Financial Report June 30, 2018 and 2017



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RSM US LLP

Independent Auditor's Report

The Board of Trustees Oklahoma Schools Insurance Group

Report on the Financial Statements

We have audited the accompanying financial statements of Oklahoma Schools Insurance Group, which comprise the statements of net position, as of June 30, 2018 and 2017, and the related statements of revenues, expenses, and changes in net position, and cash flows for the years then ended; and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Oklahoma Schools Insurance Group as of June 30, 2018 and 2017, and the results of its operations and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

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Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and loss development information, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information or provide any assurance.

RSM US LLP

Oklahoma City, Oklahoma November 5, 2018

Management's Discussion and Analysis

The following Management's Discussion and Analysis (MD&A) of the activities and financial performance of Oklahoma Schools Insurance Group (OSIG) provides an introduction to the financial statements for the year ended June 30, 2018.

OSIG, established in July 2001, is an Inter-local Cooperation Act Agency of schools offering membership to public school districts in Oklahoma, with a mission to provide quality, cost effective, risk management products and services to its member school districts.

Financial and Activity Highlights

Years Ended June 30				
2018	2017	2016		
377	349	347		
(2)	28	2		
375	377	349		
\$ 26,291,720	\$ 25,448,903	\$ 23,489,304 996,598		
	2018 377 (2) 375	2018 2017 377 349 (2) 28 375 377		

During the years ended June 30, 2018, 2017, and 2016 net position increased (decreased) \$636,127, \$(1,481,313) and \$(843,474), respectively. These changes are a direct result of claim experience, the benefit of excess insurance policies protecting against large claim losses and investment income. In years ended June 30, 2018, 2017 and 2016, OSIG declared \$-0-, \$-0- and \$996,598 dividends to the members.

The school superintendents who serve on the OSIG Board of Trustees have played an integral part in the formation and critical decisions of OSIG. All member schools have a voice in OSIG. It is a school-owned program, run by its members and in business solely to serve Oklahoma schools.

OSIG operates under the open meeting act similar to school districts. OSIG has several committees comprised of school superintendents from the Board of Trustees and welcomes anyone who wants to serve on those committees. In addition to the property and casualty insurance program available to OSIG members, OSIG offers online training programs in the areas of child safety and child sexual abuse prevention and various employment practices liability issues to its member schools. Additional services may be added in the future. As of June 30, 2018, OSIG has 375 member school districts.

Board of Trustees:

- Terry Davidson—Superintendent—Comanche Public Schools
- Rick Thomas—Superintendent—Skiatook Public Schools
- Dusty Ricks—Superintendent—Mid America Technology Center
- Brad Overton—Superintendent—Cordell Schools
- Bill Seitter—Superintendent—Watonga Schools
- John Cox—Superintendent—Peggs Schools
- Sherry Durkee—Superintendent—Sand Springs Public Schools

Executive director: David Martin

Management's Discussion and Analysis

Financial and Activity Highlights (Continued)

Program administrators: Arthur J. Gallagher Risk Management Services, Inc.:

- Wally Bryce—national vice president business development
- Jay Eshelman—regional president
- Chris Mangum—area president
- Jennifer McKenzie—program manager
- Mati Jamu—assistant program manager
- Morgan McDonald senior customer service representative
- Susan Sullivan—administrative assistant
- Roger Johnson—independent loss control consultant
- Marty Martin—independent loss control consultant

Claims administrators: Alternative Service Concepts, LLC:

- Richard Hall—senior liability claims adjuster
- Glen Bynum—senior property claims adjuster
- Lacrista Medina—liability claims adjuster

Accounting and assurance services:

- Hogan and Taylor, L.L.P. (accounting services)
- RSM US LLP (audit services)

Insurance coverage and carriers:

Coverage	Insurance Company	AM BEST Financial Rating		
Buildings and contents	Alliant Property Insurance Program	A-VIIII to A++XV		
Automobile physical damage	Alliant Property Insurance Program	A-VIIII to A++XV		
Cyber liability	Alliant Property Insurance Program	A-VIIII to A++XV		
Boiler and machinery	Travelers Prop. & Casualty	A++ XV		
General liability	United Educators Ins. Co.	A IX		
Automobile liability	United Educators Ins. Co.	A IX		
Educators legal liability	United Educators Ins. Co.	A IX		
Umbrella liability	United Educators Ins. Co.	A IX		
Pollution	Illinois Union Insurance Company	A++XV		
School violent act protection	Lloyds of London	Α		
Crime	Self-funded	N/A		

Mission statement: The mission of Oklahoma Schools Insurance Group (OSIG) is to provide quality, cost effective, risk management products and services to member schools.

Management's Discussion and Analysis

Overview of the Financial Statements

This report consists of the MD&A (this part), the statements of net position, the statements of revenues, expenses and changes in net position and the statements of cash flows. These statements provide financial information on OSIG as a whole.

These statements include all assets and liabilities using the accrual basis of accounting, which is consistent with the accounting used by private-sector institutions. All of the current year's revenues and expenses are recognized when earned or incurred, regardless of when cash is received or paid. Capital assets are capitalized and depreciated over their useful lives.

This financial report is designed to provide member school districts, creditors and suppliers with a general overview of OSIG's finances.

The statements of net position: The statements of net position and the statements of revenues, expenses and changes in net position report OSIG's net position and how it has changed over the stated period. Net position, the difference between assets plus deferred outflows of resources and liabilities plus deferred inflows of resources, is one measure of OSIG's financial health or position. OSIG has no deferred outflows or inflows at June 30, 2018, 2017 or 2016. The following summarizes OSIG's assets, liabilities and net position as of June 30, 2018, 2017 and 2016:

	As of June 30					
	2018 2017 201					
Assets:						
Cash, cash equivalents and investments	\$ 24,390,499	\$ 20,276,093	\$ 21,194,784			
Reinsurance receivable	961,957	619,729	2,503,421			
Other	564,364	80,797	78,488			
Total assets	\$ 25,916,820	\$ 20,976,619	\$ 23,776,693			
Liabilities: Unpaid losses and loss adjustment expenses Prepaid member contributions Other Total liabilities	\$ 10,870,371 1,623,772 1,601,341 \$ 14,095,484	\$ 8,074,359 1,635,182 81,959 \$ 9,791,500	\$ 8,775,557 1,279,309 1,055,395 \$ 11,110,261			
Net position:						
Investment in capital assets	\$ 13	\$ 165	\$ 316			
Unrestricted	11,821,323	11,184,954	12,666,116			
Total net position	\$ 11,821,336	\$ 11,185,119	\$ 12,666,432			

Management's Discussion and Analysis

Overview of the Financial Statements (Continued)

The statements of revenues, expenses and changes in net position: The following summarizes OSIG's statements of revenues, expenses and changes in net position for the years ended June 30, 2018, 2017 and 2016:

	Years Ended June 30					
	2018 2017 2016					
Operating revenues:						
Member contributions	\$ 26,291,720	\$ 25,448,903	\$ 23,489,304			
Operating expenses:						
Losses and loss adjustment expenses	8,931,545	9,966,761	7,932,283			
Insurance premiums	11,204,265	11,652,147	10,794,487			
Agent commissions	2,631,850	2,545,495	2,373,665			
Management fees	2,103,338	2,048,853	1,879,144			
Claims administration fees	617,000	517,423	479,918			
Other expenses	298,942	287,143	323,087			
Total operating expenses	25,786,940	27,017,822	23,782,584			
Operating income (loss)	504,780	(1,568,919)	(293,280)			
Nonoperating revenues:						
Investment income	318,870	231,647	288,413			
Net change in fair value of investments	(187,433)	(144,041)	157,992			
Distributions to members		-	(996,598)			
Net nonoperating revenues	131,437	87,606	(550,193)			
Change in net position	636,217	(1,481,313)	(843,473)			
Net position at beginning of year	11,185,119	12,666,432	13,509,905			
Net position at end of year	\$ 11,821,336	\$ 11,185,119	\$ 12,666,432			

All of OSIG's operating revenue is related to the receipt of member contributions from OSIG's member school districts. OSIG's operating expenses primarily relate to insurance premiums, claims losses and loss adjustment expenses, agent commissions, management fees and claims administration fees. The non-operating revenues are comprised of investment income and the net change in fair value of investments.

Management's Discussion and Analysis

Overview of the Financial Statements (Continued)

The statements of cash flows: The primary purpose of the statements of cash flows is to provide information about the cash receipts and disbursements of an entity during a period. These statements also aid in the assessment of an entity's ability to generate future cash flows, ability to meet obligations as they come due and needs for external financing. The following summarizes OSIG's cash flows for the years ended June 30, 2018, 2017 and 2016:

Years Ended June 30					
2018	2017	2016			
		_			
\$ 3,994,314	\$ (2,069)	\$ 157,497			
-	(996,598)	-			
(3,731,662)	1,467,421	1,684			
262,652	468,754	159,181			
2.996.232	2.527.478	2,368,297			
\$ 3,258,884	\$ 2,996,232	\$ 2,527,478			
	2018 \$ 3,994,314 - (3,731,662) 262,652 2,996,232	2018 2017 \$ 3,994,314 \$ (2,069)			

OSIG's overall liquidity increased during the years ended June 30, 2018, 2017 and 2016, with a net increase to cash and cash equivalents of \$262,652, \$468,754 and \$159,181, respectively. The cash provided by or used in operating activities is primarily related to receipts of member contributions, offset by the payment of claims, insurance premiums and management expenses. Cash provided by or used in investing activities relates to net purchases and sales of investments, offset by interest and dividend income received. Cash used in financing activities relates to capital asset purchases.

Capital Asset and Debt Administration

OSIG had no significant capital asset activity and no debt administration activity during the years ended June 30, 2018, 2017 or 2016.

Economic Factors and Premium Rates

OSIG's management considered many factors when developing the annual operating budget for the fiscal year ending June 30, 2019.

The budget for the fiscal year ending June 30, 2019, was developed based upon the following key assumptions:

- Premium contributions are based upon the projected losses incurred for the previous fiscal year. These contributions are expected to increase approximately 4.1 percent from the current year.
- Investment income is projected to be less than 1.0 percent of the market value of total investments.
- Forecasted claim losses are based upon actuarial assumptions.
- Reinsurance premiums are expected to remain consistent with current levels.

Statements of Net Position June 30, 2018 and 2017

		2018		2017
Assets				
Current assets:				
Cash and cash equivalents	\$	3,258,884	\$	2,996,232
Investments		4,263,602		5,495,851
Reinsurance receivable		961,957		619,729
Accounts receivable		472,846		-
Interest receivable		51,857		42,402
Dividend receivable		27,021		25,131
Prepaid expenses		12,627		13,099
Total current assets		9,048,794		9,192,444
Noncurrent assets:				
Investments		16,868,013		11,784,010
Capital assets, net		13		165
Total assets	\$	25,916,820	\$	20,976,619
Liabilities and Net Position				
Current liabilities: Unpaid losses and loss adjustment expenses: Case reserves (less associated reinsurance recoverable of				
\$13,802,170 and \$4,705,472 at 2018 and 2017, respectively)	\$	8,918,371	\$	6,366,359
Accrued expenses	Ψ	173,376	Ψ	81,959
Prepaid member contributions		1,623,772		1,635,182
Advanced reinsurance recoveries		1,427,965		-
Total current liabilities		12,143,484		8,083,500
Noncurrent liabilities:				
Unpaid losses and loss adjustment expenses:				
Incurred but not reported (IBNR) reserves		1,952,000		1,708,000
Total liabilities		14,095,484		9,791,500
Net position:				
Investment in capital assets		13		165
Unrestricted		11,821,323		11,184,954
Total net position		11,821,336		11,185,119
Total liabilities and net position	<u>\$</u>	25,916,820	\$	20,976,619

See notes to financial statements.

Statements of Revenues, Expenses, and Changes in Net Position Years Ended June 30, 2018 and 2017

	2018	2017
Operating revenues:		
Member contributions	\$ 26,291,720	\$ 25,448,903
Operating expenses:		
Losses and loss adjustment expenses, net	8,931,545	9,966,761
Insurance premiums	11,204,265	11,652,147
Agent commissions	2,631,850	2,545,495
Management fees	2,103,338	2,048,853
Claims administration fees	617,000	517,423
Executive director expenses	105,277	99,601
Actuarial and accounting	93,973	85,961
Other	99,692	101,581
Total operating expenses	25,786,940	27,017,822
Operating income (loss)	504,780	(1,568,919)
Nonoperating revenues (expenses):		
Investment income	318,870	231,647
Net change in the fair value of investments	(187,433)	(144,041)
Net nonoperating revenues (expenses)	131,437	87,606
Change in net position	636,217	(1,481,313)
Net position at beginning of year	11,185,119	12,666,432
Net position at end of year	\$ 11,821,336	\$ 11,185,119

See notes to financial statements.

Statements of Cash Flows Years Ended June 30, 2018 and 2017

		2018		2017
Operating activities:				
Member contributions received	\$	24,656,538	\$	24,169,594
Prepaid member contributions received		1,623,772		1,635,182
Cash received from reinsurers		12,359,986		6,741,528
Cash payments for insurance premiums, claims, management				
and administrative fees and other operating expenses		(34,645,982)		(32,548,373)
Net cash provided by (used in) operating activities		3,994,314		(2,069)
Financing activities:				
Distributions paid to members		_		(996,598)
Net cash used in financing activities				(996,598)
Not cash asca in illianoning activities				(330,330)
Investing activities:				
Purchases of investments		(10,000,000)		(25,500,000)
Proceeds from maturity and sales of investments		5,998,511		26,743,404
Interest and dividend income received		269,827		224,017
Net cash provided by (used in) investing activities		(3,731,662)		1,467,421
Net change in cash and cash equivalents		262,652		468,754
Cash and cash equivalents at beginning of year		2,996,232		2,527,478
Cash and cash equivalents at end of year	\$	3,258,884	\$	2,996,232
Reconciliation of operating income (loss) to net cash				
provided by operating activities:				
Operating income (loss)	\$	504,780	\$	(1,568,919)
Adjustments to reconcile operating income (loss) to net cash	•	30 1,1 30	Ψ	(1,000,010)
provided by operating activities:				
Depreciation expense		152		151
Changes in assets and liabilities:				
Reinsurance receivable		(342,228)		1,883,692
Prepaid expenses		472		(472)
Accounts receivable		(472,846)		5,642
Accrued expenses		91,417		23,162
Advanced reinsurance recoveries		1,427,965		-
Prepaid member contributions		(11,410)		355,873
Unpaid losses and loss adjustment expenses—case reserves		,		•
and incurred but not reported (IBNR) reserves		2,796,012		(701,198)
Not each provided by (used in) encurting activities	¢	2 004 244	φ	(2.060)
Net cash provided by (used in) operating activities	Ð	3,994,314	\$	(2,069)

See notes to financial statements.

Notes to Financial Statements

Note 1. Organization and Significant Accounting Policies

Organization: Oklahoma Schools Insurance Group (OSIG) was established by an agreement with an effective date of July 1, 2001, and a duration of fifty years, unless sooner dissolved or extended. OSIG is an Interlocal Cooperation Act Agency of schools offering membership to public school districts in Oklahoma with a mission to provide quality, cost effective, risk management products and services to its members.

OSIG is governed by a seven-member Board of Trustees elected by and from representatives of its members. Trustee responsibilities include reviewing and ensuring compliance with OSIG's policies and services as contemplated in its establishing agreement and by-laws. Title to all assets acquired by OSIG is vested in it. Each participating member pays for all costs, premiums or other fees attributable to its respective participation in any plan, policy or service created in the establishing agreement and is responsible for its obligation under any contract entered into with OSIG. In the event of dissolution of OSIG, the funds and other assets not necessary to pay claims or the expenses of OSIG are to be distributed to the members in accordance with the by-laws as determined by the Board of Trustees.

Financial statement presentation: OSIG's financial statements are presented in accordance with the requirements of Governmental Accounting Standards Board (GASB) specific to enterprise fund activities. Under these requirements, OSIG is required to present a statement of net position classified between current and noncurrent assets and liabilities, a statement of revenues, expenses and changes in net position, with separate presentation for operating and nonoperating revenues and expenses and a statement of cash flows, using the direct method.

Basis of accounting: For financial reporting purposes, OSIG is considered a special-purpose government entity engaged only in business-type activities. Accordingly, OSIG's financial statements have been presented using the economic resources measurement focus and the accrual basis of accounting. Under the accrual basis, revenues are recognized when earned and expenses are recorded when an obligation has been incurred.

Cash, cash equivalents and other deposits: OSIG considers investments with original maturities of three months or less to be cash equivalents. OSIG had no cash equivalents at June 30, 2018 or 2017.

Investments: Investments, which include certificates of deposit and mortgage-backed securities obligations, are reported at fair value. Fair value is the last reported sales price at current exchange rates on a national exchange, as available, or estimated fair value as provided by the investment manager. All investments expected to be liquidated in the next fiscal year to cover claim payments are reported as current. Remaining investments are reported as noncurrent.

Allowance for doubtful accounts: Based on a review of the current status of existing receivables, OSIG's management determined that an allowance for doubtful accounts for reinsurance and accounts receivables at June 30, 2018 and 2017, was not necessary.

Unpaid losses and loss adjustment expenses: The provision for unpaid losses and loss adjustment expenses includes the estimated costs of investigating and settling all claims incurred as of the date of the statements of net position. Such amounts include estimates for case reserves and incurred but not reported (IBNR) claims and are determined on the basis of claims adjusters' evaluations and independent actuarial estimates. Unpaid losses and loss adjustment expenses are reported net of amounts that are expected to be recovered from excess carriers. Unpaid losses and loss adjustment expenses are not discounted for expected investment rates of return.

