%	18.2%
137	16.7%	25.0%
138	16.2%	16.7%

TERRITORY LOSS COST LEVEL CHANGES
FOR TRUCKS, TRACTORS & TRAILERS POLICY COVERAGES

TERRITORY CODE	PHYSICAL DAMAGE		SPECIFIED CAUSES OF LOSS
	COMPREHENSIVE	COLLISION	
102	11.2%	3.1%	11.1%
104	13.8%	11.8%	13.6%
105	13.6%	4.4%	13.7%
106	11.9%	11.1%	11.8%
108	14.4%	5.9%	14.7%
109	13.2%	4.4%	12.4%
110	13.3%	6.1%	12.9%
112	8.7%	2.5%	9.0%
116	18.2%	9.0%	18.0%
117	10.0%	7.7%	10.5%
125	13.5%	6.1%	13.3%
126	13.3%	6.2%	12.6%
127	10.3%	5.7%	11.0%
128	14.3%	2.7%	13.8%
129	19.9%	6.9%	19.5%
131	13.3%	18.5%	13.2%
132	13.6%	8.0%	13.5%
133	12.5%	10.4%	13.2%
134	13.5%	2.6%	13.3%
135	14.2%	9.5%	13.3%
136	9.6%	5.0%	10.2%
137	13.8%	2.8%	13.8%
138	12.4%	4.5%	12.2%

REVISED BASE LOSS COSTS BY TERRITORY
FOR TRUCKS, TRACTORS & TRAILERS POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500			SPECIFIED CAUSES OF LOSS (d)
	\$100,000 CSL	MED PAY (a)	COMPREHENSIVE (b)	COLLISION (c)	
102	382	14	139	234	120
104	331	12	107	236	92
105	190	7	125	191	108
106	262	9	132	220	114
108	340	12	135	235	117
109	310	11	137	214	118
110	326	12	111	277	96
112	395	14	112	244	97
116	347	12	175	230	151
117	188	7	121	211	105
125	477	17	177	278	153
126	362	13	145	239	125
127	230	8	128	240	111
128	189	7	144	229	124
129	200	7	163	248	141
131	563	20	119	288	103
132	396	14	117	217	101
133	378	14	99	213	86
134	473	17	118	238	102
135	438	16	129	184	111
136	368	13	125	232	108
137	265	10	124	217	107
138	201	7	127	185	110

- (a) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.036 TO THE TRUCKS, TRACTORS & TRAILERS CSL LIABILITY LOSS COSTS.
- (b) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST.
- (c) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST.
- (d) THE LOSS COSTS FOR SPECIFIED CAUSES OF LOSS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.864 TO THE TRUCKS, TRACTORS & TRAILERS COMPREHENSIVE BASE LOSS COSTS.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES

FOR PRIVATE PASSENGER TYPES POLICY COVERAGES

TERRITORY CODE	LIABILITY \$100,000 CSL	\$500 MED PAY
102	2.4%	0.0%
104	2.3%	20.0%
105	7.6%	16.7%
106	4.6%	0.0%
108	4.8%	14.3%
109	2.3%	0.0%
110	3.9%	0.0%
112	2.8%	0.0%
116	2.9%	16.7%
117	3.4%	0.0%
125	3.6%	0.0%
126	1.2%	0.0%
127	4.1%	0.0%
128	7.2%	0.0%
129	5.2%	0.0%
131	3.7%	0.0%
132	3.4%	14.3%
133	2.8%	0.0%
134	5.8%	0.0%
135	7.6%	12.5%
136	3.4%	14.3%
137	3.9%	16.7%
138	1.7%	0.0%

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES

FOR PRIVATE PASSENGER TYPES POLICY COVERAGES

TERRITORY CODE	COMPREHENSIVE	PHYSICAL DAMAGE	COLLISION
102	5.6%		4.3%
104	12.2%		10.6%
105	7.8%		5.4%
106	8.7%		7.8%
108	7.0%		8.1%
109	7.2%		5.1%
110	7.2%		6.2%
112	3.5%		3.7%
116	7.9%		9.2%
117	4.3%		5.4%
125	8.9%		9.6%
126	7.3%		4.4%
127	12.4%		3.7%
128	6.0%		3.2%
129	9.8%		3.5%
131	7.3%		6.1%
132	5.6%		9.7%
133	12.0%		6.4%
134	7.1%		9.1%
135	6.1%		20.7%
136	6.1%		4.6%
137	6.5%		3.3%
138	9.9%		2.9%

REVISED BASE LOSS COSTS BY TERRITORY

FOR PRIVATE PASSENGER TYPES POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500		
	\$100,000 CSL	MED PAY (a)	COMPREHENSIVE (b)	COLLISION (c)
102	337	7	132	366
104	265	6	101	282
105	310	7	97	254
106	274	6	100	249
108	368	8	107	319
109	268	6	119	311
110	480	10	104	358
112	372	8	147	393
116	315	7	109	309
117	273	6	144	272
125	345	7	134	342
126	327	7	117	284
127	252	5	118	250
128	254	5	141	255
129	241	5	135	239
131	308	6	117	295
132	361	8	114	339
133	325	7	93	332
134	382	8	120	348
135	410	9	105	414
136	361	8	122	320
137	318	7	114	253
138	178	4	111	214

(a) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.021 TO THE PRIVATE PASSENGER TYPES CSL LIABILITY LOSS COSTS.

(b) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$ 500 DEDUCTIBLE LOSS COST.

(c) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES

FOR VAN POOLS POLICY COVERAGES

TERRITORY CODE	\$100,000 CSL LIABILITY	\$500 MED PAY
102	20.9%	20.6%
104	20.0%	20.7%
105	17.3%	17.6%
106	15.9%	16.7%
108	18.9%	20.0%
109	15.1%	13.8%
110	16.7%	16.7%
112	14.5%	13.5%
116	17.6%	19.4%
117	19.0%	17.6%
125	19.5%	18.6%
126	15.5%	18.2%
127	15.4%	14.3%
128	11.8%	11.1%
129	14.9%	10.5%
131	27.5%	27.7%
132	16.5%	16.7%
133	18.4%	17.6%
134	16.2%	16.3%
135	19.0%	20.5%
136	16.7%	14.7%
137	16.7%	16.7%
138	16.2%	16.7%

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TERRITORY LOSS COST LEVEL CHANGES

FOR VAN POOLS POLICY COVERAGES

TERRITORY CODE	PHYSICAL DAMAGE		SPECIFIED CAUSES OF LOSS
	COMPREHENSIVE	COLLISION	
102	10.9%	3.1%	10.9%
104	13.5%	11.9%	13.3%
105	14.3%	4.7%	13.4%
106	12.5%	11.2%	11.5%
108	15.0%	5.7%	14.4%
109	13.8%	4.6%	12.1%
110	13.0%	6.3%	12.6%
112	8.6%	2.6%	8.8%
116	18.5%	9.0%	17.6%
117	9.8%	7.6%	10.3%
125	13.8%	6.0%	13.0%
126	13.0%	6.3%	13.3%
127	11.0%	5.9%	10.8%
128	14.0%	2.8%	13.5%
129	19.4%	6.8%	20.0%
131	13.1%	18.4%	12.9%
132	13.3%	8.2%	13.2%
133	12.2%	10.6%	12.8%
134	13.2%	2.4%	13.0%
135	14.8%	9.9%	13.0%
136	10.3%	5.0%	10.0%
137	13.5%	3.0%	13.5%
138	13.0%	4.4%	12.0%

REVISED BASE LOSS COSTS BY TERRITORY

FOR VAN POOLS POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500			SPECIFIED CAUSES OF LOSS (e)
	\$100,000 CSL (a)	MED PAY (b)	COMPREHENSIVE (c)	COLLISION (d)	
102	573	41	142	297	122
104	497	35	109	300	94
105	285	20	128	243	110
106	393	28	135	279	116
108	510	36	138	298	119
109	465	33	140	272	120
110	489	35	113	352	98
112	593	42	114	310	99
116	521	37	179	292	154
117	282	20	123	268	107
125	716	51	181	353	156
126	543	39	148	304	128
127	345	24	131	305	113
128	284	20	147	291	126
129	300	21	166	315	144
131	845	60	121	366	105
132	594	42	119	276	103
133	567	40	101	271	88
134	710	50	120	302	104
135	657	47	132	234	113
136	552	39	128	295	110
137	398	28	126	276	109
138	302	21	130	235	112

- (a) THE LOSS COSTS FOR VAN POOLS HAVE BEEN CALCULATED BY A RELATIVITY OF 1.50 TO THE TRUCKS, TRACTORS & TRAILERS CSL LIABILITY LOSS COSTS.
- (b) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.071 TO THE VAN POOLS CSL LIABILITY LOSS COSTS.
- (c) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 1.02 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (d) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 1.27 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (e) THE LOSS COSTS FOR SPECIFIED CAUSES OF LOSS HAVE BEEN CALCULATED BY A RELATIVITY OF 1.02 TO THE CORRESPONDING TRUCKS, TRACTORS & TRAILERS LOSS COST.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES
FOR TAXIS AND LIMOUSINES POLICY COVERAGES

TERRITORY CODE	\$100,000 CSL LIABILITY	\$500 MED PAY
102	20.9%	19.7%
104	19.9%	19.4%
105	17.3%	16.7%
106	15.9%	16.0%
108	18.9%	18.8%
109	15.2%	15.0%
110	16.8%	17.7%
112	14.5%	14.3%
116	17.6%	16.7%
117	19.0%	20.0%
125	19.5%	19.1%
126	15.6%	15.7%
127	15.6%	15.9%
128	11.8%	10.5%
129	14.9%	15.4%
131	27.4%	27.3%
132	16.5%	15.8%
133	18.5%	18.3%
134	16.3%	16.5%
135	19.0%	19.5%
136	16.8%	17.1%
137	16.8%	15.7%
138	16.1%	15.4%

TERRITORY LOSS COST LEVEL CHANGES
FOR TAXIS AND LIMOUSINES POLICY COVERAGES

TERRITORY CODE	PHYSICAL DAMAGE		SPECIFIED CAUSES OF LOSS
	COMPREHENSIVE	COLLISION	
102	10.9%	3.1%	10.9%
104	13.5%	11.9%	13.3%
105	14.3%	4.7%	13.4%
106	12.5%	11.2%	11.5%
108	15.0%	5.7%	14.4%
109	13.8%	4.6%	12.1%
110	13.0%	6.3%	12.6%
112	8.6%	2.6%	8.8%
116	18.5%	9.0%	17.6%
117	9.8%	7.6%	10.3%
125	13.8%	6.0%	13.0%
126	13.0%	6.3%	13.3%
127	11.0%	5.9%	10.8%
128	14.0%	2.8%	13.5%
129	19.4%	6.8%	20.0%
131	13.1%	18.4%	12.9%
132	13.3%	8.2%	13.2%
133	12.2%	10.6%	12.8%
134	13.2%	2.4%	13.0%
135	14.8%	9.9%	13.0%
136	10.3%	5.0%	10.0%
137	13.5%	3.0%	13.5%
138	13.0%	4.4%	12.0%

REVISED BASE LOSS COSTS BY TERRITORY
FOR TAXIS AND LIMOUSINES POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500			SPECIFIED CAUSES OF LOSS (e)
	\$100,000 CSL (a)	MED PAY (b)	COMPREHENSIVE (c)	COLLISION (d)	
102	2368	85	142	297	122
104	2052	74	109	300	94
105	1178	42	128	243	110
106	1624	58	135	279	116
108	2108	76	138	298	119
109	1922	69	140	272	120
110	2021	73	113	352	98
112	2449	88	114	310	99
116	2151	77	179	292	154
117	1166	42	123	268	107
125	2957	106	181	353	156
126	2244	81	148	304	128
127	1426	51	131	305	113
128	1172	42	147	291	126
129	1240	45	166	315	144
131	3491	126	121	366	105
132	2455	88	119	276	103
133	2344	84	101	271	88
134	2933	106	120	302	104
135	2716	98	132	234	113
136	2282	82	128	295	110
137	1643	59	126	276	109
138	1246	45	130	235	112

- (a) THE LOSS COSTS FOR TAXIS AND LIMOUSINES HAVE BEEN CALCULATED BY A RELATIVITY OF 6.20 TO THE TRUCKS, TRACTORS & TRAILERS CSL LIABILITY LOSS COSTS.
- (b) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.036 TO THE TAXIS AND LIMOUSINES CSL LIABILITY LOSS COSTS.
- (c) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 1.02 TO THE TRUCKS , TRACTORS & TRAILERS LOSS COST.
- (d) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 1.27 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (e) THE LOSS COSTS FOR SPECIFIED CAUSES OF LOSS HAVE BEEN CALCULATED BY A RELATIVITY OF 1.02 TO THE CORRESPONDING TRUCKS, TRACTORS & TRAILERS LOSS COST.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES
FOR SCHOOL AND CHURCH BUSES POLICY COVERAGES

TERRITORY CODE	\$100,000 CSL LIABILITY	\$500 MED PAY
102	20.7%	28.6%
104	19.7%	14.3%
105	18.0%	25.0%
106	16.1%	20.0%
108	19.1%	14.3%
109	15.5%	16.7%
110	17.0%	14.3%
112	14.2%	12.5%
116	17.9%	14.3%
117	18.4%	0.0%
125	19.6%	22.2%
126	15.7%	28.6%
127	16.5%	0.0%
128	11.8%	0.0%
129	14.6%	25.0%
131	27.6%	30.0%
132	16.6%	12.5%
133	18.9%	12.5%
134	16.1%	10.0%
135	19.3%	11.1%
136	16.8%	28.6%
137	16.8%	20.0%
138	16.8%	25.0%

TERRITORY LOSS COST LEVEL CHANGES
FOR SCHOOL AND CHURCH BUSES POLICY COVERAGES

TERRITORY CODE	PHYSICAL DAMAGE		SPECIFIED CAUSES OF LOSS
	COMPREHENSIVE	COLLISION	
102	10.2%	2.7%	10.5%
104	13.6%	11.7%	12.3%
105	14.3%	4.2%	13.4%
106	10.8%	10.9%	12.7%
108	14.5%	6.3%	15.5%
109	12.9%	4.5%	12.2%
110	13.0%	5.9%	11.7%
112	8.3%	2.6%	9.7%
116	18.3%	9.5%	17.8%
117	10.4%	7.9%	10.4%
125	13.8%	6.5%	12.6%
126	13.3%	6.2%	12.8%
127	11.1%	5.4%	11.4%
128	14.8%	2.8%	14.5%
129	20.0%	6.6%	19.3%
131	12.2%	18.4%	12.5%
132	13.9%	7.6%	14.5%
133	11.3%	10.4%	13.2%
134	13.7%	2.6%	12.7%
135	13.9%	10.1%	13.0%
136	10.0%	4.9%	10.1%
137	14.5%	2.9%	13.6%
138	12.7%	4.3%	11.6%

REVISED BASE LOSS COSTS BY TERRITORY
FOR SCHOOL AND CHURCH BUSES POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500			SPECIFIED CAUSES OF LOSS (e)
	\$100,000 CSL (a)	MED PAY (b)	COMPREHENSIVE (c)	COLLISION (d)	
102	210	9	97	152	84
104	182	8	75	153	64
105	105	5	88	124	76
106	144	6	92	143	80
108	187	8	95	153	82
109	171	7	96	139	83
110	179	8	78	180	67
112	217	9	78	159	68
116	191	8	123	150	106
117	103	4	85	137	74
125	262	11	124	181	107
126	199	9	102	155	88
127	127	5	90	156	78
128	104	4	101	149	87
129	110	5	114	161	99
131	310	13	83	187	72
132	218	9	82	141	71
133	208	9	69	138	60
134	260	11	83	155	71
135	241	10	90	120	78
136	202	9	88	151	76
137	146	6	87	141	75
138	111	5	89	120	77

- (a) THE LOSS COSTS FOR SCHOOL AND CHURCH BUSES HAVE BEEN CALCULATED BY A RELATIVITY OF 0.55 TO THE TRUCKS, TRACTORS & TRAILERS CSL LIABILITY LOSS COSTS.
- (b) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.043 TO THE SCHOOL AND CHURCH BUSES CSL LIABILITY LOSS COSTS.
- (c) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 0.70 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (d) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 0.65 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (e) THE LOSS COSTS FOR SPECIFIED CAUSES OF LOSS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.70 TO THE CORRESPONDING TRUCKS, TRACTORS & TRAILERS LOSS COST.

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES
FOR ALL OTHER BUSES POLICY COVERAGES

TERRITORY CODE	\$100,000 CSL LIABILITY	\$500 MED PAY
102	20.9%	21.1%
104	19.9%	17.6%
105	17.2%	15.0%
106	15.9%	18.5%
108	18.9%	17.1%
109	15.3%	15.2%
110	16.9%	17.6%
112	14.5%	14.3%
116	17.7%	16.7%
117	19.0%	21.1%
125	19.6%	18.4%
126	15.7%	15.8%
127	15.6%	16.7%
128	11.8%	9.5%
129	15.0%	14.3%
131	27.3%	25.9%
132	16.5%	17.1%
133	18.5%	17.9%
134	16.2%	16.0%
135	19.0%	17.8%
136	16.8%	18.4%
137	16.7%	14.3%
138	16.3%	14.3%

MISSOURI

TERRITORY LOSS COST LEVEL CHANGES
FOR ALL OTHER BUSES POLICY COVERAGES

TERRITORY CODE	PHYSICAL DAMAGE		SPECIFIED CAUSES OF LOSS
	COMPREHENSIVE	COLLISION	
102	10.2%	2.7%	10.5%
104	13.6%	11.7%	12.3%
105	14.3%	4.2%	13.4%
106	10.8%	10.9%	12.7%
108	14.5%	6.3%	15.5%
109	12.9%	4.5%	12.2%
110	13.0%	5.9%	11.7%
112	8.3%	2.6%	9.7%
116	18.3%	9.5%	17.8%
117	10.4%	7.9%	10.4%
125	13.8%	6.5%	12.6%
126	13.3%	6.2%	12.8%
127	11.1%	5.4%	11.4%
128	14.8%	2.8%	14.5%
129	20.0%	6.6%	19.3%
131	12.2%	18.4%	12.5%
132	13.9%	7.6%	14.5%
133	11.3%	10.4%	13.2%
134	13.7%	2.6%	12.7%
135	13.9%	10.1%	13.0%
136	10.0%	4.9%	10.1%
137	14.5%	2.9%	13.6%
138	12.7%	4.3%	11.6%

REVISED BASE LOSS COSTS BY TERRITORY

FOR ALL OTHER BUSES POLICY COVERAGES

TERRITORY CODE	LIABILITY	\$500			SPECIFIED CAUSES OF LOSS (e)
	\$100,000 CSL (a)	MED PAY (b)	COMPREHENSIVE (c)	COLLISION (d)	
102	1452	46	97	152	84
104	1258	40	75	153	64
105	722	23	88	124	76
106	996	32	92	143	80
108	1292	41	95	153	82
109	1178	38	96	139	83
110	1239	40	78	180	67
112	1501	48	78	159	68
116	1319	42	123	150	106
117	714	23	85	137	74
125	1813	58	124	181	107
126	1376	44	102	155	88
127	874	28	90	156	78
128	718	23	101	149	87
129	760	24	114	161	99
131	2139	68	83	187	72
132	1505	48	82	141	71
133	1436	46	69	138	60
134	1797	58	83	155	71
135	1664	53	90	120	78
136	1398	45	88	151	76
137	1007	32	87	141	75
138	764	24	89	120	77

- (a) THE LOSS COSTS FOR ALL OTHER BUSES HAVE BEEN CALCULATED BY A RELATIVITY OF 3.80 TO THE TRUCKS, TRACTORS & TRAILERS CSL LIABILITY LOSS COSTS.
- (b) THE LOSS COSTS FOR MEDICAL PAYMENTS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.032 TO THE ALL OTHER BUSES CSL LIABILITY LOSS COSTS.
- (c) COMPREHENSIVE BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 0.70 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (d) COLLISION BASE LOSS COST IS THE \$15,001-\$20,000 OCN, AGE 1, \$500 DEDUCTIBLE LOSS COST, AND HAS BEEN CALCULATED BY A RELATIVITY OF 0.65 TO THE TRUCKS, TRACTORS & TRAILERS LOSS COST.
- (e) THE LOSS COSTS FOR SPECIFIED CAUSES OF LOSS HAVE BEEN CALCULATED BY A RELATIVITY OF 0.70 TO THE CORRESPONDING TRUCKS, TRACTORS & TRAILERS LOSS COST.

MISSOURI
COMMERCIAL AUTOMOBILE

SECTION B - CALCULATION OF CHANGES

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OVERVIEW OF ISO ACTUARIAL PROCEDURES – COMMERCIAL AUTOMOBILE

INTRODUCTION Commercial Automobile 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 by coverage for the major classes.

**STEP 1:
DETERMINATION
OF STATEWIDE
LOSS COST
INDICATION** The first step in this process is the determination of the statewide loss cost indication by major class/coverage. In other words, what percentage changes 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 on the exhibits labeled "Determination of Statewide Advisory Loss Cost Level Change."

**STEP 2:
DISTRIBUTION TO
TERRITORIES** For all of the liability coverages and for Trucks, Tractors & Trailers and Private Passenger Types Physical Damage, ISO then distributes the filed statewide basic limit loss cost change to the individual territorial loss costs by comparing the relative loss experience by territory to the statewide average.

**STEP 3:
APPLICATION OF
PERCENT CHANGES** The last step is the calculation of the ISO advisory prospective loss costs. This is achieved by applying either the filed statewide or territorial changes to the current ISO loss costs. For liability, the percentage change is applied at the basic limit; for physical damage, it is applied at the base OCN, age and deductible. The resulting Loss Costs are displayed in Section D.

OVERVIEW OF ISO ACTUARIAL PROCEDURES – COMMERCIAL AUTOMOBILE

STEP 1 – DETERMINATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGE

OBJECTIVE The objective of this procedure is to determine the indicated statewide advisory 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 are assumed to be in effect?

DESCRIPTION This procedure compares the developed and trended incurred losses and loss adjustment expenses with the aggregate loss costs at current ISO loss cost level, which is the aggregate amount that would have been collected if the current ISO loss costs were used during the experience period. 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 weights are determined as a function of the credibility or volume of claim experience. The average experience ratio is then credibility weighted with the expected experience ratio in order to minimize the impact of random variation in the observed losses. This credibility weighted experience ratio is the indicated statewide advisory loss cost level change in decimal form.

EXPERIENCE BASE The experience used in this review is the latest available as reported under the ISO Commercial Statistical Plan. All coverages are on an accident year basis. For liability, the review is conducted on a \$100,000 basic limits basis - indemnity losses are limited to \$100,000 per occurrence.

AGGREGATE LOSS COSTS (Item 1) 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 were used during the experience period. It is calculated by extending the exposures by the current ISO loss costs. For liability, the \$100,000 basic limit loss costs are used. For Trucks, Tractors, and Trailers and Private Passenger Types Physical Damage, loss costs are on an all deductibles combined basis.

Trucks, Tractors & Trailers and Private Passenger Types physical damage aggregate loss costs are placed on the prospective OCN relativity level by the application of OCN trend factors.

INCURRED
LOSSES & LAE
(Item 2)

The incurred losses and loss adjustment expenses are our best estimate of the ultimate payment for indemnity losses and loss adjustment expenses using the claim frequency and severity levels ISO expects to occur during the prospective period for which the revised loss costs will be used.

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

- Incurred indemnity losses are capped at the basic limit;
- 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 levels by the application of trend factors.

For the physical damage coverages, the reported paid (accident year) losses are subject to the following adjustments:

- Paid Other Than Collision losses are adjusted using an Excess Wind and Water procedure;
- Developed to an ultimate settlement basis by the application of loss development factors;
- Loaded for all loss adjustment expenses;
- Placed on the prospective cost/frequency levels by the application of trend factors.

Refer to Section C for the support for these loss related adjustments.

EXPERIENCE
RATIO
(Item 3)

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.

YEAR WEIGHTS
(Item 4)

The number of years of experience used and year weights are determined by the total number of claims in the experience period. To the extent there is adequate credibility, ISO uses fewer years and gives greater weight to the most recent years. Refer to the credibility pages of Section C for the methodology used to arrive at both the number of years used and the year weights.

**EXPECTED
EXPERIENCE
RATIO
(Item 7)**

The expected experience ratio is our best prediction of the experience ratio if the most recent data was not available. For this review we have assumed that the current loss costs were adequate when implemented and will be inadequate for the prospective period to the extent of the net trend. It is calculated as the combined trend factor projected for the number of years between the last revision (or review) and this revision.

CREDIBILITY

Credibility is based upon the number of claims for all years in the experience period. The procedure for assigning credibility is outlined in the credibility pages of Section C.

**CREDIBILITY
WEIGHTED
EXPERIENCE
RATIO**

The average experience ratio is credibility weighted with the expected experience ratio. The resulting credibility weighted experience ratio, converted to a percentage, is the indicated change to the current ISO loss costs.

INSURANCE SERVICES OFFICE, INC.

MISSOURI

AUTOMOBILE LIABILITY INSURANCE - TRUCKS, TRACTORS AND TRAILERS (A)
 DETERMINATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES
 SINGLE LIMIT LIABILITY COVERAGE

	(1)	(2)	(3)	(4)	(5)
ACCIDENT YEAR ENDING	AGGREGATE LOSS COST AT CURRENT LEVEL (B)	\$ INCURRED LOSSES (C)	EXPERIENCE RATIO (2) / (1)	ACCIDENT YEAR WEIGHTS	NUMBER OF INCURRED CLAIMS
03/31/15	\$ 23,274,760	\$ 24,134,381	1.037	20%	2,563
03/31/16	\$ 22,484,465	\$ 25,420,286	1.131	30%	2,557
03/31/17	\$ 22,703,705	\$ 29,655,905	1.306	50%	2,672
(6)	AVERAGE EXPERIENCE RATIO (SUM OF (3)*(4)).				1.199
(7)	EXPECTED EXPERIENCE RATIO (D).				1.040
(8)	CREDIBILITY (E).				0.80
(9)	CREDIBILITY WEIGHTED EXPERIENCE RATIO: ((6) * (8)) + ((7) * (1.000 - (8))).				1.167
(10)	INDICATED PERCENTAGE CHANGE IN ADVISORY LOSS COST LEVEL ((9) - 1.000).				16.7%
(11)	FILED CHANGE.				16.7%

- (A) TRUCK, TRACTOR AND TRAILER EXPERIENCE IS FOR VEHICLES WRITTEN IN ACCORDANCE WITH RULE 23 OF THE COMMERCIAL LINES MANUAL, DIVISION 1, AUTOMOBILE.
- (B) THE AGGREGATE LOSS COST AT CURRENT LEVEL IS CALCULATED BY EXTENDING EXPOSURES BY THE CURRENT LOSS COSTS FROM THE LAST REVISION.
- (C) LOSSES INCLUDE ALL LOSS ADJUSTMENT EXPENSES FOR BODILY INJURY AND PROPERTY DAMAGE LIABILITY. SEE FOLLOWING PAGE.
- (D) EXPECTED EXPERIENCE RATIO IS EQUAL TO THE COMBINED TREND FACTOR SHOWN ON THE FOLLOWING PAGE, PROJECTED FOR M YEARS. THE PERIOD M IS EQUAL TO THE NUMBER OF YEARS FROM ONE YEAR BEYOND THE IMPLEMENTATION DATE OF THE LAST REVISION TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18 WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING, SUBJECT TO A MAXIMUM OF THE N-VALUE CORRESPONDING TO THE LATEST YEAR SHOWN ON THE FOLLOWING PAGE, FOOTNOTE B. IN THIS REVISION, THE PERIOD M IS 1.00 YEAR(S).
- (E) CREDIBILITY IS BASED ON A 3 YEAR TOTAL OF CLAIMS FOR B.I. AND P.D. SHOWN IN COLUMN (5). THE STANDARD FOR FULL CREDIBILITY IS 11,500 CLAIMS (SEE CREDIBILITY TABLES IN SECTION C).

MISSOURI
TRUCKS, TRACTORS AND TRAILERS
AUTOMOBILE LIABILITY INSURANCE
DETERMINATION OF SINGLE LIMIT LOSSES

	ACC. YEAR ENDING	BODILY INJURY	PROPERTY DAMAGE	COMBINED
(1) INCURRED LOSSES AND ALLOCATED LOSS ADJUSTMENT EXPENSES.	03/31/15 03/31/16 03/31/17	\$9,232,207 \$10,033,937 \$11,188,596	\$7,915,305 \$8,068,004 \$8,882,065	
(2) DEVELOPED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (A).	03/31/15 03/31/16 03/31/17	\$10,748,504 \$12,548,844 \$16,192,137	\$8,781,397 \$9,022,128 \$10,138,566	
(3) SELECTED ANNUAL LOSS TREND (SEE TREND EXHIBIT IN SECTION C).		+ 2.5%	+ 6.4%	+ 4.0%
(4) TRENDED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (B).	03/31/15 03/31/16 03/31/17	\$12,156,556 \$13,853,922 \$17,438,931	\$11,977,825 \$11,566,364 \$12,216,974	\$24,134,381 \$25,420,286 \$29,655,905

(A) INCURRED LOSSES AND ALLOCATED LOSS ADJUSTMENT EXPENSES ARE ADJUSTED BY THE FOLLOWING FACTORS:

1 - UNALLOCATED LOSS ADJUSTMENT FACTORS: B.I. 1.080 P.D. 1.105
2 - LOSS DEVELOPMENT FACTORS:

YEAR ENDING	B.I.	P.D.
03/31/15	1.078	1.004
03/31/16	1.158	1.012
03/31/17	1.340	1.033

(B) TRENDED LOSSES ARE EQUAL TO (2) * ((1.0 + (3))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF ACCIDENT TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18, WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING.

YEAR ENDING	AVERAGE DATE OF ACCIDENT	PROJECTION PERIOD
03/31/15	10/01/14	5.000
03/31/16	10/01/15	4.000
03/31/17	10/01/16	3.000

INSURANCE SERVICES OFFICE, INC.

MISSOURI

AUTOMOBILE PHYSICAL DAMAGE INSURANCE - TRUCKS, TRACTORS AND TRAILERS (A)
 DETERMINATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES

		(1)	(2)	(3)	(4)	(5)
		AGGREGATE		EXPERIENCE	ACCIDENT	NUMBER
COV-	ACCIDENT	LOSS COST	INCURRED	RATIO	YEAR	OF
ERAGE	YEAR	AT CURRENT	LOSSES (C)	(2) / (1)	WEIGHTS	PAID
O.T.C.	ENDING	LEVEL (B)				CLAIMS
	03/31/13	\$ 3,707,057	\$ 4,070,175	1.098	10%	771
	03/31/14	\$ 4,113,793	\$ 4,690,466	1.140	15%	839
	03/31/15	\$ 4,093,887	\$ 4,825,669	1.179	20%	842
	03/31/16	\$ 4,044,586	\$ 4,864,245	1.203	25%	859
	03/31/17	\$ 4,226,996	\$ 5,342,536	1.264	30%	972
COLL.	03/31/15	\$ 10,829,249	\$ 11,219,045	1.036	20%	1,171
	03/31/16	\$ 10,794,724	\$ 10,577,693	0.980	30%	1,136
	03/31/17	\$ 11,233,038	\$ 12,838,568	1.143	50%	1,245

O.T.C. COLLISION

- (6) AVERAGE EXPERIENCE RATIO (SUM OF (3) * (4)). 1.197 1.073
- (7) EXPECTED EXPERIENCE RATIO (D). 1.056 1.041
- (8) CREDIBILITY (E). 0.60 0.85
- (9) CREDIBILITY WEIGHTED EXPERIENCE RATIO:
 ((6) * (8)) + ((7) * (1.000 - (8))). 1.141 1.068
- (10) INDICATED PERCENTAGE CHANGE IN ADVISORY
 LOSS COST LEVEL ((9) - 1.000). 14.1% 6.8%
- (11) FILED CHANGE. 14.1% 6.8%

- (A) TRUCK, TRACTOR AND TRAILER EXPERIENCE IS FOR VEHICLES WRITTEN IN ACCORDANCE WITH RULE 23 OF THE COMMERCIAL LINES MANUAL, DIVISION 1, AUTOMOBILE.
- (B) THE AGGREGATE LOSS COST AT CURRENT LEVEL IS CALCULATED BY EXTENDING EXPOSURES BY THE CURRENT LOSS COSTS AND ADJUSTING TO A PROSPECTIVE OCN LEVEL BY THE APPLICATION OF OCN TREND FACTORS. (SEE SUBSEQUENT PAGE).
- (C) LOSSES INCLUDE ALL LOSS ADJUSTMENT EXPENSES FOR O.T.C. AND COLL. SEE FOLLOWING PAGE.
- (D) EXPECTED EXPERIENCE RATIO IS EQUAL TO THE TREND FACTOR DIVIDED BY THE OCN TREND FACTOR, PROJECTED FOR M YEARS. THE PERIOD M IS EQUAL TO THE NUMBER OF YEARS FROM ONE YEAR BEYOND THE IMPLEMENTATION DATE OF THE LAST REVISION TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18, WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING, SUBJECT TO A MAXIMUM OF THE N-VALUE CORRESPONDING TO THE LATEST YEAR SHOWN ON THE FOLLOWING PAGE, FOOTNOTE B. IN THIS REVISION, THE PERIOD IS 1.00 YEAR(S).
- (E) CREDIBILITY IS BASED ON A 5 YEAR TOTAL OF CLAIMS FOR O.T.C. AND A 3 YEAR TOTAL OF CLAIMS FOR COLLISION SHOWN IN COLUMN (5). THE STANDARDS FOR FULL CREDIBILITY ARE 11,000 CLAIMS FOR O.T.C. AND 4,500 CLAIMS FOR COLLISION (SEE CREDIBILITY TABLES IN SECTION C).

MISSOURI
TRUCKS, TRACTORS AND TRAILERS
AUTOMOBILE PHYSICAL DAMAGE INSURANCE
DETERMINATION OF PHYSICAL DAMAGE LOSSES

	ACC. YEAR ENDING	O.T.C.	COLLISION
(1) PAID LOSSES.	03/31/13	\$2,297,510	----
	03/31/14	\$2,820,043	----
	03/31/15	\$3,086,726	\$7,537,199
	03/31/16	\$3,311,325	\$7,534,049
	03/31/17	\$3,781,190	\$9,828,648
(2) DEVELOPED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (A).	03/31/13	\$2,619,161	----
	03/31/14	\$3,214,849	----
	03/31/15	\$3,522,390	\$8,583,814
	03/31/16	\$3,782,459	\$8,537,283
	03/31/17	\$4,422,632	\$10,935,745
(3) SELECTED ANNUAL LOSS TREND (SEE TREND EXHIBIT IN SECTION C)		+ 6.5%	+ 5.5%
(4) TRENDED LOSSES & ALL LOSS ADJUSTMENT EXPENSES (B).	03/31/13	\$4,070,175	----
	03/31/14	\$4,690,466	----
	03/31/15	\$4,825,669	\$11,219,045
	03/31/16	\$4,864,245	\$10,577,693
	03/31/17	\$5,342,536	\$12,838,568

(A) PAID LOSSES ARE ADJUSTED BY THE FOLLOWING:

1-LOSS ADJUSTMENT EXPENSE FACTORS:

O.T.C.	COLL.
1.140	1.140

2-LOSS DEVELOPMENT FACTORS:

YEAR ENDING	O.T.C.	COLL.
03/31/13	1.000	-----
03/31/14	1.000	-----
03/31/15	1.001	0.999
03/31/16	1.002	0.994
03/31/17	1.026	0.976

(B) TRENDED LOSSES ARE EQUAL TO (2) * ((1.0 + (3))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF ACCIDENT TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATES OF 10/01/18 FOR OTC AND 10/01/18 FOR COLLISION, WHICH ARE ASSUMED FOR THE PURPOSE OF TRENDING.

YEAR ENDING	AVERAGE DATE OF ACCIDENT	PROJECTION PERIOD OTC	PROJECTION PERIOD COLL
03/31/13	10/01/12	7.000	-----
03/31/14	10/01/13	6.000	-----
03/31/15	10/01/14	5.000	5.000
03/31/16	10/01/15	4.000	4.000
03/31/17	10/01/16	3.000	3.000

INSURANCE SERVICES OFFICE, INC.

MISSOURI
 TRUCKS, TRACTORS AND TRAILERS
 AUTOMOBILE PHYSICAL DAMAGE INSURANCE
 DETERMINATION OF PHYSICAL DAMAGE TRENDED
 AGGREGATE LOSS COSTS

	ACC. YEAR ENDING	O.T.C.	COLLISION
(1) AGGREGATE LOSS COSTS	03/31/13	\$3,480,804	----
AT CURRENT LEVEL.	03/31/14	\$3,899,330	----
	03/31/15	\$3,913,851	\$10,149,248
	03/31/16	\$3,904,042	\$10,251,400
	03/31/17	\$4,115,867	\$10,800,998
(2) SELECTED ANNUAL OCN TREND		0.9%	1.3%
(SEE OCN EXHIBIT IN SECTION C).			

(3) TRENDED AGGREGATE	03/31/13	\$3,707,057	----
LOSS COSTS AT	03/31/14	\$4,113,793	----
CURRENT LEVEL (A).	03/31/15	\$4,093,887	\$10,829,249
	03/31/16	\$4,044,586	\$10,794,724
	03/31/17	\$4,226,996	\$11,233,038

(A) TRENDED AGGREGATE LOSS COSTS ARE EQUAL TO (1) * ((1.0 + (2))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF WRITING TO SIX MONTHS BEYOND THE ANTICIPATED IMPLEMENTATION DATES OF 10/01/18 FOR OTC AND 10/01/18 FOR COLLISION, WHICH ARE ASSUMED FOR THE PURPOSE OF TRENDING.

YEAR ENDING	AVERAGE DATE OF WRITING	PROJECTION PERIOD OTC	PROJECTION PERIOD COLL
03/31/13	04/01/12	7.000	-----
03/31/14	04/01/13	6.000	-----
03/31/15	04/01/14	5.000	5.000
03/31/16	04/01/15	4.000	4.000
03/31/17	04/01/16	3.000	3.000

INSURANCE SERVICES OFFICE, INC.

MISSOURI

AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER TYPES (A)
 DETERMINATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES
 SINGLE LIMIT LIABILITY COVERAGE

	(1)	(2)	(3)	(4)	(5)
ACCIDENT YEAR ENDING	AGGREGATE LOSS COST AT CURRENT LEVEL (B)	\$ 100,000 INCURRED LOSSES (C)	EXPERIENCE RATIO (2) / (1)	ACCIDENT YEAR WEIGHTS	NUMBER OF INCURRED CLAIMS
03/31/13	\$ 5,351,855	\$ 6,631,007	1.239	10%	727
03/31/14	\$ 5,400,863	\$ 6,385,978	1.182	15%	705
03/31/15	\$ 5,349,745	\$ 5,010,152	0.937	20%	620
03/31/16	\$ 5,266,840	\$ 5,511,515	1.046	25%	663
03/31/17	\$ 5,215,433	\$ 4,907,401	0.941	30%	597
(6)	AVERAGE EXPERIENCE RATIO (SUM OF (3)*(4)).				1.032
(7)	EXPECTED EXPERIENCE RATIO (D).				1.043
(8)	CREDIBILITY (E).				0.50
(9)	CREDIBILITY WEIGHTED EXPERIENCE RATIO: ((6) * (8)) + ((7) * (1.000 - (8))).				1.038
(10)	INDICATED PERCENTAGE CHANGE IN ADVISORY LOSS COST LEVEL ((9) - 1.000).				3.8%
(11)	FILED CHANGE.				3.8%

(A) PRIVATE PASSENGER TYPE EXPERIENCE IS FOR VEHICLES WRITTEN IN ACCORDANCE WITH RULE 31 OF THE COMMERCIAL LINES MANUAL, DIVISION 1, AUTOMOBILE.

(B) THE AGGREGATE LOSS COST AT CURRENT LEVEL IS CALCULATED BY EXTENDING EXPOSURES BY THE CURRENT LOSS COSTS FROM THE LAST REVISION.

(C) LOSSES INCLUDE ALL LOSS ADJUSTMENT EXPENSES FOR BODILY INJURY AND PROPERTY DAMAGE LIABILITY. SEE FOLLOWING PAGE.

(D) EXPECTED EXPERIENCE RATIO IS EQUAL TO THE COMBINED TREND FACTOR SHOWN ON THE FOLLOWING PAGE, PROJECTED FOR M YEARS. THE PERIOD M IS EQUAL TO THE NUMBER OF YEARS FROM ONE YEAR BEYOND THE IMPLEMENTATION DATE OF THE LAST REVISION TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18 WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING, SUBJECT TO A MAXIMUM OF THE N-VALUE CORRESPONDING TO THE LATEST YEAR SHOWN ON THE FOLLOWING PAGE, FOOTNOTE B. IN THIS REVISION, THE PERIOD M IS 1.00 YEAR(S).

(E) CREDIBILITY IS BASED ON A 5 YEAR TOTAL OF CLAIMS FOR B.I. AND P.D. SHOWN IN COLUMN (5). THE STANDARD FOR FULL CREDIBILITY IS 11,500 CLAIMS (SEE CREDIBILITY TABLES IN SECTION C).

MISSOURI
PRIVATE PASSENGER TYPES
AUTOMOBILE LIABILITY INSURANCE
DETERMINATION OF SINGLE LIMIT LOSSES

	ACC. YEAR ENDING	BODILY INJURY	PROPERTY DAMAGE	COMBINED
(1) INCURRED LOSSES AND ALLOCATED LOSS ADJUSTMENT EXPENSES.	03/31/13	\$2,913,839	\$1,685,218	
	03/31/14	\$3,043,187	\$1,552,018	
	03/31/15	\$2,076,499	\$1,525,936	
	03/31/16	\$2,214,732	\$1,796,227	
	03/31/17	\$1,674,816	\$1,708,678	
(2) DEVELOPED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (A).	03/31/13	\$3,156,386	\$1,864,030	
	03/31/14	\$3,355,663	\$1,718,409	
	03/31/15	\$2,386,148	\$1,694,591	
	03/31/16	\$2,659,803	\$2,008,648	
	03/31/17	\$2,378,575	\$1,946,622	
(3) SELECTED ANNUAL LOSS TREND (SEE TREND EXHIBIT IN SECTION C).		+ 2.5%	+ 6.4%	+ 4.3%
(4) TRENDED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (B).	03/31/13	\$3,752,946	\$2,878,061	\$6,631,007
	03/31/14	\$3,892,566	\$2,493,412	\$6,385,978
	03/31/15	\$2,698,731	\$2,311,421	\$5,010,152
	03/31/16	\$2,936,427	\$2,575,088	\$5,511,515
	03/31/17	\$2,561,724	\$2,345,677	\$4,907,401

(A) INCURRED LOSSES AND ALLOCATED LOSS ADJUSTMENT EXPENSES ARE ADJUSTED BY THE FOLLOWING FACTORS:

1 - UNALLOCATED LOSS ADJUSTMENT FACTORS: B.I. 1.080 P.D. 1.105

2 - LOSS DEVELOPMENT FACTORS:

YEAR ENDING	B.I.	P.D.
03/31/13	1.003	1.001
03/31/14	1.021	1.002
03/31/15	1.064	1.005
03/31/16	1.112	1.012
03/31/17	1.315	1.031

(B) TRENDED LOSSES ARE EQUAL TO (2) * ((1.0 + (3))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF ACCIDENT TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18, WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING.

YEAR ENDING	AVERAGE DATE OF ACCIDENT	PROJECTION PERIOD
03/31/13	10/01/12	7.000
03/31/14	10/01/13	6.000
03/31/15	10/01/14	5.000
03/31/16	10/01/15	4.000
03/31/17	10/01/16	3.000

INSURANCE SERVICES OFFICE, INC.

MISSOURI

AUTOMOBILE PHYSICAL DAMAGE INSURANCE - PRIVATE PASSENGER TYPES (A)
 DETERMINATION OF STATEWIDE ADVISORY LOSS COST LEVEL CHANGES

		(1)	(2)	(3)	(4)	(5)
	ACCIDENT	AGGREGATE		EXPERIENCE	ACCIDENT	NUMBER
COV-	YEAR	LOSS COST	INCURRED	RATIO	YEAR	OF
ERAGE	ENDING	AT CURRENT	LOSSES (C)	(2) / (1)	WEIGHTS	PAID
O.T.C.		LEVEL (B)				CLAIMS
	03/31/13	\$ 1,485,972	\$ 1,350,759	0.909	10%	468
	03/31/14	\$ 1,540,197	\$ 1,442,678	0.937	15%	458
	03/31/15	\$ 1,493,986	\$ 1,460,172	0.977	20%	451
	03/31/16	\$ 1,457,194	\$ 1,876,398	1.288	25%	567
	03/31/17	\$ 1,424,187	\$ 1,834,825	1.288	30%	482
COLL.	03/31/15	\$ 3,278,647	\$ 3,183,121	0.971	20%	565
	03/31/16	\$ 3,227,672	\$ 3,883,630	1.203	30%	608
	03/31/17	\$ 3,167,173	\$ 3,230,217	1.020	50%	589

O.T.C. COLLISION

(6)	AVERAGE EXPERIENCE RATIO (SUM OF (3)*(4)).	1.135	1.065
(7)	EXPECTED EXPERIENCE RATIO (D).	1.040	1.044
(8)	CREDIBILITY (E).	0.50	0.70
(9)	CREDIBILITY WEIGHTED EXPERIENCE RATIO: ((6) * (8)) + ((7) * (1.000 - (8))).	1.088	1.059
(10)	INDICATED PERCENTAGE CHANGE IN ADVISORY LOSS COST LEVEL ((9) - 1.000).	8.8%	5.9%
(11)	FILED CHANGE.	8.8%	5.9%

(A) PRIVATE PASSENGER TYPE EXPERIENCE IS FOR VEHICLES WRITTEN IN ACCORDANCE WITH RULE 31 OF THE COMMERCIAL LINES MANUAL, DIVISION 1, AUTOMOBILE.

(B) THE AGGREGATE LOSS COST AT CURRENT LEVEL IS CALCULATED BY EXTENDING EXPOSURES BY THE CURRENT LOSS COSTS AND ADJUSTING TO A PROSPECTIVE OCN LEVEL BY THE APPLICATION OF OCN TREND FACTORS. (SEE SUBSEQUENT PAGE).

(C) LOSSES INCLUDE ALL LOSS ADJUSTMENT EXPENSES FOR O.T.C. AND COLL. SEE FOLLOWING PAGE.

(D) EXPECTED EXPERIENCE RATIO IS EQUAL TO THE LOSS TREND FACTOR DIVIDED BY THE OCN TREND FACTOR, PROJECTED FOR M YEARS. THE PERIOD M IS EQUAL TO THE NUMBER OF YEARS FROM ONE YEAR BEYOND THE IMPLEMENTATION DATE OF THE LAST REVISION TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATE OF 10/01/18, WHICH IS ASSUMED FOR THE PURPOSE OF TRENDING, SUBJECT TO A MAXIMUM OF THE N-VALUE CORRESPONDING TO THE LATEST YEAR SHOWN ON THE FOLLOWING PAGE, FOOTNOTE B. IN THIS REVISION, THE PERIOD IS 1.00 YEAR(S).

(E) CREDIBILITY IS BASED ON A 5 YEAR TOTAL OF CLAIMS FOR O.T.C. AND A 3 YEAR TOTAL OF CLAIMS FOR COLLISION SHOWN IN COLUMN (5). THE STANDARDS FOR FULL CREDIBILITY ARE 8,500 CLAIMS FOR O.T.C. AND 3,500 CLAIMS FOR COLLISION (SEE CREDIBILITY TABLES IN SECTION C).

MISSOURI
PRIVATE PASSENGER TYPES
AUTOMOBILE PHYSICAL DAMAGE INSURANCE
DETERMINATION OF PHYSICAL DAMAGE LOSSES

	ACC. YEAR ENDING	O.T.C.	COLLISION
(1) PAID LOSSES.	03/31/13	\$842,131	----
	03/31/14	\$944,409	----
	03/31/15	\$1,003,804	\$2,190,444
	03/31/16	\$1,352,236	\$2,815,634
	03/31/17	\$1,377,496	\$2,570,285
(2) DEVELOPED LOSSES AND ALL LOSS ADJUSTMENT EXPENSES (A).	03/31/13	\$960,030	----
	03/31/14	\$1,076,627	----
	03/31/15	\$1,144,338	\$2,494,607
	03/31/16	\$1,543,091	\$3,193,773
	03/31/17	\$1,584,478	\$2,789,478
(3) SELECTED ANNUAL LOSS TREND (SEE TREND EXHIBIT IN SECTION C)		+ 5.0%	+ 5.0%
(4) TRENDED LOSSES & ALL LOSS ADJUSTMENT EXPENSES (B).	03/31/13	\$1,350,759	----
	03/31/14	\$1,442,678	----
	03/31/15	\$1,460,172	\$3,183,121
	03/31/16	\$1,876,398	\$3,883,630
	03/31/17	\$1,834,825	\$3,230,217

(A) PAID LOSSES ARE ADJUSTED BY THE FOLLOWING:

1-LOSS ADJUSTMENT EXPENSE FACTORS:

O.T.C.	COLL.
1.140	1.140

2-LOSS DEVELOPMENT FACTORS:

YEAR ENDING	O.T.C.	COLL.
03/31/13	1.000	-----
03/31/14	1.000	-----
03/31/15	1.000	0.999
03/31/16	1.001	0.995
03/31/17	1.009	0.952

(B) TRENDED LOSSES ARE EQUAL TO (2) * ((1.0 + (3))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF ACCIDENT TO ONE YEAR BEYOND THE ANTICIPATED IMPLEMENTATION DATES OF 10/01/18 FOR OTC AND 10/01/18 FOR COLLISION, WHICH ARE ASSUMED FOR THE PURPOSE OF TRENDED.

YEAR ENDING	AVERAGE DATE OF ACCIDENT	PROJECTION PERIOD OTC	PROJECTION PERIOD COLL
03/31/13	10/01/12	7.000	-----
03/31/14	10/01/13	6.000	-----
03/31/15	10/01/14	5.000	5.000
03/31/16	10/01/15	4.000	4.000
03/31/17	10/01/16	3.000	3.000

INSURANCE SERVICES OFFICE, INC.

MISSOURI
 PRIVATE PASSENGER TYPES
 AUTOMOBILE PHYSICAL DAMAGE INSURANCE
 DETERMINATION OF PHYSICAL DAMAGE TRENDED
 AGGREGATE LOSS COSTS

	ACC. YEAR ENDING	O.T.C.	COLLISION
(1) AGGREGATE LOSS COSTS	03/31/13	\$1,386,169	----
AT CURRENT LEVEL.	03/31/14	\$1,450,279	----
	03/31/15	\$1,421,488	\$3,183,151
	03/31/16	\$1,399,804	\$3,152,024
	03/31/17	\$1,382,705	\$3,111,170
(2) SELECTED ANNUAL OCN TREND		1.0%	0.6%
(SEE OCN EXHIBIT IN SECTION C).			
(3) TRENDED AGGREGATE	03/31/13	\$1,485,972	----
LOSS COSTS AT	03/31/14	\$1,540,197	----
CURRENT LEVEL (A).	03/31/15	\$1,493,986	\$3,278,647
	03/31/16	\$1,457,194	\$3,227,672
	03/31/17	\$1,424,187	\$3,167,173

(A) TRENDED AGGREGATE LOSS COSTS ARE EQUAL TO (1) * ((1.0 + (2))**N), WHERE N IS EQUAL TO THE NUMBER OF YEARS PROJECTION FROM THE AVERAGE DATE OF WRITING TO SIX MONTHS BEYOND THE ANTICIPATED IMPLEMENTATION DATES OF 10/01/18 FOR OTC AND 10/01/18 FOR COLLISION, WHICH ARE ASSUMED FOR THE PURPOSE OF TRENDING.

YEAR ENDING	AVERAGE DATE OF WRITING	PROJECTION PERIOD OTC	PROJECTION PERIOD COLL
03/31/13	04/01/12	7.000	-----
03/31/14	04/01/13	6.000	-----
03/31/15	04/01/14	5.000	5.000
03/31/16	04/01/15	4.000	4.000
03/31/17	04/01/16	3.000	3.000

OVERVIEW OF ISO ACTUARIAL PROCEDURES – COMMERCIAL AUTOMOBILE

STEP 2 – DETERMINATION OF TERRITORY RELATIVITIES

OBJECTIVE The objective of this procedure is to distribute the statewide loss cost indication by territory. In other words, what percentage changes by territory should be made in order to equitably achieve an adequate statewide prospective loss cost level?

TRUCKS, TRACTORS & TRAILERS AND PRIVATE PASSENGER TYPES LIABILITY AND PHYSICAL DAMAGE For Trucks, Tractors & Trailers and Private Passenger Types, this procedure compares the individual territory experience ratios to the statewide average experience ratio. The territory experience ratio is calculated for the latest 5 years and a statewide weighted-average experience ratio for the same period is calculated using the aggregate loss costs (product of earned car years (col 1) and underlying loss cost (col 2)) as weights. The territory experience ratio is then credibility weighted with the statewide average experience ratio to produce a formula experience ratio. The territory formula experience ratio is then compared to the statewide weighted average formula experience ratio to determine the territory index to state. The territory index is then multiplied by the filed loss cost level change in order to produce the indicated change to the individual territories. This change is then applied to the current territory base loss cost.

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 SINGLE LIMIT LIABILITY

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS, AND TRAILERS (TTT)+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED	\$100000	EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
102	2325	366.21	491.55	1.342	0.20	1.191	1.035	316	382	382	20.9%
104	3473	277.71	359.99	1.296	0.20	1.182	1.027	276	331	331	19.9%
105	1321	166.16	193.57	1.165	0.10	1.154	1.003	162	190	190	17.3%
106	4143	234.25	259.15	1.106	0.20	1.144	.994	226	262	262	15.9%
108	2243	290.52	371.94	1.280	0.15	1.172	1.018	286	340	340	18.9%
109	1362	308.60	318.89	1.033	0.15	1.135	.986	269	310	310	15.2%
110	254	230.61	65.33	0.283	0.00	1.153	1.002	279	326	326	16.8%
112	3054	368.40	389.68	1.058	0.25	1.129	.981	345	395	395	14.5%
116	3606	300.15	354.61	1.181	0.20	1.159	1.007	295	347	347	17.6%
117	5257	156.45	200.47	1.281	0.15	1.172	1.018	158	188	188	19.0%
125	1764	400.30	534.29	1.335	0.15	1.180	1.025	399	477	477	19.5%
126	1015	350.27	355.96	1.016	0.10	1.139	.990	313	362	362	15.7%
127	15260	199.85	223.74	1.120	0.35	1.141	.991	199	230	230	15.6%
128	9308	159.01	150.92	0.949	0.25	1.102	.957	169	189	189	11.8%
129	20090	167.71	184.91	1.103	0.40	1.133	.984	174	200	200	14.9%
131	82	435.66	1409.71	3.236	0.05	1.257	1.092	442	563	563	27.4%
132	501	361.25	403.85	1.118	0.10	1.150	.999	340	396	396	16.5%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 SINGLE LIMIT LIABILITY

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS, AND TRAILERS (TTT)+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED	\$100000	EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	12301	327.35	388.25	1.186	0.45	1.168	1.015	319	378	378	18.5%
134	688	430.67	465.53	1.081	0.10	1.146	.996	407	473	473	16.2%
135	1315	418.81	539.69	1.289	0.15	1.173	1.019	368	438	438	19.0%
136	1107	335.27	383.19	1.143	0.10	1.152	1.001	315	368	368	16.8%
137	2236	206.05	235.97	1.145	0.10	1.152	1.001	227	265	265	16.7%
138	1806	177.00	190.83	1.078	0.10	1.146	.996	173	201	201	16.2%
SW	94511	236.68	272.85	1.153		1.151					

+ REFER TO EXPLANATORY NOTE ON PAGE B-21

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 16.7 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 SINGLE LIMIT LIABILITY

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED	\$100000	EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
102	640	337.13	315.53	0.936	0.10	1.076	.986	329	337	337	2.4%
104	690	265.29	253.25	0.955	0.10	1.077	.987	259	265	265	2.3%
105	238	296.97	556.26	1.873	0.05	1.130	1.036	288	310	310	7.6%
106	1017	264.03	313.57	1.188	0.10	1.101	1.009	262	274	274	4.6%
108	290	355.94	477.12	1.340	0.05	1.103	1.011	351	368	368	4.8%
109	355	269.60	212.46	0.788	0.05	1.076	.986	262	268	268	2.3%
110	4	589.50	505.71	0.858	0.00	1.091	1.000	462	480	480	3.9%
112	1037	367.51	357.71	0.973	0.10	1.079	.989	362	372	372	2.8%
116	519	311.90	277.46	0.890	0.05	1.081	.991	306	315	315	2.9%
117	713	267.28	262.07	0.981	0.05	1.086	.995	264	273	273	3.4%
125	292	339.57	364.33	1.073	0.05	1.090	.999	333	345	345	3.6%
126	137	332.64	186.51	0.561	0.05	1.065	.976	323	327	327	1.2%
127	2126	244.22	275.82	1.129	0.15	1.097	1.005	242	252	252	4.1%
128	928	239.53	347.40	1.450	0.10	1.127	1.033	237	254	254	7.2%
129	2683	232.94	279.35	1.199	0.15	1.107	1.015	229	241	241	5.2%
131	45	305.31	732.99	2.401	0.00	1.091	1.000	297	308	308	3.7%
132	346	354.56	341.98	0.965	0.05	1.085	.995	349	361	361	3.4%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 SINGLE LIMIT LIABILITY

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED	\$100000	EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	3631	320.47	333.72	1.041	0.25	1.079	.989	316	325	325	2.8%
134	125	375.62	578.32	1.540	0.05	1.113	1.020	361	382	382	5.8%
135	259	385.82	720.82	1.868	0.05	1.130	1.036	381	410	410	7.6%
136	192	364.28	377.80	1.037	0.05	1.088	.997	349	361	361	3.4%
137	317	304.38	102.27	0.336	0.00	1.091	1.000	306	318	318	3.9%
138	373	178.57	116.70	0.654	0.05	1.069	.980	175	178	178	1.7%
SW	16957	286.84	312.92	1.091		1.091					

+ REFER TO EXPLANATORY NOTE ON PAGE B-21

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 3.8 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

EXPLANATORY MEMORANDUM FOR TRUCKS, TRACTORS & TRAILERS AND PRIVATE PASSENGER TYPES LIABILITY TERRITORY DEVELOPMENT

COLUMN (1)
EARNED CAR
YEARS

Number of car-years, or exposures, earned in the latest year. These exposures are used to calculate the weighted averages through the analysis. (For calculating the weighted average of the Experience Ratio in Col (4) and the Formula Experience Ratio in Col (6) the product of [Col(1) x Col(2)] are used as weights).

COLUMN (2)
\$100,000 LOSS
COST

Average \$100,000 loss cost at current level (earned aggregate loss cost at current level divided by exposures) is based on the latest accident year experience available and reflects the \$100,000 basic limit at the present ISO manual level.

COLUMN (3)
5 YEAR ENDED
EXPERIENCE
LOSS COST

Loss cost based on the latest 5 years of experience (for purposes of stability). The loss cost is Bodily Injury and Property Damage combined and is trended and developed to an ultimate settlement basis including all loss adjustment expenses.