Estimates: The preparation of financial statements in conformity with accounting principles generally accepted in the United State of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Notes to Financial Statements

Note 1. Organization and Significant Accounting Policies (Continued)

Income taxes: OSIG is a public entity organized under the laws of the state of Oklahoma and, as such, is considered to be an instrumentality of a political subdivision exempt from federal income taxes under Internal Revenue Code Section 115.

Revenue recognition: Insurance contracts with members are for a one-year period beginning July 1 through June 30. Member contributions are determined on a member-by-member basis and are due at the beginning of each contract period and are recognized as revenue over the period of the contract. OSIG's program administrator calculates each member's contribution using base rates provided by OSIG's insurance carriers and factors, to include underwriting considerations, administrative expenses, claims adjustment expenses and agent commissions. Prepaid member contributions are amounts received for which coverage has not yet been provided.

Classification of revenues: OSIG has classified its revenues as either operating or nonoperating revenues. Operating revenues include transactions that constitute OSIG's principal ongoing operations, such as member contributions. Nonoperating revenues consist of other revenue sources that are defined as nonoperating revenues, such as investment income.

Custodial credit risk—deposits: Custodial credit risk is the risk that in the event of bank failure, OSIG's deposits may not be returned to it. OSIG does not have a deposit policy for custodial credit risk. As of June 30, 2018 and 2017, OSIG had fully insured cash on deposits with financial institutions of approximately \$500,000. As of June 30, 2018, approximately \$7,020,000 of OSIG's bank balance of approximately \$7,520,000 (carrying amount of approximately \$7,299,000) was uninsured and uncollateralized and therefore exposed to custodial credit risk. As of June 30, 2017, approximately \$3,095,000 of OSIG's bank balance of approximately \$3,595,000 (carrying amount of approximately \$2,996,000) was uninsured and uncollateralized and therefore exposed to custodial credit risk.

Note 2. Deposits and Investments

Custodial credit risk—investments: For an investment, custodial credit risk is the risk that OSIG will not be able to recover the value of its investments that are in the possession of its safekeeping custodians. All of OSIG's investments are held by its agent in OSIG's name. Accordingly, no investments are subject to custodial credit risk. At June 30, 2018, OSIG held 10 negotiable certificates of deposit with an original maturity exceeding three months, totaling \$5,773,838. At June 30, 2017, OSIG held 17 negotiable certificates of deposit with an original maturity exceeding three months, totaling \$4,245,873. The certificates of deposit are fully insured by the Federal Deposit Insurance Corporation (FDIC).

Credit risk: OSIG's mortgage-backed securities may contain provisions that they are callable before maturity at the option of the issuer with call dates of less than one year. The balance of the June 30, 2018 and 2017 mortgage-backed securities are in Federal Farm Credit Bank, Federal Home Loan Bank, Fannie Mae, or Freddie Mac mortgage-backed securities, which total \$15,357,777 and \$13,033,988, respectively, and are rated AA+ by Standard & Poor's.

Notes to Financial Statements

Note 2. Deposits and Investments (Continued)

Fair value hierarchy: OSIG categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the assets. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs, including quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets in markets that are not active, and other market corroborated inputs; Level 3 inputs are significant unobservable inputs. The categorization of investments within the hierarchy is based upon the pricing transparency of the instrument and should not be perceived as the particular investment's risk.

OSIG has the following Level 2 fair value of investments as of June 30, 2018 and 2017:

	2018	2017
Certificates of deposit	\$ 5,773,838	\$ 4,245,873
Mortgage-backed securities:		
Federal Farm Credit Bank	5,523,753	4,629,718
Federal Home Loan Bank	3,955,380	3,462,501
Fannie Mae	3,923,420	4,941,769
Freddie Mac	1,955,224	-
Total	\$ 21,131,615	\$ 17,279,861

Maturities of investments as of June 30, 2018, are as follows:

	Investment Maturities (In Years)						
Investment Type	Fair Value	Less Than 1	1–5		6–10	More	Than 10
Certificates of deposit	\$ 5,773,838	\$ 2,269,592	\$ 3,504,246	\$	-	\$	-
Mortgage-backed securities	15,357,777	1,994,010	13,363,767		-		-
Total	\$ 21,131,615	\$ 4,263,602	\$ 16,868,013	\$	-	\$	-

Maturities of investments as of June 30, 2017, are as follows:

		Investment Maturities (In Years)					
Investment Type	Fair Value	Less Than 1	1–5		6–10	More	Than 10
							_
Certificates of deposit	\$ 4,245,873	\$ 2,499,741	\$ 1,746,132	\$	-	\$	-
Mortgage-backed securities	13,033,988	2,996,110	10,037,878		-		-
Total	\$ 17,279,861	\$ 5,495,851	\$ 11,784,010	\$	-	\$	-

All investments expected to be liquidated in the next fiscal year to cover claim payments are reported as current in the accompanying statements of net position. Remaining investments are reported as noncurrent.

Note 2. Deposits and Investments (Continued)

Interest rate risk: OSIG does not have a formal policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. The majority of OSIG's investments are in mortgage-backed securities, which are subject to risks associated with rising interest rates.

Concentration of credit risk: OSIG does not have a formal policy that limits the amount of an investment into a single issuer. Exposure to concentration of credit risk is considered to exist when investments in any one issuer represent a significant percent of total investments of OSIG (any over 5 percent are disclosed). Investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools and other pooled investments are excluded from this consideration. As of June 30, 2018, OSIG held securities issued from the following unsecured issuers as a percentage of OSIG's total investments:

	2018	2017
Federal Farm Credit Bank	26.14%	26.79%
Federal Home Loan Bank	18.72%	20.04%
Fannie Mae	18.57%	28.60%
Freddie Mac	9.25%	0.00%

Note 3. Administrative and Other Costs

For the years ended June 30, 2018 and 2017, the Board of Trustees contracted with Arthur J. Gallagher Risk Management Services (Arthur J. Gallagher) to serve as the program administrator. Under the terms of the contract with Arthur J. Gallagher, OSIG agreed to pay Arthur J. Gallagher a fee equal to 8 percent of member contributions for the years ended June 30, 2018 and 2017. Fees paid to Arthur J. Gallagher for the years ended June 30, 2018 and 2017, totaled approximately \$2,103,000 and \$2,049,000, respectively.

For the years ended June 30, 2018 and 2017, the Board of Trustees contracted with Alternative Service Concepts LLC (ASC) to be the third-party administrator responsible for claims processing. Fees paid to ASC for the years ended June 30, 2018 and 2017, totaled approximately \$617,000 and \$517,000, respectively. OSIG also pays a 10 percent commission to each member's insurance agent, which totaled approximately \$2,632,000 and \$2,545,000 for the years ended June 30, 2018 and 2017, respectively. Additionally, OSIG contracted with David Martin to serve as OSIG's executive director. Payments to David Martin for services rendered under the contract was approximately \$91,000 during the years ended June 30, 2018 and 2017.

Note 4. Unpaid Losses and Loss Adjustment Expenses

The coverage offered by OSIG is on an occurrence basis except educators' legal liability, which is afforded to members on a claims-made basis. The liability for unpaid losses and loss adjustment expenses is estimated, based upon an evaluation of reported claims and an estimate for IBNR claims. The IBNR reserve estimates expenses related to incidents which have already occurred, but have not yet been reported as a claim, and expected future development of claims already reported. The estimate is based on a study performed by an independent actuarial service with actual claims data as of June 30, 2018 and 2017. The accuracy of these estimates cannot be determined prior to the ultimate settlement of each claim. Accordingly, the ultimate cost of settling these claims may vary significantly from the liabilities recorded at year end and may do so in the near term.

Notes to Financial Statements

Note 4. Unpaid Losses and Loss Adjustment Expenses (Continued)

There is substantial liability for any additional reported claims that could be incurred by OSIG up to the maximum liability as defined under its excess insurance contracts.

At June 30, 2018 and 2017, the liability for unpaid losses and loss adjustment expenses excludes approximately \$13,802,000 and \$4,705,000, respectively, for unpaid claims expected to be recoverable from excess carriers.

The following represents changes in the liability of unpaid losses and loss adjustment expenses for OSIG:

		Year En	nded June 30,	2018	3
	Case)			·
	Reserv	es es	IBNR		Total
Net unpaid losses and loss adjustment					
expenses at beginning of year	\$ 6,366,	359 \$	1,708,000	\$	8,074,359
Incurred losses and loss adjustment expenses:					
Provision for insured events of the current year Change in provision for insured events	7,306,	816	1,118,000		8,424,816
of prior years	1,380,	729	(874,000)		506,729
Net incurred losses and loss adjustment expenses	8,687,	545	244,000		8,931,545
Payments:					
Losses and loss adjustment expenses attributable					
to insured events of the current year Losses and loss adjustment expenses attributable	3,728,	396	-		3,728,396
to insured events of prior years	2,407,	137	-		2,407,137
Net payments	6,135,	533	-		6,135,533
Unpaid losses and loss adjustment expenses at					
end of year, net of reinsurance receivable	\$ 8,918,	371 \$	1,952,000	\$	10,870,371

The provision for unpaid losses and loss adjustment expenses increased by approximately \$507,000 in 2018 due to unfavorable development on case-basis reserves and expiration of IBNR risk on older policy years. The liability for unpaid losses and loss adjustment expenses at June 30, 2018 included approximately \$1,952,000 for IBNR claims.

Notes to Financial Statements

Note 4. Unpaid Losses and Loss Adjustment Expenses (Continued)

	Yea	r Ended June 30,	2017
	Case		
	Reserves	IBNR	Total
Net unpaid losses and loss adjustment			
expenses at beginning of year	\$ 6,777,557	\$ 1,998,000	\$ 8,775,557
Incurred losses and loss adjustment expenses:			
Provision for insured events of the current year Change in provision for insured events	8,206,717	1,040,000	9,246,717
of prior years	2,050,044	(1,330,000)	720,044
Net incurred losses and loss adjustment expenses	10,256,761	(290,000)	9,966,761
Payments:			
Losses and loss adjustment expenses attributable			
to insured events of the current year	4,862,059	-	4,862,059
Losses and loss adjustment expenses attributable			
to insured events of prior years	5,805,900	_	5,805,900
Net payments	10,667,959	-	10,667,959
Unpaid losses and loss adjustment expenses at			
end of year, net of reinsurance receivable	\$ 6,366,359	\$ 1,708,000	\$ 8,074,359

The provision for unpaid losses and loss adjustment expenses increased by approximately \$720,000 in 2017 due to unfavorable development on case-basis reserves and expiration of IBNR risk on older policy years. The liability for unpaid losses and loss adjustment expenses at June 30, 2017 included approximately \$1,708,000 for IBNR claims.

Notes to Financial Statements

Note 5. Insurance Coverage

OSIG provides its members with property damage, automobile damage, general liability, auto liability, professional liability, boiler and machinery, school violent act protection and crime and cyber liability coverages. Claims have historically been paid with funding from the annual member contributions, with claims in excess of specified thresholds covered by stop-loss insurance coverage.

Thresholds for the years ended June 30, 2018 and 2017, were as follows:

	Per	Occurrence		Aggregate
2018:	<u>-</u>			
Property and automobile damage	\$	250,000	*	N/A
Property and automobile damage—windstorm/hail		250,000	*	N/A
General, automobile and professional liability		100,000		4,061,459
	Per	Occurrence		Aggregate
2017:				
Property and automobile damage	\$	250,000	*	N/A
Property and automobile damage—windstorm/hail		250,000	*	N/A
General, automobile and professional liability		100,000		4.142.262

^{*} Property insurance per occurrence reimbursements is subject to a corridor deductible of \$1,400,000. Each claim in excess of \$250,000 first must satisfy the \$250,000 per occurrence threshold, with amounts over \$250,000 applied toward the corridor deductible. No amounts are due under the agreement until the \$1,400,000 corridor deductible is satisfied.

The stop-loss contracts do not relieve OSIG from its obligation to its members.

Stop-loss insurance was not utilized for either the boiler and machinery or crime coverage. Boiler and machinery coverage was provided through the purchase of an insurance contract with a portion of member contributions. The boiler and machinery insurance contract had a required deductible per claim of \$1,000, which was passed through to the member filing the claim. Crime coverage is self-insured by OSIG, with a maximum limit on each claim of \$10,000 and deductibles per claim of \$1,000.

During the years ended June 30, 2018 and 2017, there was a net increase in recoverable claims cost of approximately \$11,356,420 and \$4,875,836, respectively.

Note 6. Commitments and Contingencies

As discussed in Note 5, OSIG utilizes stop-loss and boiler and machinery insurance contracts to minimize its exposure on certain types of claims. Failure of the insurance carrier to honor its obligation under the insurance agreements could result in losses to OSIG. OSIG's management evaluates the financial condition of its insurance carriers to minimize its exposure to significant losses and believes the carriers presently used are financially sound and will be able to meet their contractual obligations. OSIG, through Arthur J. Gallagher, only places coverage with companies rated A-VII or better by A.M. Best, an industry-standard rating company.

Required Supplementary Information

10-Year Loss Development

The following table illustrates how OSIG's earned premium revenues and investment income (net of reinsurance) compare to related costs of loss (net of loss assumed by reinsurers) and other expenses assumed by OSIG as of the end of each of the last ten years. The rows of the table are defined as follows:

- (1) This line shows the total of each of the fiscal year's earned premium revenues and investment revenues, net of costs for reinsurance.
- (2) This line shows each fiscal year's other administrative costs of OSIG, including overhead and claims expense not allocable to individual claims.
- (3) This line shows OSIG's incurred claims and allocated claim adjustment expenses (both paid and accrued) as originally reported at the end of the first year in which the event that triggered coverage under the contract occurred (policy year).
- (4) This section shows the cumulative amounts paid as of the end of successive years for each policy year.
- (5) This line shows the latest reestimated amount of losses assumed by reinsurers for each policy year.
- (6) This section shows how each policy years' incurred claims increased or decreased as of the end of successive years. This annual reestimation results from new information received on known claims, reevaluation of existing information on known claims, as well as emergence of new claims not previously reported.
- (7) This line compares the latest reestimated incurred claims amount originally established (line 3) and shows whether this latest estimate of claims cost is greater or less than originally thought. As data for individual policy years mature, the correlation between original estimates and reestimated amounts is commonly used to evaluate the accuracy of incurred claims currently recognized in less mature policy years. The columns of the table show data for successive policy years.

(Continued)

10-Year Loss Development

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
(1) Premiums and investment revenue, as										
originally reported at end of policy year: Earned	00 400 457	\$ 25,536,509	\$ 23,935,709	ф опоодия	ф 04.000.00c	Ф 04.0E0.440	\$ 22,232,030	\$ 20,781,508	\$ 23,237,066	\$ 21,570,683
Earned \$ Ceded	26,423,157 11,204,265	\$ 25,536,509 11,652,147	\$ 23,935,709 10,794,487	\$ 25,003,145 10,588,820	\$ 24,339,336 11,660,027	\$ 21,853,448 10,626,030	\$ 22,232,030 12,323,603	\$ 20,781,508 10,552,876	\$ 23,237,066 10,594,509	\$ 21,570,683 8,983,518
Net earned	15,218,892	13,884,362	13,141,222	14,414,325	12,679,309	11,227,418	9,908,427	10,332,676	12,642,557	12,587,165
not carried	10,210,002	10,001,002	10,111,222	11,111,020	12,010,000	11,221,110	0,000,121	10,220,002	12,012,007	12,007,100
(2) Unallocated expenses, as originally										
reported at end of policy year	5,651,130	5,398,914	5,055,814	5,187,826	4,818,166	4,498,793	4,699,233	4,393,058	5,201,296	4,650,856
(3) Estimated losses and expenses, end of										
policy year:										
Incurred	14,161,187	13,551,154	8,117,000	7,628,500	5,919,500	8,073,854	8,778,575	23,038,065	18,060,860	19,097,079
Ceded	5,424,260	4,304,154	64,000	26,500	124,500	112,854	612,425	16,746,785	10,409,536	11,840,974
Net incurred	8,736,927	9,247,000	8,053,000	7,602,000	5,795,000	7,961,000	8,166,150	6,291,280	7,651,324	7,256,105
(4) Net paid (cumulative) as of:										
End of policy year	3,728,396	4,862,059	2,843,847	2,810,778	2,044,045	3,050,569	2,930,550	2,873,326	3,985,526	3,778,804
One year later		6,605,071	6,027,267	5,054,326	3,734,202	5,902,181	5,381,794	4,215,360	5,858,976	5,422,138
Two years later			6,947,359	6,305,373	5,080,503	6,236,599	5,949,150	4,736,117	5,780,460	6,420,644
Three years later				6,585,368	5,260,843	6,314,806	6,205,373	4,967,661	6,055,308	6,043,780
Four years later					5,287,810	6,338,490	6,264,951	5,016,410	6,059,982	6,282,073
Five years later						6,392,520	6,323,238	6,201,990	6,054,947	6,329,282
Six years later							6,426,126	6,212,042	6,574,266	6,384,667
Seven years later								6,216,944	6,828,356	7,144,359
Eight years later									6,845,270	7,144,284
Nine years later										7,144,234
(5) Reestimated ceded losses and expenses	5,424,260	6,850,831	2,743,796	1,641,270	860,576	1,102,317	2,328,390	-	12,918,636	11,253,214
(6) Reestimated net incurred losses and expenses:										
End of policy year	8,736,927	9,247,000	8,053,000	7,602,000	5,795,000	7,961,000	8,166,150	6,291,280	7,651,324	7,256,105
One year later		9,545,793	8,141,000	7,164,000	5,678,000	7,207,000	7,486,000	5,968,360	7,607,000	7,208,780
Two years later			8,258,607	7,561,000	5,679,000	6,752,000	6,700,000	5,437,360	6,399,460	7,365,000
Three years later				7,857,981	5,535,000	6,675,000	6,466,000	5,300,360	6,328,460	6,394,780
Four years later					5,418,352	6,567,175	6,449,000	5,223,360	6,187,460	6,416,780
Five years later						6,501,151	6,443,489	6,268,472	6,149,460	6,388,780
Six years later							6,462,489	5,119,360	6,839,518	6,384,667
Seven years later								6,254,472	6,107,460	7,144,359
Eight years later									6,870,042	6,384,667
Nine years later										7,144,234
(7) (Decrease) increase in estimated net incurred										





Estimation of Unpaid Liabilities and IBNR

Oklahoma Schools Insurance Group

March 23, 2018

Based on data evaluated as of January 31, 2018 IBNR Projected as of June 30, 2018



Estimation of Unpaid Liabilities and IBNR

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Based on data evaluated as of January 31, 2018 IBNR Projected as of June 30, 2018

Prepared by:

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Section 2	Introduction, Considerations & Definitions
Section 3	Analysis & Conclusion
Section 4	Automobile Liability
Section 5	General Liability including E&O
Section 6	Property / Auto Physical Damage

Executive Summary

The purpose of this report is to provide the Oklahoma Schools Insurance Group (OSIG) with an evaluation and projection of the losses and allocated adjustment expenses corresponding to its property and liability insurance exposures incurred through June 30, 2018. OSIG began offering automobile liability and physical damage and a variety of property and general liability insurance coverages to school districts in the State of Oklahoma beginning July 1, 2002. OSIG continues to add new members each year lending further stability to the Group. The specific objective of this analysis is to project reserves required to fund outstanding losses for the group as of June 30, 2018, based on data valued as of January 31, 2018.

Based on this analysis the results are as follows:

Projection of Required Reserves for Losses and Allocated Loss Adjustment Expenses as of June 30, 2018							
	Case Reserves	IBNR Reserves	Required Reserve				
Liability	\$4,740,000	\$1,308,000	\$6,048,000				
Property	\$2,444,000	\$507,000	\$2,951,000				
Total	\$7,184,000	\$1,815,000	\$8,999,000				

Table A summarizes the results of this analysis. Table B shows IBNR requirements at various confidence levels to aid in the selection of a risk margin. Table C shows the change in experience from the previous actuarial report.

Throughout this report the term losses will refer to loss and allocated loss adjustment expenses.



Assumptions

Unless otherwise stated, the figures in this report represent expected values. Key assumptions include:

- Paid and reported loss development factors and reported claim development factors based on OSIG's experience supplemented with Oklahoma public entity experience, are predictive of future development of claims.
- 2. Exposures written through January 31, 2018, will be unchanged through the end of the year.

Results of this Analysis

Automobile Liability

Since the previous actuarial study as of June 30, 2017, reported losses have developed about \$156,000 less than expected overall for periods through 7/1/17-18. Greater than expected development on the 14-15 and 15-16 years was more than offset by improvement on the 16-17 and 17-18 years. The net change in ultimate losses was a decrease of \$171,000.

General Liability including E&O

Since the previous actuarial study as of June 30, 2017, reported losses have developed close to expected overall. Experience by year was mixed. There was adverse some development on the years 11-12 and 14-15 through 16-17, but better than expected development on other years. The net change in ultimate losses was an increase of \$57,000.

Combined Liability Reserves

The total ultimate losses for liability losses from 7/1/02-03 through 7/1/17-18 are \$33,578,000. Of this amount \$27,530,000 is expected to be paid by June 30, 2017, leaving \$6,048,000 in total outstanding losses. The case reserves are estimated to be \$4,740,000 and the IBNR reserves are \$1,308,000. The IBNR at the 75th percentile is \$1,813,000.

Property and Auto Physical Damage

Since the previous actuarial study as of June 30, 2017, reported losses have developed greater than expected overall. There was some adverse development on the 16-17 and 17-18 years. There was a claim from late 16-17 that has now reached the \$250,000. So far in 17-18 we have two claims that have exceed the \$250,000 SIR including one claim over \$5,000,000. This claim will exhaust the \$1,400,000 corridor. In total, the net



change in ultimate losses through the 17-18 year is an increase of \$849,000.

The total outstanding losses for property and APD claims is estimated to be \$2,951,000, including \$2,444,000 and \$507,000 in IBNR. The IBNR at the 75th percentile is \$976,000. The IBNR is almost entirely associated with losses within the SIR, since the corridor has already been reached for three out of the last four policy years.

Estimated Outstanding Losses for Liability Projected As of June 30, 2018

		(A) Estimated	(B) Projected	(C) Projected	(D)	(E)	(F)
Accident		Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Coverage	Losses	Losses	Losses	Reserves	Losses	Losses
Feriou	Coverage	LUSSES	LUSSES	LUSSES	Neserves	LUSSES	LUSSES
2002/03	AL	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
2003/04	AL	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
2004/05	AL	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
2005/06	AL	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
2006/07	AL	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
2007/08	AL	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
2008/09	AL	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
2009/10	AL	\$706,000	\$693,000	\$706,000	\$13,000	\$0	\$13,000
2010/11	AL	\$843,000	\$843,000	\$843,000	\$0	\$0	\$0
2011/12	AL	\$974,000	\$956,000	\$974,000	\$18,000	\$0	\$18,000
2012/13	AL	\$626,000	\$626,000	\$626,000	\$0	\$0	\$0
2013/14	AL	\$703,000	\$683,000	\$702,000	\$19,000	\$1,000	\$20,000
2014/15	AL	\$1,174,000	\$965,000	\$1,168,000	\$203,000	\$6,000	\$209,000
2015/16	AL	\$1,158,000	\$976,000	\$1,140,000	\$164,000	\$18,000	\$182,000
2016/17	AL	\$1,166,000	\$929,000	\$1,103,000	\$174,000	\$63,000	\$237,000
2017/18	AL	\$1,143,000	\$536,000	\$974,000	\$438,000	\$169,000	\$607,000
		\$12,703,106	\$11,417,106	\$12,446,106	\$1,029,000	\$257,000	\$1,286,000
2002/03	GL/E&O	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
2003/04	GL/E&O	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
2004/05	GL/E&O	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
2005/06	GL/E&O	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
2006/07	GL/E&O	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
2007/08	GL/E&O	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
2008/09	GL/E&O	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
2009/10	GL/E&O	\$1,294,000	\$1,277,000	\$1,293,000	\$16,000	\$1,000	\$17,000
2010/11	GL/E&O	\$1,842,000	\$1,811,000	\$1,839,000	\$28,000	\$3,000	\$31,000
2011/12	GL/E&O	\$1,495,000	\$1,478,000	\$1,491,000	\$13,000	\$4,000	\$17,000
2012/13	GL/E&O	\$886,000	\$779,000	\$880,000	\$101,000	\$6,000	\$107,000
2013/14	GL/E&O	\$844,000	\$753,000	\$831,000	\$78,000	\$13,000	\$91,000
2014/15	GL/E&O	\$1,885,000	\$1,452,000	\$1,834,000	\$382,000	\$51,000	\$433,000
2015/16	GL/E&O	\$2,200,000	\$1,373,000	\$2,067,000	\$694,000	\$133,000	\$827,000
2016/17	GL/E&O	\$2,402,000	\$769,000	\$2,120,000	\$1,351,000	\$282,000	\$1,633,000
2017/18	GL/E&O	\$1,730,000	\$124,000	\$1,172,000	\$1,048,000	\$558,000	\$1,606,000
		\$20,874,996	\$16,112,996	\$19,823,996	\$3,711,000	\$1,051,000	\$4,762,000

Total Liability Losses Limited to Policy Aggregate Stop Loss Ultimate Limited Limited Limited Paid Reported **IBNR** Outstanding Accident Aggregate Case Limit Period Losses Losses Losses Reserves Losses Losses Prior Years \$10,507,103 \$10,507,103 \$10,507,103 \$0 \$0 \$0 \$30,000 2009/10 \$3,549,580 \$2,000,000 \$1,970,000 \$1,999,000 \$29,000 \$1,000 2010/11 \$3,869,920 \$2,685,000 \$2,654,000 \$2,682,000 \$28,000 \$3,000 \$31,000 2011/12 \$3.416.075 \$2,469,000 \$2,434,000 \$2,465,000 \$31,000 \$4,000 \$35,000 2012/13 \$2,788,172 \$1,512,000 \$1,405,000 \$1,506,000 \$101,000 \$6,000 \$107,000 2013/14 \$3,473,373 \$1,547,000 \$1,436,000 \$1,533,000 \$97,000 \$14,000 \$111,000 2014/15 \$3,994,646 \$3,059,000 \$2,417,000 \$3,002,000 \$585,000 \$57,000 \$642,000

Total \$33,578,000 \$27,530,000 \$32,270,000 \$4,740,000 \$1,308,000 \$6,048,000

\$3,207,000

\$3,223,000 \$1,525,000

\$2,146,000 \$1,486,000

\$858,000

\$151,000 \$1,009,000

\$345,000 \$1,870,000

\$727,000 \$2,213,000

\$2,349,000

\$1,698,000

\$660,000

2015/16

2016/17

2017/18

\$3,969,122

\$4,142,262

\$4,091,969

\$3,358,000

\$3,568,000

\$2,873,000

Liability (AL & GL Combined)

Percentile Distribution of IBNR For Liability Coverages Projected As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve
Expected	\$33,578,000	\$1,308,000
20%	\$32,564,000	\$294,000
30%	\$32,881,000	\$611,000
40%	\$33,147,000	\$877,000
50%	\$33,396,000	\$1,126,000
60%	\$33,656,000	\$1,386,000
70%	\$33,929,000	\$1,659,000
75%	\$34,083,000	\$1,813,000
80%	\$34,258,000	\$1,988,000
85%	\$34,447,000	\$2,177,000
90%	\$34,707,000	\$2,437,000
Total Expected Ultimate L	osses	\$33,578,000
Total Projected Paid Loss	es as of 06/30/18	\$27,530,000
Total Projected Case Res	erves as of 06/30/18	\$4,740,000
Total Projected IBNR Res	erves as of 06/30/18	\$1,308,000
Total Projected Outstandi		\$6,048,000

Figures in this Table are limited to Aggregate Stop Loss Limits

Comparison of Results with Previous Estimates as of 06/30/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Expected	Actual	(-/	Expected	Actual	(-)
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
2002/03	\$233,996	\$233,996	\$233,996	0.0%	\$233,996	\$233,996	0.0%
2003/04	\$1,197,571	\$1,197,571	\$1,197,571	0.0%	\$1,197,571	\$1,197,571	0.0%
2004/05	\$1,107,309	\$1,107,309	\$1,107,309	0.0%	\$1,107,309	\$1,107,309	0.0%
2005/06	\$1,704,377	\$1,704,377	\$1,704,377	0.0%	\$1,704,377	\$1,704,377	0.0%
2006/07	\$1,488,442	\$1,488,442	\$1,488,442	0.0%	\$1,488,442	\$1,488,442	0.0%
2007/08	\$2,192,521	\$2,192,521	\$2,192,521	0.0%	\$2,192,521	\$2,192,521	0.0%
2008/09	\$2,582,887	\$2,582,887	\$2,582,887	0.0%	\$2,582,887	\$2,582,887	0.0%
2009/10	\$1,998,584	\$2,000,602	\$1,998,584	-0.1%	\$2,004,000	\$2,000,000	-0.2%
2010/11	\$2,681,419	\$2,687,618	\$2,681,419	-0.2%	\$2,698,000	\$2,685,000	-0.5%
2011/12	\$2,408,030	\$2,414,633	\$2,462,911	2.0%	\$2,425,000	\$2,469,000	1.8%
2012/13	\$1,513,681	\$1,523,323	\$1,503,662	-1.3%	\$1,538,000	\$1,512,000	-1.7%
2013/14	\$1,595,530	\$1,612,509	\$1,527,007	-5.3%	\$1,639,000	\$1,547,000	-5.6%
2014/15	\$2,724,041	\$2,777,047	\$2,979,812	7.3%	\$2,869,000	\$3,059,000	6.6%
2015/16	\$2,924,451	\$3,050,566	\$3,149,754	3.3%	\$3,274,000	\$3,358,000	2.6%
2016/17	\$2,848,835	\$3,085,301	\$3,094,546	0.3%	\$3,527,000	\$3,568,000	1.2%
2017/18		\$1,426,306	\$931,272	-34.7%	\$3,211,000	\$2,873,000	-10.5%
Total	¢20,204,672	¢24 005 000	#20 926 060	-0.8%	#22 602 102	#22 E70 402	-0.3%
Total	\$29,201,672	\$31,085,008	\$30,836,069	-0.8%	\$33,692,103	\$33,578,103	-0.3%
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Expected	Actual	(D)	Expected	Actual	(G)
		Expected Paid	Actual Paid		Expected Ultimate	Actual Ultimate	
Accident	Actual Paid Losses	Expected Paid Losses	Actual Paid Losses	Percent	Expected Ultimate Losses	Actual Ultimate Losses	Percent
Accident Period	Actual Paid	Expected Paid	Actual Paid		Expected Ultimate	Actual Ultimate	
Period	Actual Paid Losses 6/30/2017	Expected Paid Losses 1/31/2018	Actual Paid Losses 1/31/2018	Percent Difference	Expected Ultimate Losses 6/30/2017	Actual Ultimate Losses 1/31/2018	Percent Difference
Period 2002/03	Actual Paid Losses 6/30/2017 \$233,996	Expected Paid Losses 1/31/2018 \$233,996	Actual Paid Losses 1/31/2018 \$233,996	Percent Difference	Expected Ultimate Losses 6/30/2017	Actual Ultimate Losses 1/31/2018	Percent Difference
Period 2002/03 2003/04	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571	Percent Difference 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571	Percent Difference 0.0% 0.0%
Period 2002/03 2003/04 2004/05	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309	Percent Difference 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309	Percent Difference 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377	Percent Difference 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377	Percent Difference 0.0% 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06 2006/07	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000 \$1,512,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315 \$1,364,666	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749 \$1,478,700	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673 \$1,385,257	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9% -6.3%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000 \$1,639,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000 \$1,512,000 \$1,547,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7% -5.6%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315 \$1,364,666 \$1,893,356	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749 \$1,478,700 \$2,288,800	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673 \$1,385,257 \$2,119,657	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9% -6.3% -7.4%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000 \$1,639,000 \$2,869,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000 \$1,512,000 \$1,547,000 \$3,059,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7% -5.6% 6.6%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315 \$1,364,666 \$1,893,356 \$1,605,566	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749 \$1,478,700 \$2,288,800 \$2,123,302	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673 \$1,385,257 \$2,119,657 \$1,967,924	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9% -6.3% -7.4% -7.3%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000 \$1,639,000 \$2,869,000 \$3,274,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000 \$1,512,000 \$1,547,000 \$3,059,000 \$3,358,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7% -5.6% 6.6% 2.6%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16 2016/17	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315 \$1,364,666 \$1,893,356	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749 \$1,478,700 \$2,288,800 \$2,123,302 \$1,273,630	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673 \$1,385,257 \$2,119,657 \$1,967,924 \$1,314,443	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9% -6.3% -7.4% -7.3% 3.2%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000 \$1,639,000 \$2,869,000 \$3,274,000 \$3,527,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,469,000 \$1,512,000 \$1,547,000 \$3,059,000 \$3,358,000 \$3,568,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7% -5.6% 6.6% 2.6% 1.2%
Period 2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16	Actual Paid Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,958,314 \$2,642,570 \$2,304,749 \$1,309,315 \$1,364,666 \$1,893,356 \$1,605,566	Expected Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,975,178 \$2,662,256 \$2,353,365 \$1,400,749 \$1,478,700 \$2,288,800 \$2,123,302	Actual Paid Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$1,959,433 \$2,643,180 \$2,418,812 \$1,359,673 \$1,385,257 \$2,119,657 \$1,967,924	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.8% -0.7% 2.8% -2.9% -6.3% -7.4% -7.3%	Expected Ultimate Losses 6/30/2017 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,004,000 \$2,698,000 \$2,425,000 \$1,538,000 \$1,639,000 \$2,869,000 \$3,274,000	Actual Ultimate Losses 1/31/2018 \$233,996 \$1,197,571 \$1,107,309 \$1,704,377 \$1,488,442 \$2,192,521 \$2,582,887 \$2,000,000 \$2,685,000 \$2,469,000 \$1,512,000 \$1,547,000 \$3,059,000 \$3,358,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.5% 1.8% -1.7% -5.6% 6.6% 2.6%

⁽A) and (E) - From Previous actuarial report as of 06/30/17

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

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Estimated Outstanding Losses for Property Including APD Projected As of June 30, 2018