COLUMN (4)
EXPERIENCE
RATIO LOSS
COST

For each coverage, an experience ratio by territory is derived by dividing the 5 year experience loss cost by the average \$100,000 loss cost at present ISO manual level. [Col. (3) / Col. (2)]

COLUMN (5)
CREDIBILITY

The experience ratio thus calculated is assigned a credibility value on the basis of the number of claims underlying the 5 year pure premium (See Section C for credibility standards). The complement of the credibility is assigned to the statewide experience ratio which appears in Col. (4).

COLUMN (6)
FORMULA
EXPERIENCE
RATIO

The formula experience ratio is a credibility weighted average of the territory group experience ratio and statewide experience ratio. The formula is as follows:

$$\begin{aligned} & [\text{Terr. Group Col. (4) x Terr. Group Col. (5)}] \\ & + [\text{SW Total Col.(4) x (1.0 - Terr. Group Col. (5))}] \end{aligned}$$

COLUMN (7)
INDEX TO
STATE

Territory indices to state are calculated by dividing the territory formula experience ratio by the statewide average formula experience ratio

[Terr. Col (6) / SW Total Col. (6)]

(Statewide Total Col. (6) is the weighted average formula experience ratio using the individual products of [Col. (1) x Col. (2)] as weights.)

COLUMN (8)
BASE CLASS
LOSS COST

Present ISO \$100,000 base class loss cost.

COLUMN (9)
INDICATED BASE
LOSS COST

Indicated base class loss cost for a particular territory. It is calculated by applying the product of the statewide loss cost level change and the territory index [Col. (7)] to the present ISO loss cost.

COLUMN (10)
REVISED BASE
LOSS COST

Revised \$100,000 base loss cost.

COLUMN (11)
ADVISORY
LOSS COST
CHANGE

Percentage change from the present \$100,000 base loss cost to the revised \$100,000 base loss cost.

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COMPREHENSIVE

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS AND TRAILERS+

T E R	(1) EARNED CAR YRS ENDED 03/31/2017	(2) UND LOSS COST	(3) EXPER LOSS COST 5YRS END 03/31/2017	(4) EXPER RATIO	(5) CRED	(6) FORM RATIO	(7) INDEX (6) TO STATE	(8) BASE CLASS PRES	(9) LOSS COST IND*	(10) REV	(11) ADV LOSS COST CHG**
102	2053	81.86	76.19	0.931	0.10	1.161	.971	125	139	139	11.2%
104	2170	59.80	76.32	1.276	0.10	1.196	1.000	94	107	107	13.8%
105	841	65.50	79.29	1.211	0.05	1.188	.993	110	125	125	13.6%
106	2674	71.83	76.72	1.068	0.10	1.175	.982	118	132	132	11.9%
108	1397	70.38	102.79	1.461	0.05	1.201	1.004	118	135	135	14.4%
109	915	80.29	90.60	1.128	0.05	1.184	.990	121	137	137	13.2%
110	100	40.14	127.56	3.178	0.00	1.187	.992	98	111	111	13.3%
112	2437	70.93	51.74	0.729	0.10	1.141	.954	103	112	112	8.7%
116	2365	95.84	162.34	1.694	0.10	1.238	1.035	148	175	175	18.2%
117	2750	61.35	29.52	0.481	0.05	1.152	.963	110	121	121	10.0%
125	1089	90.84	109.34	1.204	0.05	1.188	.993	156	177	177	13.5%
126	658	86.60	106.53	1.230	0.05	1.189	.994	128	145	145	13.3%
127	8411	68.32	72.03	1.054	0.20	1.160	.970	116	128	128	10.3%
128	4852	75.02	94.86	1.264	0.15	1.199	1.003	126	144	144	14.3%
129	11991	79.90	112.11	1.403	0.30	1.252	1.047	136	163	163	19.9%
131	45	57.83	0.57	0.010	0.00	1.187	.992	105	119	119	13.3%
132	361	66.35	18.30	0.276	0.00	1.187	.992	103	117	117	13.6%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COMPREHENSIVE

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS AND TRAILERS+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED		EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	9464	55.06	62.78	1.140	0.20	1.178	.985	88	99	99	12.5%
134	670	63.29	81.06	1.281	0.05	1.192	.997	104	118	118	13.5%
135	1132	75.55	106.25	1.406	0.05	1.198	1.002	113	129	129	14.2%
136	627	77.40	36.04	0.466	0.05	1.151	.962	114	125	125	9.6%
137	1208	63.54	82.72	1.302	0.05	1.193	.997	109	124	124	13.8%
138	1184	71.43	80.21	1.123	0.10	1.181	.987	113	127	127	12.4%
SW	59394	71.17	84.46	1.187		1.196					

+ REFER TO EXPLANATORY NOTE ON PAGE B-31

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 14.1 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COLLISION

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS AND TRAILERS+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T E R R	EARNED CAR YRS YR ENDED 03/31/2017	UND LOSS COST	EXPER LOSS 5YRS END 03/31/2017	EXPER RATIO	CRED	FORM RATIO	INDEX (6) TO STATE	BASE LOSS PRES	CLASS LOSS IND*	REV	ADV LOSS COST CHG**
102	2184	200.06	163.10	0.815	0.15	.987	.965	227	234	234	3.1%
104	2379	161.71	198.34	1.227	0.25	1.070	1.046	211	236	236	11.8%
105	940	152.48	123.95	0.813	0.10	.997	.975	183	191	191	4.4%
106	3035	150.84	187.71	1.244	0.20	1.062	1.038	198	220	220	11.1%
108	1609	161.16	159.22	0.988	0.15	1.013	.990	222	235	235	5.9%
109	1066	168.11	140.24	0.834	0.10	.999	.977	205	214	214	4.4%
110	103	124.54	114.37	0.918	0.00	1.017	.994	261	277	277	6.1%
112	2471	200.23	168.99	0.844	0.20	.982	.960	238	244	244	2.5%
116	2651	170.27	196.93	1.157	0.20	1.045	1.022	211	230	230	9.0%
117	3536	135.13	146.87	1.087	0.20	1.031	1.008	196	211	211	7.7%
125	1183	202.27	204.31	1.010	0.15	1.016	.993	262	278	278	6.1%
126	786	202.75	207.89	1.025	0.10	1.018	.995	225	239	239	6.2%
127	9774	168.45	170.59	1.013	0.40	1.015	.992	227	240	240	5.7%
128	5611	160.78	143.12	0.890	0.25	.985	.963	223	229	229	2.7%
129	12703	177.03	183.11	1.034	0.45	1.025	1.002	232	248	248	6.9%
131	69	137.94	463.13	3.357	0.05	1.134	1.109	243	288	288	18.5%
132	379	163.64	191.63	1.171	0.10	1.032	1.009	201	217	217	8.0%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COLLISION

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 TRUCKS, TRACTORS AND TRAILERS+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED		EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	9549	153.75	170.24	1.107	0.45	1.058	1.034	193	213	213	10.4%
134	697	209.67	146.61	0.699	0.10	.985	.963	232	238	238	2.6%
135	1110	143.20	176.07	1.230	0.15	1.049	1.025	168	184	184	9.5%
136	784	193.00	173.32	0.898	0.10	1.005	.982	221	232	232	5.0%
137	1165	162.51	113.28	0.697	0.10	.985	.963	211	217	217	2.8%
138	1203	142.96	122.44	0.856	0.10	1.001	.978	177	185	185	4.5%
SW	64987	166.98	169.80	1.017		1.023					

+ REFER TO EXPLANATORY NOTE ON PAGE B-31

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 6.8 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COMPREHENSIVE

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

T	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
E	EARNED	UND	EXPER				INDEX	BASE CLASS			ADV
R	CAR YRS	LOSS	LOSS COST	EXPER		FORM	(6) TO	LOSS COST			LOSS
R	YR ENDED	5YRS	5YRS END	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	COST
	03/31/2017	COST	03/31/2017								CHG**
102	440	138.04	90.28	0.654	0.05	1.064	.968	125	132	132	5.6%
104	505	101.12	161.98	1.602	0.10	1.138	1.035	90	101	101	12.2%
105	154	97.50	66.28	0.680	0.00	1.086	.988	90	97	97	7.8%
106	719	92.77	107.78	1.162	0.10	1.094	.995	92	100	100	8.7%
108	244	101.13	89.53	0.885	0.05	1.076	.979	100	107	107	7.0%
109	248	119.09	127.70	1.072	0.05	1.085	.987	111	119	119	7.2%
110	3	173.04	62.64	0.362	0.00	1.086	.988	97	104	104	7.2%
112	776	156.18	105.49	0.675	0.10	1.045	.951	142	147	147	3.5%
116	350	117.14	149.18	1.274	0.05	1.095	.996	101	109	109	7.9%
117	475	147.63	68.21	0.462	0.05	1.055	.960	138	144	144	4.3%
125	205	117.16	169.79	1.449	0.05	1.104	1.005	123	134	134	8.9%
126	105	98.79	82.74	0.838	0.00	1.086	.988	109	117	117	7.3%
127	1264	102.82	144.28	1.403	0.15	1.134	1.032	105	118	118	12.4%
128	597	127.87	121.21	0.948	0.10	1.072	.975	133	141	141	6.0%
129	1846	128.88	155.06	1.203	0.20	1.109	1.009	123	135	135	9.8%
131	28	109.47	.0	0.000	0.00	1.086	.988	109	117	117	7.3%
132	268	135.67	102.48	0.755	0.05	1.069	.973	108	114	114	5.6%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COMPREHENSIVE

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED		EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	2971	94.95	119.55	1.259	0.25	1.129	1.027	83	93	93	12.0%
134	114	110.91	97.34	0.878	0.00	1.086	.988	112	120	120	7.1%
135	218	104.38	80.95	0.776	0.05	1.071	.975	99	105	105	6.1%
136	126	129.96	94.08	0.724	0.05	1.068	.972	115	122	122	6.1%
137	161	97.21	89.24	0.918	0.05	1.078	.981	107	114	114	6.5%
138	251	111.34	173.63	1.559	0.05	1.110	1.010	101	111	111	9.9%
SW	12068	114.02	123.88	1.086		1.099					

+ REFER TO EXPLANATORY NOTE ON PAGE B-31

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 8.8 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COLLISION

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED		EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
102	479	303.41	289.32	0.954	0.15	1.048	.986	351	366	366	4.3%
104	549	220.59	300.52	1.362	0.15	1.110	1.044	255	282	282	10.6%
105	213	209.79	190.07	0.906	0.05	1.057	.994	241	254	254	5.4%
106	800	181.76	212.92	1.171	0.15	1.081	1.017	231	249	249	7.8%
108	266	232.71	297.28	1.277	0.10	1.086	1.022	295	319	319	8.1%
109	265	245.65	231.11	0.941	0.10	1.053	.991	296	311	311	5.1%
110	4	371.06	583.19	1.572	0.00	1.065	1.002	337	358	358	6.2%
112	872	321.47	311.35	0.969	0.25	1.041	.979	379	393	393	3.7%
116	388	249.19	319.00	1.280	0.15	1.097	1.032	283	309	309	9.2%
117	585	206.09	211.38	1.026	0.15	1.059	.996	258	272	272	5.4%
125	216	230.43	327.65	1.422	0.10	1.101	1.036	312	342	342	9.6%
126	117	190.14	140.29	0.738	0.05	1.049	.987	272	284	284	4.4%
127	1436	184.36	177.52	0.963	0.25	1.040	.978	241	250	250	3.7%
128	642	185.32	163.45	0.882	0.15	1.038	.976	247	255	255	3.2%
129	1988	189.04	185.29	0.980	0.30	1.040	.978	231	239	239	3.5%
131	24	214.12	429.08	2.004	0.00	1.065	1.002	278	295	295	6.1%
132	280	289.77	377.85	1.304	0.15	1.101	1.036	309	339	339	9.7%

INSURANCE SERVICES OFFICE

MISSOURI
 COMMERCIAL AUTOMOBILE INSURANCE
 PHYSICAL DAMAGE - COLLISION

DETERMINATION OF LOSS COST LEVEL CHANGES BY TERRITORY
 PRIVATE PASSENGER TYPES+

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
T	EARNED		EXPER								ADV
E	CAR YRS	UND	LOSS COST				INDEX	BASE CLASS			LOSS
R	YR ENDED	LOSS	5YRS END	EXPER		FORM	(6) TO	LOSS COST			COST
R	03/31/2017	COST	03/31/2017	RATIO	CRED	RATIO	STATE	PRES	IND*	REV	CHG**
133	3080	273.03	291.87	1.069	0.45	1.067	1.004	312	332	332	6.4%
134	115	249.42	338.67	1.358	0.10	1.094	1.029	319	348	348	9.1%
135	216	271.86	554.93	2.041	0.15	1.211	1.139	343	414	414	20.7%
136	165	263.50	202.11	0.767	0.05	1.050	.988	306	320	320	4.6%
137	187	179.05	93.70	0.523	0.05	1.038	.976	245	253	253	3.3%
138	295	176.57	133.17	0.754	0.10	1.034	.973	208	214	214	2.9%
SW	13182	231.96	246.95	1.065		1.063					

+ REFER TO EXPLANATORY NOTE ON PAGE B-31

* KEYED TO A STATEWIDE LOSS COST CHANGE OF 5.9 PERCENT

** PERCENTAGE CHANGE IN LOSS COST IS (COL 10/COL 8)

EXPLANATORY MEMORANDUM FOR TRUCKS, TRACTORS & TRAILERS AND
PRIVATE PASSENGER TYPES
PHYSICAL DAMAGE TERRITORY DEVELOPMENT

COLUMN (1)
EARNED CAR
YEARS

Number of car-years, or exposures, earned in the latest year. These exposures are used to calculate the weighted averages through the analysis. (For calculating the weighted average of the Experience Ratio in Col (4) and the Formula Experience Ratio in Col (6) the product of [Col(1) x Col(2)] are used as weights).

COLUMN (2)
UNDERLYING
LOSS COST

Average loss cost at current level (earned aggregate loss cost at current level divided by exposures) is based on the latest accident year experience available and reflects the present ISO manual loss cost trended to a prospective OCN level by the application of OCN factors.

COLUMN (3)
5 YEAR ENDED
EXPERIENCE
LOSS COST

Loss cost based on the latest 5 years of experience (for purposes of stability). The loss cost is trended and include all loss adjustment expenses.

COLUMN (4)
EXPERIENCE
RATIO LOSS
COST

For each coverage, an experience ratio by territory is derived by dividing the 5 year experience loss cost by the average loss cost at present ISO manual level. [Col. (3) / Col. (2)]

COLUMN (5)
CREDIBILITY

The experience ratio thus calculated is assigned a credibility value on the basis of the number of claims underlying the 5 year pure premium (See Section C for credibility standards). The complement of the credibility is assigned to the statewide experience ratio which appears in Col. (4).

COLUMN (6)
FORMULA
EXPERIENCE
RATIO

The formula experience ratio is a credibility weighted average of the territory group experience ratio and statewide experience ratio. The formula is as follows:

$$\begin{aligned} & [\text{Terr. Group Col. (4) x Terr. Group Col. (5)}] \\ & + [\text{SW Total Col.(4) x (1.0 - Terr. Group Col. (5))}] \end{aligned}$$

COLUMN (7)
INDEX TO
STATE

Territory indices to state are calculated by dividing the territory formula experience ratio by the statewide average formula experience ratio

$$[\text{Terr. Col (6)} / \text{SW Total Col. (6)}]$$

(Statewide Total Col. (6) is the weighted average formula experience ratio using the individual products of [Col. (1) x Col. (2)] as weights.)

COLUMN (8)
BASE CLASS
LOSS COST

Present ISO base class loss cost.

COLUMN (9)
INDICATED BASE
LOSS COST

Indicated base class loss cost for a particular territory. It is calculated by applying the product of the statewide loss cost level change and the territory index [Col. (7)] to the present ISO loss cost.

COLUMN (10)
REVISED BASE
LOSS COST

Revised base loss cost.

COLUMN (11)
ADVISORY
LOSS COST
CHANGE

Percentage change:
[Col. (10) / Col. (8)]

MISSOURI
COMMERCIAL AUTOMOBILE

SECTION C - SUPPORTING MATERIAL

Loss Adjustment Expense	C2-C4
Loss Trend	C5-C28
Physical Damage OCN Trend	C29-C31
Loss Development for Liability	C32-C43
Loss Development for Physical Damage.....	C44-C52
Credibility Procedures and Tables.....	C53-C58
Claims for Credibility.....	C59-C60
Relativities for Developing Minor Class & Coverage Loss Costs	C61
Excess Wind and Water Procedure	C62-C67

LOSS ADJUSTMENT EXPENSE FACTORS

OBJECTIVE

The reported indemnity losses must be loaded for any loss adjustment expenses (LAE) that are not reported in statistical detail to ISO.

LIABILITY COVERAGES

For the liability coverages, allocated loss adjustment expenses are reported in detail to ISO under the Commercial Statistical Plan. Unallocated loss adjustment expenses must be loaded into the losses. A factor representing the ratio of the sum of the incurred indemnity losses plus all LAE to the sum of the incurred indemnity losses plus allocated LAE was selected based on multistate financial data from a Special Call Submission for available writers.

PHYSICAL DAMAGE COVERAGES

For the physical damage coverages, accident year paid indemnity losses are reported. All loss adjustment expenses must be loaded into the reported losses. A factor representing the ratio of incurred losses plus all LAE to incurred losses was selected based on multistate financial data from the Insurance Expense Exhibits for agency and direct writers.

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE
MULTISTATE LOSS ADJUSTMENT EXPENSE EXPERIENCE

Calendar Year

Development of Unallocated Loss Adjustment Expense Factor

Bodily Injury
(000's)

<u>ITEM</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>3 YR AVG</u>	<u>5 YR AVG</u>
(1) Direct Losses Incurred	4,059,001	4,205,932	4,811,095	5,400,783	5,769,671		
(2) Allocated Loss Adjustment Expenses Incurred	458,941	481,717	517,613	610,635	670,289		
(3) Unallocated Loss Adjustment Expenses Incurred	383,262	432,507	471,784	479,398	479,146		
(4) Unallocated LAE as a Ratio to Losses + Allocated LAE (3) / [(1) + (2)]	8.5%	9.2%	8.9%	8.0%	7.4%	8.1%	8.4%
(5) Selected Factor							8.0%

Property Damage
(000's)

<u>ITEM</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>3 YR AVG</u>	<u>5 YR AVG</u>
(1) Direct Losses Incurred	855,668	964,805	1,033,470	1,128,053	1,203,935		
(2) Allocated Loss Adjustment Expenses Incurred	57,874	70,950	69,317	85,116	71,849		
(3) Unallocated Loss Adjustment Expenses Incurred	108,187	112,861	128,692	129,040	123,937		
(4) Unallocated LAE as a Ratio to Losses + Allocated LAE (3) / [(1) + (2)]	11.8%	10.9%	11.7%	10.6%	9.7%	10.7%	11.0%
(5) Selected Factor							10.5%

All items are from Special Call Submission for available writers.

COMMERCIAL AUTOMOBILE PHYSICAL DAMAGE INSURANCE
MULTISTATE LOSS ADJUSTMENT EXPENSE EXPERIENCE

Calendar Year

Development of Factor to Include all Loss Adjustment Expenses

(000's)

<u>ITEM</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>3 YR AVG</u>	<u>5 YR AVG</u>
(1) Direct Losses Incurred	3,776,678	3,729,471	4,160,445	4,385,421	4,973,189		
(2) Loss Adjustment Expenses Incurred	551,510	589,857	664,010	585,458	628,271		
(3) Losses + LAE Incurred as Ratio to Losses Incurred [(1)+(2)]/(1)	1.146	1.158	1.160	1.134	1.126	1.140	1.145
(4) Selected							1.140

Items (1) and (2) are from the Insurance Expense Exhibits for agency and direct writers.

AVERAGE ANNUAL CHANGE IN LOSSES (LOSS TREND)

OBJECTIVE The application of the average annual change in losses to historical data recognizes that advisory loss costs are being made for use in a future period based on historical experience. Due to economic and social factors, claim cost and frequency levels continue to change from those underlying the historical data.

DETERMINATION OF HISTORICAL AVERAGE CLAIM COST TREND To determine the historical average claim cost trend, ISO makes use of the Least Squares Method fitted to the reported time series data; specifically, an exponential curve represented by the equation $Y=A(B^X)$ is fitted to the paid claim cost data. The parameters A and B are calculated by regressing Y, which is the applicable claim cost on X, which is the unit of time. The resulting fitted curve allows the determination of a historical average trend for the data under review.

LIABILITY LOSS TREND The historical average annual change in claim costs for both Bodily Injury and Property Damage coverages are measured in this document using a credibility-weighted mix of multistate and statewide data. Prospective average annual changes for claim frequency have been selected based on the historical multistate data, as well as other relevant factors. Combining the state credibility-weighted claim cost trends with the selected claim frequency trends results in the selected Bodily Injury and Property Damage pure premium trend used to adjust the losses to a prospective level.

TREND CREDIBILITY FOR LIABILITY CLAIM SEVERITY Trend credibility is based on a full credibility standard of 975,000 claims for BI and 390,000 claims for PD. These standards were developed using a Bayesian analysis. Partial credibility is determined by the following formula:

$$A = C/(C+K)$$

where C equals the number of claims for the latest year ended point and K equals 25,000 for bodily injury and 10,000 for property damage. The resulting table of partial credibilities is shown in this section.

LIABILITY:
FREQUENCY
TREND

The data underlying the claim frequency trend selections is shown on the attached claim frequency exhibits. The exhibits include quarterly points for Multistate incurred frequency trend separately for Trucks, Tractors, and Trailers and Private Passenger Types. As can be seen from these exhibits (and corresponding graphs), frequency for both bodily injury and property damage has generally changed from year to year in an unpredictable manner.

Commercial Auto classes had experienced an abnormally long period of negative frequency trends prior to 2010. For the most recent 6 years, however, the frequency trends have been slightly increasing (TTT BI) or somewhat cyclical and/or flat (TTT PD and PPT BI and PD) over the experience period. An exponential curve of the form $Y=A(B^X)$ does not fit the data well. To reflect these recent patterns and the difficulty in predicting turning points and rates of change, frequency trend is being selected to be 0% for TTT and PPT for both the Bodily Injury and Property Damage coverages.

PHYSICAL
DAMAGE:
LOSS TREND

Data Selections

- In our Physical Damage Trend review, we try to include as much data as possible for each deductible level that we analyze. With this goal in mind, for a given deductible level, we include all losses written at or below that deductible level. For example, consider an event causing \$1,500 of damage on a policy written with a \$250 deductible. This would be reported as a \$1,250 loss. In order to include as much data as possible in our review, we would generate 3 different records for this loss, one at each deductible that we analyze:

At \$250 deductible: \$1,250 loss

At \$500 deductible: \$1,000 loss

At \$1,000 deductible: \$500 loss

Each of these deductible levels is analyzed independently of the other levels, so that there are no instances of double-counting loss records.

- Wind and Water losses are removed from our Other Than Collision trend reviews due to the high variability of these types of losses from year to year.

Data Adjustments

In our Physical Damage trend review, we employ two adjustments to the data with the objective of diminishing distortions in the trend that we do not wish to measure. Our goal is to only measure inflationary effects.

1) All losses are divided by the appropriate class plan and age factors that correspond to that record in order to diminish the effect that variations in these factors from one year to the next have on the trend calculation.

PHYSICAL
DAMAGE:
LOSS TREND
(CONT'D)

For example, consider 12 Truck exposures reported with Age Code 1 (current model year, age factor of 1.00). Each exposure experiences a loss of \$500. The average severity of the losses for these 12 exposures is \$500.

Now consider these 12 exposures 5 years in the future. The exposures are now reported with Age Code A (6th preceding model year, age factor of 0.80). Assume that there is 10% inflation per year on all severities. Also assume that each of these 12 exposures experience the same amount of damage as they did 5 years ago. The average severity of the losses for these 12 exposures is now \$644 (taking into account both inflation and the older age of the vehicles).

If we analyze the severity trend without dividing each loss by its corresponding age factor, we get an annual trend of $(\$644/\$500)^{1/5} - 1 = 5.2\%$

If we first divide each loss by its corresponding age factor, we get an annual trend of $((\$644/0.80) / (\$500/1.00))^{1/5} - 1 = 10.0\%$

The first calculated severity is not equal to the assumed inflation because the calculation includes the decrease in average severity caused by aging of the vehicles. By dividing each loss record by its corresponding class plan and age factors, we remove distortions on the severity trend caused by the change in the distribution of classes and ages from one year to the next.

2) All Other Than Collision losses are adjusted to correct for the distortion on trend results created by a change in the distribution of types of loss from one year to the next. The Other Than Collision severity is a weighted-average of the severities for each type of loss (glass, fire, theft, etc.). Since each type of loss has a different severity (for example, glass losses have a much smaller severity than other types of loss), then variations in the distribution of types of loss may lead to changes in the severity that we do not want to measure (if one year 5% of losses are glass losses, and the next year 30% of losses are glass losses, we would expect the average severity of all Other Than Collision losses to decrease). To correct this, we calculate the proportion of losses for each type of loss averaged over all years in the experience period.

Consider the following example, where an adjustment is NOT made to the data. Assume 10% annual inflation for all losses:

Type of Loss	Year 1		Year 2	
	Glass	Fire	Glass	Fire
Claims	10	3	15	5
Severity of Each Loss	\$50	\$1,000	\$55	\$1,100
Total Losses	\$500	\$3,000	\$825	\$5,500

Average severity of losses in Year 1 is $(\$500 + \$3,000) / 13 \text{ claims} = \269

Average severity of losses in Year 2 is $(\$825 + \$5,500) / 20 \text{ claims} = \316.25

Average Severity trend = $(\$316.25/\$269) - 1 = 17.6\%$

PHYSICAL
DAMAGE:
LOSS TREND
(CONT'D)

Now consider the same scenario, where an adjustment IS made to the data:

	Year 1		Year 2	
	Glass	Fire	Glass	Fire
Type of Loss				
Claims	10	3	15	5
Percentage of Total Claims	10/13 = 77%	3/13 = 23%	15/20 = 75%	5/20 = 25%

Average Percentage of Claims for Glass losses: $(77\% + 75\%) / 2 = 76\%$

Average Percentage of Claims for Fire losses: $(23\% + 25\%) / 2 = 24\%$

The number of claims for each type of loss for each year is replaced by these averages:

	Year 1		Year 2	
	Glass	Fire	Glass	Fire
Type of Loss				
Claims	76% x 13 = 9.88	24% x 13 = 3.12	76% x 20 = 15.2	24% x 20 = 4.8
Severity of Each Loss	\$50	\$1,000	\$55	\$1,100
Total Losses	\$494	\$3,120	\$836	\$5,280

Average severity of losses in Year 1 is $(\$494 + \$3,120) / 13 \text{ claims} = \278

Average severity of losses in Year 2 is $(\$836 + \$5,280) / 20 \text{ claims} = \305.80

Average Severity trend = $(\$305.80 / \$278) - 1 = 10.0\%$

Note that the total number of claims each year remains unchanged from the total before the adjustment is made.

Year 1 claims = $9.88 + 3.12 = 13 \text{ claims}$

Year 2 claims = $15.2 + 4.8 = 20 \text{ claims}$

Although new claims totals by type of loss are used in the calculation, the impact of the adjustment is to change only the loss totals, so frequency figures are not changed. The result is equivalent to a re-weighting of the severities so that each type of loss has a consistent weight from year to year.

By keeping each type of loss' proportion of total claims constant from year to year, we remove distortions in the trend caused by changes in the distribution of types of loss.

PHYSICAL
DAMAGE:
LOSS TREND
(CONT'D)

The trend selections for physical damage are based on the data in the attached exhibits. Each exhibit includes the distribution of losses, by deductible, for the most recent year. We analyze frequency trend and severity trend separately, using data at the \$250, \$500, and \$1,000 deductibles for OTC, and at the \$500, \$1,000, and \$2,000 deductibles for Collision.

Historically, claim frequency (like liability claim frequency) had been variable from year to year, often cyclical. As a result, an exponential curve of the form $Y=A(B^x)$ did not fit the frequency data well. In the interest of long-term stability, we have selected 0.0% trend factors for frequency.

Based on this multistate experience and on the continued positive trends in the Consumer Price Index for Bodywork, ISO has selected the following annual trends:

	Trucks, Tractors & Trailers <u>Pure Premium</u>	Private Passenger Types <u>Pure Premium</u>
OTC:	+6.5%	+5.0%
COLL:	+5.5%	+5.0%

INSURANCE SERVICES OFFICE

COMMERCIAL AUTO LIABILITY
 DETERMINATION OF FACTORS TO ADJUST ACCIDENT YEAR
 LOSS RATIOS FOR SUBSEQUENT CHANGES

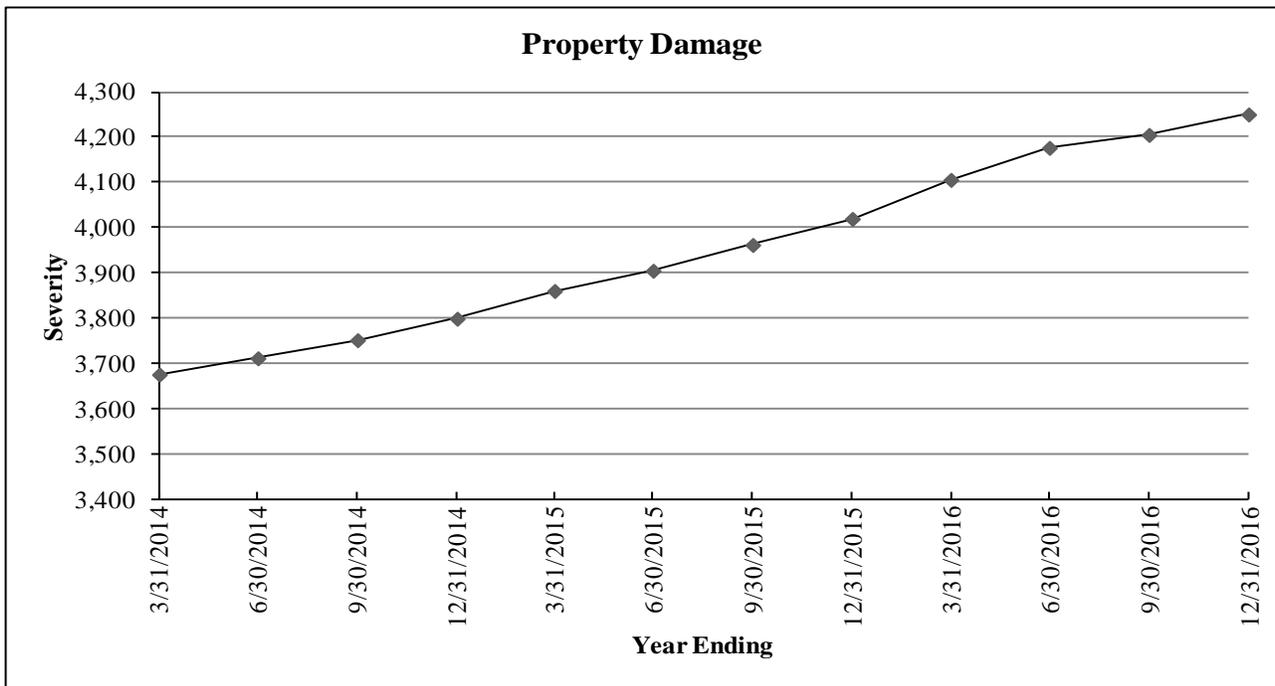
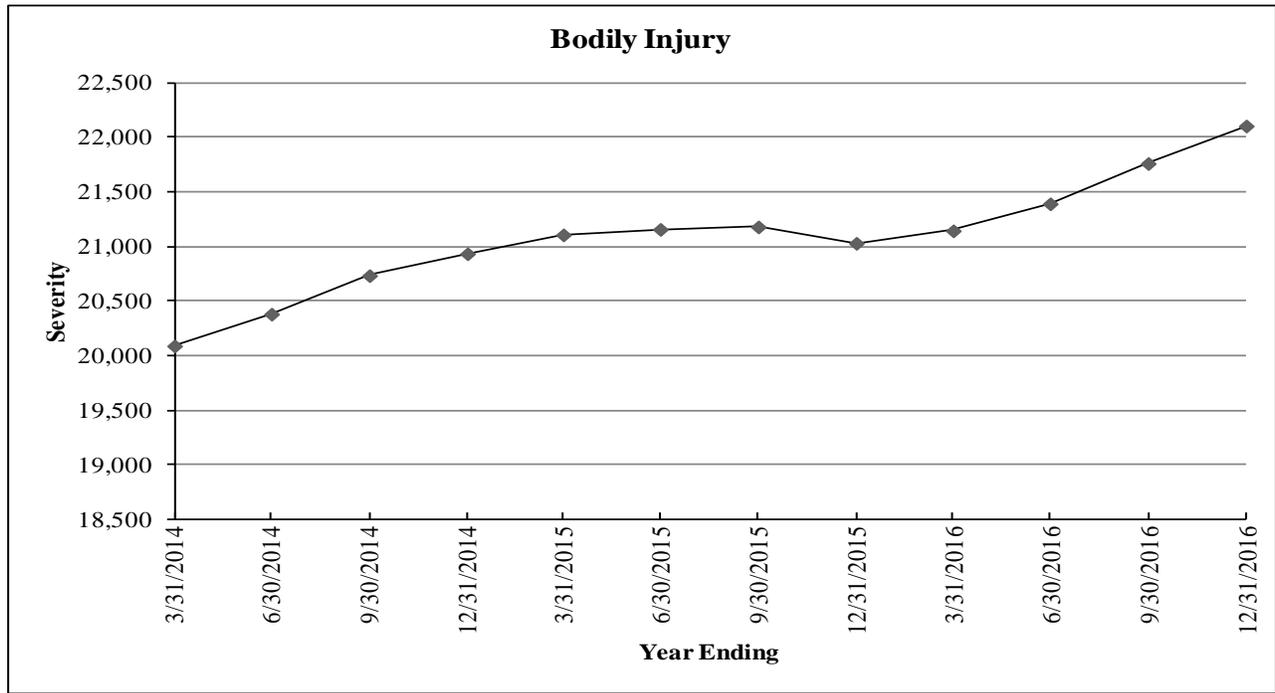
AVERAGE PAID CLAIM COST DATA

YEAR ENDED	MISSOURI				MULTISTATE*			
	BODILY INJURY (\$100000 LIMITS)		PROPERTY DAMAGE (\$100000 LIMITS)		BODILY INJURY (\$100000 LIMITS)		PROPERTY DAMAGE (\$100000 LIMITS)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	EXPONEN- ACTUAL	TIAL FIT	EXPONEN- ACTUAL	TIAL FIT	EXPONEN- ACTUAL	TIAL FIT	EXPONEN- ACTUAL	TIAL FIT
3/31/2014	17482.77	19081.07	3523.32	3383.66	20088.87	20321.23	3676.14	3655.72
6/30/2014	18880.11	19047.26	3542.79	3454.54	20380.29	20456.67	3712.11	3707.17
9/30/2014	19472.45	19013.50	3436.30	3526.92	20732.93	20593.01	3752.08	3759.33
12/31/2014	20179.72	18979.81	3486.28	3600.80	20933.35	20730.27	3799.50	3812.23
3/31/2015	20076.40	18946.18	3619.25	3676.24	21106.46	20868.43	3860.83	3865.87
6/30/2015	19949.69	18912.60	3722.10	3753.26	21156.78	21007.52	3905.50	3920.27
9/30/2015	18250.68	18879.09	3845.52	3831.89	21179.18	21147.53	3962.46	3975.44
12/31/2015	18439.57	18845.63	3874.30	3912.16	21029.30	21288.48	4020.15	4031.38
3/31/2016	18140.74	18812.24	3943.82	3994.12	21143.66	21430.37	4106.33	4088.10
6/30/2016	18506.90	18778.90	4098.16	4077.80	21391.10	21573.20	4177.05	4145.63
9/30/2016	19010.91	18745.62	4180.97	4163.23	21760.24	21716.98	4205.66	4203.97
12/31/2016	18569.49	18712.41	4363.50	4250.45	22103.74	21861.73	4250.83	4263.12

	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>
(9) AVERAGE ANNUAL PERCENT CHANGE IN PAID CLAIM COST (12TH POINT / 8TH POINT)		
(A) MISSOURI	-0.7%	8.6%
(B) MULTISTATE	2.7%	5.7%
(10) CREDIBILITY	0.05	0.25
(11) WEIGHTED AVERAGE ANNUAL PERCENT CHANGE IN PAID CLAIM COSTS {(10) * (9A)} + {(1.0 - (10)) * (9B)}	2.5%	6.4%
(12) AVERAGE ANNUAL PERCENT CHANGE IN CLAIM FREQUENCY		
(A) TRUCKS, TRACTORS, TRAILERS	0.0%	0.0%
(B) PRIVATE PASSENGER TYPES	0.0%	0.0%
(13) AVERAGE ANNUAL PERCENT CHANGE IN LIABILITY LOSS RATIO		
(A) TRUCKS, TRACTORS, TRAILERS {1.0 + (11)} * {1.0 + (12A)}	2.5%	6.4%
(B) PRIVATE PASSENGER TYPES {1.0 + (11)} * {1.0 + (12B)}	2.5%	6.4%

* EXCLUDES MASSACHUSETTS

Commercial Automobile Liability
Average Paid Claim Cost Experience
Multistate*



* Excludes Massachusetts

INSURANCE SERVICES OFFICE, INC.

COMMERCIAL AUTO LIABILITY
INCURRED CLAIM FREQUENCY

MULTISTATE*

TRUCKS, TRACTORS, AND TRAILERS

<u>YEAR ENDING</u>	<u>BODILY INJURY ACTUAL</u>	<u>BODILY INJURY ACTUAL CHANGE@</u>	<u>PROPERTY DAMAGE ACTUAL</u>	<u>PROPERTY DAMAGE ACTUAL CHANGE@</u>
12/31/2010	0.7818		2.8895	
3/31/2011	0.7920		2.9395	
6/30/2011	0.7918		2.9392	
9/30/2011	0.7939		2.9462	
12/31/2011	0.7924	1.4% &	2.9345	1.6% &
3/31/2012	0.7919		2.8289	
6/30/2012	0.7932		2.8175	
9/30/2012	0.7840	-1.2%	2.7782	-5.7%
12/31/2012	0.7932		2.7713	
3/31/2013	0.7969		2.8072	
6/30/2013	0.8161		2.8516	
9/30/2013	0.8354	6.6%	2.8976	4.3%
12/31/2013	0.8340		2.9127	
3/31/2014	0.8414		3.0039	
6/30/2014	0.8209		2.9990	
9/30/2014	0.8094	-3.1%	3.0018	3.6%
12/31/2014	0.8143		3.0024	
3/31/2015	0.8048		2.9674	
6/30/2015	0.8135		2.9657	
9/30/2015	0.8210	1.4%	2.9812	-0.7%
12/31/2015	0.8266		2.9951	
3/31/2016	0.8346		2.9640	
6/30/2016	0.8408		2.9661	
9/30/2016	0.8494	3.5%	2.9583	-0.8%

* EXCLUDES MASSACHUSETTS

@ CHANGE BASED ON YEARS ENDING 9/30/XXXX

& CHANGE BASED ON YEAR ENDING 12/31/2011 DIVIDED BY 12/31/2010

INSURANCE SERVICES OFFICE, INC.

COMMERCIAL AUTO LIABILITY
INCURRED CLAIM FREQUENCY

MULTISTATE*

PRIVATE PASSENGER TYPES

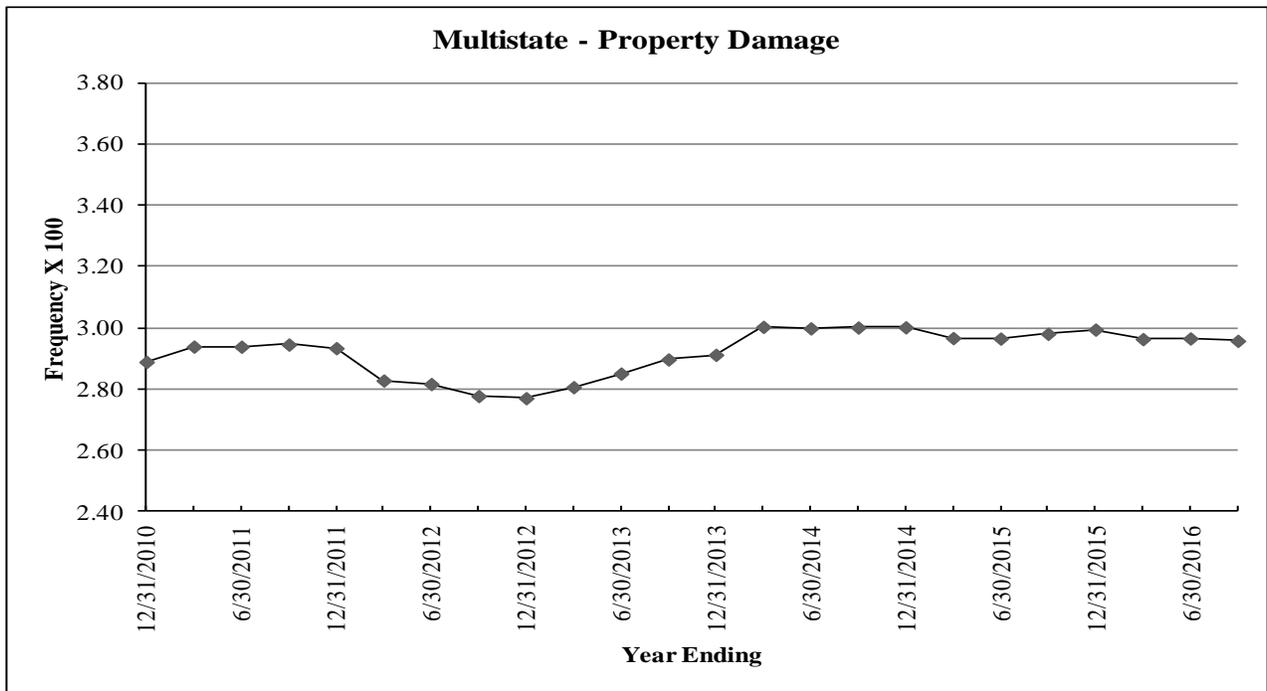
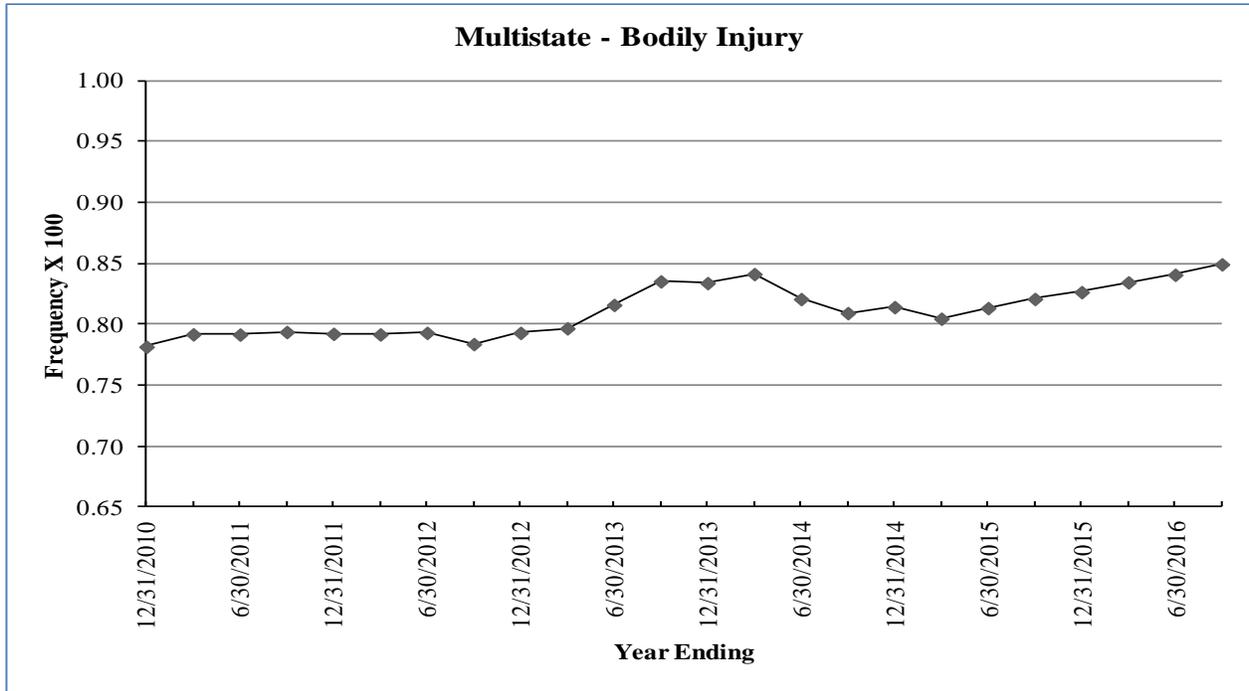
<u>YEAR ENDING</u>	<u>BODILY INJURY ACTUAL</u>	<u>BODILY INJURY ACTUAL CHANGE@</u>	<u>PROPERTY DAMAGE ACTUAL</u>	<u>PROPERTY DAMAGE ACTUAL CHANGE@</u>
12/31/2010	0.8786		3.3406	
3/31/2011	0.8891		3.3765	
6/30/2011	0.9204		3.3849	
9/30/2011	0.9378		3.3833	
12/31/2011	0.9370	6.6% &	3.3425	0.1% &
3/31/2012	0.9616		3.3280	
6/30/2012	0.9470		3.3350	
9/30/2012	0.9331	-0.5%	3.3194	-1.9%
12/31/2012	0.9198		3.2786	
3/31/2013	0.9128		3.2543	
6/30/2013	0.9189		3.2182	
9/30/2013	0.9319	-0.1%	3.2230	-2.9%
12/31/2013	0.9330		3.2488	
3/31/2014	0.9285		3.2876	
6/30/2014	0.9199		3.2862	
9/30/2014	0.9056	-2.8%	3.2590	1.1%
12/31/2014	0.8951		3.2283	
3/31/2015	0.8635		3.1815	
6/30/2015	0.8454		3.1421	
9/30/2015	0.8327	-8.0%	3.1557	-3.2%
12/31/2015	0.8201		3.1602	
3/31/2016	0.8343		3.1661	
6/30/2016	0.8418		3.1990	
9/30/2016	0.8631	3.7%	3.1959	1.3%

* EXCLUDES MASSACHUSETTS

@ CHANGE BASED ON YEARS ENDING 9/30/XXXX

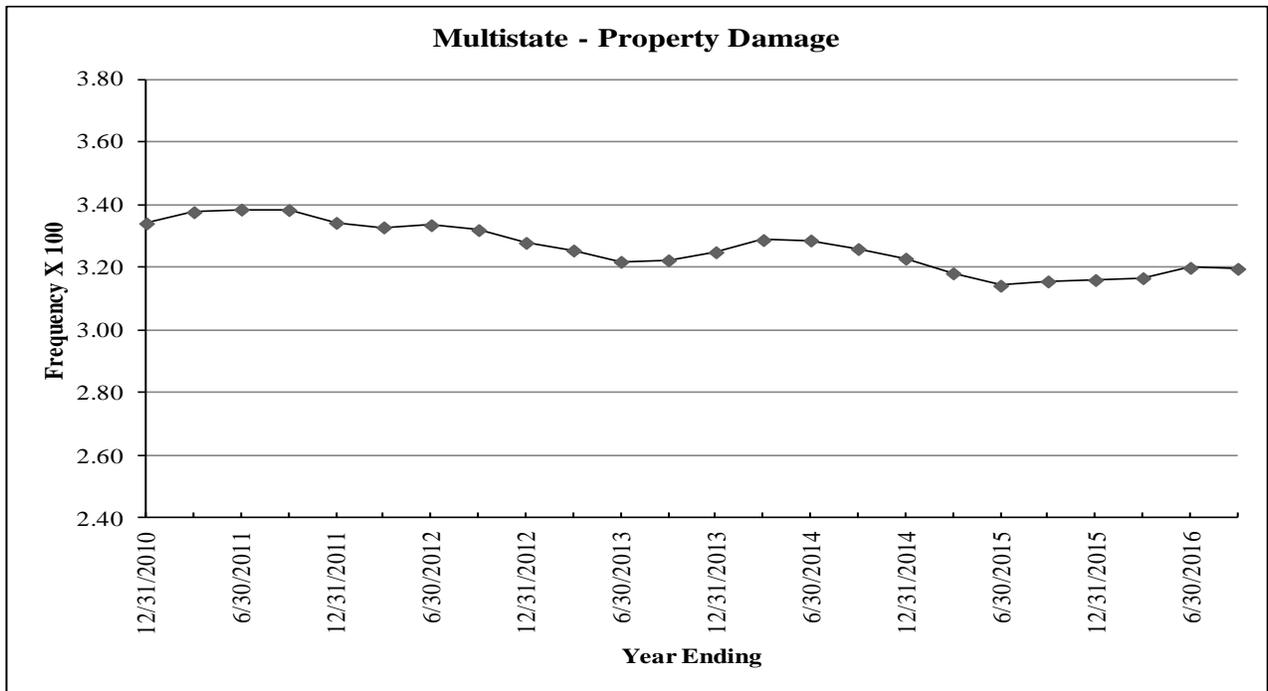
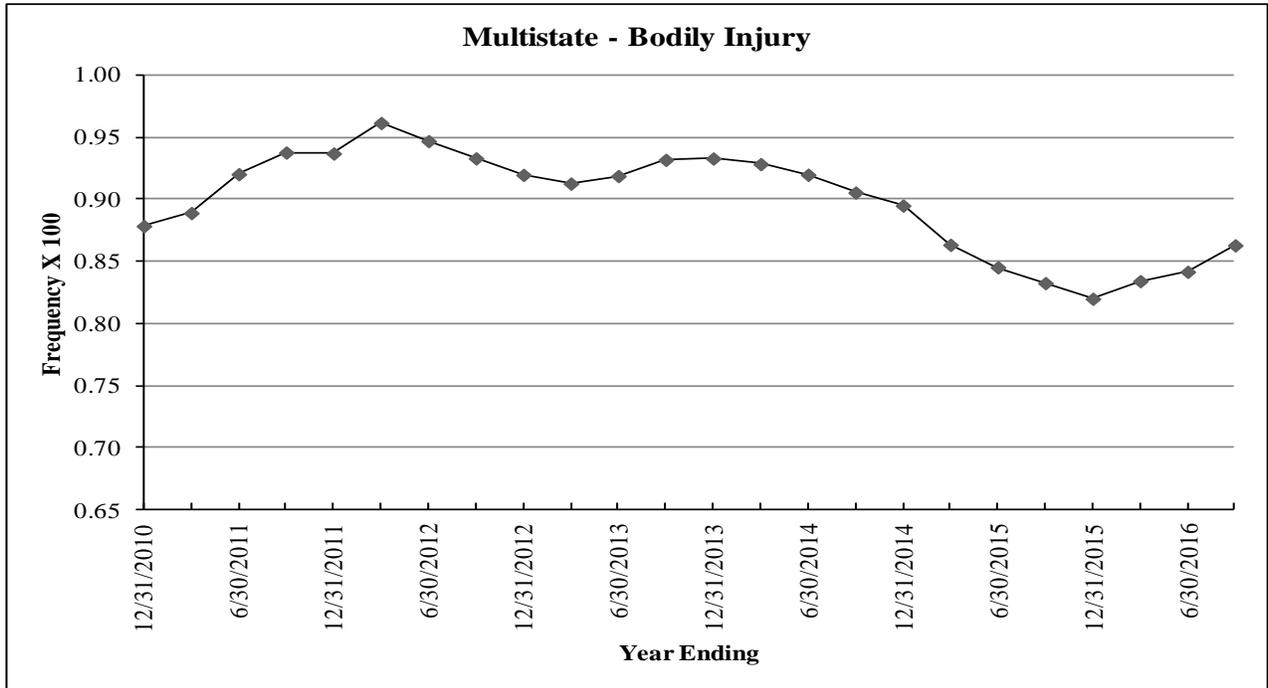
& CHANGE BASED ON YEAR ENDING 12/31/2011 DIVIDED BY 12/31/2010

Commercial Automobile Liability
 Incurred Claim Frequency Experience
 Trucks, Tractors, and Trailers
 Multistate*



* Excludes Massachusetts

Commercial Automobile Liability
 Incurred Claim Frequency Experience
 Private Passenger Types
 Multistate*



* Excludes Massachusetts

Multistate*
Trucks, Tractors & Trailers Physical Damage
Other Than Collision

Frequency (expressed as claims per 100 exposures)

Year Ending:	\$250 Deductible		\$500 Deductible		\$1,000 Deductible	
	Actual	Change **	Actual	Change **	Actual	Change **
06/30/2012	2.53		1.37		0.83	
12/31/2012	2.38		1.31		0.80	
06/30/2013	2.33		1.30		0.79	
12/31/2013	2.27	-4.6%	1.28	-2.3%	0.77	-3.8%
06/30/2014	2.35		1.29		0.78	
12/31/2014	2.31	1.8%	1.25	-2.3%	0.76	-1.3%
06/30/2015	2.20		1.24		0.75	
12/31/2015	2.11	-8.7%	1.24	-0.8%	0.76	0.0%
06/30/2016	2.03		1.24		0.79	
12/31/2016	2.02	-4.3%	1.24	0.0%	0.79	3.9%

Volume*** of losses for the most recent year by deductible:

Deductible	Percent of Losses
Full	0.2%
\$50	0.6%
\$100	2.3%
\$200	0.2%
\$250	11.0%
\$500	33.5%
\$1,000	43.9%
\$2,000	3.8%
\$3,000	1.5%
\$5,000	1.8%

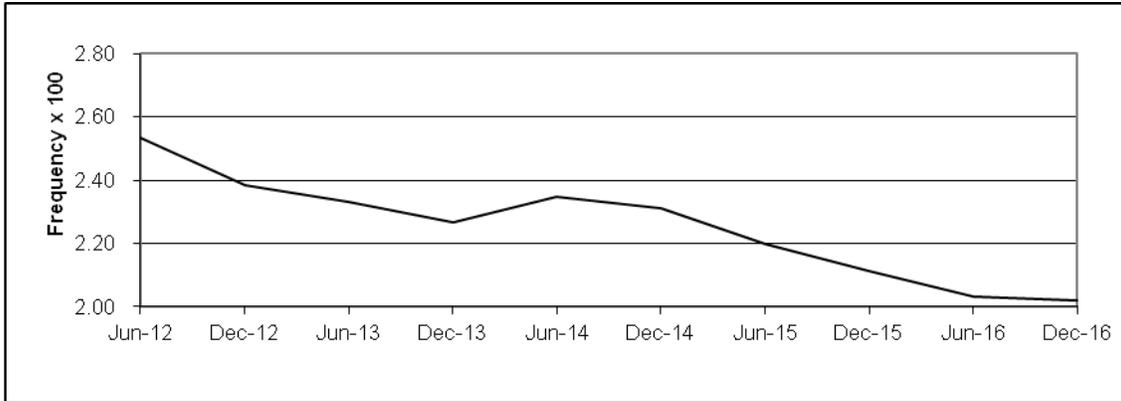
* Multistate data excludes Massachusetts

** Change based on years ending 12/31/xxxx

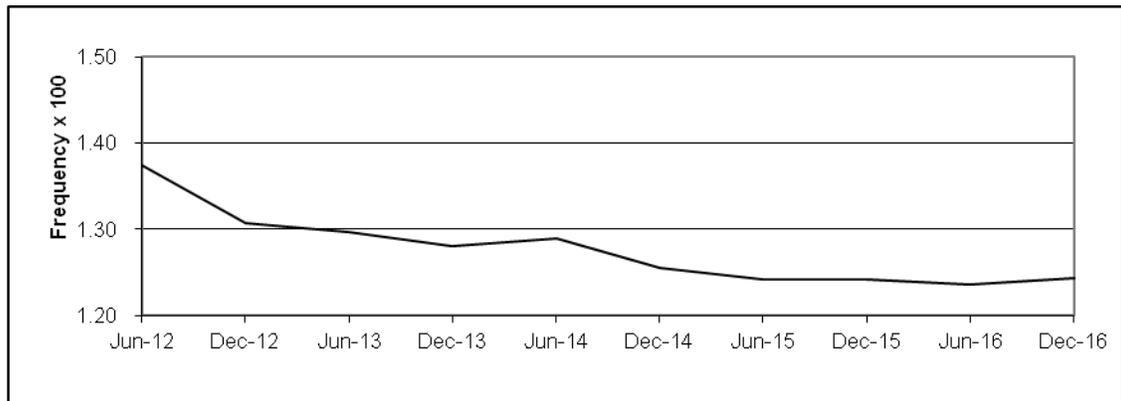
***Deductibles above \$1,000, totaling 7.1% of losses, are excluded from the trend calculations.