			(A)	(B)	(C)	(D)	(E)	(F)
				Projected	Projected			
			Estimated	Limited	Limited	Limited	Limited	Limited
Accident			Ultimate	Paid	Reported	Case	Unreported	Outstanding
Period	Coverage	SIR	Losses	Losses	Losses	Reserves	Losses	Losses
2002/03	Prop/APD	\$100K/\$200k	\$312,045	\$312,045	\$312,045	\$0	\$0	\$0
2003/04	Prop/APD	\$100K/\$200k	\$1,287,169	\$1,287,169	\$1,287,169	\$0	\$0	\$0
2004/05	Prop/APD	\$100K/\$200k	\$1,266,993	\$1,266,993	\$1,266,993	\$0	\$0	\$0
2005/06	Prop/APD	\$100K/\$200k	\$2,616,997	\$2,616,997	\$2,616,997	\$0	\$0	\$0
2006/07	Prop/APD	\$100K/\$200k	\$2,604,514	\$2,604,514	\$2,604,514	\$0	\$0	\$0
2007/08	Prop/APD	\$100K/\$200k	\$3,915,481	\$3,915,481	\$3,915,481	\$0	\$0	\$0
2008/09	Prop/APD	\$100K/\$200k	\$4,561,347	\$4,561,347	\$4,561,347	\$0	\$0	\$0
2009/10	Prop/APD	\$100K/\$200k	\$4,870,042	\$4,870,042	\$4,870,042	\$0	\$0	\$0
2010/11	Prop/APD	\$100K/\$200k	\$3,569,472	\$3,569,472	\$3,569,472	\$0	\$0	\$0
			\$25,004,059	\$25,004,059	\$25,004,059	\$0	\$0	\$0

	Losses Limited To Policy Aggregate Stop Loss										
	Aggregate		Limited	Limited	Limited						
Accident	Stop Loss		Ultimate	Paid	Reported	Case	IBNR	Outstanding			
Period	Limit	SIR	Losses	Losses	Losses	Reserves	Losses	Losses			
2002/03	\$976,411	\$100K/\$200k	\$312,045		\$312,045	\$0	\$0	\$0			
2003/04	\$1,896,000	\$100K/\$200k	\$1,287,169	\$1,287,169	\$1,287,169	\$0	\$0	\$0			
2004/05	\$2,642,791	\$100K/\$200k	\$1,266,993	\$1,266,993	\$1,266,993	\$0	\$0	\$0			
2005/06	\$3,520,373	\$100K/\$200k	\$2,616,997	\$2,616,997	\$2,616,997	\$0	\$0	\$0			
2006/07	\$4,107,199	\$100K/\$200k	\$2,604,514	\$2,604,514	\$2,604,514	\$0	\$0	\$0			
2007/08	\$3,938,538	\$100K/\$200k	\$3,915,481	\$3,915,481	\$3,915,481	\$0	\$0	\$0			
2008/09	\$3,801,780	\$100K/\$200k	\$3,801,780	\$3,801,780	\$3,801,780	\$0	\$0	\$0			
2009/10	\$4,103,460	\$100K/\$200k	\$4,103,460	\$4,103,460	\$4,103,460	\$0	\$0	\$0			
2010/11	\$2,421,360	\$100K/\$200k	\$2,421,360	\$2,421,360	\$2,421,360	\$0	\$0	\$0			
2011/12	\$250,000 /\$	2.7M corridor	\$4,018,489	\$4,018,489	\$4,018,489	\$0	\$0	\$0			
2012/13	\$250,000 /\$	2.4M corridor	\$5,029,175	\$5,029,175	\$5,029,175	\$0	\$0	\$0			
2013/14	\$250,000 /\$	1.4M corridor	\$3,895,352	\$3,895,352	\$3,895,352	\$0	\$0	\$0			
2014/15	\$250,000 /\$	1.4M corridor	\$4,678,000	\$4,486,527	\$4,669,469	\$182,942	\$9,000	\$191,000			
2015/16	\$250,000 /\$	1.4M corridor	\$4,837,000	\$4,764,861	\$4,811,199	\$46,339	\$26,000	\$72,000			
2016/17	\$250,000 /\$	1.4M corridor	\$5,920,000	\$5,285,493	\$5,816,737	\$531,244	\$103,000	\$635,000			
2017/18	\$250,000 /\$	1.4M corridor	\$6,351,000	\$4,297,985	\$5,981,504	\$1,683,519	\$369,000	\$2,053,000			
Total			\$57,059,000	\$54,108,000	\$56,552,000	\$2,444,000	\$507,000	\$2,951,000			

Estimated Outstanding Losses SIR Losses versus Corridor Projected As of June 30, 2018

			(A)	(B)	(C)	(D)	(E)	(F)
				Projected	Projected	,, ,	, ,	,,
1			Estimated	Limited	Limited	Limited	Limited	Limited
Accident	- · -		Ultimate	Paid	Reported	Case	Unreported	Outstanding
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses
Stop Loss Ye	ars Total		\$22,329,798	\$22,329,798	\$22,329,798	\$0	\$0	\$0
SIR Losses								
2011/12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
2012/13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
2013/14	\$250,000		\$2,495,352	\$2,495,352	\$2,495,352	\$0	\$0	\$0
2014/15	\$250,000		\$3,491,913	\$3,418,995	\$3,491,913	\$72,918	\$0	\$73,000
2015/16	\$250,000		\$3,437,000	\$3,364,861	\$3,411,199	\$46,339	\$26,000	\$72,000
2016/17	\$250,000		\$4,520,000	\$3,885,493	\$4,416,737	\$531,244	\$103,000	\$635,000
2017/18	\$250,000		\$4,951,000	\$2,897,985	\$4,581,504	\$1,683,519	\$369,000	\$2,053,000
Corridor Loss	ses							
2011/12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
2012/13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
2013/14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
2014/15		\$1,400,000	\$1,186,087	\$1,067,532	\$1,177,557	\$110,024	\$9,000	\$118,000
2015/16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
2016/17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
2017/18		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
Total			\$57,059,000	\$54,108,000	\$56,552,000	\$2,444,000	\$507,000	\$2,951,000

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Percentile Distribution of IBNR For Property Coverages Projected As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve
Expected	\$57,059,000	\$507,000
20%	\$56,367,000	-\$185,000
30%	\$56,600,000	\$48,000
40%	\$56,812,000	\$260,000
50%	\$57,000,000	\$448,000
60%	\$57,196,000	\$644,000
70%	\$57,413,000	\$861,000
75%	\$57,528,000	\$976,000
80%	\$57,661,000	\$1,109,000
85%	\$57,821,000	\$1,269,000
90%	\$58,040,000	\$1,488,000
Total Expected Ultimate L	\$57,059,000	
Total Projected Paid Loss	\$54,108,000	
Total Projected Case Res	\$2,444,000	
Total Projected IBNR Res	\$507,000	
Total Projected Outstandi	\$2,951,000	

Figures in this Table are limited to Aggregate Stop Loss Limits

Comparison of Results with Previous Estimates as of 06/30/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
0000/02	#240.04	#240.04 5	#242.045	0.00/	#240.04 5	#242.045	0.00/
2002/03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	0.0%
2003/04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	0.0%
2004/05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	0.0%
2005/06	\$2,618,047	\$2,618,047	\$2,616,997	0.0%	\$2,618,692	\$2,616,997	-0.1%
2006/07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	0.0%
2007/08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	0.0%
2008/09	\$4,561,397	\$4,561,397	\$4,561,347	0.0%	\$4,561,472	\$4,561,347	0.0%
2009/10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,835,518	\$4,870,042	0.7%
2010/11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	0.0%
2011/12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	0.0%
2012/13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	0.0%
2013/14	\$3,896,177	\$3,896,131	\$3,895,352	0.0%	\$3,896,000	\$3,895,352	0.0%
2014/15	\$4,662,017	\$4,672,133	\$4,662,027	-0.2%	\$4,692,000	\$4,678,000	-0.3%
2015/16	\$4,830,061	\$4,848,285	\$4,794,734	-1.1%	\$4,867,000	\$4,837,000	-0.6%
2016/17	\$5,357,883	\$5,669,649	\$5,751,577	1.4%	\$5,720,000	\$5,920,000	3.5%
2017/18		\$2,090,053	\$4,061,279	94.3%	\$5,673,000	\$6,351,000	12.0%
Total	\$52,798,959	\$55,229,074	\$57,216,691	3.6%	\$58,867,019	\$59,733,074	1.5%

⁽A) and (E) - From Previous actuarial report as of 06/30/2017 Losses below \$250,000 SIR plus Corridor Losses for 11-12 through 16-17

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Introduction

Select Actuarial Services has prepared this report for Oklahoma Schools Insurance Group at the request of Ms. Jennifer McKenzie, Arthur J. Gallagher Risk Services. The specific objective of this report is to estimate ultimate and outstanding losses and allocated adjustment expenses for OSIG's property and liability experience through June 30, 2018, using data valued as of January 31, 2018.

This report is an actuarial analysis of data, conditions, and practices communicated as of March 1, 2018, to Select Actuarial Services as described in the section entitled "Considerations." While Select Actuarial Services believes these communications to be reliable, it has not attempted to audit the information and cannot guarantee the accuracy of any information supplied. However, the data have been reviewed for reasonableness and consistency through comparison with the data used in previous actuarial reports. The estimates in this report are based upon appropriate actuarial assumptions and procedures described in the section of this report entitled "Analysis." Select Actuarial Services assumes no responsibility for any loss or damage that might arise from the use of or reliance upon this report other than for the purposes set forth herein.

This report was prepared for the use of and is only to be relied upon by the management of Oklahoma Schools Insurance Group. This report also may be provided to OSIG's auditors and insurance brokers. No portion of the report may be provided to any other party without Select Actuarial Services' prior written consent. In the event such consent is provided, the report must be provided in its entirety. We recommend that any such party have its own actuary review this report to ensure that the party understands the assumptions and uncertainties inherent in our estimates.

Laura Sprouse is a Fellow of the Casualty Actuarial Society and a Member of the American Academy of Actuaries. She meets the Qualification Standards of the American Academy of Actuaries to render actuarial opinions for property/casualty reserves. This report is prepared in accordance with Actuarial Standards of Practice No. 36 and 43.



Considerations

Actuarial methods for performing a reserve evaluation can only be identified in light of the coverage involved, claims information available, and other considerations. Key considerations motivating the selection of techniques employed in this analysis are set forth below.

Coverages

OSIG began writing automobile liability and physical damage, property and other liability coverage for school districts in the State of Oklahoma on July 1, 2002. For liability claims OSIG retains \$100,000 (loss and ALE combined) above the member deductibles, which vary by member by year. OSIG is further protected by aggregate coverage. These aggregate retentions are shown in Table A for liability.

OSIG retained \$100,000 in losses plus all expenses for most property claims for years through 7/1/10-11. Wind/hail claims were subject to a \$200,000 retention. Property losses over multiple school districts due to the same storm are considered a single occurrence. OSIG also had aggregate protection or stop loss limits for policy years through 7/1/10-11.

Beginning with the 7/1/11-12 policy year the property coverage has been restructured to include a corridor deductible for losses in excess of \$250,000 per claim. Also, the \$250,000 SIR is applied to ground up losses of all types of perils so that OSIG retains \$250,000 less the member deductibles. The corridor deductible has varied in size and is currently \$1,400,000.

	Liability SIR	Property SIR	Property Corridor
7/1/02-6/30/11	\$100,000	\$200k wind/hail	NA
		\$100k AOP	
7/1/11-12	\$100,000	\$250,000 all perils	\$2,700,000
7/1/12-13	\$100,000	\$250,000 all perils	\$2,400,000
7/1/13-14 through 7/1/17-18	\$100,000	\$250,000 all perils	\$1,400,000

Available Data

Jennifer McKenzie provided a loss listing as of January 31, 2018, which served as the basis for our analysis. The loss listing reflects amounts above the member deductibles and includes both losses and allocated adjustment expenses. "Losses" and "losses and allocated adjustment expenses" are used interchangeably in this report. Losses were provided by coverage



type: automobile liability, auto physical damage, general liability and E&O, and property. Vehicle counts, Student population and Total Insured Values for each member were also provided.

Development and Reporting Patterns

Since annual evaluations of OSIG data are available, we have used this historical experience to build loss development triangles to observe OSIG's own development experience. This experience is still somewhat sparse, and displays volatility from year to year. Thus, we have weighted OSIG experience with a benchmark pattern based on Oklahoma public entity experience. Accordingly, the development factors used reflect the application of the Oklahoma tort claims act.

For property and APD claims we have calculated development factors for unlimited losses, as well as for losses capped to \$250,000 for pure losses.

Actuarial Central Estimate

The estimates of ultimate losses at the "expected" level in this analysis are actuarial central estimates - estimates that represent an expected value over the range of reasonably possible outcomes. Such a range of reasonably possible outcomes may not include all conceivable outcomes. For example, it would not include conceivable extreme events where the contribution of such events to an expected value estimate is not reliably measurable.

Loss Models

Statistical distributions are often used by the insurance industry to model the loss generating process. A lognormal distribution is selected for each policy year and line of business. The parameters for these distributions are based on the variation in the reported loss development triangles. The distributions for all years are combined using a Monte Carlo simulation. This process randomly generates 10,000 sample years. The confidence levels for the IBNR estimate are based on these outcomes.

Subrogation and Recoveries

Subrogation and recoveries are assumed to be reflected in the primary loss reports. Accordingly, no explicit reductions for collateral sources have been incorporated into the estimates.



Definitions

Accident Period: All of the events with occurrence dates during a period specified make up the corresponding accident period. The dollars associated with those events total the accident period's losses, even though they may be paid long after the end of the accident period. Losses are grouped by accident period throughout our analyses.

Ultimate Losses: The total amount that will eventually be paid on all losses for a particular accident period. Our estimate of the ultimate losses for an accident period is the sum of the paid losses, the case reserves, and the IBNR reserve.

Paid Losses: Dollars paid as of the latest available evaluation on losses incurred through the latest available evaluation.

Case Reserves: Reserves established on individual claims by the claims adjusters, as of the latest available evaluation. The case reserve plus the amount paid to date represents the adjuster's best estimate of the ultimate value of a particular claim.

Reported Losses: Paid losses plus case reserves as of the latest available evaluation.

IBNR Reserve: ("Incurred **B**ut **N**ot **R**eported") This is the dollar amount which we have estimated will be added to the reported losses between the date when the losses were compiled and final settlement of all claims for the accident period. Some of these additional dollars will be added to claims which are already known and currently open but which will finally cost more than they are currently reserved for. Other of these dollars are associated with claims which are known and closed but will be reopened before final closure. The balance of the IBNR reserve is for late-reported events

Outstanding Losses: The losses not yet paid. Outstanding losses equal the difference between the ultimate losses and the paid losses. They are also the sum of the case reserves and the IBNR reserve.

Loss Development: The change in the paid losses or the reported losses over time. As more information is provided, individual claim estimates get closer and closer to the ultimate value of the claims. The increase in the total reported losses through time is the reported loss development. Similarly, as losses are paid out over time, the increase in total paid losses is the paid loss development.



Analysis

Actuarial procedures employed to project ultimate and outstanding losses consist of a number of steps. Exhibits representing the various steps in the process are explained in this section of the report. The procedures used to analyze the automobile liability, general liability and E&O, and property & auto physical damage coverages are analogous except where noted.

Exhibit I

Exhibit I displays paid and reported losses as of January 31, 2018. Claims are grouped by occurrence, and claims with no payment are excluded.

Exhibit II

Exhibit II displays a listing of all occurrences which, after the application of development factors, exceed the retention in effect during each claim's accident period. The amount of paid and reported losses inside the corridor is also calculated here.

Exhibit III

Exhibit III shows the estimation of ultimate losses using paid and reported loss development techniques. The calculations estimate ultimate losses limited to the per occurrence retention. The methods are based on the paid and reported losses shown in Exhibit I and development factors from Appendix A. Claims that are expected to develop above the retention are first subtracted from the data. The balance of the losses is developed to ultimate by multiplying by the development factor, and then a provision for the large losses is added back.

For property and APD only the reported method is used to estimate ultimate losses. For 7/1/11-12 and subsequent years we calculate the ultimate losses for losses limited to \$250,000 and unlimited in order to estimate the losses within the SIR and losses in the corridor.



Exhibit IV

The selected loss rate for 7/1/18-19 from the forecast report is detrended to the 7/1/17-18 level and multiplied by the exposures to derive estimates of ultimate losses for that year. These results are used in the Bornhuetter-Ferguson method in Exhibit V.

Exhibit V

Exhibit V calculates ultimate losses using the Bornhuetter/Ferguson technique, which blends the prior estimate of ultimate losses from the analysis as of June 30, 2016, with the current paid and reported losses. This method places less emphasis on current reported and paid values and tends to dampen swings in estimates, especially for immature years.

For property and APD, only the reported method is used to estimate ultimate losses. For 7/1/11-12 and forward we calculate the ultimate losses for losses limited to \$250,000 and unlimited in order to estimate the losses within the SIR and losses in the corridor.

Exhibit VI

The results of these estimation methods are compared in Exhibit VI. A selection of our best estimate of the ultimate cost for each occurrence period is made based on the reasonableness of the various estimates when compared to loss experience to date, and the reasonableness of the estimates of ultimate and resulting unreported losses from year to year.

For property and APD, ultimate losses are selected for losses limited to \$250,000 per occurrence and on an unlimited basis. The losses excess of \$250,000 are calculated by subtraction, and then capped to the corridor.

Exhibit VII

In order to track trends in the experience and provide a check of reasonableness, Exhibit VII calculates the average ultimate claim size and loss rate (ultimate losses divided by exposure) for each year.