Multistate*
Trucks, Tractors & Trailers Physical Damage
Other Than Collision Frequency Trend

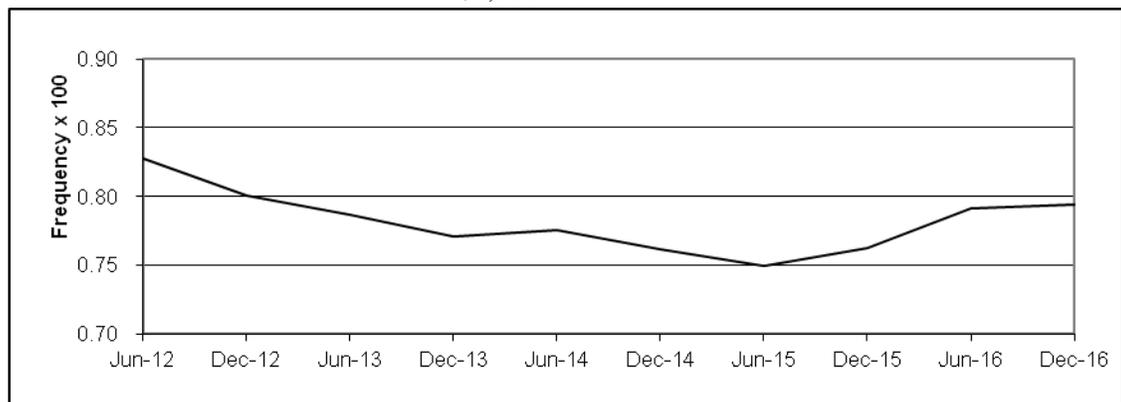
\$250 Deductible



\$500 Deductible



\$1,000 Deductible



* Multistate data excludes Massachusetts
Selected Other Than Collision Frequency Trend Factor: 0.0%

Multistate*
Trucks, Tractors & Trailers Physical Damage
Other Than Collision Loss Trend

Severity Trend

Year Ending:	\$250 Deductible	\$500 Deductible	\$1,000 Deductible
06/30/2012	2,692.43	4,765.56	7,591.23
12/31/2012	2,939.79	5,142.89	8,216.06
06/30/2013	2,996.17	5,296.30	8,348.47
12/31/2013	3,020.21	5,246.79	8,349.31
06/30/2014	3,085.14	5,464.68	8,658.09
12/31/2014	3,269.75	5,705.86	8,833.61
06/30/2015	3,421.26	5,903.18	9,103.20
12/31/2015	3,518.83	6,188.31	9,518.01
06/30/2016	4,149.10	6,561.49	9,862.84
12/31/2016	4,280.12	6,724.77	10,316.65

Average Annual Change Using Exponential Fits:

10 point fit:	9.9%	7.5%	6.2%
8 point fit:	11.4%	7.9%	6.5%
6 point fit:	14.6%	9.0%	7.4%

Selected severity trend:	6.5%
Selected frequency trend:	0.0%
Selected pure premium trend:	6.5%

* Multistate data excludes Massachusetts

Multistate*
Trucks, Tractors & Trailers Physical Damage
Collision

Frequency (expressed as claims per 100 exposures)

Year Ending:	\$500 Deductible		\$1,000 Deductible		\$2,000 Deductible	
	Actual	Change **	Actual	Change **	Actual	Change **
06/30/2012	2.18		1.84		1.45	
12/31/2012	2.17		1.83		1.44	
06/30/2013	2.22		1.88		1.49	
12/31/2013	2.22	2.3%	1.89	3.3%	1.51	4.9%
06/30/2014	2.29		1.95		1.56	
12/31/2014	2.27	2.3%	1.95	3.2%	1.57	4.0%
06/30/2015	2.24		1.94		1.57	
12/31/2015	2.26	-0.4%	1.96	0.5%	1.60	1.9%
06/30/2016	2.25		1.96		1.61	
12/31/2016	2.31	2.2%	2.01	2.6%	1.65	3.1%

Volume*** of losses for the most recent year by deductible:

Deductible	Percent of Losses
\$100	0.1%
\$200	0.0%
\$250	2.0%
\$500	37.1%
\$1,000	51.2%
\$2,000	5.0%
\$3,000	1.2%
\$5,000	3.2%

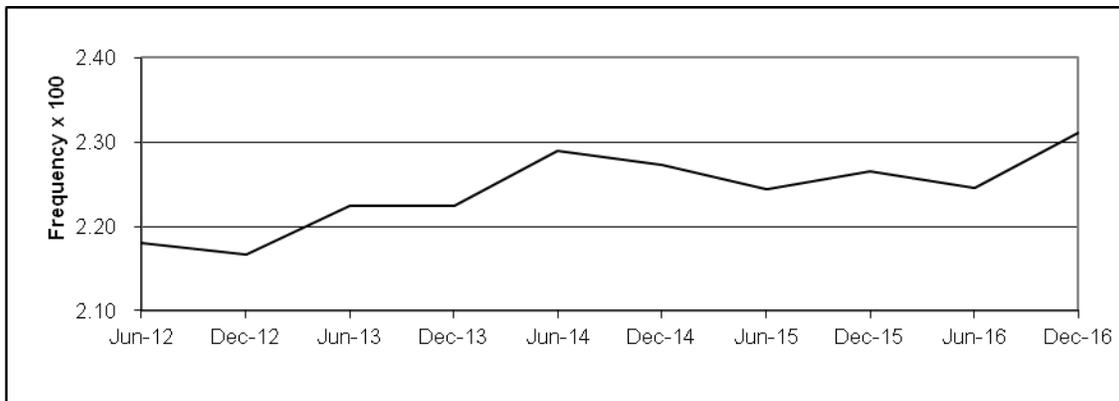
* Multistate data excludes Massachusetts

** Change based on years ending 12/31/xxxx

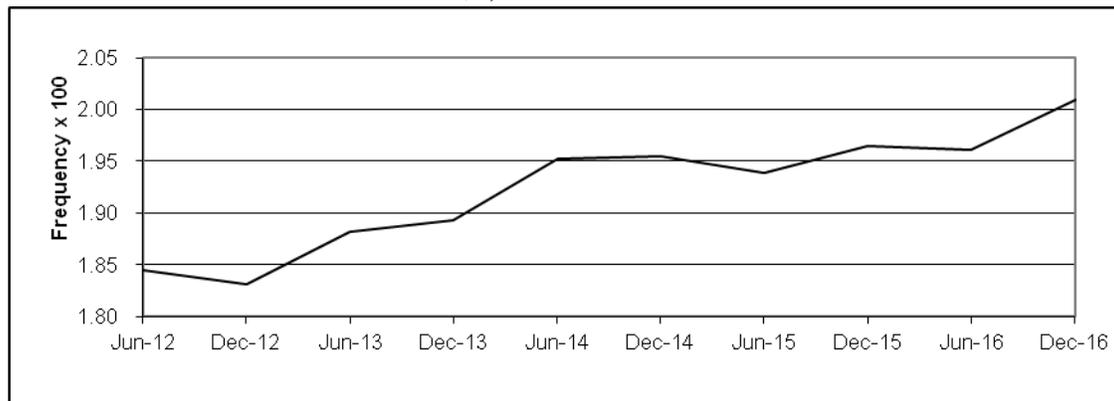
***Deductibles above \$2,000, totaling 4.4% of losses, are excluded from the trend calculations.

Multistate*
Trucks, Tractors & Trailers Physical Damage
Collision Frequency Trend

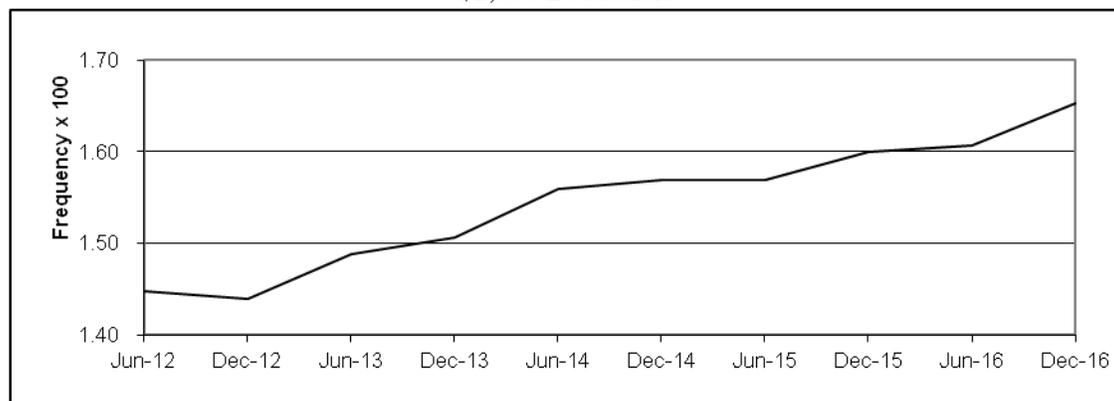
\$500 Deductible



\$1,000 Deductible



\$2,000 Deductible



* Multistate data excludes Massachusetts
Selected Collision Frequency Trend Factor: 0.0%

Multistate*
Trucks, Tractors & Trailers Physical Damage
Collision Loss Trend

Severity Trend

Year Ending:	\$500 Deductible	\$1,000 Deductible	\$2,000 Deductible
06/30/2012	7,538.84	9,161.48	10,026.25
12/31/2012	7,611.33	9,308.93	10,255.26
06/30/2013	7,714.78	9,404.00	10,220.27
12/31/2013	7,931.00	9,552.46	10,353.64
06/30/2014	8,122.70	9,867.33	10,777.70
12/31/2014	8,427.65	10,238.49	11,219.82
06/30/2015	8,716.43	10,426.73	11,335.66
12/31/2015	8,877.32	10,619.60	11,523.11
06/30/2016	9,283.23	10,995.51	11,914.75
12/31/2016	9,588.82	11,322.06	12,197.70

Average Annual Change Using Exponential Fits:

10 point fit:	5.7%	4.9%	4.6%
8 point fit:	6.4%	5.5%	5.3%
6 point fit:	6.7%	5.4%	4.8%

Selected severity trend:	5.5%
Selected frequency trend:	0.0%
Selected pure premium trend:	5.5%

* Multistate data excludes Massachusetts

Multistate*
Private Passenger Types Physical Damage
Other Than Collision

Frequency (expressed as claims per 100 exposures)

Year Ending:	\$250 Deductible		\$500 Deductible		\$1,000 Deductible	
	Actual	Change **	Actual	Change **	Actual	Change **
06/30/2012	5.21		2.97		1.65	
12/31/2012	4.87		2.84		1.59	
06/30/2013	4.86		2.83		1.57	
12/31/2013	4.94	1.4%	2.85	0.4%	1.56	-1.9%
06/30/2014	5.23		3.00		1.63	
12/31/2014	5.07	2.6%	2.97	4.2%	1.62	3.8%
06/30/2015	4.78		2.90		1.60	
12/31/2015	4.89	-3.6%	3.00	1.0%	1.66	2.5%
06/30/2016	4.92		3.07		1.71	
12/31/2016	4.88	-0.2%	2.99	-0.3%	1.70	2.4%

Volume*** of losses for the most recent year by deductible:

Deductible	Percent of Losses
Full	0.9%
\$50	0.7%
\$100	3.7%
\$200	0.7%
\$250	15.7%
\$500	43.0%
\$1,000	32.8%
\$2,000	1.7%
\$3,000	0.3%
\$5,000	0.4%

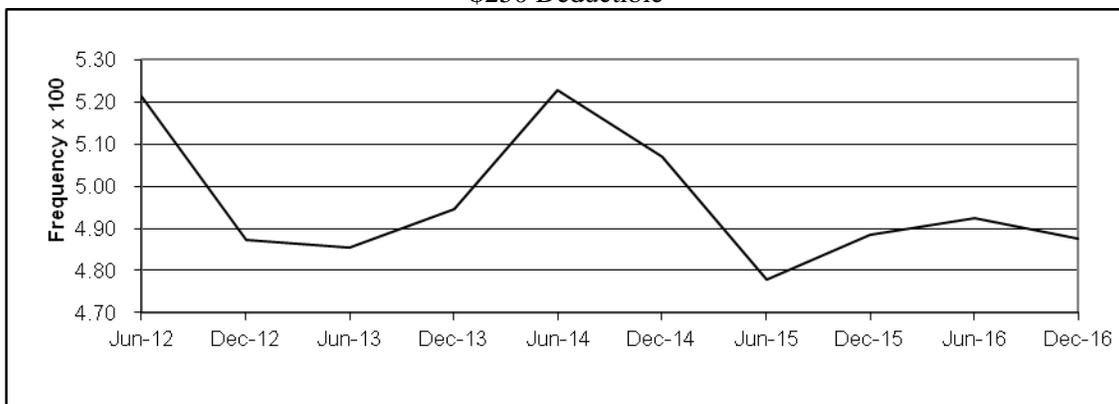
* Multistate data excludes Massachusetts

** Change based on years ending 12/31/xxxx

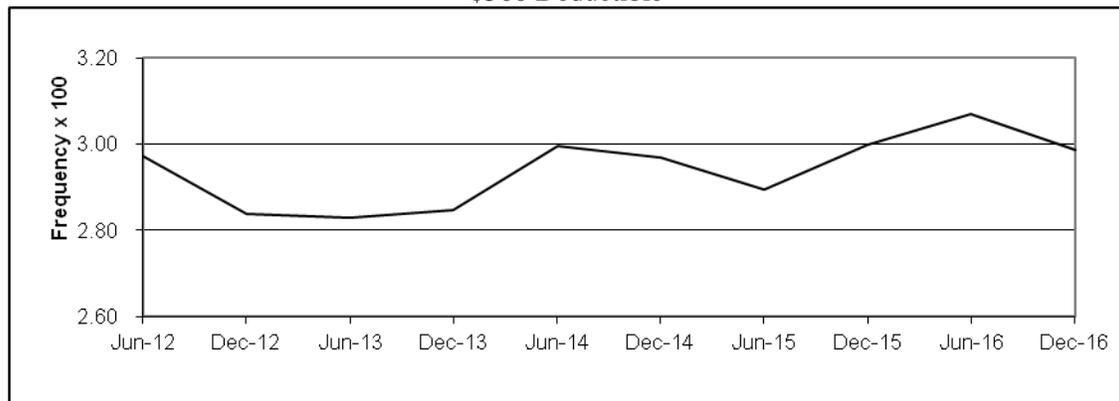
***Deductibles above \$1,000, totaling 2.4% of losses, are excluded from the trend calculations.

Multistate*
Private Passenger Types Physical Damage
Other Than Collision Frequency Trend

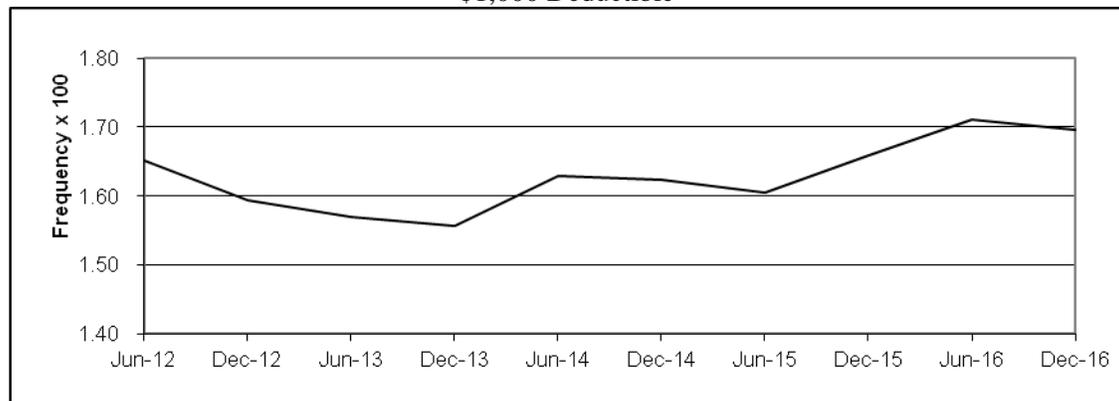
\$250 Deductible



\$500 Deductible



\$1,000 Deductible



* Multistate data excludes Massachusetts
Selected Other Than Collision Frequency Trend Factor: 0.0%

Multistate*
Private Passenger Types Physical Damage
Other Than Collision Loss Trend

Severity Trend

Year Ending:	\$250 Deductible	\$500 Deductible	\$1,000 Deductible
06/30/2012	1,433.90	2,004.59	2,944.20
12/31/2012	1,468.10	2,086.89	2,979.23
06/30/2013	1,547.57	2,168.10	3,120.96
12/31/2013	1,492.31	2,177.75	3,201.79
06/30/2014	1,434.86	2,179.81	3,222.57
12/31/2014	1,560.39	2,234.18	3,322.28
06/30/2015	1,636.37	2,257.29	3,351.19
12/31/2015	1,674.65	2,371.74	3,456.80
06/30/2016	1,776.74	2,487.98	3,596.05
12/31/2016	1,802.42	2,511.44	3,619.49

Average Annual Change Using Exponential Fits:

10 point fit:	5.2%	4.8%	4.8%
8 point fit:	6.0%	4.8%	4.5%
6 point fit:	9.3%	6.4%	5.0%

Selected severity trend:	5.0%
Selected frequency trend:	0.0%
Selected pure premium trend:	5.0%

* Multistate data excludes Massachusetts

Multistate*
Private Passenger Types Physical Damage
Collision

Frequency (expressed as claims per 100 exposures)

Year Ending:	\$500 Deductible		\$1,000 Deductible		\$2,000 Deductible	
	Actual	Change **	Actual	Change **	Actual	Change **
06/30/2012	5.16		4.14		2.95	
12/31/2012	5.13		4.08		2.91	
06/30/2013	5.18		4.15		2.96	
12/31/2013	5.18	1.0%	4.18	2.5%	2.99	2.7%
06/30/2014	5.33		4.35		3.12	
12/31/2014	5.33	2.9%	4.40	5.3%	3.19	6.7%
06/30/2015	5.30		4.32		3.16	
12/31/2015	5.32	-0.2%	4.39	-0.2%	3.24	1.6%
06/30/2016	5.19		4.36		3.24	
12/31/2016	5.18	-2.6%	4.38	-0.2%	3.29	1.5%

Volume*** of losses for the most recent year by deductible:

Deductible	Percent of Losses
\$ 100	0.5%
\$ 200	0.2%
\$ 250	2.6%
\$ 500	47.9%
\$ 1,000	46.8%
\$ 2,000	1.4%
\$ 3,000	0.1%
\$ 5,000	0.4%

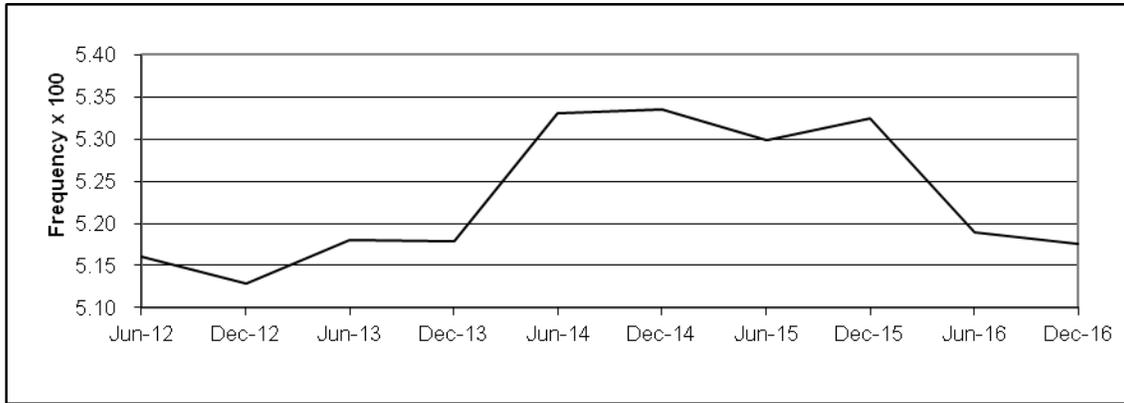
* Multistate data excludes Massachusetts

** Change based on years ending 12/31/xxxx

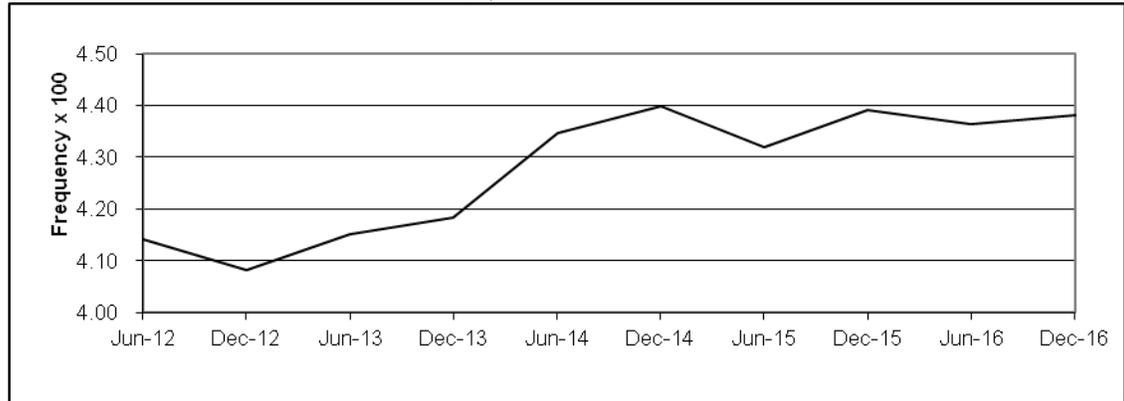
***Deductibles above \$2,000, totaling 0.5% of losses, are excluded from the trend calculations.

Multistate*
Private Passenger Types Physical Damage
Collision Frequency Trend

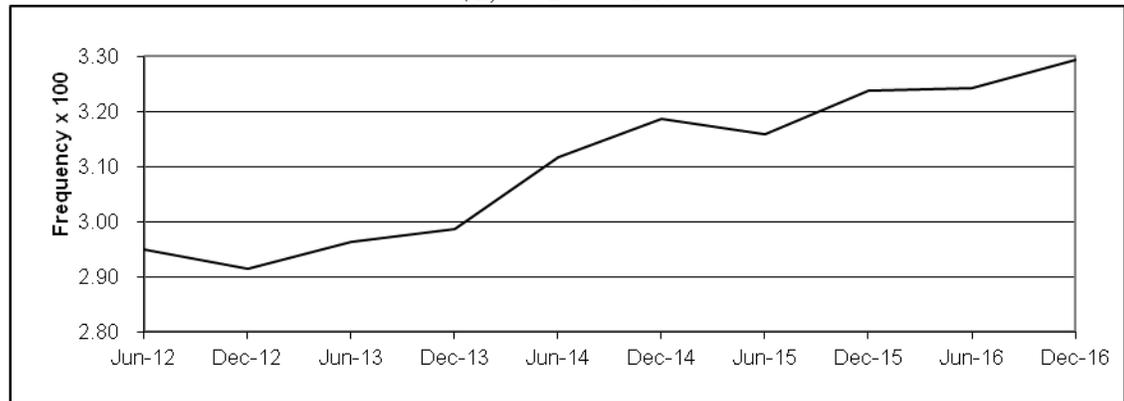
\$500 Deductible



\$1,000 Deductible



\$2,000 Deductible



* Multistate data excludes Massachusetts
Selected Collision Frequency Trend Factor: 0.0%

Multistate*
Private Passenger Types Physical Damage
Collision Loss Trend

Severity Trend

Year Ending:	\$500 Deductible	\$1,000 Deductible	\$2,000 Deductible
06/30/2012	4,921.52	5,382.99	5,981.67
12/31/2012	4,903.71	5,429.79	6,018.80
06/30/2013	4,989.41	5,453.09	6,043.91
12/31/2013	5,012.35	5,483.17	6,077.25
06/30/2014	5,095.40	5,560.52	6,149.31
12/31/2014	5,319.98	5,734.96	6,342.16
06/30/2015	5,454.76	5,901.29	6,494.68
12/31/2015	5,588.22	6,082.68	6,639.80
06/30/2016	5,778.31	6,270.13	6,845.08
12/31/2016	6,026.59	6,435.21	7,011.02

Average Annual Change Using Exponential Fits:

10 point fit:	4.8%	4.2%	3.7%
8 point fit:	5.7%	5.2%	4.6%
6 point fit:	6.6%	6.1%	5.3%

Selected severity trend:	5.0%
Selected frequency trend:	0.0%
Selected pure premium trend:	5.0%

* Multistate data excludes Massachusetts

COMMERCIAL AUTOMOBILE PHYSICAL DAMAGE
SUPPLEMENTARY EXHIBIT

Quarterly Values <u>Ending</u>	Consumer Price Index for Bodywork	
	<u>Actual</u>	<u>Exponential Fit</u>
12/31/2013	2.735	2.736
3/31/2014	2.764	2.749
6/30/2014	2.785	2.762
9/30/2014	2.784	2.776
12/31/2014	2.785	2.789
3/31/2015	2.792	2.803
6/30/2015	2.804	2.816
9/30/2015	2.805	2.830
12/31/2015	2.831	2.844
3/31/2016	2.847	2.857
6/30/2016	2.866	2.871
9/30/2016	2.877	2.885
12/31/2016	2.913	2.899
3/31/2017	2.925	2.913
6/30/2017	2.942	2.927
9/31/2017	2.945	2.942
	<u>R-Squared</u>	<u>Average Annual Change</u>
16 Point Fit	0.9600	2.0%
12 Point Fit	0.9788	2.3%

PHYSICAL DAMAGE OCN TREND

OBJECTIVE

In Physical Damage for Trucks, Tractors & Trailers and Private Passenger Types, as new, higher-valued commercial automobiles are introduced, there is an increase in revenue due to the original cost new component of the rating procedure. In order to reflect the revenue impact of the higher-valued vehicles during the prospective period, ISO uses an OCN trend procedure. The effect of this procedure is to reduce the indicated loss costs for Trucks, Tractors & Trailers and Private Passenger Types physical damage coverages.

DESCRIPTION OF ORIGINAL COST NEW DATA

The average original cost new (OCN) relativities for Comprehensive and Collision are displayed on the following exhibits. The data is displayed by coverage. To determine the historical average trend for OCN, ISO makes use of the Least Squares Method to fit a curve to the reported time series data. Specifically, an exponential curve represented by the equation

$$Y = A(B^X)$$

is fitted to the average OCN relativities. Based on the results of these curves, ISO has selected annual OCN trends of 0.9% and 1.3% for Trucks, Tractors & Trailers OTC and Collision coverages respectively. This trend is necessary to reflect the additional revenue generated by the shift in the OCN distribution as new, higher-priced automobiles are introduced.

For Private Passenger Types, OCN trends of 1.0% and 0.6% were selected for the OTC and Collision coverages respectively.

MULTISTATE
TRUCKS, TRACTORS & TRAILERS
PHYSICAL DAMAGE
OCN TREND CALCULATION

AVERAGE OCN RELATIVITIES

YEAR ENDING	OTHER THAN COLLISION	COLLISION
6/30/2012	1.214	1.344
12/31/2012	1.219	1.353
6/30/2013	1.225	1.361
12/31/2013	1.231	1.370
6/30/2014	1.237	1.379
12/31/2014	1.243	1.388
6/30/2015	1.249	1.397
12/31/2015	1.255	1.405
6/30/2016	1.261	1.415
12/31/2016	1.266	1.426

EXPONENTIAL TREND (AVERAGE ANNUAL CHANGE)

9 POINTS	1.0%	1.3%
7 POINTS	0.9%	1.3%
5 POINTS	0.9%	1.3%

Selected Other Than Collision Physical Damage Annual OCN Trend: 0.9%

Selected Collision Physical Damage Annual OCN Trend: 1.3%

Data excludes the following state: Massachusetts.

MULTISTATE
PRIVATE PASSENGER TYPES
PHYSICAL DAMAGE
OCN TREND CALCULATION

AVERAGE OCN RELATIVITIES

YEAR ENDING	OTHER THAN COLLISION	COLLISION
6/30/2012	1.296	1.147
12/31/2012	1.300	1.149
6/30/2013	1.304	1.151
12/31/2013	1.309	1.153
6/30/2014	1.314	1.155
12/31/2014	1.320	1.158
6/30/2015	1.326	1.162
12/31/2015	1.332	1.166
6/30/2016	1.340	1.170
12/31/2016	1.348	1.174

EXPONENTIAL TREND (AVERAGE ANNUAL CHANGE)

9 POINTS	0.9%	0.5%
7 POINTS	1.0%	0.6%
5 POINTS	1.0%	0.7%
Selected Other Than Collision Physical Damage Annual OCN Trend:		1.0%
Selected Collision Physical Damage Annual OCN Trend:		0.6%

Data excludes the following state: Massachusetts.

LOSS DEVELOPMENT FOR LIABILITY

OBJECTIVE The application of loss development recognizes the important concept that some of the losses for a particular accident year have not been finally determined at the time the experience is compiled.

DESCRIPTION OF EXPERIENCE PERIOD DATA For Trucks, Tractors & Trailers and Private Passenger Types Liability, the incurred losses and allocated loss adjustment expenses underlying the statewide loss cost level indications are on an accident year basis and were evaluated as of June 30, 2017. In other words, accident year ended March 31, 2017 includes all losses and allocated loss adjustment expenses paid through June 30, 2017 on accidents occurring from April 1, 2016 to March 31, 2017 and all losses and allocated loss adjustment expenses outstanding on these accidents as of June 30, 2017, 15 months after the inception of the accident year. Similarly, the incurred losses and allocated loss adjustment expenses for accident year ended March 31, 2016 include all loss and loss adjustment expenses paid through June 30, 2017 on accidents occurring from April 1, 2015 to March 31, 2016 and all losses and allocated loss adjustment expenses outstanding on these accidents as of June 30, 2017, 27 months after the inception of the accident year. The immature experience reported as of 15 or as of 27 months must be adjusted to a mature or ultimate settlement basis through the use of a loss development factor.

DESCRIPTION OF LOSS DEVELOPMENT METHODOLOGY For Bodily Injury Coverage, states are divided into two multistate groups. One group (No-Fault) consists of states with a no-fault law that has a tort threshold. The other group (Tort) contains the remaining states. The applicable multistate group for this state is used in this document. Losses are developed up to 123 months and are based on \$100,000 CSL data. Three-year averages for Trucks, Tractors & Trailers and Private Passenger Types are calculated for each link ratio based on a "best three of five" approach. Specifically, for the latest five years, the highest and lowest ratios were removed from the calculation and the three year average was calculated using the three remaining factors. Beyond 123 months the loss development is assumed to be unity.

For Property Damage Coverage, one multistate group is used. Losses are developed up to 111 months and \$100,000 CSL data is used. Three-year averages for Trucks, Tractors & Trailers and Private Passenger Types are calculated for each link ratio based on a "best three of five" years approach. Specifically, for the latest five years, the highest and lowest ratios were removed from the calculation and the three year average was calculated using the three remaining factors. Development beyond 111 months is assumed to be unity.

STATE
CREDIBILITY
WEIGHTED
FACTORS

For Trucks, Tractors & Trailers and Private Passenger Types, statewide loss development factors are credibility weighted with multistate factors. A Bayesian credibility study was done on state 15 to 27 months and 27 to 39 months loss development factors. The study concluded that there is significant statewide variation for bodily injury through 39 months and for property damage through 27 months. For these link ratios, statewide credibility is determined by the formula $Z = L/(L+K)$, where Z is the credibility, and L is the 3-year total losses for the particular state (at the earliest of the two evaluations). The complement of credibility is assigned to multistate loss development factors. K is a constant that varies by coverage as follows:

Trucks, Tractors & Trailers

	<u>15 to 27</u>	<u>27 to 39</u>
Bodily Injury (tort)	\$ 2,500,000	\$ 11,000,000
Bodily Injury (no-fault)	900,000	3,000,000
Property Damage	1,500,000	-

Private Passenger Types

	<u>15 to 27</u>	<u>27 to 39</u>
Bodily Injury (tort)	\$ 1,500,000	\$ 4,000,000
Bodily Injury (no-fault)	700,000	1,700,000
Property Damage	600,000	-

TRUCKS,
TRACTORS &
TRAILERS AND
PRIVATE
PASSENGER
TYPES

For Trucks, Tractors & Trailers and Private Passenger Types, Bodily Injury loss development factors to ultimate are calculated by accumulating the statewide credibility-weighted 15 to 27 month factor and 27 to 39 month factor, and the multistate average 39 to ultimate factor.

For the property damage coverage, loss development factors to ultimate are calculated by accumulating the statewide credibility-weighted 15-27 month factor and the multistate average 27 to ultimate factor.