Exhibit VIII

In Exhibit VIII, paid losses are subtracted from estimated ultimate losses to estimate outstanding losses as of the current valuation. Similarly, reported losses are subtracted from estimated ultimate losses to estimate the unreported portion (IBNR) of the outstanding losses.



Projected outstanding and unreported (IBNR) losses as of June 30, 2017, are also displayed. Paid and reported losses are first projected to June 30 values, then subtracted from the ultimate losses to calculate the projected outstanding and unreported amounts as of year end. The IBNR calculated in this exhibit, plus a risk margin as calculated in Table B, should form the basis for OSIG's year end IBNR provision.

Exhibit IX

Exhibit IX-A and IX-B provide a comparison of the current experience with that of the previous analyses as of June 30, 2017, and January 31, 2018. Using the data and assumptions from the prior reports, reported and paid losses are projected to the current date. The projected losses are compared to the actual current experience to observe changes in experience. Also shown is a comparison of the selected ultimate losses from the previous reports to the current estimates. These exhibits provide a check of reasonableness to our analysis.

Appendix A

The loss development factors are chosen based on OSIG's own experience, weighted with Oklahoma public entity experience for stability and credibility. The selected factors are fit to a curve in order to extrapolate factors at maturities other than those displayed in the triangle.

For Property and APD, we have derived reported loss development factors for losses limited to \$250,000 and unlimited losses using triangles created on the same basis. In order to project the future payment of losses we have derived factors based on the patterns implied by the selected ultimate losses both limited to \$250,000 and unlimited.



Automobile Liability Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Large Claim Listing
Exhibit III	Loss Development Methods
Exhibit IV	Forecast for Current Year
Exhibit V	Bornhuetter-Ferguson Methods
Exhibit VI	Summary and Selection of Ultimate Losses
Exhibit VII	Average Claim Size
Exhibit VIII	Outstanding Losses as of 1/31/2018 and Projected as of 6/30/2018
Appendix A	Loss Development Factors and Triangles



Summary of Loss Data as of January 31, 2018 Total Experience Net of Member Deductibles

(A)	(B)	(C)	(E))	(E)	(F)	(G)	(H)
					Net Loss	Net Loss	Net Loss	
Accident	Evaluation	Maturity	Total	Open	and Expense	and Expense	and Expense	
Period	Date	(months)	Claims	Claims	Payments	Reserves	Incurred	Vehicles
7/1/02-03	1/31/2018	187	24	0	\$65,087	\$0	\$65,087	
7/1/03-04	1/31/2018	175	81	0	\$433,514	\$0	\$433,514	
7/1/04-05	1/31/2018	163	109	0	\$1,097,512	\$0	\$1,097,512	5,046
7/1/05-06	1/31/2018	151	134	0	\$450,928	\$0	\$450,928	6,391
7/1/06-07	1/31/2018	139	145	0	\$549,344	\$0	\$549,344	7,017
7/1/07-08	1/31/2018	127	178	0	\$759,907	\$0	\$759,907	7,753
7/1/08-09	1/31/2018	115	207	0	\$1,465,586	\$0	\$1,465,586	7,641
7/1/09-10	1/31/2018	103	182	1	\$687,646	\$18,440	\$706,085	8,309
7/1/10-11	1/31/2018	91	187	0	\$882,016	\$0	\$882,016	9,022
7/1/11-12	1/31/2018	79	177	1	\$947,823	\$25,762	\$973,586	6,650
7/1/12-13	1/31/2018	67	162	0	\$661,103	\$0	\$661,103	6,979
7/1/13-14	1/31/2018	55	185	1	\$704,429	\$27,177	\$731,606	7,460
7/1/14-15	1/31/2018	43	226	8	\$1,047,450	\$381,455	\$1,428,905	9,047
7/1/15-16	1/31/2018	31	226	7	\$889,240	\$342,696	\$1,231,937	9,517
7/1/16-17	1/31/2018	19	208	18	\$859,884	\$249,647	\$1,109,530	10,334
7/1/17-18	1/31/2018	7	113	85	\$217,543	\$328,612	\$546,156	10,013
7/1/18-19					ŕ	ŕ	·	10,046
								•
			2544	121	\$11,719,012	\$1,373,790	\$13,092,802	121,225

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

⁻ Claims are grouped by occurrence, claims with \$0 incurred are excluded

⁻ Losses are net of member deductibles

Summary of Large Claim Information

					Net	Net		Excess	Excess	Excess	Severity	Ultimate
Occurrence #	School	Policy Year	Loss Date	Status	Paid	Incurred	SIR	Recoveries	Paid	Incurred	Factor	Net
000203	NEWKIRK PUBLIC SCHOOLS	7/1/03-04	1/30/2004	Closed	\$176,217	\$176,217	\$100,000	\$76,217	\$76,217	\$76,217	1.000	\$176,217
000513	CHICKASKA PUBLIC SCHOOL	7/1/04-05	12/20/2004	Closed	\$129,748	\$129,748	\$100,000	\$29,748	\$29,748	\$29,748	1.000	\$129,748
000596	RIPLEY PUBLIC SCHOOLS	7/1/04-05	3/29/2005	Closed	\$549,427	\$549,427	\$100,000	\$449,427	\$449,427	\$449,427	1.000	\$549,427
001433	VELMA-ALMA ISD #5	7/1/06-07	12/20/2006	Closed	\$114,139	\$114,139	\$100,000	\$14,139	\$14,139	\$14,139	1.000	\$114,140
002940	CANEY VALLEY PUBLIC SCHOOL	7/1/08-09	5/7/2009	Closed	\$106,504	\$106,504	\$100,000	\$6,504	\$6,504	\$6,504	1.000	\$106,506
002638	ALTUS PUBLIC SCHOOL	7/1/08-09	11/14/2008	Closed	\$104,466	\$104,466	\$100,000	\$4,466	\$4,466	\$4,466	1.000	\$104,467
002678	CHICKASKA PUBLIC SCHOOL	7/1/08-09	12/15/2008	Closed	\$131,271	\$131,271	\$100,000	\$31,271	\$31,271	\$31,271	1.000	\$131,272
90075	PAOLI ISD	7/1/10-11	8/18/2010	Closed	\$134,999	\$134.999	\$100,000	\$34,999	\$34,999	\$34.999	1.000	\$135,011
90305	GUTHRIE PUBLIC SCHOOLS	7/1/10-11	12/8/2010	Closed	\$103,684	\$103,684	\$100,000	\$3,684	\$3,684	\$3,684	1.000	\$103,693
91477	LAWTON BOARD OF EDUCATION	7/1/12-13	9/19/2012	Closed	\$135,786	\$135,786	\$100,000	\$35,786	\$35,786	\$35,786	1.001	\$135,897
92239	PUTNAM CITY ISD	7/1/13-14	1/7/2014	Closed	\$130,707	\$130,707	\$100,000	\$30,707	\$30,707	\$30,707	1.003	\$131,040
93063	MIDWEST CITY-DEL CITY ISD	7/1/14-15	4/20/2015	Open	\$178,945	\$258,150	\$100,000	\$0	\$78,945	\$158,150	1.007	\$259,862
93008	WESTERN HEIGHTS ISD	7/1/14-15	3/23/2015	Closed	\$206,102	\$206,102	\$100,000	\$106,072	\$106,072	\$106,072	1.007	\$207,469
93477	HAYWOOD ISD	7/1/15-16	11/19/2015	Open	\$75,266	\$202,250	\$100,000	\$0	\$0	\$102,250	1.024	\$207,046
94052	PUTNAM CITY ISD	7/1/16-17	9/29/2016	Open	\$126,307	\$126,307	\$100,000	\$0	\$26,307	\$26,307	1.080	\$136,418
94363	ADAIR ISD	7/1/16-17	3/23/2017	Open	\$18,040	\$118,040	\$100,000	\$0	\$0	\$18,040	1.080	\$127,489
94562	BROKEN ARROW PUBLIC SCHOOLS	7/1/17-18	7/10/2017	Open	\$0	\$115,000	\$100,000	\$0	\$0	\$15,000	1.206	\$138,732

\$2,421,610 \$2,842,798 \$823,021 \$928,273 \$1,142,768

Excess paid and incurred losses for closed claims are equal to the excess recoveries, or amounts over SIR if no recovery yet Excess paid and incurred losses for open claims are amounts in excess of SIR regardless of recoveries.

⁻ Loss and policy information provided by Jennifer McKenzie, Gallagher-Bryce

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Calculation of Limited Losses

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
		Unlimited	Unlimited	Paid	Reported	Paid	Reported
Policy		Paid	Reported	Excess of	Excess of	Limited to	Limited to
Period	Retention	Losses	Losses	Primary	Primary	Primary	Primary
7/1/02-03	\$100,000	\$65,087	\$65,087	\$0	\$0	\$65,087	\$65,087
7/1/03-04	\$100,000	\$433,514	\$433,514	\$76,217	\$76,217	\$357,297	\$357,297
7/1/04-05	\$100,000	\$1,097,512	\$1,097,512	\$479,175	\$479,175	\$618,336	\$618,336
7/1/05-06	\$100,000	\$450,928	\$450,928	\$0	\$0	\$450,928	\$450,928
7/1/06-07	\$100,000	\$549,344	\$549,344	\$14,139	\$14,139	\$535,205	\$535,205
7/1/07-08	\$100,000	\$759,907	\$759,907	\$0	\$0	\$759,907	\$759,907
7/1/08-09	\$100,000	\$1,465,586	\$1,465,586	\$42,241	\$42,241	\$1,423,346	\$1,423,346
7/1/09-10	\$100,000	\$687,646	\$706,085	\$0	\$0	\$687,646	\$706,085
7/1/10-11	\$100,000	\$882,016	\$882,016	\$38,683	\$38,683	\$843,333	\$843,333
7/1/11-12	\$100,000	\$947,823	\$973,586	\$0	\$0	\$947,823	\$973,586
7/1/12-13	\$100,000	\$661,103	\$661,103	\$35,786	\$35,786	\$625,317	\$625,317
7/1/13-14	\$100,000	\$704,429	\$731,606	\$30,707	\$30,707	\$673,722	\$700,899
7/1/14-15	\$100,000	\$1,047,450	\$1,428,905	\$185,017	\$264,222	\$862,433	\$1,164,683
7/1/15-16	\$100,000	\$889,240	\$1,231,937	\$0	\$102,250	\$889,240	\$1,129,687
7/1/16-17	\$100,000	\$859,884	\$1,109,530	\$26,307	\$44,347	\$833,576	\$1,065,183
7/1/17-18	\$100,000	\$217,543	\$546,156	\$0	\$15,000	\$217,543	\$531,156
Total		\$11,719,012	\$13,092,802	\$928,273	\$1,142,768	\$10,790,739	\$11,950,035

⁽A) and (B) - Exhibit I-A

⁽D) and (E) - Excess amounts from claims in Exhibit II, page 1

⁽F) = (B) - (D)

⁽G) = (C) - (E)

Estimated Ultimate Losses Limited to OSIG Retentions **Using Loss Development Methods**

	(A)	(B)	(C)	(D)	(E)	(F)
		Reported	Reported	Ultimate	Provision	Estimated
Accident	Reported	on Large	Develop.	on Small	for Large	Ultimate
Period	Losses	Losses	Factor	Claims	Claims	Losses
7/1/02-03	\$65,087	\$0	1.000	\$65,087	\$0	\$65,000
7/1/03-04	\$433,514	\$176,217	1.000	\$257,297	\$100,000	\$357,000
7/1/04-05	\$1,097,512	\$679,175	1.000	\$418,336	\$200,000	\$618,000
7/1/05-06	\$450,928	\$0	1.000	\$450,928	\$0	\$451,000
7/1/06-07	\$549,344	\$114,139	1.000	\$435,206	\$100,000	\$535,000
7/1/07-08	\$759,907	\$0	1.000	\$759,910	\$0	\$760,000
7/1/08-09	\$1,465,586	\$342,241	1.000	\$1,123,357	\$300,000	\$1,423,000
7/1/09-10	\$706,085	\$0	1.000	\$706,106	\$0	\$706,000
7/1/10-11	\$882,016	\$238,683	1.000	\$643,389	\$200,000	\$843,000
7/1/11-12	\$973,586	\$0	1.000	\$973,844	\$0	\$974,000
7/1/12-13	\$661,103	\$135,786	1.001	\$525,746	\$100,000	\$626,000
7/1/13-14	\$731,606	\$130,707	1.003	\$602,429	\$100,000	\$702,000
7/1/14-15	\$1,428,905	\$464,252	1.008	\$972,411	\$200,281	\$1,173,000
7/1/15-16	\$1,231,937	\$202,250	1.026	\$1,056,217	\$100,200	\$1,156,000
7/1/16-17	\$1,109,530	\$244,347	1.084	\$937,627	\$200,682	\$1,138,000
Total	\$12,546,647	\$2,727,798		\$9,927,890	\$1,601,162	\$11,527,000

	(A)	(B)	(C)	(D)	(E)	(F)
		Paid	Paid	Ultimate	Provision	Estimated
Accident	Paid	on Large	Develop.	on Small	for Large	Ultimate
Period	Losses	Losses	Factor	Claims	Claims	Losses
7/1/02-03	\$65,087	\$0	1.000	\$65,088	\$0	\$65,000
7/1/03-04	\$433,514	\$176,217	1.000	\$257,300	\$100,000	\$357,000
7/1/04-05	\$1,097,512	\$679,175	1.000	\$418,344	\$200,000	\$618,000
7/1/05-06	\$450,928	\$0	1.000	\$450,943	\$0	\$451,000
7/1/06-07	\$549,344	\$114,139	1.000	\$435,235	\$100,000	\$535,000
7/1/07-08	\$759,907	\$0	1.000	\$760,013	\$0	\$760,000
7/1/08-09	\$1,465,586	\$342,241	1.000	\$1,123,674	\$300,000	\$1,424,000
7/1/09-10	\$687,646	\$0	1.001	\$688,083	\$0	\$688,000
7/1/10-11	\$882,016	\$238,683	1.001	\$644,253	\$200,000	\$844,000
7/1/11-12	\$947,823	\$0	1.003	\$950,989	\$0	\$951,000
7/1/12-13	\$661,103	\$135,786	1.008	\$529,585	\$100,000	\$630,000
7/1/13-14	\$704,429	\$130,707	1.021	\$585,585	\$100,000	\$686,000
7/1/14-15	\$1,047,450	\$385,047	1.055	\$699,052	\$200,281	\$899,000
7/1/15-16	\$889,240	\$75,266	1.157	\$941,380	\$100,200	\$1,042,000
7/1/16-17	\$859,884	\$144,347	1.471	\$1,052,796	\$200,682	\$1,253,000
Total	\$11,501,469	\$2,421,610		\$9,602,318	\$1,601,162	\$11,203,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) - Appendix A

 $⁽D) = [(A) - (B)] \times (C)$ $(E) = \# large \times SIR \times ccdf$

⁽F) = (D) + (E)

Automobile Liability

Estimate Ultimate Losses based on Forecast

Accident	(A)	(B) Detrended	(C)
Period	Exposure	Loss Rate	Forecast
7/1/17-18	10,013	\$114	\$1,143,000
7/1/18-19	10,046	\$117	\$1,178,000

⁽A) - Exhibit I

⁽B) - From Forecast, detrended

 $⁽C) = (A) \times (B)$

Estimated Ultimate Losses Limited to OSIG Retention Using Bornhuetter-Ferguson Method

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Reported		Expected	Limited	Estimated
Accident	Ultimate or	Develop.	Expected %	Unreported	Reported	Ultimate
Period	Forecast	Factor	Unreported	Losses	Losses	Losses
7/1/02-03	\$65,087	1.000	0%	\$0	\$65,087	\$65,000
7/1/03-04	\$357,297	1.000	0%	\$0	\$357,297	\$357,000
7/1/04-05	\$618,336	1.000	0%	\$0	\$618,336	\$618,000
7/1/05-06	\$450,928	1.000	0%	\$0	\$450,928	\$451,000
7/1/06-07	\$535,205	1.000	0%	\$1	\$535,205	\$535,000
7/1/07-08	\$759,907	1.000	0%	\$3	\$759,907	\$760,000
7/1/08-09	\$1,423,346	1.000	0%	\$14	\$1,423,346	\$1,423,000
7/1/09-10	\$707,000	1.000	0%	\$21	\$706,085	\$706,000
7/1/10-11	\$846,000	1.000	0%	\$74	\$843,333	\$843,000
7/1/11-12	\$1,008,000	1.000	0%	\$268	\$973,586	\$974,000
7/1/12-13	\$633,000	1.001	0%	\$517	\$625,317	\$626,000
7/1/13-14	\$713,000	1.003	0%	\$1,811	\$700,899	\$703,000
7/1/14-15	\$1,140,000	1.008	1%	\$9,096	\$1,164,683	\$1,174,000
7/1/15-16	\$1,131,000	1.026	3%	\$28,409	\$1,129,687	\$1,158,000
7/1/16-17	\$1,303,000	1.084	8%	\$100,674	\$1,065,183	\$1,166,000
7/1/17-18	\$1,143,000	2.083	52%	\$594,277	\$531,156	\$1,125,000
Total	\$12,834,106			\$735,162	\$11,950,035	\$12,684,000