Insurance Services Office

Missouri
Automobile Liability Insurance - Trucks, Tractors and Trailers
Loss Development
Incurred Losses and Expenses

Bodily Injury

Accident Year	\$100,000 Basic Limit			Loss Development Factors	
	Ending	15 Months	27 Months	39 Months	15 to 27 Months
12/31/2005	7,848,018	9,404,969	9,904,854	1.198	1.053
12/31/2006	8,015,387	9,318,806	9,803,914	1.163	1.052
12/31/2007	7,761,162	8,959,021	9,577,176	1.154	1.069
12/31/2008	6,567,452	8,069,473	8,835,019	1.229	1.095
12/31/2009	5,611,308	6,533,928	6,820,519	1.164	1.044
12/31/2010	6,306,671	7,672,211	8,097,073	1.217	1.055
12/31/2011	8,026,792	10,049,816	11,276,000	1.252	1.122
12/31/2012	7,487,939	8,391,232	8,882,307	1.121	1.059
12/31/2013	8,522,603	9,720,029	10,311,617	1.141	1.061
12/31/2014	9,125,322	9,964,323	10,109,539	1.092	1.015
12/31/2015	8,456,667	10,033,512		1.186	
12/31/2016	9,762,538				

(1) Average Factor (Best 3 of 5) :	(A) State	1.149	1.058
	(B) Multistate	1.242	1.115
(2) Credibility		0.910	0.720
(3) Credibility Weighted Factors		1.157	1.074

Property Damage

Accident Year	\$100,000 Basic Limit			Loss Development Factors	
	Ending	15 Months	27 Months	39 Months	15 to 27 Months
12/31/2005	8,626,852	8,694,688	8,644,061	1.008	0.994
12/31/2006	8,363,385	8,182,819	8,182,427	0.978	1.000
12/31/2007	8,591,042	8,541,394	8,521,689	0.994	0.998
12/31/2008	7,002,257	7,085,460	7,060,836	1.012	0.997
12/31/2009	6,294,347	6,557,343	6,589,655	1.042	1.005
12/31/2010	6,513,346	6,872,484	6,878,382	1.055	1.001
12/31/2011	8,417,990	8,291,479	8,353,598	0.985	1.007
12/31/2012	7,037,872	7,171,495	7,157,637	1.019	0.998
12/31/2013	7,810,691	7,806,521	7,985,523	0.999	1.023
12/31/2014	7,764,106	8,196,518	8,196,481	1.056	1.000
12/31/2015	7,283,806	7,588,736		1.042	
12/31/2016	8,487,121				

(1) Average Factor (Best 3 of 5) :	(A) State	1.020	1.003
	(B) Multistate	1.042	1.008
(2) Credibility		0.940	0.000
(3) Credibility Weighted Factors		1.021	1.008

Summary of Factors

	Bodily Injury	Property Damage
39 to Ultimate **	1.078	1.004
27 to Ultimate	1.158	1.012
15 to Ultimate	1.340	1.033
** Multistate factors		

Insurance Services Office

Basic Limits Loss Development
Trucks, Tractors and Trailers - Bodily Injury
Tort States #
Incurred Losses and Expenses

Accident Year Ended	\$100,000 Basic Limit				
	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	377,840,590	460,522,960	504,022,573	523,366,843	530,907,640
12/31/2006	373,870,297	458,090,073	507,224,363	532,527,813	537,188,170
12/31/2007	372,298,968	458,851,140	510,479,799	530,985,652	539,950,565
12/31/2008	337,299,786	417,357,076	460,433,347	479,495,388	485,672,554
12/31/2009	296,917,776	372,118,439	413,235,642	435,136,311	440,387,371
12/31/2010	321,747,357	392,839,682	433,015,404	458,111,187	466,645,232
12/31/2011	338,480,679	413,704,004	463,019,508	481,307,929	490,083,032
12/31/2012	345,723,129	428,711,874	476,195,198	501,505,422	512,534,526
12/31/2013	362,564,906	452,914,455	504,379,463	538,190,941	
12/31/2014	395,394,282	488,828,473	565,440,745		
12/31/2015	416,675,178	543,855,258			
12/31/2016	472,428,712				

Ratios

Accident Year Ended	Ratios			
	27:15	39:27	51:39	63:51
12/31/2005	1.219	1.094	1.038	1.014
12/31/2006	1.225	1.107	1.050	1.009
12/31/2007	1.232	1.113	1.040	1.017
12/31/2008	1.237	1.103	1.041	1.013
12/31/2009	1.253	1.110	1.053	1.012
12/31/2010	1.221	1.102	1.058	1.019
12/31/2011	1.222	1.119	1.039	1.018
12/31/2012	1.240	1.111	1.053	1.022
12/31/2013	1.249	1.114	1.067	
12/31/2014	1.236	1.157		
12/31/2015	1.305			

Average Factor : 1.242 1.115 1.055 1.017
(Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.005
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.022
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.078
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.202
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.493

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Dist. of Col., Georgia, Idaho, Illinois, Indiana, Iowa, Louisiana, Maine, Maryland, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
Trucks, Tractors and Trailers - Bodily Injury
Tort States #
Incurred Losses and Expenses

Accident Year <u>Ended</u>	\$100,000 Basic Limit				
	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>	<u>123 Months</u>
12/31/2005	534,255,818	534,880,485	534,516,731	534,118,891	534,292,639
12/31/2006	540,293,016	540,048,106	540,608,037	540,969,013	540,843,114
12/31/2007	541,328,962	542,183,030	541,779,788	541,901,914	541,898,127
12/31/2008	488,325,442	488,642,148	489,137,332	489,129,134	
12/31/2009	442,232,433	442,212,909	441,992,433		
12/31/2010	469,000,655	469,213,761			
12/31/2011	493,924,348				

Ratios

Accident Year <u>Ended</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>	<u>111:99</u>	<u>123:111</u>
12/31/2005	1.006	1.001	0.999	0.999	1.000
12/31/2006	1.006	1.000	1.001	1.001	1.000
12/31/2007	1.003	1.002	0.999	1.000	1.000
12/31/2008	1.005	1.001	1.001	1.000	
12/31/2009	1.004	1.000	1.000		
12/31/2010	1.005	1.000			
12/31/2011	1.008				
Average Factor :	1.005	1.000	1.000	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(1.000)	=	1.000
111 to Ult:	(123:111) (123:Ult)	=	1.000
99 to Ult:	(111:99) (123:111) (123:Ult)	=	1.000
87 to Ult:	(99:87) (111:99) (123:111) (123:Ult)	=	1.000
75 to Ult:	(87:75) (99:87) (111:99) (123:111) (123:Ult)	=	1.000

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Dist. of Col., Georgia, Idaho, Illinois, Indiana, Iowa, Louisiana, Maine, Maryland, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
 Trucks, Tractors and Trailers - Property Damage
 Multistate #
 Incurred Losses and Expenses

Accident Year Ended	\$100,000 Basic Limit				
	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	473,045,631	489,188,166	490,958,685	490,888,022	490,929,075
12/31/2006	479,238,796	495,943,450	499,862,012	500,322,542	500,475,568
12/31/2007	498,795,373	518,021,489	521,719,796	521,467,258	522,025,769
12/31/2008	453,497,729	467,032,625	469,798,910	470,565,761	471,311,665
12/31/2009	388,414,512	399,162,597	401,870,932	403,001,250	402,890,578
12/31/2010	405,682,745	420,758,252	423,788,783	425,100,793	425,221,014
12/31/2011	445,216,922	460,476,607	464,356,105	465,786,937	467,133,213
12/31/2012	442,772,605	460,317,796	464,565,729	466,693,026	467,118,739
12/31/2013	474,334,473	493,968,290	501,240,656	502,072,267	
12/31/2014	509,767,453	536,431,756	539,176,560		
12/31/2015	547,843,228	573,155,239			
12/31/2016	571,838,407				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	1.034	1.004	1.000	1.000
12/31/2006	1.035	1.008	1.001	1.000
12/31/2007	1.039	1.007	1.000	1.001
12/31/2008	1.030	1.006	1.002	1.002
12/31/2009	1.028	1.007	1.003	1.000
12/31/2010	1.037	1.007	1.003	1.000
12/31/2011	1.034	1.008	1.003	1.003
12/31/2012	1.040	1.009	1.005	1.001
12/31/2013	1.041	1.015	1.002	
12/31/2014	1.052	1.005		
12/31/2015	1.046			

Average Factor : 1.042 1.008 1.003 1.001
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.000
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.001
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.004
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.012
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.055

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
Trucks, Tractors and Trailers - Property Damage
Multistate #
Incurred Losses and Expenses

Accident Year <u>Ended</u>	\$100,000 Basic Limit			
	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>
12/31/2005	491,229,765	490,951,557	491,016,296	490,995,236
12/31/2006	500,505,398	500,549,322	500,509,031	500,444,944
12/31/2007	522,854,568	522,650,407	522,756,453	522,736,089
12/31/2008	471,251,480	471,257,656	471,226,400	471,208,545
12/31/2009	403,007,314	403,088,494	403,375,644	
12/31/2010	425,763,859	425,760,433		
12/31/2011	467,171,411			

Ratios

Accident Year <u>Ended</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>	<u>111:99</u>
12/31/2005	1.001	0.999	1.000	1.000
12/31/2006	1.000	1.000	1.000	1.000
12/31/2007	1.002	1.000	1.000	1.000
12/31/2008	1.000	1.000	1.000	1.000
12/31/2009	1.000	1.000	1.001	
12/31/2010	1.001	1.000		
12/31/2011	1.000			

Average Factor : 1.000 1.000 1.000 1.000
(Best 3 of 5)

Summary of factors

111 to Ult:	(1.000)	=	1.000
99 to Ult:	(111:99) (111:Ult)	=	1.000
87 to Ult:	(99:87) (111:99) (111:Ult)	=	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:Ult)	=	1.000

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Missouri
Automobile Liability Insurance - Private Passenger Types
Loss Development
Incurred Losses and Expenses

Bodily Injury

Accident Year	\$100,000 Basic Limit			Loss Development Factors	
	Ending	15 Months	27 Months	39 Months	15 to 27 Months
12/31/2005	1,597,323	2,063,764	2,027,732	1.292	0.983
12/31/2006	1,201,431	1,881,070	2,085,139	1.566	1.108
12/31/2007	1,686,982	1,875,384	1,868,414	1.112	0.996
12/31/2008	1,351,368	1,451,687	1,527,299	1.074	1.052
12/31/2009	1,050,862	1,069,780	1,063,719	1.018	0.994
12/31/2010	1,711,685	2,034,885	1,973,461	1.189	0.970
12/31/2011	2,240,281	2,505,673	2,510,682	1.118	1.002
12/31/2012	2,006,548	2,558,859	2,671,745	1.275	1.044
12/31/2013	2,271,853	2,711,005	3,125,765	1.193	1.153
12/31/2014	1,829,315	2,216,647	2,220,282	1.212	1.002
12/31/2015	2,110,074	2,157,202		1.022	
12/31/2016	1,900,597				

(1) Average Factor (Best 3 of 5) :	(A) State	1.174	1.016
	(B) Multistate	1.221	1.100
(2) Credibility		0.810	0.650
(3) Credibility Weighted Factors		1.183	1.045

Property Damage

Accident Year	\$100,000 Basic Limit			Loss Development Factors	
	Ending	15 Months	27 Months	39 Months	15 to 27 Months
12/31/2005	1,356,008	1,391,654	1,391,275	1.026	1.000
12/31/2006	1,279,975	1,291,658	1,282,866	1.009	0.993
12/31/2007	1,543,316	1,548,599	1,548,950	1.003	1.000
12/31/2008	1,493,854	1,502,276	1,503,674	1.006	1.001
12/31/2009	1,208,897	1,253,829	1,255,690	1.037	1.001
12/31/2010	1,468,704	1,458,035	1,457,909	0.993	1.000
12/31/2011	1,523,441	1,564,171	1,560,550	1.027	0.998
12/31/2012	1,519,227	1,486,945	1,473,775	0.979	0.991
12/31/2013	1,458,374	1,495,140	1,469,495	1.025	0.983
12/31/2014	1,361,228	1,390,295	1,394,200	1.021	1.003
12/31/2015	1,590,791	1,596,156		1.003	
12/31/2016	1,679,484				

(1) Average Factor (Best 3 of 5) :	(A) State	1.016	0.996
	(B) Multistate	1.043	1.007
(2) Credibility		0.880	0.000
(3) Credibility Weighted Factors		1.019	1.007

Summary of Factors

	Bodily Injury	Property Damage
39 to Ultimate **	1.064	1.005
27 to Ultimate	1.112	1.012
15 to Ultimate	1.315	1.031
** Multistate factors		

Insurance Services Office

Basic Limits Loss Development
 Private Passenger Types - Bodily Injury
 Tort States #
 Incurred Losses and Expenses

Accident Year Ended	\$100,000 Basic Limit				
	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	68,038,926	82,378,721	90,731,249	93,703,002	94,501,826
12/31/2006	66,118,949	82,347,324	91,654,693	95,377,198	96,223,944
12/31/2007	65,324,952	79,229,640	88,907,855	92,299,473	93,625,137
12/31/2008	64,507,040	79,149,602	86,114,900	88,262,123	88,994,930
12/31/2009	61,585,577	75,275,378	82,576,926	83,850,627	85,705,927
12/31/2010	66,572,448	78,504,384	85,624,662	89,494,026	91,287,638
12/31/2011	70,954,830	86,342,263	94,600,857	98,336,259	99,524,421
12/31/2012	70,403,712	86,142,496	92,623,933	96,399,227	98,388,716
12/31/2013	71,167,590	83,842,807	93,345,277	98,736,866	
12/31/2014	66,304,672	81,002,869	91,542,708		
12/31/2015	71,893,053	90,250,428			
12/31/2016	76,910,074				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	1.211	1.101	1.033	1.009
12/31/2006	1.245	1.113	1.041	1.009
12/31/2007	1.213	1.122	1.038	1.014
12/31/2008	1.227	1.088	1.025	1.008
12/31/2009	1.222	1.097	1.015	1.022
12/31/2010	1.179	1.091	1.045	1.020
12/31/2011	1.217	1.096	1.039	1.012
12/31/2012	1.224	1.075	1.041	1.021
12/31/2013	1.178	1.113	1.058	
12/31/2014	1.222	1.130		
12/31/2015	1.255			

Average Factor : 1.221 1.100 1.042 1.018
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.003
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.021
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.064
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.170
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.429

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Dist. of Col., Georgia, Idaho, Illinois, Indiana, Iowa, Louisiana, Maine, Maryland, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
 Private Passenger Types - Bodily Injury
 Tort States #
 Incurred Losses and Expenses

Accident Year Ended	\$100,000 Basic Limit				
	75 Months	87 Months	99 Months	111 Months	123 Months
12/31/2005	94,500,266	94,498,606	94,650,421	94,652,484	94,653,246
12/31/2006	96,957,934	97,069,571	97,249,366	97,132,120	97,083,194
12/31/2007	93,978,906	94,057,823	94,255,602	94,195,527	94,229,130
12/31/2008	88,736,463	88,811,980	88,898,822	89,093,162	
12/31/2009	85,767,791	85,601,477	85,720,393		
12/31/2010	91,228,403	90,959,855			
12/31/2011	100,220,330				

Ratios

Accident Year Ended	75:63	87:75	99:87	111:99	123:111
12/31/2005	1.000	1.000	1.002	1.000	1.000
12/31/2006	1.008	1.001	1.002	0.999	0.999
12/31/2007	1.004	1.001	1.002	0.999	1.000
12/31/2008	0.997	1.001	1.001	1.002	
12/31/2009	1.001	0.998	1.001		
12/31/2010	0.999	0.997			
12/31/2011	1.007				
Average Factor :	1.001	1.000	1.002	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(1.000)	=	1.000
111 to Ult:	(123:111) (123:Ult)	=	1.000
99 to Ult:	(111:99) (123:111) (123:Ult)	=	1.000
87 to Ult:	(99:87) (111:99) (123:111) (123:Ult)	=	1.002
75 to Ult:	(87:75) (99:87) (111:99) (123:111) (123:Ult)	=	1.002

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Dist. of Col., Georgia, Idaho, Illinois, Indiana, Iowa, Louisiana, Maine, Maryland, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
 Private Passenger Types - Property Damage
 Multistate #
 Incurred Losses and Expenses

Accident Year Ended	\$100,000 Basic Limit				
	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	89,783,140	93,014,756	93,249,905	93,292,784	93,512,440
12/31/2006	88,138,002	91,103,174	91,802,445	91,777,965	91,785,178
12/31/2007	93,514,526	95,700,851	96,167,555	96,469,308	96,513,235
12/31/2008	87,349,338	90,399,412	90,725,539	90,889,361	90,994,108
12/31/2009	80,757,159	83,276,961	83,699,034	83,944,512	83,995,472
12/31/2010	80,791,288	83,606,419	84,048,413	84,242,824	84,283,843
12/31/2011	84,460,665	87,017,636	87,829,610	88,242,484	88,757,736
12/31/2012	86,093,532	89,399,001	90,016,799	90,343,822	90,311,253
12/31/2013	86,691,856	90,403,979	91,152,043	91,404,464	
12/31/2014	85,822,297	90,285,484	90,959,854		
12/31/2015	95,404,013	99,951,520			
12/31/2016	102,583,997				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	1.036	1.003	1.000	1.002
12/31/2006	1.034	1.008	1.000	1.000
12/31/2007	1.023	1.005	1.003	1.000
12/31/2008	1.035	1.004	1.002	1.001
12/31/2009	1.031	1.005	1.003	1.001
12/31/2010	1.035	1.005	1.002	1.000
12/31/2011	1.030	1.009	1.005	1.006
12/31/2012	1.038	1.007	1.004	1.000
12/31/2013	1.043	1.008	1.003	
12/31/2014	1.052	1.007		
12/31/2015	1.048			

Average Factor : 1.043 1.007 1.003 1.001
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.001
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.002
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.005
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.012
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.056

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

Insurance Services Office

Basic Limits Loss Development
 Private Passenger Types - Property Damage
 Multistate #
 Incurred Losses and Expenses

Accident Year <u>Ended</u>	\$100,000 Basic Limit			
	<u>75 Months</u>	<u>87 Months</u>	<u>99 Months</u>	<u>111 Months</u>
12/31/2005	93,567,298	93,649,179	93,649,926	93,664,911
12/31/2006	91,724,572	91,837,382	91,851,087	91,853,773
12/31/2007	96,615,438	96,508,358	96,509,300	96,510,189
12/31/2008	90,956,269	90,923,625	90,926,843	90,939,790
12/31/2009	84,033,527	84,075,880	84,068,653	
12/31/2010	84,655,241	84,566,351		
12/31/2011	88,905,567			

Ratios

Accident Year <u>Ended</u>	<u>75:63</u>	<u>87:75</u>	<u>99:87</u>	<u>111:99</u>
12/31/2005	1.001	1.001	1.000	1.000
12/31/2006	0.999	1.001	1.000	1.000
12/31/2007	1.001	0.999	1.000	1.000
12/31/2008	1.000	1.000	1.000	1.000
12/31/2009	1.000	1.001	1.000	
12/31/2010	1.004	0.999		
12/31/2011	1.002			
Average Factor :	1.001	1.000	1.000	1.000
(Best 3 of 5)				

Summary of factors

111 to Ult:	(1.000)	=	1.000
99 to Ult:	(111:99) (111:Ult)	=	1.000
87 to Ult:	(99:87) (111:99) (111:Ult)	=	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:Ult)	=	1.000

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

LOSS DEVELOPMENT FOR PHYSICAL DAMAGE

OBJECTIVE	The application of loss development recognizes the important concept that some of the losses for a particular accident year have not been finally determined at the time the experience is compiled.
DESCRIPTION OF EXPERIENCE PERIOD DATA	For Physical Damage, paid losses underlying the statewide loss cost level indications are on an accident year basis and were evaluated as of June 30, 2017. In other words, accident year ended March 31, 2017 includes all losses paid through June 30, 2017 on accidents occurring from April 1, 2016 to March 31, 2017. Similarly, the paid losses for accident year ended March 31, 2016 include all losses paid through June 30, 2017 on accidents occurring from April 1, 2015 to March 31, 2016. The immature paid loss experience reported as of 15 or as of 27 months must be adjusted to a mature or ultimate settlement basis through the use of a loss development factor.
DESCRIPTION OF LOSS DEVELOPMENT METHODOLOGY	For Collision and Other Than Collision coverages, one multistate group is used. Losses are developed to an ultimate settlement basis. Three-year averages are calculated for each age-to-age link ratio. These link ratios are accumulated to develop losses to 123 months. Development beyond 123 months is assumed to be 1.000.

Insurance Services Office

Physical Damage Loss Development
 Trucks, Tractors and Trailers - Other Than Collision
 Multistate #
 Paid Losses

Accident Year Ended	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	109,115,437	111,563,492	111,596,389	111,623,152	111,645,846
12/31/2006	102,807,358	104,314,626	104,417,210	104,404,749	104,325,652
12/31/2007	112,395,566	115,496,656	115,415,357	115,306,837	115,253,703
12/31/2008	142,878,639	145,759,420	145,742,818	145,628,803	145,594,299
12/31/2009	118,446,693	120,350,577	120,603,534	120,587,692	120,607,750
12/31/2010	138,996,661	141,524,438	141,686,983	141,479,820	141,615,766
12/31/2011	159,404,162	162,003,949	162,106,699	162,194,233	162,151,543
12/31/2012	186,812,587	191,092,628	191,132,273	191,235,386	191,490,844
12/31/2013	148,756,638	152,397,696	152,598,900	152,953,588	
12/31/2014	157,426,606	161,318,070	161,443,453		
12/31/2015	156,682,563	160,391,003			
12/31/2016	203,521,110				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	1.022	1.000	1.000	1.000
12/31/2006	1.015	1.001	1.000	0.999
12/31/2007	1.028	0.999	0.999	1.000
12/31/2008	1.020	1.000	0.999	1.000
12/31/2009	1.016	1.002	1.000	1.000
12/31/2010	1.018	1.001	0.999	1.001
12/31/2011	1.016	1.001	1.001	1.000
12/31/2012	1.023	1.000	1.001	1.001
12/31/2013	1.024	1.001	1.002	
12/31/2014	1.025	1.001		
12/31/2015	1.024			

Average Factor : 1.024 1.001 1.001 1.000
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.000
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.000
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.001
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.002
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.026

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Insurance Services Office
 Physical Damage Loss Development
 Trucks, Tractors and Trailers - Other Than Collision
 Multistate #
 Paid Losses

Accident Year Ended	75 Months	87 Months	99 Months	111 Months	123 Months
12/31/2005	111,665,996	111,654,581	111,630,449	111,600,877	111,588,119
12/31/2006	104,274,115	104,226,793	104,369,085	104,361,011	104,357,526
12/31/2007	115,341,016	115,287,453	115,279,313	115,191,853	115,197,721
12/31/2008	145,557,256	145,526,868	145,534,028	145,589,193	
12/31/2009	120,444,322	120,443,987	120,447,758		
12/31/2010	141,707,620	141,755,968			
12/31/2011	162,126,687				

Ratios

Accident Year Ended	75:63	87:75	99:87	111:99	123:111
12/31/2005	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.000	1.000	1.001	1.000	1.000
12/31/2007	1.001	1.000	1.000	0.999	1.000
12/31/2008	1.000	1.000	1.000	1.000	
12/31/2009	0.999	1.000	1.000		
12/31/2010	1.001	1.000			
12/31/2011	1.000				
Average Factor :	1.000	1.000	1.000	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(123:Ult) =	1.000
111 to Ult:	(111:123) (123:Ult) =	1.000
99 to Ult:	(111:99) (111:123) (123:Ult) =	1.000
87 to Ult:	(99:87) (111:99) (111:123) (123:Ult) =	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:123) (123:Ult) =	1.000

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Physical Damage Loss Development
 Trucks, Tractors and Trailers - Collision
 Multistate #
 Paid Losses

Accident Year Ended	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	322,462,871	315,481,884	313,924,633	313,099,494	312,986,852
12/31/2006	317,326,930	311,098,621	309,421,553	308,463,882	308,720,750
12/31/2007	356,146,440	348,974,452	347,143,636	346,829,346	346,595,856
12/31/2008	360,324,032	354,662,031	353,851,118	353,227,788	352,336,706
12/31/2009	304,165,283	298,733,571	297,915,144	297,497,601	297,622,725
12/31/2010	329,251,603	322,632,140	321,499,107	321,373,585	321,375,283
12/31/2011	356,530,430	349,805,929	347,993,425	347,651,356	347,742,914
12/31/2012	358,909,613	353,688,539	351,615,502	351,043,928	351,020,502
12/31/2013	380,389,550	373,855,744	372,641,752	373,375,687	
12/31/2014	422,368,572	414,567,492	412,060,782		
12/31/2015	454,074,201	440,852,901			
12/31/2016	486,657,593				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	0.978	0.995	0.997	1.000
12/31/2006	0.980	0.995	0.997	1.001
12/31/2007	0.980	0.995	0.999	0.999
12/31/2008	0.984	0.998	0.998	0.997
12/31/2009	0.982	0.997	0.999	1.000
12/31/2010	0.980	0.996	1.000	1.000
12/31/2011	0.981	0.995	0.999	1.000
12/31/2012	0.985	0.994	0.998	1.000
12/31/2013	0.983	0.997	1.002	
12/31/2014	0.982	0.994		
12/31/2015	0.971			

Average Factor : 0.982 0.995 0.999 1.000
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.000
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.000
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	0.999
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	0.994
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	0.976

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Physical Damage Loss Development
 Trucks, Tractors and Trailers - Collision
 Multistate #
 Paid Losses

Accident Year Ended	75 Months	87 Months	99 Months	111 Months	123 Months
12/31/2005	312,900,474	312,915,299	312,916,819	312,891,036	312,845,391
12/31/2006	308,716,770	308,686,027	308,648,341	308,639,202	308,617,912
12/31/2007	346,524,126	346,478,641	346,431,313	346,424,745	346,429,008
12/31/2008	352,372,498	352,258,433	352,233,610	352,208,663	
12/31/2009	297,437,228	297,355,436	297,315,625		
12/31/2010	321,280,907	321,178,470			
12/31/2011	347,668,131				

Ratios

Accident Year Ended	75:63	87:75	99:87	111:99	123:111
12/31/2005	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.000	1.000	1.000	1.000	1.000
12/31/2007	1.000	1.000	1.000	1.000	1.000
12/31/2008	1.000	1.000	1.000	1.000	
12/31/2009	0.999	1.000	1.000		
12/31/2010	1.000	1.000			
12/31/2011	1.000				
Average Factor :	1.000	1.000	1.000	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(123:Ult) =	1.000
111 to Ult:	(111:123) (123:Ult) =	1.000
99 to Ult:	(111:99) (111:123) (123:Ult) =	1.000
87 to Ult:	(99:87) (111:99) (111:123) (123:Ult) =	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:123) (123:Ult) =	1.000

Includes Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Physical Damage Loss Development
 Private Passenger Types - Other Than Collision
 Multistate #
 Paid Losses

Accident Year Ended	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	52,660,729	52,959,934	52,844,320	52,883,312	52,883,845
12/31/2006	47,550,085	47,832,020	47,742,310	47,652,804	47,637,924
12/31/2007	44,246,559	44,998,032	44,832,953	44,844,254	44,962,802
12/31/2008	51,460,193	51,981,969	51,823,856	51,807,289	51,797,978
12/31/2009	47,784,162	47,901,244	47,898,038	47,825,753	47,816,436
12/31/2010	52,121,005	52,245,507	52,222,238	52,217,376	52,215,658
12/31/2011	67,766,233	67,890,700	67,769,002	67,818,296	67,816,079
12/31/2012	79,043,728	78,061,908	78,135,658	78,170,898	78,187,828
12/31/2013	54,710,377	55,157,745	55,376,373	55,380,784	
12/31/2014	57,920,380	58,658,468	58,767,088		
12/31/2015	50,974,195	51,626,381			
12/31/2016	63,283,643				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	1.006	0.998	1.001	1.000
12/31/2006	1.006	0.998	0.998	1.000
12/31/2007	1.017	0.996	1.000	1.003
12/31/2008	1.010	0.997	1.000	1.000
12/31/2009	1.002	1.000	0.998	1.000
12/31/2010	1.002	1.000	1.000	1.000
12/31/2011	1.002	0.998	1.001	1.000
12/31/2012	0.988	1.001	1.000	1.000
12/31/2013	1.008	1.004	1.000	
12/31/2014	1.013	1.002		
12/31/2015	1.013			

Average Factor : 1.008 1.001 1.000 1.000
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.000
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.000
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	1.000
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.001
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	1.009

Include Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Physical Damage Loss Development
 Private Passenger Types - Other Than Collision
 Multistate #
 Paid Losses

Accident Year	75 Months	87 Months	99 Months	111 Months	123 Months
12/31/2005	52,877,734	52,888,739	52,905,885	52,906,881	52,905,381
12/31/2006	47,683,870	47,682,959	47,677,011	47,676,197	47,675,039
12/31/2007	44,894,920	44,886,358	44,885,282	44,883,865	44,890,901
12/31/2008	51,795,292	51,796,702	51,795,033	51,793,835	
12/31/2009	47,817,481	47,817,498	47,819,654		
12/31/2010	52,196,068	52,197,593			
12/31/2011	67,824,191				

Ratios

Accident Year	75:63	87:75	99:87	111:99	123:111
12/31/2005	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.001	1.000	1.000	1.000	1.000
12/31/2007	0.998	1.000	1.000	1.000	1.000
12/31/2008	1.000	1.000	1.000	1.000	
12/31/2009	1.000	1.000	1.000		
12/31/2010	1.000	1.000			
12/31/2011	1.000				
Average Factor :	1.000	1.000	1.000	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(123:Ult) =	1.000
111 to Ult:	(111:123) (123:Ult) =	1.000
99 to Ult:	(111:99) (111:123) (123:Ult) =	1.000
87 to Ult:	(99:87) (111:99) (111:123) (123:Ult) =	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:123) (123:Ult) =	1.000

Include Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Physical Damage Loss Development
 Private Passenger Types - Collision
 Multistate #
 Paid Losses

Accident Year Ended	15 Months	27 Months	39 Months	51 Months	63 Months
12/31/2005	154,579,191	148,728,881	147,932,626	147,592,414	147,495,633
12/31/2006	140,056,612	134,281,262	133,518,349	133,248,516	133,238,424
12/31/2007	146,276,838	141,484,399	140,927,857	140,575,526	140,568,555
12/31/2008	148,738,892	143,444,291	142,739,339	142,605,668	142,563,101
12/31/2009	139,981,785	134,990,801	134,352,838	134,272,164	134,216,825
12/31/2010	143,504,046	136,502,358	135,864,999	135,661,681	135,643,072
12/31/2011	152,236,234	145,687,545	145,204,743	144,970,654	144,932,529
12/31/2012	153,435,001	147,570,957	146,966,745	146,825,288	146,805,766
12/31/2013	154,839,038	148,207,618	147,201,722	147,214,414	
12/31/2014	163,562,326	156,653,964	156,464,520		
12/31/2015	174,634,552	165,637,516			
12/31/2016	173,831,773				

Ratios

Accident Year Ended	27:15	39:27	51:39	63:51
12/31/2005	0.962	0.995	0.998	0.999
12/31/2006	0.959	0.994	0.998	1.000
12/31/2007	0.967	0.996	0.997	1.000
12/31/2008	0.964	0.995	0.999	1.000
12/31/2009	0.964	0.995	0.999	1.000
12/31/2010	0.951	0.995	0.999	1.000
12/31/2011	0.957	0.997	0.998	1.000
12/31/2012	0.962	0.996	0.999	1.000
12/31/2013	0.957	0.993	1.000	
12/31/2014	0.958	0.999		
12/31/2015	0.948			

Average Factor : 0.957 0.996 0.999 1.000
 (Best 3 of 5)

Summary of factors

63 to Ult:	(75:63) (75:Ult) =	1.000
51 to Ult:	(63:51) (75:63) (75:Ult) =	1.000
39 to Ult:	(51:39) (63:51) (75:63) (75:Ult) =	0.999
27 to Ult:	(39:27) (51:39) (63:51) (75:63) (75:Ult) =	0.995
15 to Ult:	(27:15) (39:27) (51:39) (63:51) (75:63) (75:Ult) =	0.952

Include Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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Insurance Services Office

Physical Damage Loss Development
 Private Passenger Types - Collision
 Multistate #
 Paid Losses

Accident Year	75 Months	87 Months	99 Months	111 Months	123 Months
12/31/2005	147,434,154	147,470,800	147,455,877	147,444,309	147,447,660
12/31/2006	133,304,797	133,268,661	133,250,034	133,233,676	133,209,780
12/31/2007	140,518,945	140,501,902	140,487,660	140,481,064	140,483,506
12/31/2008	142,528,087	142,488,167	142,479,073	142,472,300	
12/31/2009	134,153,497	134,127,695	134,109,292		
12/31/2010	135,588,998	135,554,414			
12/31/2011	144,840,017				

Ratios

Accident Year	75:63	87:75	99:87	111:99	123:111
12/31/2005	1.000	1.000	1.000	1.000	1.000
12/31/2006	1.000	1.000	1.000	1.000	1.000
12/31/2007	1.000	1.000	1.000	1.000	1.000
12/31/2008	1.000	1.000	1.000	1.000	
12/31/2009	1.000	1.000	1.000		
12/31/2010	1.000	1.000			
12/31/2011	0.999				
Average Factor :	1.000	1.000	1.000	1.000	1.000
(Best 3 of 5)					

Summary of factors

123 to Ult:	(123:Ult) =	1.000
111 to Ult:	(111:123) (123:Ult) =	1.000
99 to Ult:	(111:99) (111:123) (123:Ult) =	1.000
87 to Ult:	(99:87) (111:99) (111:123) (123:Ult) =	1.000
75 to Ult:	(87:75) (99:87) (111:99) (111:123) (123:Ult) =	1.000

Include Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Dist. of Col., Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Alaska, and Puerto Rico

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CREDIBILITY PROCEDURE FOR EXPERIENCE LOSS RATIO

OBJECTIVE The extent to which the state experience is reflected in the development of the prospective loss costs is determined by the credibility of the data for that state. Specifically, ISO credibility procedures are based upon the volume of claims for each coverage separately.

METHODOLOGY The standards for full credibility were determined from a credibility study using various size of loss distributions for liability, other than collision and collision respectively. Separate standards by coverage/major class for full credibility were calculated using the Mayerson, Jones and Bowers expansion formula.

CREDIBILITY FOR EXPERIENCE LOSS RATIO The assignment of credibility to the experience loss ratio is based on the total number of claims for the years used. For liability, the claims are based on BI and PD claims combined. For physical damage, credibility is determined separately for OTC and Collision. Partial credibility (Z), as used for the experience loss ratio, is determined using the square root rule as follows:

$$Z = \sqrt{\frac{\text{Claims}}{X}}$$

Where X equals the full credibility standard, by line and coverage, as shown on the following pages of this section.

YEAR WEIGHTS The weights assigned to the loss ratio by year are based on the credibility of the average number of claims for the years of experience used. A maximum of five years of experience may be used. This procedure is described in detail in the flow chart on the following page. The claim standard used to determine the year weights is based on the credibility standard for each coverage. The schedules of the number of claims required for the year weight assignments are shown on the following pages.

COMMERCIAL AUTOMOBILE LIABILITY
FLOWCHART TO DETERMINE
YEAR WEIGHTS AND
EXPERIENCE PERIOD CREDIBILITY

Step Determine Number of Years to be used and Year Weights
1:

1. Add latest 2 years of claims and divide by 2 to determine the 2 year average.
2. If 2 year Avg. claims \geq 11,500,
Then use 2 years of experience and assign 70/30 weights.
3. Add latest 3 years of claims and divide by 3 to determine the 3 year average.
4. If 3 year Avg. claims \geq 1,380,
Then use 3 years of experience and assign 50/30/20 weights.
5. If 3 year Avg. claims $<$ 1,380,
Then use 5 years of experience and assign 30/25/20/15/10 weights.

Step Determine the Experience Period Credibility
2:

Calculate partial credibility based on the total number of claims for the number of years used in the review as determined from Step 1.

COMMERCIAL AUTOMOBILE PHYSICAL DAMAGE
FLOWCHART TO DETERMINE
YEAR WEIGHTS AND
EXPERIENCE PERIOD CREDIBILITY

Step 1: Determine Number of Years to be used and Year Weights

1. Add latest 2 years of claims and divide by 2 to determine the 2 year average.
2. If 2 year Avg. claims \geq Full Standard,
Then use 2 years of experience and assign 70/30 weights.
3. Add latest 3 years of claims and divide by 3 to determine the 3 year average.
4. If 3 year Avg. claims \geq Intermediate Threshold,
Then use 3 years of experience and assign 50/30/20 weights.
5. If 3 year Avg. claims $<$ Intermediate Threshold,
Then use 5 years of experience and assign 30/25/20/15/10 weights.

Step 2: Determine the Experience Period Credibility

Calculate partial credibility based on the total number of claims for the number of years used in the review as determined from Step 1.

<u>Coverage</u>	<u>Intermediate Threshold</u>	<u>Full Standard</u>
Trucks, Tractors & Trailers OTC	1,350	11,000
Trucks, Tractors & Trailers Collision	550	4,500
Private Passenger Types OTC	1,050	8,500
Private Passenger Types Collision	450	3,500

Tables For Use With Trend Data

Bodily Injury				Property Damage			
<u>Number of Claims</u>			<u>Cred.</u>	<u>Number of Claims</u>			<u>Cred.</u>
0	-	641	0.00	0	-	256	0.00
642	-	2027	0.05	257	-	810	0.05
2028	-	3571	0.10	811	-	1428	0.10
3572	-	5303	0.15	1429	-	2121	0.15
5304	-	7258	0.20	2122	-	2903	0.20
7259	-	9482	0.25	2904	-	3793	0.25
9483	-	12037	0.30	3794	-	4814	0.30
12038	-	14999	0.35	4815	-	5999	0.35
15000	-	18478	0.40	6000	-	7391	0.40
18479	-	22619	0.45	7392	-	9047	0.45
22620	-	27631	0.50	9048	-	11052	0.50
27632	-	33823	0.55	11053	-	13529	0.55
33824	-	41666	0.60	13530	-	16666	0.60
41667	-	51923	0.65	16667	-	20769	0.65
51924	-	65909	0.70	20770	-	26363	0.70
65910	-	86111	0.75	26364	-	34444	0.75
86112	-	117857	0.80	34445	-	47142	0.80
117858	-	174999	0.85	47143	-	69999	0.85
175000	-	308333	0.90	70000	-	123333	0.90
308334	-	974999	0.95	123334	-	389999	0.95
975000	-	and over	1.00	390000	-	and over	1.00

K = 25,000

K = 10,000

$$\text{CREDIBILITY FORMULA} = (\# \text{ CLAIMS}) / (\# \text{ CLAIMS} + K)$$

ALL LIABILITY COVERAGES
CREDIBILITY TABLE
NUMBER OF CLAIMS

<u>Credibility</u>			
0.00*	0	-	28
0.05	29	-	114
0.10	115	-	258
0.15	259	-	459
0.20	460	-	718
0.25	719	-	1,034
0.30	1035	-	1,408
0.35	1,409	-	1,839
0.40	1,840	-	2,328
0.45	2,329	-	2,874
0.50	2,875	-	3,478
0.55	3,479	-	4,139
0.60	4,140	-	4,858
0.65	4,859	-	5,634
0.70	5,635	-	6,468
0.75	6,469	-	7,359
0.80	7,360	-	8,308
0.85	8,309	-	9,314
0.90	9,315	-	10,378
0.95	10,379	-	11,499
1.00		>	11,499

The credibility for the loss cost level ratio is determined by the total number of claims for the total number of years of experience used in the review.

*The credibility underlying the calculation of the statewide indication is subject to a minimum of 5% given that there is at least one claim in the experience period.

PHYSICAL DAMAGE
CREDIBILITY TABLES
NUMBER OF CLAIMS

OTHER THAN COLLISION

Cred	Trucks, Tractors & Trailers			Private Passenger Types		
0.00*	0	-	27	0	-	21
0.05	28	-	109	22	-	84
0.10	110	-	247	85	-	191
0.15	248	-	439	192	-	339
0.20	440	-	687	340	-	531
0.25	688	-	989	532	-	764
0.30	990	-	1,347	765	-	1,041
0.35	1,348	-	1,759	1,042	-	1,359
0.40	1,760	-	2,227	1,360	-	1,721
0.45	2,228	-	2,749	1,722	-	2,124
0.50	2,750	-	3,327	2,125	-	2,571
0.55	3,328	-	3,959	2,572	-	3,059
0.60	3,960	-	4,647	3,060	-	3,591
0.65	4,648	-	5,389	3,592	-	4,164
0.70	5,390	-	6,187	4,165	-	4,781
0.75	6,188	-	7,039	4,782	-	5,439
0.80	7,040	-	7,947	5,440	-	6,141
0.85	7,948	-	8,909	6,142	-	6,884
0.90	8,910	-	9,927	6,885	-	7,671
0.95	9,928	-	10,999	7,672	-	8,499
1.00		>	10,999		>	8,499

COLLISION

Cred	Trucks, Tractors & Trailers			Private Passenger Types		
0.00*	0	-	11	0	-	8
0.05	12	-	44	9	-	34
0.10	45	-	101	35	-	78
0.15	102	-	179	79	-	139
0.20	180	-	281	140	-	218
0.25	282	-	404	219	-	314
0.30	405	-	551	315	-	428
0.35	552	-	719	429	-	559
0.40	720	-	911	560	-	708
0.45	912	-	1,124	709	-	874
0.50	1,125	-	1,361	875	-	1,058
0.55	1,362	-	1,619	1,059	-	1,259
0.60	1,620	-	1,901	1,260	-	1,478
0.65	1,902	-	2,204	1,479	-	1,714
0.70	2,205	-	2,531	1,715	-	1,968
0.75	2,532	-	2,879	1,969	-	2,239
0.80	2,880	-	3,251	2,240	-	2,528
0.85	3,252	-	3,644	2,529	-	2,834
0.90	3,645	-	4,061	2,835	-	3,158
0.95	4,062	-	4,499	3,159	-	3,499
1.00		>	4,499		>	3,499

The credibility for loss cost level ratio is determined by the total number of claims for the total number of years of experience used in the review.

*The credibility underlying the calculation of the statewide indication is subject to a minimum of 5% given that there is at least one claim in the experience period.

MISSOURI
CLAIMS PER TERRITORY
LIABILITY

Territory	Trucks, Tractors & Trailers	Private Passenger Types
	Incurred Claims 5 Years Ending 03/31/2017 Combined BI and PD	Incurred Claims 5 Years Ending 03/31/2017 Combined BI and PD
102	509	122
104	696	128
105	136	34
106	625	172
108	366	54
109	273	49
110	13	2
112	724	247
116	600	102
117	402	103
125	336	72
126	188	31
127	1,586	298
128	804	178
129	1,979	393
131	35	14
132	117	98
133	2,634	850
134	161	41
135	338	100
136	202	39
137	248	28
138	206	51
SW Total	13,178	3,206

Claims for Trend

BI	PD
<u>878</u>	<u>2,923</u>

MISSOURI
CLAIMS PER TERRITORY
PHYSICAL DAMAGE

Territory	Trucks, Tractors & Trailers Paid Claims 5 Years Ending 03/31/2017		Private Passenger Types Paid Claims 5 Years Ending 03/31/2017	
	OTC	Coll	OTC	Coll
102	145	173	46	134
104	188	299	113	133
105	62	67	14	29
106	189	260	108	133
108	109	122	37	46
109	94	92	43	50
110	7	5	1	1
112	125	276	134	230
116	246	263	77	106
117	69	217	47	91
125	74	143	35	63
126	50	82	16	20
127	543	801	299	244
128	322	394	115	122
129	1,010	985	425	352
131	1	15	0	3
132	27	49	52	91
133	624	969	623	811
134	36	60	20	35
135	81	135	48	90
136	39	88	31	34
137	96	95	35	24
138	146	99	61	50
SW Total	4,283	5,689	2,380	2,892

RELATIVITIES USED TO DEVELOP MINOR CLASS AND COVERAGE LOSS COSTS

(1) Public Automobiles Liability

\$100,000 Limit Loss Costs for the Public Automobiles section have been calculated as factor derivatives off the Trucks, Tractors & Trailers Liability \$100,000 Base loss costs. The relativities used are listed below.

	Differentials to Base Loss Cost CSL Liab
Taxis and Limousines	6.20
School and Church Buses	0.55
Other Buses	3.80
Van Pools	1.50

(2) Public Automobiles Physical Damage

The relativities applied to Trucks, Tractors & Trailers physical damage revised base loss costs to develop the Public Automobile physical damage revised base loss costs are as follows:

Taxis, Limousines and Van Pools		
Other Than Collision:		1.02
Collision:		1.27
School, Church and Other Buses		
Other Than Collision:		0.70
Collision:		0.65

(3) Medical Payments Relativities

The latest multistate differentials that relate Medical Payments loss costs to the \$100,000 limit liability base loss costs are listed below.

Class of Business	Medical Payments Limit			
	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>5000</u>
Trucks, Tractors & Trailers	0.036	0.057	0.078	0.114
Van Pools	0.071	0.100	0.121	0.157
Taxis and Limousines	0.036	0.050	0.071	0.107
School and Church Buses	0.043	0.064	0.078	0.100
All Other Buses	0.032	0.039	0.050	0.068
Private Passenger Types	0.021	0.036	0.050	0.064

(4) Specified Causes of Loss Relativity

The relativity applied to the Trucks, Tractors & Trailers \$500 Deductible Comprehensive loss cost to develop the Trucks, Tractors & Trailers Specified Causes of Loss loss cost is: 0.864

(5) The loss cost for hired autos is set forth in Section D. It applies in all territories and is calculated as 0.15% of the statewide \$100,000 Combined Single Limit average loss cost for all Trucks, Tractors & Trailers.

WIND AND WATER PROCEDURE
OTHER THAN COLLISION

OBJECTIVE

Other Than Collision losses which result from the perils of Wind and Water are relatively infrequent and do not affect each year similarly. While catastrophic incidents are rare, their impact on loss cost indications can be significant. The occurrence of a weather related catastrophe can result in a large positive indication, followed by an indicated decrease when the catastrophe leaves the experience period in subsequent reviews. This ultimately leads to loss cost instability.

In order to address this ratemaking problem, the Wind and Water procedure removes the Wind and Water losses that actually occur in a given year and replaces them with an expected Wind and Water provision, based on the state's long term history of Wind and Water losses. Due to the lower credibility of catastrophic loss experience, a longer experience period or a larger body of data is necessary to compensate.

DESCRIPTION OF
WIND AND WATER
ADJUSTMENT
PROCEDURE

The Wind and Water procedure begins by comparing Wind and Water losses to non-Wind and Water losses for each year in the long term review period. Wind and Water losses have been separately identified as losses reported under the Commercial Statistical Plan (CSP) using Type of Loss (TOL) codes 06 and 07. A ratio of Wind and Water to non-Wind and Water losses is calculated for each year.

The long term 'normal' Wind and Water to non-Wind and Water ratio is determined by calculating the average of the Wind and Water to non-Wind and Water ratios for all years for which data is currently available.

The variation from the long term normal Wind and Water to non-Wind and Water ratio is then determined by calculating the difference between the normal ratio and the Wind and Water ratio for each year.

The loss adjustment required in order to bring each year of experience to a normal Wind and Water level is determined by applying the variation factor (column (5)) to the reported non-Wind and Water losses (column (3)).

The major steps of the procedure are shown in the Exhibits on the following pages.

INSURANCE SERVICES OFFICE, INC.

WIND AND WATER PROCEDURE
OTHER THAN COLLISION
MISSOURI

TRUCKS, TRACTORS, AND TRAILERS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			(2) - (1)	(1) / (3)	AVG (4) - (4)	(3) x (5)	(2) + (6)
YEAR ENDING	OTC WIND & WATER LOSSES	OTC TOTAL LOSSES	TOTAL - WIND&WATER LOSSES	WIND & WATER / NON (W&W)	VARIATION FROM AVG. WIND RATIO	WIND & WATER ADJUSTMENT	ADJ OTC TOTAL LOSSES
1987	191,879	1,297,137	1,105,258	0.174	0.135	149,210	1,446,347
1988	136,530	1,559,437	1,422,907	0.096	0.213	303,079	1,862,516
1989	113,818	1,620,192	1,506,374	0.076	0.233	350,985	1,971,177
1990	193,119	1,891,986	1,698,867	0.114	0.195	331,279	2,223,265
1991	425,926	2,377,431	1,951,505	0.218	0.091	177,587	2,555,018
1992	269,982	2,440,738	2,170,756	0.124	0.185	401,590	2,842,328
1993	272,724	1,756,541	1,483,817	0.184	0.125	185,477	1,942,018
1994	818,283	2,601,188	1,782,905	0.459	-0.150	-267,436	2,333,752
1995	378,856	2,554,660	2,175,804	0.174	0.135	293,734	2,848,394
1996	510,473	2,894,283	2,383,810	0.214	0.095	226,462	3,120,745
1997	391,859	2,902,352	2,510,493	0.156	0.153	384,105	3,286,457
1998	282,149	3,005,643	2,723,494	0.104	0.205	558,316	3,563,959
1999	1,274,202	4,549,510	3,275,308	0.389	-0.080	-262,025	4,287,485
2000	174,144	3,862,111	3,687,967	0.047	0.262	966,247	4,828,358
2001	545,768	4,400,885	3,855,117	0.142	0.167	643,805	5,044,690
2002	2,758,658	5,730,404	2,971,746	0.928	-0.619	-1,839,511	3,890,893
2003	214,374	2,464,352	2,249,978	0.095	0.214	481,495	2,945,847
2004	655,351	2,289,586	1,634,235	0.401	-0.092	-150,350	2,139,236
2005	477,565	1,783,507	1,305,942	0.366	-0.057	-74,439	1,709,068
2006	1,087,490	2,453,790	1,366,300	0.796	-0.487	-665,388	1,788,402
2007	245,572	1,834,145	1,588,573	0.155	0.154	244,640	2,078,785
2008	78,706	1,277,023	1,198,317	0.066	0.243	291,191	1,568,214
2009	684,163	1,821,366	1,137,203	0.602	-0.293	-333,200	1,488,166
2010	276,018	1,943,855	1,667,837	0.165	0.144	240,169	2,184,024
2011	330,807	2,097,038	1,766,231	0.187	0.122	215,480	2,312,518
2012	1,246,161	3,196,065	1,949,904	0.639	-0.330	-643,468	2,552,597
2013	2,267,679	4,022,398	1,754,719	1.292	-0.983	-1,724,889	2,297,509
2014	525,895	2,680,025	2,154,130	0.244	0.065	140,018	2,820,043
2015	348,501	2,707,006	2,358,505	0.148	0.161	379,719	3,086,725
2016	927,911	3,458,075	2,530,164	0.367	-0.058	-146,750	3,311,325
2017	1,331,340	4,220,312	2,888,972	0.461	-0.152	-439,124	3,781,188

(8) NORMAL WIND TO NON W&W RATIO= AVG. (4) 0.309

INSURANCE SERVICES OFFICE, INC.

WIND AND WATER PROCEDURE
OTHER THAN COLLISION
MISSOURI

PRIVATE PASSENGER TYPES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			(2) - (1)	(1) / (3)	AVG (4) - (4)	(3) x (5)	(2) + (6)
YEAR ENDING	OTC WIND & WATER LOSSES	OTC TOTAL LOSSES	TOTAL - WIND&WATER LOSSES	WIND & WATER / NON (W&W)	VARIATION FROM AVG. WIND RATIO	WIND & WATER ADJUSTMENT	ADJ OTC TOTAL LOSSES
1987	166,239	1,211,105	1,044,866	0.159	0.365	381,376	1,592,481
1988	55,969	858,497	802,528	0.070	0.454	364,348	1,222,845
1989	44,161	893,425	849,264	0.052	0.472	400,853	1,294,278
1990	135,150	1,205,097	1,069,947	0.126	0.398	425,839	1,630,936
1991	323,467	1,258,599	935,132	0.346	0.178	166,453	1,425,052
1992	105,439	1,003,651	898,212	0.117	0.407	365,572	1,369,223
1993	369,054	1,287,990	918,936	0.402	0.122	112,110	1,400,100
1994	478,667	1,407,927	929,260	0.515	0.009	8,363	1,416,290
1995	317,483	1,282,490	965,007	0.329	0.195	188,176	1,470,666
1996	322,154	1,222,041	899,887	0.358	0.166	149,381	1,371,422
1997	331,920	1,421,420	1,089,500	0.305	0.219	238,601	1,660,021
1998	148,967	1,198,189	1,049,222	0.142	0.382	400,803	1,598,992
1999	917,380	2,288,749	1,371,369	0.669	-0.145	-198,849	2,089,900
2000	78,650	1,269,861	1,191,211	0.066	0.458	545,575	1,815,436
2001	213,523	1,370,449	1,156,926	0.185	0.339	392,198	1,762,647
2002	1,734,491	2,837,601	1,103,110	1.572	-1.048	-1,156,059	1,681,542
2003	129,278	985,455	856,177	0.151	0.373	319,354	1,304,809
2004	371,601	1,218,155	846,554	0.439	0.085	71,957	1,290,112
2005	761,050	1,262,842	501,792	1.517	-0.993	-498,279	764,563
2006	683,779	1,056,718	372,939	1.833	-1.309	-488,177	568,541
2007	176,948	590,832	413,884	0.428	0.096	39,733	630,565
2008	77,262	603,303	526,041	0.147	0.377	198,317	801,620
2009	174,603	591,680	417,077	0.419	0.105	43,793	635,473
2010	172,857	886,819	713,962	0.242	0.282	201,337	1,088,156
2011	152,390	755,304	602,914	0.253	0.271	163,390	918,694
2012	595,667	1,443,656	847,989	0.702	-0.178	-150,942	1,292,714
2013	1,432,172	1,984,645	552,473	2.592	-2.068	-1,142,514	842,131
2014	224,406	844,029	619,623	0.362	0.162	100,379	944,408
2015	320,576	979,426	658,850	0.487	0.037	24,377	1,003,803
2016	672,698	1,559,823	887,125	0.758	-0.234	-207,587	1,352,236
2017	449,250	1,353,093	903,843	0.497	0.027	24,404	1,377,497

(8) NORMAL WIND TO NON W&W RATIO= AVG. (4) 0.524

EXPLANATORY MEMORANDUM FOR WIND AND WATER PROCEDURE

COLUMN (1)
OTC WIND AND
WATER LOSSES

Dollar amount of Other Than Collision losses resulting from the perils of Wind and Water (Type of Loss Codes 06 & 07).

COLUMN (2)
OTC TOTAL
LOSSES

Dollar amount of Other Than Collision losses resulting from all perils.

COLUMN (3)
OTC LOSSES
OTHER THAN
WIND AND WATER

Dollar amount of Other Than Collision losses resulting from all perils other than Wind and Water. Column (2) - Column (1).

COLUMN (4)
WIND AND WATER
TO NON-WIND AND
WATER RATIO

Ratio of Wind and Water losses to Non-Wind and Water losses.
Column (1) ÷ Column (3)

COLUMN (5)
VARIATION FROM
AVERAGE WIND
RATIO

Variation from the long term average Wind and Water to non-Wind and Water ratio.
Avg (4) - Column (4).

COLUMN (6)
WIND AND WATER
ADJUSTMENT

Wind and Water loss adjustment to bring experience to average Wind and Water level.
Column (3) * Column (5).

COLUMN (7)
ADJUSTED OTC
TOTAL LOSSES

Column (2) + Column (6).

TERRITORIAL WIND AND WATER PROCEDURE
OTHER THAN COLLISION

OBJECTIVE

The statewide Wind and Water procedure removes the actual Wind and Water losses that occur in a given year and replaces them with an expected Wind and Water provision. The territorial excess Wind and Water procedure distributes the statewide expected Wind and Water loss provision to the individual territories in proportion to each territory's long-term Wind and Water loss experience.

DESCRIPTION OF
TERRITORIAL WIND
AND WATER
PROCEDURE

The first step is to calculate long term Wind and Water to non-Wind and Water ratios by territory. The earliest year of historical Wind and Water experience available for Commercial Auto is 1987. As a new year becomes available, it is added to the procedure. For each year, the territorial ratios are calculated as Wind and Water losses divided by non-Wind and Water losses. An average is then taken of all the ratios for each territory to get the long term Wind and Water to non-Wind and Water ratio.

One potential problem with the average ratios is that a high Wind and Water ratio for one year can distort the average ratio for that territory. To mitigate the effect of unusually large ratios, the ratios are capped at 10 times the statewide median of the Wind and Water ratios before calculating the average. (The statewide median ratio is subject to a minimum value of 0.05.)

The territorial capped average Wind and Water ratios are multiplied by the latest 5 years non-Wind and Water losses for each territory to get the territorial expected Wind and Water losses. The territorial expected Wind and Water losses are divided by the statewide total expected Wind and Water losses to get the territorial expected Wind and Water distribution.

The statewide wind provision is calculated for each year from the statewide procedure by subtracting the non-Wind and Water losses from the total adjusted losses. The individual territorial Wind and Water provisions are then calculated by distributing the statewide wind provision to the territories based on the expected Wind and Water distribution.

Territorial adjusted total losses = territorial Wind and Water provision + territorial non-Wind and Water losses

Because the actual Wind and Water losses are replaced with an expected Wind and Water provision, the number of Wind and Water claims must be adjusted. The territorial Wind and Water provision is divided by the territory's average Wind and Water claim cost to produce the adjusted number of Wind and Water claims. The adjusted Wind and Water claims are added to the non-Wind and Water claims, resulting in the total adjusted claims.

A sample of the territory Wind and Water procedure is shown on the following page.

METHODOLOGY FOR CALCULATING 'WIND & WATER PROVISIONS' BY TERRITORY

In order to develop 'Wind and Water Provisions' by territory, the statewide provision is distributed using each territory's 'expected' wind and water losses. This procedure is illustrated in the following example:

Territory	(1) Long-Term Capped* Ratio of Wind & Water to Non-Wind & Water Losses	(2) Non-Wind & Water Losses for Latest Five Years	(3) 'Expected' Wind & Water Losses for Latest Five Years (1) x (2)	(4) 'Expected' Wind & Water Distribution (3) / Total (3)
A	.250	500,000	125,000	.500
B	.750	100,000	75,000	.300
C	.200	250,000	50,000	.200

Territory	(5) Statewide Wind Provision for Year 20XX **	(6) Territory Wind Provision for Year 20XX (4) x (5)	(7) Non-Wind & Water Losses for Year 20XX	(8) Adjusted Total Losses for Year 20XX (6) + (7)
A	100,000	50,000	150,000	200,000
B		30,000	50,000	80,000
C		20,000	80,000	100,000

Territory	(9) Non-Wind & Water Claims for Year 20XX	(10) Five-Year Average Wind & Water Claim Cost	(11) Adjusted Wind & Water Claims for Year 20XX (6) / (10)	(12) Total Adjusted Claims for Year 20XX (9) + (11)
A	200	500	100	300
B	100	400	75	175
C	150	400	50	200

* Average of yearly capped ratios of wind & water to non-wind & water losses, based on territory experience capped at 10 times the statewide median wind & water to non-wind & water ratio. The statewide median ratio is subject to a minimum value of 0.05.