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Paid		Expected	Limited	Estimated
Accident	Ultimate or	Develop.	Expected %	Unpaid	Paid	Ultimate
Period	Forecast	Factor	Unpaid	Losses	Losses	Losses
7/1/02-03	\$65,087	1.000	0%	\$0	\$65,087	\$65,000
7/1/03-04	\$357,297	1.000	0%	\$3	\$357,297	\$357,000
7/1/04-05	\$618,336	1.000	0%	\$11	\$618,336	\$618,000
7/1/05-06	\$450,928	1.000	0%	\$15	\$450,928	\$451,000
7/1/06-07	\$535,205	1.000	0%	\$36	\$535,205	\$535,000
7/1/07-08	\$759,907	1.000	0%	\$106	\$759,907	\$760,000
7/1/08-09	\$1,423,346	1.000	0%	\$417	\$1,423,346	\$1,424,000
7/1/09-10	\$707,000	1.001	0%	\$449	\$687,646	\$688,000
7/1/10-11	\$846,000	1.001	0%	\$1,209	\$843,333	\$845,000
7/1/11-12	\$1,008,000	1.003	0%	\$3,356	\$947,823	\$951,000
7/1/12-13	\$633,000	1.008	1%	\$5,102	\$625,317	\$630,000
7/1/13-14	\$713,000	1.021	2%	\$14,445	\$673,722	\$688,000
7/1/14-15	\$1,140,000	1.055	5%	\$59,767	\$862,433	\$922,000
7/1/15-16	\$1,131,000	1.157	14%	\$153,069	\$889,240	\$1,042,000
7/1/16-17	\$1,303,000	1.471	32%	\$417,411	\$833,576	\$1,251,000
7/1/17-18	\$1,143,000	3.746	73%	\$837,896	\$217,543	\$1,055,000
Total	\$12,834,106			\$1,493,292	\$10,790,739	\$12,282,000

⁽A) - Exhibit VI, or IV for 7/1/17-18

⁽B) - Appendix A

⁽C) = 1 - 1/(B)

⁽D) = (A) * (C)

⁽D) - Exhibit I, limited to SIR

⁽F) = (D) + (E)

Summary and Selection of Ultimate Limited Loss Estimates

	(A)	(B)	(C)	(D)	(E)	(F)	
	Prior	Reported	Paid			Selected	
	Ultimate	Loss	Loss	Expected	Expected	Ultimate	
Accident	or	Development	Development	Unreported	Unpaid	Loss	
Period	Period Forecast Method		Method	Method	Method	Estimate	
7/1/02-03	\$65,087	\$65,000	\$65,000	\$65,000	\$65,000	\$65,087	
7/1/03-04	\$357,297	\$357,000	\$357,000	\$357,000	\$357,000	\$357,297	
7/1/04-05	\$618,336	\$618,000	\$618,000	\$618,000	\$618,000	\$618,336	
7/1/05-06	\$450,928	\$451,000	\$451,000	\$451,000	\$451,000	\$450,928	
7/1/06-07	\$535,205	\$535,000	\$535,000	\$535,000	\$535,000	\$535,205	
7/1/07-08	\$759,907	\$760,000	\$760,000	\$760,000	\$760,000	\$759,907	
7/1/08-09	\$1,423,346	\$1,423,000	\$1,424,000	\$1,423,000	\$1,424,000	\$1,423,346	
7/1/09-10	\$707,000	\$706,000	\$688,000	\$706,000	\$688,000	\$706,000	
7/1/10-11	\$846,000	\$843,000	\$844,000	\$843,000	\$845,000	\$843,000	
7/1/11-12	\$1,008,000	\$974,000	\$951,000	\$974,000	\$951,000	\$974,000	
7/1/12-13	\$633,000	\$626,000	\$630,000	\$626,000	\$630,000	\$626,000	
7/1/13-14	\$713,000	\$702,000	\$686,000	\$703,000	\$688,000	\$703,000	
7/1/14-15	\$1,140,000	\$1,173,000	\$899,000	\$1,174,000	\$922,000	\$1,174,000	
7/1/15-16	\$1,131,000	\$1,156,000	\$1,042,000	\$1,158,000	\$1,042,000	\$1,158,000	
7/1/16-17	\$1,303,000	\$1,138,000	\$1,253,000	\$1,166,000	\$1,251,000	\$1,166,000	
7/1/17-18	\$1,183,000			\$1,125,000	\$1,055,000	\$1,143,000	
	040.074.400	044 507 000	044 000 000	040.004.000	#40.000.000	#40.700.400	
Total	\$12,874,106	\$11,527,000	\$11,203,000	\$12,684,000	\$12,282,000	\$12,703,106	

⁽A) - From Previous Report as of 06/30/2017

Limited Reported Losses for 02-03 through 08-09

⁽B) and (C) - Exhibit III

⁽D) and (E) - Exhibit V

⁽F) - Selected as Noted:

⁽D) for 09-10 through 16-17

New Forecast for 7/1/17-18

Average Ultimate Claim Sizes

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
		5 , ,			Estimated		
		Reported	Estimated	Estimated	Average	_	_
Accident	Reported	Claim	Ultimate	Ultimate	Ultimate	Exposure	Loss
Period	Claims	Development	Claims	Losses	Claim	(Vehicles)	Rate
7/1/02-03	24	1.000	24.0	\$65,087	\$2,700		
7/1/03-04	81	1.000	81.0	\$357,297	\$4,400		
7/1/04-05	109	1.000	109.0	\$618,336	\$5,700	5,046	\$123
7/1/05-06	134	1.000	134.0	\$450,928	\$3,400	6,391	\$71
7/1/06-07	145	1.000	145.0	\$535,205	\$3,700	7,017	\$76
7/1/07-08	178	1.000	178.0	\$759,907	\$4,300	7,753	\$98
7/1/08-09	207	1.000	207.0	\$1,423,346	\$6,900	7,641	\$186
7/1/09-10	182	1.000	182.0	\$706,000	\$3,900	8,309	\$85
7/1/10-11	187	1.000	187.0	\$843,000	\$4,500	9,022	\$93
7/1/11-12	177	1.000	177.0	\$974,000	\$5,500	6,650	\$146
7/1/12-13	162	1.000	162.0	\$626,000	\$3,900	6,979	\$90
7/1/13-14	185	1.000	185.0	\$703,000	\$3,800	7,460	\$94
7/1/14-15	226	1.001	226.3	\$1,174,000	\$5,200	9,047	\$130
7/1/15-16	226	1.002	226.5	\$1,158,000	\$5,100	9,517	\$122
7/1/16-17	208	1.003	208.7	\$1,166,000	\$5,600	10,334	\$113
7/1/17-18	113	1.727	205.0	\$1,143,000	\$5,600	10,013	\$114
7/1/18-19			219.4	\$1,178,000	\$5,400	10,046	\$117
Total	2544		2856.89135	\$13,881,106	\$4,900	121,225	\$115

^{- 7/1/18-19} from forecast

⁽A) - Exhibit I

⁽B) - Appendix A

 $⁽C) = (A) \times (B)$

⁽D) = Exhibit VI

⁽E) = (D) / (C)

⁽F) - Exhibit I, provided by OSIG

⁽G) = (D) / (F)

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)
	Estimated	Limited	Limited	Limited		
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Losses	Losses	Losses	Reserves	Losses	Losses
		As of	January 31, 20	018		
7/1/02-03	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
7/1/03-04	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
7/1/04-05	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
7/1/05-06	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
7/1/06-07	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
7/1/07-08	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
7/1/09-10	\$706,000	\$687,646	\$706,085	\$18,440	\$0	\$18,000
7/1/10-11	\$843,000	\$843,333	\$843,333	\$0	\$0	\$0
7/1/11-12	\$974,000	\$947,823	\$973,586	\$25,762	\$0	\$26,000
7/1/12-13	\$626,000	\$625,317	\$625,317	\$0	\$1,000	\$1,000
7/1/13-14	\$703,000	\$673,722	\$700,899	\$27,177	\$2,000	\$29,000
7/1/14-15	\$1,174,000	\$862,433	\$1,164,683	\$302,250	\$9,000	\$312,000
7/1/15-16	\$1,158,000	\$889,240	\$1,129,687	\$240,447	\$28,000	\$269,000
7/1/16-17	\$1,166,000	\$833,576	\$1,065,183	\$231,607	\$101,000	\$332,000
7/1/17-1/31/18	\$667,000	\$217,543	\$531,156	\$313,612	\$136,000	\$449,000
Total	\$12,227,000	\$10,790,739	\$11,950,035	\$1,159,296	\$277,000	\$1,436,000
2/1-6/30/18	\$476,000					
		Projected	d as of June 30	0. 2018		
7/1/02-03	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
7/1/03-04	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
7/1/04-05	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
7/1/05-06	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
7/1/06-07	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
7/1/07-08	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
7/1/09-10	\$706,000	\$693,000	\$706,000	\$13,000	\$0	\$13,000
7/1/10-11	\$843,000	\$843,000	\$843,000	\$0	\$0	\$0
7/1/11-12	\$974,000	\$956,000	\$974,000	\$18,000	\$0	\$18,000
7/1/12-13	\$626,000	\$626,000	\$626,000	\$0	\$0	\$0
7/1/13-14	\$703,000	\$683,000	\$702,000	\$19,000	\$1,000	\$20,000
7/1/14-15	\$1,174,000	\$965,000	\$1,168,000	\$203,000	\$6,000	\$209,000
7/1/15-16	\$1,158,000	\$976,000	\$1,140,000	\$164,000	\$18,000	\$182,000
7/1/16-17	\$1,166,000	\$929,000	\$1,103,000	\$174,000	\$63,000	\$237,000
7/1/17-18	\$1,143,000	\$536,000	\$974,000	\$438,000	\$169,000	\$607,000
Total	\$12,703,000	\$11,417,106	\$12,446,106	\$1,029,000	\$257,000	\$1,286,000

Total Estimated IBNR as of June 30, 2018 \$257,000

⁽A) - Exhibit VI

⁽B) and (C) - Exhibit V as of 1/31/18

Projected as of 6/30/18 using LDFs

⁽D)=(C)-(B)

⁽E)=(A)-(C)

⁽F)=(A)-(B)

Comparison of Results with Previous Estimates as of 6/30/17

•	,	/F:	/ C:	/F:	/ - :	(E:	/6:
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Expected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
7/1/02 02	¢65 007		\$65.007	0.00/		¢65.007	0.00/
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	0.0%
7/1/09-10	\$706,085	\$706,517	\$706,085	-0.1%	\$707,000	\$706,000	-0.1%
7/1/10-11	\$843,333	\$844,602	\$843,333	-0.2%	\$846,000	\$843,000	-0.4%
7/1/11-12	\$1,003,435	\$1,005,625	\$973,586	-3.2%	\$1,008,000	\$974,000	-3.4%
7/1/12-13	\$625,317	\$629,031	\$625,317	-0.6%	\$633,000	\$626,000	-1.1%
7/1/13-14	\$701,213	\$706,950	\$700,899	-0.9%	\$713,000	\$703,000	-1.4%
7/1/14-15	\$1,122,893	\$1,131,244	\$1,164,683	3.0%	\$1,140,000	\$1,174,000	3.0%
7/1/15-16	\$1,071,277	\$1,100,172	\$1,129,687	2.7%	\$1,131,000	\$1,158,000	2.4%
7/1/16-17	\$1,119,606	\$1,204,313	\$1,065,183	-11.6%	\$1,303,000	\$1,166,000	-10.5%
7/1/17-18		\$567,926	\$531,156	-6.5%	\$1,183,000	\$1,143,000	-3.4%
Total	\$11,403,266	\$12,106,487	\$11,950,035	-1.3%	\$12,874,106	\$12,703,106	-1.3%
	, , ,	, , ,	, , ,		, , ,	, , ,	
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Expected	Actual	(D)	Expected	Actual	(G)
	Actual Paid	Expected Paid	Actual Paid		Expected Ultimate	Actual Ultimate	
Accident	Actual Paid Losses	Expected Paid Losses	Actual Paid Losses	Percent	Expected Ultimate Losses	Actual Ultimate Losses	Percent
Accident Period	Actual Paid	Expected Paid	Actual Paid		Expected Ultimate	Actual Ultimate	
Period	Actual Paid Losses 6/30/2017	Expected Paid Losses 1/31/2018	Actual Paid Losses 1/31/2018	Percent Difference	Expected Ultimate Losses 6/30/2017	Actual Ultimate Losses 1/31/2018	Percent Difference
Period 7/1/02-03	Actual Paid Losses 6/30/2017 \$65,087	Expected Paid Losses 1/31/2018	Actual Paid Losses 1/31/2018	Percent Difference	Expected Ultimate Losses 6/30/2017	Actual Ultimate Losses 1/31/2018	Percent Difference
Period 7/1/02-03 7/1/03-04	Actual Paid Losses 6/30/2017 \$65,087 \$357,297	Expected Paid Losses 1/31/2018 \$65,087 \$357,297	Actual Paid Losses 1/31/2018 \$65,087 \$357,297	Percent Difference 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297	Percent Difference 0.0% 0.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336	Percent Difference 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336	Percent Difference 0.0% 0.0% 0.0%
7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928	Percent Difference 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928	Percent Difference 0.0% 0.0% 0.0% 0.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% -1.4%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036 \$756,681	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144 \$921,242	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722 \$862,433	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5% -6.4%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000 \$1,140,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000 \$1,174,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% -1.4% 3.0%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15 7/1/15-16	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036 \$756,681 \$780,728	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144 \$921,242 \$918,325	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722 \$862,433 \$889,240	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5% -6.4% -3.2%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000 \$1,140,000 \$1,131,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000 \$1,174,000 \$1,158,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% -1.4% 3.0% 2.4%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15 7/1/15-16 7/1/16-17	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036 \$756,681	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144 \$921,242 \$918,325 \$777,875	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722 \$862,433 \$889,240 \$833,576	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5% -6.4% -3.2% 7.2%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000 \$1,140,000 \$1,131,000 \$1,303,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000 \$1,174,000 \$1,158,000 \$1,166,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% 3.0% 2.4% -10.5%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15 7/1/15-16	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036 \$756,681 \$780,728	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144 \$921,242 \$918,325	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722 \$862,433 \$889,240	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5% -6.4% -3.2%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000 \$1,140,000 \$1,131,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000 \$1,174,000 \$1,158,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% -1.4% 3.0% 2.4%
Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15 7/1/15-16 7/1/16-17	Actual Paid Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,068 \$843,333 \$948,005 \$625,317 \$674,036 \$756,681 \$780,728	Expected Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$695,455 \$844,472 \$973,997 \$628,683 \$691,144 \$921,242 \$918,325 \$777,875 \$302,687	Actual Paid Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$687,646 \$843,333 \$947,823 \$625,317 \$673,722 \$862,433 \$889,240 \$833,576 \$217,543	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.1% -0.1% -2.7% -0.5% -2.5% -6.4% -3.2% 7.2%	Expected Ultimate Losses 6/30/2017 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$707,000 \$846,000 \$1,008,000 \$633,000 \$713,000 \$1,131,000 \$1,303,000 \$1,183,000 \$1,183,000	Actual Ultimate Losses 1/31/2018 \$65,087 \$357,297 \$618,336 \$450,928 \$535,205 \$759,907 \$1,423,346 \$706,000 \$843,000 \$974,000 \$626,000 \$703,000 \$1,174,000 \$1,158,000 \$1,166,000	Percent Difference 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% -0.4% -3.4% -1.1% 3.0% 2.4% -10.5%

⁽A) and (E) - From Previous actuarial report as of 06/30/2017

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Comparison of Results with Previous Estimates as of 01/31/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Expected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	1/31/2017	1/31/2018	1/31/2018	Difference	1/31/2017	1/31/2018	Difference
	40-00-	40-00-	***	2.22/	*	***	0.00/
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	0.0%
7/1/09-10	\$706,085	\$706,695	\$706,085	-0.1%	\$707,000	\$706,000	-0.1%
7/1/10-11	\$843,333	\$845,121	\$843,333	-0.2%	\$846,000	\$843,000	-0.4%
7/1/11-12	\$1,003,435	\$1,006,514	\$973,586	-3.3%	\$1,008,000	\$974,000	-3.4%
7/1/12-13	\$625,317	\$630,530	\$625,317	-0.8%	\$633,000	\$626,000	-1.1%
7/1/13-14	\$701,213	\$709,248	\$700,899	-1.2%	\$713,000	\$703,000	-1.4%
7/1/14-15	\$1,014,986	\$1,032,055	\$1,164,683	12.9%	\$1,040,000	\$1,174,000	12.9%
7/1/15-16	\$1,063,849	\$1,129,416	\$1,129,687	0.0%	\$1,161,000	\$1,158,000	-0.3%
7/1/16-17	\$582,850	\$1,127,872	\$1,065,183	-5.6%	\$1,223,000	\$1,166,000	-4.7%
7/1/17-18		\$604,891	\$531,156	-12.2%	\$1,260,000	\$1,143,000	-9.3%
Total	\$10,751,174	\$12,002,449	\$11,950,035	-0.4%	\$12,801,106	\$12,703,106	-0.8%