** The Statewide Wind Provision for year 20XX = Total Adjusted Losses for Year 20XX - Non-Wind & Water Losses for Year 20XX

MISSOURI
COMMERCIAL AUTOMOBILE

SECTION D - REVISED PROSPECTIVE LOSS COSTS

Liability and Medical Payments	D2-D24
Physical Damage - All Coverages Except Garages	D25-D47
Hired Autos (Rule 90).....	D48

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 LOSS COST PAGES

MISSOURI (24)
 TERRITORY 102

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 382	\$14	\$22	\$30	\$44	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 337	\$7	\$12	\$17	\$22	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2368	\$85	\$118	\$168	\$253	N/A
– SCHOOL AND CHURCH BUSES					
\$ 210	\$9	\$13	\$16	\$21	N/A
– OTHER BUSES					
\$ 1452	\$46	\$57	\$73	\$99	N/A
– VAN POOLS					
\$ 573	\$41	\$57	\$69	\$90	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 569	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 331	\$12	\$19	\$26	\$38	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 265	\$6	\$10	\$13	\$17	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2052	\$74	\$103	\$146	\$220	N/A
– SCHOOL AND CHURCH BUSES					
\$ 182	\$8	\$12	\$14	\$18	N/A
– OTHER BUSES					
\$ 1258	\$40	\$49	\$63	\$86	N/A
– VAN POOLS					
\$ 497	\$35	\$50	\$60	\$78	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 497	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
 TERRITORY 105

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 190	\$7	\$11	\$15	\$22	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 310	\$7	\$11	\$16	\$20	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1178	\$42	\$59	\$84	\$126	N/A
– SCHOOL AND CHURCH BUSES					
\$ 105	\$5	\$7	\$8	\$11	N/A
– OTHER BUSES					
\$ 722	\$23	\$28	\$36	\$49	N/A
– VAN POOLS					
\$ 285	\$20	\$29	\$34	\$45	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 292	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 262	\$9	\$15	\$20	\$30	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 274	\$6	\$10	\$14	\$18	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1624	\$58	\$81	\$115	\$174	N/A
– SCHOOL AND CHURCH BUSES					
\$ 144	\$6	\$9	\$11	\$14	N/A
– OTHER BUSES					
\$ 996	\$32	\$39	\$50	\$68	N/A
– VAN POOLS					
\$ 393	\$28	\$39	\$48	\$62	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 408	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
TERRITORY 108

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 340	\$12	\$19	\$27	\$39	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 368	\$8	\$13	\$18	\$24	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2108	\$76	\$105	\$150	\$226	N/A
– SCHOOL AND CHURCH BUSES					
\$ 187	\$8	\$12	\$15	\$19	N/A
– OTHER BUSES					
\$ 1292	\$41	\$50	\$65	\$88	N/A
– VAN POOLS					
\$ 510	\$36	\$51	\$62	\$80	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 515	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 310	\$11	\$18	\$24	\$35	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 268	\$6	\$10	\$13	\$17	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1922	\$69	\$96	\$136	\$206	N/A
– SCHOOL AND CHURCH BUSES					
\$ 171	\$7	\$11	\$13	\$17	N/A
– OTHER BUSES					
\$ 1178	\$38	\$46	\$59	\$80	N/A
– VAN POOLS					
\$ 465	\$33	\$47	\$56	\$73	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 485	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
TERRITORY 110

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 326	\$12	\$19	\$25	\$37	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 480	\$10	\$17	\$24	\$31	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2021	\$73	\$101	\$143	\$216	N/A
– SCHOOL AND CHURCH BUSES					
\$ 179	\$8	\$11	\$14	\$18	N/A
– OTHER BUSES					
\$ 1239	\$40	\$48	\$62	\$84	N/A
– VAN POOLS					
\$ 489	\$35	\$49	\$59	\$77	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 503	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 395	\$14	\$23	\$31	\$45	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 372	\$8	\$13	\$19	\$24	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2449	\$88	\$122	\$174	\$262	N/A
– SCHOOL AND CHURCH BUSES					
\$ 217	\$9	\$14	\$17	\$22	N/A
– OTHER BUSES					
\$ 1501	\$48	\$59	\$75	\$102	N/A
– VAN POOLS					
\$ 593	\$42	\$59	\$72	\$93	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 622	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
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LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 347	\$12	\$20	\$27	\$40	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 315	\$7	\$11	\$16	\$20	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2151	\$77	\$108	\$153	\$230	N/A
– SCHOOL AND CHURCH BUSES					
\$ 191	\$8	\$12	\$15	\$19	N/A
– OTHER BUSES					
\$ 1319	\$42	\$51	\$66	\$90	N/A
– VAN POOLS					
\$ 521	\$37	\$52	\$63	\$82	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 532	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 188	\$7	\$11	\$15	\$21	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 273	\$6	\$10	\$14	\$17	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1166	\$42	\$58	\$83	\$125	N/A
– SCHOOL AND CHURCH BUSES					
\$ 103	\$4	\$7	\$8	\$10	N/A
– OTHER BUSES					
\$ 714	\$23	\$28	\$36	\$49	N/A
– VAN POOLS					
\$ 282	\$20	\$28	\$34	\$44	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 284	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
 TERRITORY 125

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 477	\$17	\$27	\$37	\$54	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 345	\$7	\$12	\$17	\$22	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2957	\$106	\$148	\$210	\$316	N/A
– SCHOOL AND CHURCH BUSES					
\$ 262	\$11	\$17	\$20	\$26	N/A
– OTHER BUSES					
\$ 1813	\$58	\$71	\$91	\$123	N/A
– VAN POOLS					
\$ 716	\$51	\$72	\$87	\$112	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 720	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 362	\$13	\$21	\$28	\$41	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 327	\$7	\$12	\$16	\$21	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2244	\$81	\$112	\$159	\$240	N/A
– SCHOOL AND CHURCH BUSES					
\$ 199	\$9	\$13	\$16	\$20	N/A
– OTHER BUSES					
\$ 1376	\$44	\$54	\$69	\$94	N/A
– VAN POOLS					
\$ 543	\$39	\$54	\$66	\$85	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 564	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
 TERRITORY 127

LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 230	\$8	\$13	\$18	\$26	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 252	\$5	\$9	\$13	\$16	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1426	\$51	\$71	\$101	\$153	N/A
– SCHOOL AND CHURCH BUSES					
\$ 127	\$5	\$8	\$10	\$13	N/A
– OTHER BUSES					
\$ 874	\$28	\$34	\$44	\$59	N/A
– VAN POOLS					
\$ 345	\$24	\$35	\$42	\$54	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 359	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 189	\$7	\$11	\$15	\$22	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 254	\$5	\$9	\$13	\$16	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1172	\$42	\$59	\$83	\$125	N/A
– SCHOOL AND CHURCH BUSES					
\$ 104	\$4	\$7	\$8	\$10	N/A
– OTHER BUSES					
\$ 718	\$23	\$28	\$36	\$49	N/A
– VAN POOLS					
\$ 284	\$20	\$28	\$34	\$45	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 304	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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MISSOURI (24)
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LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 200	\$7	\$11	\$16	\$23	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 241	\$5	\$9	\$12	\$15	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1240	\$45	\$62	\$88	\$133	N/A
– SCHOOL AND CHURCH BUSES					
\$ 110	\$5	\$7	\$9	\$11	N/A
– OTHER BUSES					
\$ 760	\$24	\$30	\$38	\$52	N/A
– VAN POOLS					
\$ 300	\$21	\$30	\$36	\$47	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 313	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 563	\$20	\$32	\$44	\$64	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 308	\$6	\$11	\$15	\$20	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 3491	\$126	\$175	\$248	\$374	N/A
– SCHOOL AND CHURCH BUSES					
\$ 310	\$13	\$20	\$24	\$31	N/A
– OTHER BUSES					
\$ 2139	\$68	\$83	\$107	\$145	N/A
– VAN POOLS					
\$ 845	\$60	\$85	\$102	\$133	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 797	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 396	\$14	\$23	\$31	\$45	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 361	\$8	\$13	\$18	\$23	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2455	\$88	\$123	\$174	\$263	N/A
– SCHOOL AND CHURCH BUSES					
\$ 218	\$9	\$14	\$17	\$22	N/A
– OTHER BUSES					
\$ 1505	\$48	\$59	\$75	\$102	N/A
– VAN POOLS					
\$ 594	\$42	\$59	\$72	\$93	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 613	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 378	\$14	\$22	\$29	\$43	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 325	\$7	\$12	\$16	\$21	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2344	\$84	\$117	\$166	\$251	N/A
– SCHOOL AND CHURCH BUSES					
\$ 208	\$9	\$13	\$16	\$21	N/A
– OTHER BUSES					
\$ 1436	\$46	\$56	\$72	\$98	N/A
– VAN POOLS					
\$ 567	\$40	\$57	\$69	\$89	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 576	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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LIABILITY	MEDICAL PAYMENTS				PERSONAL INJURY PROTECTION
Limit Of Liab. \$100,000	Limit Per Person				Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 473	\$17	\$27	\$37	\$54	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 382	\$8	\$14	\$19	\$24	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2933	\$106	\$147	\$208	\$314	N/A
– SCHOOL AND CHURCH BUSES					
\$ 260	\$11	\$17	\$20	\$26	N/A
– OTHER BUSES					
\$ 1797	\$58	\$70	\$90	\$122	N/A
– VAN POOLS					
\$ 710	\$50	\$71	\$86	\$111	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 734	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 438	\$16	\$25	\$34	\$50	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 410	\$9	\$15	\$21	\$26	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2716	\$98	\$136	\$193	\$291	N/A
– SCHOOL AND CHURCH BUSES					
\$ 241	\$10	\$15	\$19	\$24	N/A
– OTHER BUSES					
\$ 1664	\$53	\$65	\$83	\$113	N/A
– VAN POOLS					
\$ 657	\$47	\$66	\$79	\$103	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 663	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 368	\$13	\$21	\$29	\$42	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 361	\$8	\$13	\$18	\$23	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 2282	\$82	\$114	\$162	\$244	N/A
– SCHOOL AND CHURCH BUSES					
\$ 202	\$9	\$13	\$16	\$20	N/A
– OTHER BUSES					
\$ 1398	\$45	\$55	\$70	\$95	N/A
– VAN POOLS					
\$ 552	\$39	\$55	\$67	\$87	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 567	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 265	\$10	\$15	\$21	\$30	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 318	\$7	\$11	\$16	\$20	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1643	\$59	\$82	\$117	\$176	N/A
– SCHOOL AND CHURCH BUSES					
\$ 146	\$6	\$9	\$11	\$15	N/A
– OTHER BUSES					
\$ 1007	\$32	\$39	\$50	\$68	N/A
– VAN POOLS					
\$ 398	\$28	\$40	\$48	\$62	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 409	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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LIABILITY Limit Of Liab. \$100,000	MEDICAL PAYMENTS Limit Per Person				PERSONAL INJURY PROTECTION Basic Limits
	500	1000	2000	5000	
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS					
\$ 201	\$7	\$11	\$16	\$23	N/A
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS					
\$ 178	\$4	\$6	\$9	\$11	N/A
RULE 40. PUBLIC AUTO CLASSIFICATIONS –					
– TAXICABS AND LIMOUSINES					
\$ 1246	\$45	\$62	\$88	\$133	N/A
– SCHOOL AND CHURCH BUSES					
\$ 111	\$5	\$7	\$9	\$11	N/A
– OTHER BUSES					
\$ 764	\$24	\$30	\$38	\$52	N/A
– VAN POOLS					
\$ 302	\$21	\$30	\$37	\$47	N/A
RULE 49. AUTO DEALERS – PREMIUM DEVELOPMENT					
\$ 312	Refer to Rule 49.				N/A
<ul style="list-style-type: none"> • For liability increased limits factors, refer to Rule 100. • For liability fleet factors, refer to Rules 22. and 39. • Other Than Auto losses for Auto Dealers risks are subject to an aggregate limit equal to three times the liability limit. For additional limits, refer to Rule 49. 					

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 120	\$ 139	\$ 234
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 132	\$ 366
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 122	\$ 142	\$ 297
– SCHOOL AND CHURCH BUSES			
	\$ 84	\$ 97	\$ 152
– OTHER BUSES			
	\$ 84	\$ 97	\$ 152
– VAN POOLS			
	\$ 122	\$ 142	\$ 297
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 92	\$ 107	\$ 236
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 101	\$ 282
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 94	\$ 109	\$ 300
– SCHOOL AND CHURCH BUSES			
	\$ 64	\$ 75	\$ 153
– OTHER BUSES			
	\$ 64	\$ 75	\$ 153
– VAN POOLS			
	\$ 94	\$ 109	\$ 300
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 108	\$ 125	\$ 191
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 97	\$ 254
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 110	\$ 128	\$ 243
– SCHOOL AND CHURCH BUSES			
	\$ 76	\$ 88	\$ 124
– OTHER BUSES			
	\$ 76	\$ 88	\$ 124
– VAN POOLS			
	\$ 110	\$ 128	\$ 243
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 114	\$ 132	\$ 220
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 100	\$ 249
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 116	\$ 135	\$ 279
– SCHOOL AND CHURCH BUSES			
	\$ 80	\$ 92	\$ 143
– OTHER BUSES			
	\$ 80	\$ 92	\$ 143
– VAN POOLS			
	\$ 116	\$ 135	\$ 279
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 117	\$ 135	\$ 235
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 107	\$ 319
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 119	\$ 138	\$ 298
– SCHOOL AND CHURCH BUSES			
	\$ 82	\$ 95	\$ 153
– OTHER BUSES			
	\$ 82	\$ 95	\$ 153
– VAN POOLS			
	\$ 119	\$ 138	\$ 298
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 118	\$ 137	\$ 214
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 119	\$ 311
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 120	\$ 140	\$ 272
– SCHOOL AND CHURCH BUSES			
	\$ 83	\$ 96	\$ 139
– OTHER BUSES			
	\$ 83	\$ 96	\$ 139
– VAN POOLS			
	\$ 120	\$ 140	\$ 272
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 96	\$ 111	\$ 277
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 104	\$ 358
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 98	\$ 113	\$ 352
– SCHOOL AND CHURCH BUSES			
	\$ 67	\$ 78	\$ 180
– OTHER BUSES			
	\$ 67	\$ 78	\$ 180
– VAN POOLS			
	\$ 98	\$ 113	\$ 352
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 97	\$ 112	\$ 244
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 147	\$ 393
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 99	\$ 114	\$ 310
– SCHOOL AND CHURCH BUSES			
	\$ 68	\$ 78	\$ 159
– OTHER BUSES			
	\$ 68	\$ 78	\$ 159
– VAN POOLS			
	\$ 99	\$ 114	\$ 310
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 151	\$ 175	\$ 230
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 109	\$ 309
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 154	\$ 179	\$ 292
– SCHOOL AND CHURCH BUSES			
	\$ 106	\$ 123	\$ 150
– OTHER BUSES			
	\$ 106	\$ 123	\$ 150
– VAN POOLS			
	\$ 154	\$ 179	\$ 292
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 105	\$ 121	\$ 211
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 144	\$ 272
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 107	\$ 123	\$ 268
– SCHOOL AND CHURCH BUSES			
	\$ 74	\$ 85	\$ 137
– OTHER BUSES			
	\$ 74	\$ 85	\$ 137
– VAN POOLS			
	\$ 107	\$ 123	\$ 268
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 153	\$ 177	\$ 278
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 134	\$ 342
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 156	\$ 181	\$ 353
– SCHOOL AND CHURCH BUSES			
	\$ 107	\$ 124	\$ 181
– OTHER BUSES			
	\$ 107	\$ 124	\$ 181
– VAN POOLS			
	\$ 156	\$ 181	\$ 353
<ul style="list-style-type: none"> • For physical damage fleet factors, refer to Rules 22. and 39. • For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. • For Deductible factors, refer to Rule 98. • For Original Cost New and Age Group factors, refer to Rule 101. • For Stated Amount factors, refer to Rule 101. • For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
	\$ 125	\$ 145	\$ 239
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 117	\$ 284
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 128	\$ 148	\$ 304
– SCHOOL AND CHURCH BUSES			
	\$ 88	\$ 102	\$ 155
– OTHER BUSES			
	\$ 88	\$ 102	\$ 155
– VAN POOLS			
	\$ 128	\$ 148	\$ 304
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 111	\$ 128	\$ 240
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 118	\$ 250
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 113	\$ 131	\$ 305
– SCHOOL AND CHURCH BUSES			
	\$ 78	\$ 90	\$ 156
– OTHER BUSES			
	\$ 78	\$ 90	\$ 156
– VAN POOLS			
	\$ 113	\$ 131	\$ 305
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 124	\$ 144	\$ 229
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 141	\$ 255
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 126	\$ 147	\$ 291
– SCHOOL AND CHURCH BUSES			
	\$ 87	\$ 101	\$ 149
– OTHER BUSES			
	\$ 87	\$ 101	\$ 149
– VAN POOLS			
	\$ 126	\$ 147	\$ 291
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 141	\$ 163	\$ 248
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 135	\$ 239
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 144	\$ 166	\$ 315
– SCHOOL AND CHURCH BUSES			
	\$ 99	\$ 114	\$ 161
– OTHER BUSES			
	\$ 99	\$ 114	\$ 161
– VAN POOLS			
	\$ 144	\$ 166	\$ 315
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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MISSOURI (24)
 TERRITORY 131

PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 103	\$ 119	\$ 288
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 117	\$ 295
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 105	\$ 121	\$ 366
– SCHOOL AND CHURCH BUSES			
	\$ 72	\$ 83	\$ 187
– OTHER BUSES			
	\$ 72	\$ 83	\$ 187
– VAN POOLS			
	\$ 105	\$ 121	\$ 366
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 101	\$ 117	\$ 217
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 114	\$ 339
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 103	\$ 119	\$ 276
– SCHOOL AND CHURCH BUSES			
	\$ 71	\$ 82	\$ 141
– OTHER BUSES			
	\$ 71	\$ 82	\$ 141
– VAN POOLS			
	\$ 103	\$ 119	\$ 276
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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MISSOURI (24)
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PHYSICAL DAMAGE			
Original Cost New Range			
\$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 86	\$ 99	\$ 213
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 93	\$ 332
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 88	\$ 101	\$ 271
– SCHOOL AND CHURCH BUSES			
	\$ 60	\$ 69	\$ 138
– OTHER BUSES			
	\$ 60	\$ 69	\$ 138
– VAN POOLS			
	\$ 88	\$ 101	\$ 271
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 102	\$ 118	\$ 238
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 120	\$ 348
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 104	\$ 120	\$ 302
– SCHOOL AND CHURCH BUSES			
	\$ 71	\$ 83	\$ 155
– OTHER BUSES			
	\$ 71	\$ 83	\$ 155
– VAN POOLS			
	\$ 104	\$ 120	\$ 302
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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MISSOURI (24)
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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 111	\$ 129	\$ 184
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 105	\$ 414
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 113	\$ 132	\$ 234
– SCHOOL AND CHURCH BUSES			
	\$ 78	\$ 90	\$ 120
– OTHER BUSES			
	\$ 78	\$ 90	\$ 120
– VAN POOLS			
	\$ 113	\$ 132	\$ 234
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 108	\$ 125	\$ 232
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 122	\$ 320
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 110	\$ 128	\$ 295
– SCHOOL AND CHURCH BUSES			
	\$ 76	\$ 88	\$ 151
– OTHER BUSES			
	\$ 76	\$ 88	\$ 151
– VAN POOLS			
	\$ 110	\$ 128	\$ 295
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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MISSOURI (24)
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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 107	\$ 124	\$ 217
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 114	\$ 253
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 109	\$ 126	\$ 276
– SCHOOL AND CHURCH BUSES			
	\$ 75	\$ 87	\$ 141
– OTHER BUSES			
	\$ 75	\$ 87	\$ 141
– VAN POOLS			
	\$ 109	\$ 126	\$ 276
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

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PHYSICAL DAMAGE Original Cost New Range \$15,001 – 20,000			
	Specified Causes Of Loss	\$500 Ded. Comp.	\$500 Ded. Coll.
RULE 23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS			
– Local And Intermediate – All Vehicles			
– Long Distance – Light Trucks And Trailers Used With Light Trucks			
	\$ 110	\$ 127	\$ 185
RULE 32. PRIVATE PASSENGER TYPES CLASSIFICATIONS			
	N/A	\$ 111	\$ 214
RULE 40. PUBLIC AUTO CLASSIFICATIONS			
– TAXICABS AND LIMOUSINES			
	\$ 112	\$ 130	\$ 235
– SCHOOL AND CHURCH BUSES			
	\$ 77	\$ 89	\$ 120
– OTHER BUSES			
	\$ 77	\$ 89	\$ 120
– VAN POOLS			
	\$ 112	\$ 130	\$ 235
<ul style="list-style-type: none"> ● For physical damage fleet factors, refer to Rules 22. and 39. ● For additional coverages, refer to the Additional Coverages Table in Rules 23. and 40. ● For Deductible factors, refer to Rule 98. ● For Original Cost New and Age Group factors, refer to Rule 101. ● For Stated Amount factors, refer to Rule 101. ● For Towing and Labor Costs Coverage rating, refer to Rule 34. 			

90. HIRED AUTOS

Cost Of Hire Basis – All Territories Liability Base Loss Cost
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\$ 0.3541

Table 90.B.3.b.(LC) Cost Of Hire Basis Liability Loss Cost

Supplementary Information – Missouri

Introduction

This document provides additional information on the attached loss cost level experience review, including:

- A summary of recent trends in Liability claim costs
- A summary of significant factors used in the development of loss cost indications and a comparison to the factors used in the prior filing that underlie the loss costs currently in effect
- A discussion of the experience underlying the loss cost level evaluation, and how it compares to the prior review
- Issues related to Commercial Auto in Missouri

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 valid 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.

Trends in Liability Claim Costs

The table below shows the latest sixteen evaluations of 12-pt. paid claim cost trends.

Multistate Paid Claim Cost Trends

<u>Data Through</u>	<u>\$100,000 Bodily Injury</u>	<u>\$100,000 Property Damage</u>
03/31/2013	+0.4%	+5.2%
06/30/2013	+0.5%	+5.4%
09/30/2013	+0.9%	+5.5%
12/31/2013	+1.1%	+5.4%
03/31/2014	+1.4%	+4.8%
06/30/2014	+1.5%	+4.2%
09/30/2014	+1.8%	+3.7%
12/31/2014	+1.8%	+3.3%
03/31/2015	+1.5%	+3.3%
06/30/2015	+2.2%	+3.5%
09/30/2015	+1.9%	+3.7%
12/31/2015	+2.3%	+4.6%
03/31/2016	+2.9%	+4.8%
06/30/2016	+2.9%	+5.2%
09/30/2016	+2.6%	+5.5%
12/31/2016	+2.7%	+5.7%

ISO believes that bodily injury claim cost trends will primarily be driven by changes in the costs of providing medical care. At times, other factors serve to reduce (or exacerbate) the claim cost trends.

Supplementary Information – Missouri

Trends in Medical Care Costs

The table below shows the last twelve annual rates of change, based upon the CPI, for Medical Care and Hospital & Other Related Services, separately.

<u>Period</u>	<u>CPI – Medical Care Annual Rate of Change¹</u>	<u>CPI – Hospital & Other Related Services Annual Rate of Change</u>
October 2005 - September 2006	4.2%	7.3%
October 2006 - September 2007	4.6%	6.8%
October 2007 - September 2008	3.2%	6.6%
October 2008 - September 2009	3.5%	6.6%
October 2009 - September 2010	3.4%	7.3%
October 2010 - September 2011	2.8%	4.9%
October 2011 - September 2012	4.1%	4.7%
October 2012 - September 2013	2.4%	5.4%
October 2013 - September 2014	2.0%	3.5%
October 2014 - September 2015	2.5%	3.3%
October 2015 - September 2016	4.9%	5.6%
October 2016 - September 2017	1.6%	4.3%

Claim Frequencies

Historically, frequency trend for commercial auto liability has been quite variable, often cyclic in nature. As a result, an exponential curve of the form $Y=A(B^X)$ does not fit the data well over the long term. Based on earlier analyses, there had been differences in historical frequency trends between Trucks, Tractors, and Trailers (TTT) and Private Passenger Types (PPT) liability classes. In general, Commercial Auto classes had experienced an abnormally long period of negative frequency trends prior to 2010. For the most recent 6 years, however, the frequency trends have been slightly increasing (TTT BI) or somewhat cyclical and/or flat (TTT PD and PPT BI and PD) over the experience period. To reflect these recent patterns and the difficulty in predicting turning points and rates of change, frequency trend is being selected to be 0% for TTT and PPT for both the Bodily Injury and Property Damage coverages.

Claim Counts

Claim counts are now being estimated from information on the individual loss records reported to ISO, rather than the claim counts that have been reported to ISO via the statistical plans. This is being done to address company inconsistencies in interpreting ISO's claim count reporting rules.

¹ Annual Rate of Change for a particular year is calculated as the CPI index for September of that year divided by the same index for September for the previous year, minus one.

Supplementary Information – Missouri**Missouri Trends****Trucks, Tractors & Trailers and Private Passenger Types Liability**

	Current Trends <u>Data through 12/31/2016</u>	Previous Trends <u>Data through 12/31/2015</u>
Missouri Claim Cost Trends		
Bodily Injury (\$100,000 Limit)	-0.7%	+5.1%
Property Damage (\$100,000 Limit)	+8.6%	+5.9%
Credibility-Weighted Claim Cost Trends		
Bodily Injury (\$100,000 Limit)	+2.5%	+2.4%
Property Damage (\$100,000 Limit)	+6.4%	+4.9%
Selected Claim Frequency Trends		
Trucks, Tractors & Trailers		
Bodily Injury	0.0%	0.0%
Property Damage	0.0%	0.0%
Private Passenger Types		
Bodily Injury	0.0%	0.0%
Property Damage	0.0%	0.0%
Selected Pure Premium Trends		
Trucks, Tractors & Trailers		
Bodily Injury (\$100,000 Limit)	+2.5%	+2.4%
Property Damage (\$100,000 Limit)	+6.4%	+4.9%
Private Passenger Types		
Bodily Injury (\$100,000 Limit)	+2.5%	+2.4%
Property Damage (\$100,000 Limit)	+6.4%	+4.9%

Missouri bodily injury severity trend receives 5% weight when combined with multistate trend in the filing, property damage trend receives 25% weight.

If the prior trends were used to calculate the indicated changes in this document, the Truck, Tractors & Trailers Liability indication would have been +14.4% rather than +16.7%. For the Private Passenger Types coverage, the indication would have been +1.8% instead of +3.8%.

Supplementary Information – Missouri

Physical Damage Loss Trend

	<u>Coverage</u>	Current Trends	Previous Trends
		<u>Data through 12/31/2016</u>	<u>Data through 12/31/2015</u>
Trucks, Tractors & Trailers	OTC	+6.5%	+4.5%
	Collision	+5.5%	+5.5%
Private Passenger Types	OTC	+5.0%	+4.5%
	Collision	+5.0%	+4.5%

Physical Damage OCN Trend

	<u>Coverage</u>	Current Trends	Previous Trends
		<u>Data through 12/31/2016</u>	<u>Data through 12/31/2015</u>
Trucks, Tractors & Trailers	OTC	+0.9%	+0.9%
	Collision	+1.3%	+1.1%
Private Passenger Types	OTC	+1.0%	+0.8%
	Collision	+0.6%	+0.5%

The loss trend has increased by 2.0 points for Trucks, Tractors & Trailers OTC and has increased by 0.5 points for Private Passenger Types OTC. The OCN trend has remained the same for Trucks, Tractors and Trailers OTC and has increased by 0.2 points for Private Passenger Types OTC. If the prior loss and OCN trends were used, the Trucks, Tractors and Trailers and Private Passenger Types OTC indications in this document would have +7.4%, instead of +14.1%, and +8.0%, instead of +8.8%, respectively.

The loss trend has remained the same for Trucks, Tractors & Trailers collision and has increased by 0.5 points for Private Passenger Types collision. The collision OCN trend has increased by 0.2 points for Trucks, Tractors, & Trailers collision and has increased by 0.1 points for Private Passenger Types collision. If the prior loss and OCN trends were used, the Trucks, Tractors and Trailers and Private Passenger Types collision indications in this document would have been +7.5%, instead of +6.8%, and +4.8%, instead of +5.9%, respectively.

Supplementary Information – Missouri**Loss Development****Methodology**

For the Trucks, Tractors & Trailers and Private Passenger Types Liability coverages, we continue to employ a credibility-weighted combination of Missouri and multistate factors for the 15 to 27 month link ratios for BI and PD, and the 27 to 39 month link ratios for BI only. For all coverages, the "best three of five" link ratios have been used. Specifically, the highest and lowest link ratios from the latest five years of the experience have been removed from the calculation and the remaining three ratios are used to calculate the three-year average.

Factors

	<u>Current (100K)</u>	<u>Previous (100K)</u>
Trucks, Tractors and Trailers BI		
39 to Ultimate	1.078	1.071
27 to Ultimate	1.158	1.151
15 to Ultimate	1.340	1.348
Trucks, Tractors and Trailers PD		
39 to Ultimate	1.004	1.004
27 to Ultimate	1.012	1.012
15 to Ultimate	1.033	1.036
Private Passenger Types BI		
39 to Ultimate	1.064	1.050
27 to Ultimate	1.112	1.092
15 to Ultimate	1.315	1.299
Private Passenger Types PD		
39 to Ultimate	1.005	1.005
27 to Ultimate	1.012	1.012
15 to Ultimate	1.031	1.030

Supplementary Information – Missouri

Other Factors

Unallocated Loss Adjustment Expense factors:

	<u>Data through 12/31/2016</u>	<u>Data through 12/31/2015</u>
Bodily Injury	1.080	1.085
Property Damage	1.105	1.110
Physical Damage	1.140	1.150

Indicated vs. Filed Changes

An overall change of +12.6% is indicated when each of the coverage indications is weighted by its respective loss cost volume. Staff will file the indications, which reflect a 10/01/2018 proposed effective date.

Notes

- The Trucks, Tractors & Trailers Liability indication (+16.7%) is being driven by poor experience in the 3 accident years included in the review.
- The Trucks, Tractors & Trailers Other than Collision indication (+14.1) is being driven by poor experience in the 5 accident years included in the review.
- The Private Passenger Types Other than Collision indication (+8.8) is being driven by poor experience in the 2 most recent accident years included in the review.
- The Auto Dealers Liability coverage is not being reviewed this year.
- The Auto Dealers and Garagekeepers physical damage coverages are not being reviewed this year.