Г		(A)	(B)	(C)	(D)	(E)	(F)	(G)
		Actual	Expected	Actual		Expected	Actual	
		Paid	Paid	Paid		Ultimate	Ultimate	
	Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
	Period	1/31/2017	1/31/2018	1/31/2018	Difference	1/31/2017	1/31/2018	Difference
	7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	0.0%
	7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	0.0%
	7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	0.0%
	7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	0.0%
	7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	0.0%
	7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	0.0%
	7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	0.0%
	7/1/09-10	\$687,068	\$699,215	\$687,646	-1.7%	\$707,000	\$706,000	-0.1%
	7/1/10-11	\$843,333	\$844,978	\$843,333	-0.2%	\$846,000	\$843,000	-0.4%
	7/1/11-12	\$942,874	\$983,479	\$947,823	-3.6%	\$1,008,000	\$974,000	-3.4%
	7/1/12-13	\$625,317	\$630,144	\$625,317	-0.8%	\$633,000	\$626,000	-1.1%
	7/1/13-14	\$674,036	\$698,489	\$673,722	-3.5%	\$713,000	\$703,000	-1.4%
	7/1/14-15	\$661,336	\$892,850	\$862,433	-3.4%	\$1,040,000	\$1,174,000	12.9%
	7/1/15-16	\$693,602	\$954,107	\$889,240	-6.8%	\$1,161,000	\$1,158,000	-0.3%
	7/1/16-17	\$279,975	\$780,887	\$833,576	6.7%	\$1,223,000	\$1,166,000	-4.7%
	7/1/17-18		\$322,388	\$217,543	-32.5%	\$1,260,000	\$1,143,000	-9.3%
	Total	\$9,617,646	\$11,016,643	\$10,790,739	-2.1%	\$12,801,106	\$12,703,106	-0.8%

⁽A) and (E) - From Previous actuarial report as of 1/31/2017

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

Curve: $Y = A(1/(X+C))^B + 1$ (Modified Inverse Power Curve)

		Tra	nsformed \		Fitte	ed Values		
Months of Maturity	Cumulative Factors	X'	Υ'	()(1)40	() (!) A O	VI VI	v	Cumulative Factor
X	Υ*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Υ
12 24 36 48	1.161 1.056 1.015 1.005	-6.8690 -6.8814 -6.8937 -6.9058	-1.8250 -2.8886 -4.1964 -5.2983	47.183 47.354 47.522 47.689	3.3306 8.3442 17.6096 28.0722	12.5360 19.8779 28.9284 36.5889	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Sum	-27.5498	-14.2083	189.7491	57.3566	97.9311	55	1.003
Av	erage	-6.8875	-3.5521	47.4373	14.3392	24.4828	43 31	1.008 1.026
							19	1.084
							7	2.083
N =	4		1	Ī				

N =	4		
A = 7.	792E+284		
B =	95.759	R^2 =	0.99837
C =	950		

^{* -} Appendix A4

Estimation of Cumulative Paid Loss Development Factors Using "The Method of Least Squares"

Curve: $Y = A(1/(X+C))^B + 1$ (Modified Inverse Power Curve)

		Tra	nsformed \	/alues for R	Regression		Fitte	ed Values
Months of Maturity	Cumulative Factors	<i>X</i> ′	Υ'					Cumulative Factor
X	Y*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Y
12 24 36 48 60	1.918 1.313 1.088 1.042 1.013	-5.2311 -5.2933 -5.3519 -5.4072 -5.4596	-0.0850 -1.1615 -2.4308 -3.1818 -4.3173	27.364 28.019 28.642 29.238 29.807	0.0072 1.3492 5.9089 10.1238 18.6389	0.4449 6.1484 13.0094 17.2045 23.5706	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.001 1.001 1.003 1.008
	Sum	-26.7430	-11.1765	143.0705	36.0280	60.3777	55	1.021
Av	erage	-5.3486	-2.2353	28.6141	7.2056	12.0755	43 31	1.055 1.157
<u> </u>							19	1.471
							7	3.746
N =	5			1				

N =	5	
A =	4.943E+41	
B =	18.367	$R^2 = 0.996337$
C =	175	

^{* -} Appendix A5

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

Curve: $Y = A(1/(X+C))^B + 1$ (Modified Inverse Power Curve)

		Tra	nsformed V	alues for F	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24	1.006 1.003	-2.4849 -3.1781	-5.1822 -5.9354	6.175 10.100	26.8550 35.2292	12.8772 18.8631	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
II	Sum rerage	-5.6630 -2.8315	-11.1176 -5.5588	16.2748 8.1374	62.0842 31.0421	31.7403 15.8702	55 43 31 19	1.000 1.001 1.002 1.003
	2			ı			7	1.727

N =	2		
A =	8.359E-02		
В=	1.087	R^2 =	1.00000
C =	0		

^{* -} Appendix A6

Analysis of Reported Loss Development Total Loss and ALAE Net of Member Deductibles

			Repo	orted Losses	and ALAE as	of (months):				
Year	12	24	36	48	60	, 72	84	96	108	120
7/1/04-05	\$1,047,750	\$1,095,895	\$1,133,243	\$1,145,262	\$1,145,262	\$1,145,262	\$1,097,512	\$1,097,512	\$1,097,512	\$1,097,512
7/1/05-06	\$456,117	\$547,145	\$662,524	\$632,070	\$450,928	\$450,928	\$450,928	\$450,928	\$450,928	\$450,928
7/1/06-07	\$890,604	\$608,898	\$583,493	\$524,344	\$549,344	\$549,344	\$549,344	\$549,344	\$549,344	\$549,344
7/1/07-08	\$847,622	\$783,605	\$855,237	\$856,228	\$856,441	\$759,907	\$759,907	\$759,907	\$759,907	\$759,907
7/1/08-09	\$1,417,952	\$1,726,246	\$1,741,617	\$1,664,608	\$1,594,733	\$1,576,121	\$1,465,586	\$1,465,586	\$1,465,586	
7/1/09-10	\$941,486	\$765,020	\$725,671	\$725,680	\$701,085	\$706,085	\$706,085	\$706,085		
7/1/10-11	\$942,102	\$880,763	\$858,871	\$882,516	\$882,516	\$882,016	\$882,016			
7/1/11-12	\$987,456	\$965,945	\$1,000,368	\$1,002,546	\$1,003,435	\$1,003,435				
7/1/12-13	\$777,945	\$702,440	\$663,518	\$661,103	\$661,103					
7/1/13-14	\$878,884	\$737,621	\$731,921	\$731,921						
7/1/14-15	\$909,436	\$947,227	\$1,251,043							
7/1/15-16	\$1,112,258	\$1,173,527								
7/1/16-17	\$1,204,106									
				Δαe_t	o-Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	, 72:84	84:96	96:108	108:120	120:ult
7/1/04-05	1.046	1.034	1.011	1.000	1.000	0.958	1.000	1.000	1.000	
7/1/05-06	1.200	1.211	0.954	0.713	1.000	1.000	1.000	1.000	1.000	
7/1/06-07	0.684	0.958	0.899	1.048	1.000	1.000	1.000	1.000	1.000	
7/1/07-08	0.924	1.091	1.001	1.000	0.887	1.000	1.000	1.000	1.000	
7/1/08-09	1.217	1.009	0.956	0.958	0.988	0.930	1.000	1.000		
7/1/09-10	0.813	0.949	1.000	0.966	1.007	1.000	1.000			
7/1/10-11	0.935	0.975	1.028	1.000	0.999	1.000				
7/1/11-12	0.978	1.036	1.002	1.001	1.000					
7/1/12-13	0.903	0.945	0.996	1.000						
7/1/13-14	0.839	0.992	1.000							
7/1/14-15	1.042	1.321								
7/1/15-16	1.055									
Average	0.970	1.047	0.985	0.965	0.985	0.984	1.000	1.000	1.000	
Wtd. Avg.	0.975	1.046	0.985	0.969	0.985	0.974	1.000	1.000	1.000	
Industry	1.456	1.165	1.065	1.028	1.013	1.007	1.003	1.002	1.001	1.002
OK Benchmark	1.347	1.092	1.023	1.010	1.000	1.000	1.000	1.000	1.000	1.000
Prior	1.100	1.040	1.010	1.005	1.000	1.000	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.100	1.040	1.010	1.005	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.100 1.161	1.040	1.010 1.015	1.005	1.000	1.000	1.000	1.000	1.000	1.000 1.000
- 41114141170	151	1.000	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Analysis of Paid Loss Development Total Loss and ALAE Net of Member Deductibles

			Pa	nid Losses and	d ALAE as of	(months):				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05	\$373,545	\$848,811	\$1,035,459	\$1,095,262	\$1,095,262	\$1,097,512	\$1,097,512	\$1,097,512	\$1,097,512	\$1,097,512
7/1/05-06	\$245,922	\$315,713	\$386,966	\$415,031	\$450,928	\$450,928	\$450,928	\$450,928	\$450,928	\$450,928
7/1/06-07	\$306,414	\$364,626	\$488,241	\$524,344	\$549,344	\$549,344	\$549,344	\$549,344	\$549,344	\$549,344
7/1/07-08	\$382,647	\$542,781	\$699,055	\$711,020	\$726,360	\$759,907	\$759,907	\$759,907	\$759,907	\$759,907
7/1/08-09	\$527,674	\$1,042,468	\$1,233,445	\$1,312,558	\$1,427,617	\$1,439,750	\$1,465,586	\$1,465,586	\$1,465,586	
7/1/09-10	\$454,322	\$567,769	\$662,046	\$677,216	\$682,330	\$686,578	\$687,068	\$687,068		
7/1/10-11	\$398,166	\$711,060	\$836,794	\$882,516	\$882,516	\$882,016	\$882,016			
7/1/11-12	\$636,923	\$793,177	\$875,075	\$935,985	\$940,184	\$948,005				
7/1/12-13	\$384,700	\$492,970	\$661,008	\$661,103	\$661,103					
7/1/13-14	\$489,337	\$688,008	\$703,536	\$704,744						
7/1/14-15	\$489,849	\$598,952	\$825,663							
7/1/15-16	\$612,592	\$780,728								
7/1/16-17	\$544,386									
				Age-to	-Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult
7/1/04-05	2.272	1.220	1.058	1.000	1.002	1.000	1.000	1.000	1.000	
7/1/05-06	1.284	1.226	1.073	1.086	1.000	1.000	1.000	1.000	1.000	
7/1/06-07	1.190	1.339	1.074	1.048	1.000	1.000	1.000	1.000	1.000	
7/1/07-08	1.418	1.288	1.017	1.022	1.046	1.000	1.000	1.000	1.000	
7/1/08-09	1.976	1.183	1.064	1.088	1.008	1.018	1.000	1.000		
7/1/09-10	1.250	1.166	1.023	1.008	1.006	1.001	1.000			
7/1/10-11	1.786	1.177	1.055	1.000	0.999	1.000				
7/1/11-12	1.245	1.103	1.070	1.004	1.008					
7/1/12-13	1.281	1.341	1.000	1.000						
7/1/13-14	1.406	1.023	1.002							
7/1/14-15	1.223	1.379								
7/1/15-16	1.274									
Average	1.467	1.222	1.043	1.028	1.009	1.003	1.000	1.000	1.000	
Wtd. Avg.	1.461	1.207	1.045	1.028	1.009	1.004	1.000	1.000	1.000	
Industry	2.205	1.510	1.215	1.095	1.045	1.023	1.012	1.007	1.004	1.008
OK benchmark	1.724	1.372	1.054	1.040	1.018	1.004	1.000	1.000	1.000	1.000
Prior	1.501	1.215	1.060	1.031	1.009	1.005	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.461	1.207	1.045	1.028	1.009	1.004	1.000	1.000	1.000	1.000
Cumulative	1.918	1.313	1.088	1.042	1.013	1.004	1.000	1.000	1.000	1.000

Analysis of Reported Occurrences

			Ren	orted Claims	as of (months	s):				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05		108	109	109	109	109	109	109	109	109
7/1/05-06	133	134	135	134	134	134	134	134	134	134
7/1/06-07	142	143	145	145	145	145	145	145	145	145
7/1/07-08	172	178	178	178	178	178	178	178	178	178
7/1/08-09	205	207	207	207	207	207	207	207	207	
7/1/09-10	183	182	182	182	182	182	182	182		
7/1/10-11	182	187	188	188	188	187	187			
7/1/11-12	177	178	177	177	177	177				
7/1/12-13	163	164	164	162	162					
7/1/13-14	196	185	185	185						
7/1/14-15	228	225	226							
7/1/15-16	225	227								
7/1/16-17	213									
				Age-to-Age	e Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult
7/1/04-05		1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/05-06	1.008	1.007	0.993	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/06-07	1.007	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/07-08	1.035	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/08-09	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/09-10	0.995	1.000	1.000	1.000	1.000	1.000	1.000			
7/1/10-11	1.027	1.005	1.000	1.000	0.995	1.000				
7/1/11-12	1.006	0.994	1.000	1.000	1.000					
7/1/12-13	1.006	1.000	0.988	1.000						
7/1/13-14	0.944	1.000	1.000							
7/1/14-15	0.987	1.004								
7/1/15-16	1.009									
Average	1.003	1.003	0.998	1.000	0.999	1.000	1.000	1.000	1.000	
Wtd. Avg.	1.002	1.003	0.998	1.000	0.999	1.000	1.000	1.000	1.000	
OK benchmark	1.128	1.005	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected Cumulative	1.003 1.006	1.003 1.003	1.000 1.000							

Derivation of Lognomoral Parameters Based on Reported Loss Development

	Natural Logarithm of Age to Age Factors										
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult	
7/1/04-05	0.045	0.034	0.011	0.000	0.000	-0.043	0.000	0.000	0.000		
7/1/05-06	0.182	0.191	-0.047		0.000	0.000	0.000	0.000	0.000		
7/1/06-07		-0.043	-0.107	0.047	0.000	0.000	0.000	0.000	0.000		
7/1/07-08	-0.079	0.087	0.001	0.000	-0.120	0.000	0.000	0.000	0.000		
7/1/08-09	0.197	0.009	-0.045	-0.043	-0.012	-0.073	0.000	0.000			
7/1/09-10	-0.208	-0.053	0.000	-0.034	0.007	0.000	0.000				
7/1/10-11	-0.067	-0.025	0.027	0.000	-0.001	0.000					
7/1/11-12	-0.022	0.035	0.002	0.001	0.000						
7/1/12-13	-0.102	-0.057	-0.004	0.000							
7/1/13-14	-0.175	-0.008	0.000								
7/1/14-15	0.041	0.278									
7/1/15-16	0.054										
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	108		
Variance	0.017	0.011	0.002	0.001	0.002	0.001	0.000	0.000	0.000		
Cum. Variance	0.034	0.016	0.005	0.003	0.003	0.001	0.000	0.000	0.000		
SD	0.183	0.128	0.070	0.058	0.052	0.029	0.000	0.000	0.000		

General Liability Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Large Claim Listing
Exhibit III	Loss Development Methods
Exhibit IV	Forecast for Current Year
Exhibit V	Bornhuetter-Ferguson Methods
Exhibit VI	Summary and Selection of Ultimate Losses
Exhibit VII	Average Claim Size
Exhibit VIII	Outstanding Losses as of 1/31/2018 and Projected as of 6/30/2018
Appendix A	Loss Development Factors and Triangles



Summary of Loss Data as of January 31, 2018 Total Experience Net of Member Deductibles

(A)	(B)	(C)	(E	D)	(E)	(F)	(G)	(H)
					Loss	Loss	Loss	
Accident	Evaluation	Maturity	Total	Open	and Expense	and Expense	and Expense	
Period	Date	(months)	Claims	Claims	Payments	Reserves	Incurred	Students
7/1/02-03	1/31/2018	187	28	0	\$168,909	\$0	\$168,909	
7/1/03-04	1/31/2018	175	88	0	\$848,061	\$0	\$848,061	
7/1/04-05	1/31/2018	163	115	0	\$525,685	\$0	\$525,685	198,498
7/1/05-06	1/31/2018	151	136	0	\$1,330,178	\$0	\$1,330,178	249,419
7/1/06-07	1/31/2018	139	132	0	\$1,351,835	\$0	\$1,351,835	267,684
7/1/07-08	1/31/2018	127	163	0	\$1,501,995	\$0	\$1,501,995	308,999
7/1/08-09	1/31/2018	115	155	0	\$2,172,804	\$0	\$2,172,804	313,473
7/1/09-10	1/31/2018	103	144	1	\$1,503,488	\$20,710	\$1,524,198	314,947
7/1/10-11	1/31/2018	91	110	1	\$2,396,523	\$38,239	\$2,434,762	346,136
7/1/11-12	1/31/2018	79	87	2	\$3,699,378	\$18,337	\$3,717,715	272,584
7/1/12-13	1/31/2018	67	109	5	\$1,054,824	\$148,989	\$1,203,814	282,168
7/1/13-14	1/31/2018	55	86	3	\$833,374	\$114,572	\$947,947	318,604
7/1/14-15	1/31/2018	43	116	11	\$1,551,489	\$562,405	\$2,113,894	373,449
7/1/15-16	1/31/2018	31	121	26	\$1,078,684	\$1,045,383	\$2,124,067	376,559
7/1/16-17	1/31/2018	19	131	49	\$480,867	\$2,511,496	\$2,992,363	393,268
7/1/17-18	1/31/2018	7	50	37	\$28,936	\$371,180	\$400,116	376,303
7/1/18-19						•		377,140
			1,771	135	\$20,527,029	\$4,831,312	\$25,358,341	4,769,231

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

⁻ Claims are grouped by occurrence, exclude claims with \$0 incurred

⁻ Losses are net of member deductibles

Summary of Large Claim Information

Occurrence #	School	Loss Date	Status	Net Paid	Net Incurred	SIR	Excess Recoveries	Excess Paid	Excess Reported	Severity Factor	Ultimate Net
00286	BOISE CITY ISD	5/3/2004	Closed	\$107,737	\$107,737	\$100,000	\$7,787	\$7,787	\$7,787	1.000	\$107,738
00709	HARDESTY PUBLIC SCHOOLS	9/1/2004	Closed	\$136,712	\$136,712	\$100,000	\$36,712	\$36,712	\$36,712	1.000	\$136,716
00709	MANNFORD PUBLIC SCHOOLS	10/31/2005	Closed	\$139,329	\$139,329	\$100,000	\$39,329	\$30,712	\$39,329	1.000	\$130,710
00919	GORE INDEPENDENT SCHOOL DIST.#6	1/9/2006	Closed	\$139,329	\$137,400	\$100,000	\$37,400	\$39,329	\$39,329	1.000	\$137,407
01194	OOLOGAH TALALA ISD	7/7/2006	Closed	\$104,657	\$104,657	\$100,000	\$4,657	\$4,657	\$4,657	1.000	\$104,668
01213	POCOLA PUBLIC SCHOOLS	7/26/2006	Closed	\$113,021	\$113,021	\$100,000	\$13,021	\$13,021	\$13,021	1.000	\$113,033
02076	DEER CREEK ISD	4/6/2007	Closed	\$470,603	\$470,603	\$100,000	\$370,603	\$370,603	\$370,603	1.000	\$470,652
01955	MIDWAY PUBLIC SCHOOLS	5/15/2007	Closed	\$110.316	\$110.316	\$100,000	\$10.316	\$10.316	\$10.316	1.000	\$110.328
02387	KIAMICHI TECHNOLOGY CENTER	7/31/2007	Closed	\$102,095	\$102,095	\$100,000	\$2,095	\$2,095	\$2,095	1.000	\$102,117
02047	POTEAU ISD	10/19/2007	Closed	\$109,798	\$109,798	\$100,000	\$9,798	\$9,798	\$9,798	1.000	\$102,117
01968	GUTHRIE PUBLIC SCHOOLS	11/2/2007	Closed	\$121,452	\$121,452	\$100,000	\$26,452	\$26,452	\$26,452	1.000	\$121,478
02250	BLANCHARD PUBLIC SCHOOLS	4/25/2008	Closed	\$131,036	\$131.036	\$100,000	\$31,036	\$31.036	\$31,036	1.000	\$131,065
02595	BYNG SCHOOL DISTRICT I-16	10/20/2008	Closed	\$1,075,745	\$1,075,745	\$100,000	\$975,745	\$975.745	\$975,745	1.000	\$1,076,231
02393	SHAWNEE PUBLIC SCHOOL	1/13/2009	Closed	\$124,447	\$124,447	\$100,000	\$24,447	\$24,447	\$24,447	1.000	\$1,070,231
03297	BIXBY PUBLIC SCHOOL	5/28/2009	Closed	\$124,447 \$113,070	\$124,447 \$113,070	\$100,000	\$24,447 \$13,070	\$24,447 \$13,070	\$24,447 \$13,070	1.000	\$124,504
03297	INDIANOLA ISD #25	11/4/2009	Closed	\$113,070	\$107,144	\$100,000	\$7,144	\$7,144	\$7,144	1.000	\$107,246
03567	OOLOGAH TALALA ISD	2/18/2010	Closed	\$107,144	\$107,144	\$100,000	\$19,845	\$7,144 \$19,845	\$7,1 44 \$19,845	1.001	\$107,246
90906	MOUNDS PUBLIC SCHOOLS	5/10/2010	Closed	\$304,711	\$304,711	\$100,000	\$204.711	\$19,645	\$204,711	1.001	\$304,999
90236	ARDMORE ISD #19	10/25/2010	Closed	\$290,942	\$290,942	\$100,000	\$204,711 \$190,942	\$204,711		1.001	
	TAHLEQUAH PUBLIC SCHOOL								\$190,942		\$291,523
90838	LAWTON BOARD OF EDUCATION ISD#8	6/30/2011	Closed	\$280,047	\$280,047	\$100,000	\$180,047	\$180,047	\$180,047	1.002	\$280,607
90297	CHOUTEAU MAZIE SCHOOL DISTRICT	12/6/2010	Closed	\$157,221	\$157,221	\$100,000	\$62,221	\$62,221	\$62,221	1.002	\$157,535
90708		3/22/2011	Closed	\$141,522	\$141,522	\$100,000	\$41,522	\$41,522	\$41,522	1.002	\$141,805
90118	JAY PUBLIC SCHOOLS	9/1/2010	Closed	\$136,645	\$136,645	\$100,000	\$36,645	\$36,645	\$36,645	1.002	\$136,918
90205	HOMINY BOARD OF EDUCATION	10/14/2010	Closed	\$123,444	\$123,444	\$100,000	\$23,444	\$23,444	\$23,444	1.002	\$123,690
90519	VERDIGRIS ISD #8	3/11/2011	Closed	\$122,502	\$122,502	\$100,000	\$22,502	\$22,502	\$22,502	1.002	\$122,747
90084	PUTNAM CITY ISD	8/22/2010	Closed	\$115,615	\$115,615	\$100,000	\$15,615	\$15,615	\$15,615	1.002	\$115,846
90054	CANTON ISD	7/29/2010	Closed	\$114,574	\$114,574	\$100,000	\$17,074	\$17,074	\$17,074	1.002	\$114,804
90313	BOSWELL PUBLIC SCHOOL	12/14/2010	Closed	\$104,163	\$104,163	\$100,000	\$6,663	\$6,663	\$6,663	1.002	\$104,371
91040	MCLOUD ISD	11/11/2011	Closed	\$1,708,795	\$1,708,795	\$200,000	\$1,508,795	\$1,508,795	\$1,508,795	1.004	\$1,716,050
91388	NOWATA ISD	10/25/2011	Closed	\$443,010	\$443,010	\$100,000	\$343,010	\$343,010	\$343,010	1.004	\$444,891
91564	LAWTON BOARD OF EDUCATION ISD#8	5/28/2012	Closed	\$210,533	\$210,533	\$100,000	\$110,533	\$110,533	\$110,533	1.004	\$211,427
91405	FAIRLAND ISD	4/20/2012	Closed	\$263,443	\$263,443	\$100,000	\$163,443	\$163,443	\$163,443	1.004	\$264,561
91014	PADEN PUBLIC SCHOOL	10/13/2011	Closed	\$153,190	\$153,190	\$100,000	\$53,190	\$53,190	\$53,190	1.004	\$153,841
91394	ALTUS ISD	9/1/2011	Closed	\$149,418	\$149,418	\$100,000	\$49,418	\$49,418	\$49,418	1.004	\$150,052
91445	CHOUTEAU MAZIE SCHOOL DISTRICT	8/29/2012	Closed	\$420,468	\$420,468	\$100,000	\$320,468	\$320,468	\$320,468	1.009	\$424,282
91791	LUTHER PUBLIC SCHOOLS	10/25/2012	Open	\$68,679	\$105,000	\$100,000	\$0	\$0	\$5,000	1.009	\$105,952
92222	SPIRO PUBLIC SCHOOLS	12/23/2013	Closed	\$145,266	\$145,266	\$100,000	\$45,266	\$45,266	\$45,266	1.019	\$148,094
92867	HOLLIS ISD	4/4/2014	Closed	\$176,221	\$176,221	\$100,000	\$76,221	\$76,221	\$76,221	1.019	\$179,651
92382	BROKEN ARROW PUBLIC SCHOOLS	1/29/2014	Closed	\$100,352	\$100,352	\$100,000	\$352	\$352	\$352	1.019	\$102,305
92999	SAPULPA ISD	3/2/2015	Closed	\$240,862	\$240,862	\$100,000	\$140,862	\$140,862	\$140,862	1.042	\$250,960
93289	JAY PUBLIC SCHOOLS	3/22/2015	Closed	\$211,827	\$211,827	\$100,000	\$111,827	\$111,827	\$111,827	1.042	\$220,707
93143	POTEAU ISD	5/15/2015	Closed	\$141,576	\$141,576	\$100,000	\$41,576	\$41,576	\$41,576	1.042	\$147,511
93031	YUKON PUBLIC SCHOOLS	1/16/2015	Open	\$17,058	\$104,500	\$100,000	\$0	\$0	\$4,500	1.042	\$108,881
P625-15-93017	WESTERN HEIGHTS ISD	1/9/2015	Open	\$6,804	\$97,169	\$100,000	\$0	\$0	\$0	1.042	\$101,242
93680	ARDMORE ISD #19	3/7/2016	Open	\$92,066	\$170,000	\$100,000	\$0	\$0	\$70,000	1.090	\$185,235
94063	KIAMICHI TECHNOLOGY CENTER	3/24/2016	Open	\$51,960	\$127,000	\$100,000	\$0	\$0	\$27,000	1.090	\$138,381
94194	HARTSHORNE PUBLIC SCHOOL	12/9/2015	Open	\$8,889	\$104,000	\$100,000	\$0	\$0	\$4,000	1.090	\$113,320
94446	VIAN PUBLIC SCHOOLS	5/5/2016	Open	\$0	\$103,000	\$100,000	\$0	\$0	\$3,000	1.090	\$112,230
94280	PERRY ISD	1/27/2017	Open	\$50,400	\$1,053,000	\$100,000	\$0	\$0	\$953,000	1.181	\$1,243,313
94748	KANSAS SCHOOL DISTRICT	4/5/2017	Open	\$12,346	\$110,000	\$100,000	\$0	\$0	\$10,000	1.181	\$129,881
P625-16-94291	MORRIS ISD #3	12/16/2016	Open	\$52,546	\$97,000	\$100,000	\$0	\$0	\$0	1.181	\$114,531
P625-16-93885	TENKILLER SCHOOL	7/8/2016	Open	\$55,449	\$87,000	\$100,000	\$0	\$0	\$0	1.181	\$102,724

\$9,994,453 \$11,735,925

\$5,395,807 \$5,395,807 \$6,472,307

- Loss and policy information provided by Jennifer McKenzie, Arthur J . Gallagher

Excess paid and incurred losses for closed claims are equal to the excess recoveries, or amounts over SIR if no recovery yet Excess paid and incurred losses for open claims are amounts in excess of SIR regardless of recoveries.

Calculation of Limited Losses

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
		Unlimited	Unlimited	Paid	Reported	Paid	Reported
Policy		Paid	Reported	Excess of	Excess of	Limited to	Limited to
Period	Retention	Losses	Losses	Primary	Primary	Primary	Primary
7/1/02-03	\$100,000	\$168,909	\$168,909	\$0	\$0	\$168,909	\$168,909
7/1/03-04	\$100,000	\$848,061	\$848,061	\$7,787	\$7,787	\$840,274	\$840,274
7/1/04-05	\$100,000	\$525,685	\$525,685	\$36,712	\$36,712	\$488,972	\$488,972
7/1/05-06	\$100,000	\$1,330,178	\$1,330,178	\$76,729	\$76,729	\$1,253,449	\$1,253,449
7/1/06-07	\$100,000	\$1,351,835	\$1,351,835	\$398,598	\$398,598	\$953,237	\$953,237
7/1/07-08	\$100,000	\$1,501,995	\$1,501,995	\$69,380	\$69,380	\$1,432,614	\$1,432,614
7/1/08-09	\$100,000	\$2,172,804	\$2,172,804	\$1,013,263	\$1,013,263	\$1,159,541	\$1,159,541
7/1/09-10	\$100,000	\$1,503,488	\$1,524,198	\$231,700	\$231,700	\$1,271,788	\$1,292,498
7/1/10-11	\$100,000	\$2,396,523	\$2,434,762	\$596,676	\$596,676	\$1,799,847	\$1,838,086
7/1/11-12	\$100,000	\$3,699,378	\$3,717,715	\$2,228,390	\$2,228,390	\$1,470,989	\$1,489,325
7/1/12-13	\$100,000	\$1,054,824	\$1,203,814	\$320,468	\$325,468	\$734,356	\$878,345
7/1/13-14	\$100,000	\$833,374	\$947,947	\$121,839	\$121,839	\$711,535	\$826,108
7/1/14-15	\$100,000	\$1,551,489	\$2,113,894	\$294,265	\$298,765	\$1,257,224	\$1,815,129
7/1/15-16	\$100,000	\$1,078,684	\$2,124,067	\$0	\$104,000	\$1,078,684	\$2,020,067
7/1/16-17	\$100,000	\$480,867	\$2,992,363	\$0	\$963,000	\$480,867	\$2,029,363
7/1/17-18	\$100,000	\$28,936	\$400,116	\$0	\$0	\$28,936	\$400,116
Total		\$20,527,029	\$25,358,341	\$5,395,807	\$6,472,307	\$15,131,223	\$18,886,034

⁽A) and (B) - Exhibit I-A

⁽D) and (E) - Excess amounts from claims in Exhibit II, page 1

⁽F) = (B) - (D)

⁽G) = (C) - (E)

Estimated Ultimate Losses Limited to OSIG Retentions **Using Loss Development Methods**

	(4)	(5)	(0)	(5)	(E)	(5)
	(A)	(B)	(C)	(D)	(E)	(F)
		Net				Estimated
	Net	Reported	Reported	Ultimate	Provision	Ultimate
Accident	Reported	on Large	Develop.	on Small	for Large	. Net
Period	Losses	Losses	Factor	Claims	Claims	Losses
7/1/02-03	\$168,909	\$0	1.000	\$168,910	\$0	\$169,000
7/1/03-04	\$848,061	\$107,737	1.000	\$740,333	\$100,000	\$840,000
7/1/04-05	\$525,685	\$136,712	1.000	\$388,982	\$100,000	\$489,000
7/1/05-06	\$1,330,178	\$276,729	1.000	\$1,053,502	\$200,000	\$1,254,000
7/1/06-07	\$1,351,835	\$798,598	1.000	\$553,295	\$400,000	\$953,000
7/1/07-08	\$1,501,995	\$464,380	1.000	\$1,037,838	\$400,000	\$1,438,000
7/1/08-09	\$2,172,804	\$1,313,263	1.000	\$859,929	\$300,000	\$1,160,000
7/1/09-10	\$1,524,198	\$529,200	1.001	\$995,940	\$300,000	\$1,296,000
7/1/10-11	\$2,434,762	\$1,586,676	1.002	\$849,781	\$1,000,000	\$1,850,000
7/1/11-12	\$3,717,715	\$2,928,390	1.004	\$792,677	\$700,000	\$1,493,000
7/1/12-13	\$1,203,814	\$525,468	1.009	\$684,499	\$200,000	\$884,000
7/1/13-14	\$947,947	\$421,838	1.019	\$536,366	\$300,009	\$836,000
7/1/14-15	\$2,113,894	\$795,934	1.042	\$1,373,536	\$500,118	\$1,874,000
7/1/15-16	\$2,124,067	\$504,000	1.092	\$1,768,733	\$400,789	\$2,170,000
	\$2,992,363	\$1,347,000	1.201	\$1,976,024	\$406,854	\$2,383,000
7/1/16-17	\$2,992,303	Ψ1,017,000		. , ,		
7/1/16-17 Total			•			\$19.089.000
	\$24,958,225	\$11,735,925		\$13,780,344	\$5,307,770	\$19,089,000
	\$24,958,225	\$11,735,925		\$13,780,344	\$5,307,770	
		\$11,735,925 (B)	(C)			(F)
	\$24,958,225 (A)	\$11,735,925 (B) Net	(C)	\$13,780,344 (D)	\$5,307,770 (E)	(F) Estimated
Total	\$24,958,225 (A) Net	\$11,735,925 (B) Net Paid	(C) Paid	\$13,780,344 (D) Ultimate	\$5,307,770 (E) Provision	(F) Estimated Ultimate
Total Accident	\$24,958,225 (A) Net Paid	\$11,735,925 (B) Net Paid on Large	(C) Paid Develop.	\$13,780,344 (D) Ultimate on Small	\$5,307,770 (E) Provision for Large	(F) Estimated Ultimate Net
Total	\$24,958,225 (A) Net	\$11,735,925 (B) Net Paid	(C) Paid	\$13,780,344 (D) Ultimate	\$5,307,770 (E) Provision	(F) Estimated Ultimate
Total Accident Period	\$24,958,225 (A) Net Paid Losses	\$11,735,925 (B) Net Paid on Large Losses	(C) Paid Develop. Factor	\$13,780,344 (D) Ultimate on Small Claims	\$5,307,770 (E) Provision for Large Claims	(F) Estimated Ultimate Net Losses
Total Accident Period 7/1/02-03	\$24,958,225 (A) Net Paid Losses \$168,909	\$11,735,925 (B) Net Paid on Large Losses	(C) Paid Develop.	\$13,780,344 (D) Ultimate on Small Claims \$168,924	\$5,307,770 (E) Provision for Large	(F) Estimated Ultimate Net Losses
Total Accident Period 7/1/02-03 7/1/03-04	\$24,958,225 (A) Net Paid Losses	\$11,735,925 (B) Net Paid on Large Losses	(C) Paid Develop. Factor 1.000 1.000	\$13,780,344 (D) Ultimate on Small Claims	\$5,307,770 (E) Provision for Large Claims	(F) Estimated Ultimate Net Losses \$169,000 \$840,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061	(B) Net Paid on Large Losses \$0 \$107,737	(C) Paid Develop. Factor	\$13,780,344 (D) Ultimate on Small Claims \$168,924 \$740,430	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000	(F) Estimated Ultimate Net Losses
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729	(C) Paid Develop. Factor 1.000 1.000 1.000	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000
Total Accident	(A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$400,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.001 1.002	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$400,000 \$300,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,161,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11	(A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.002 1.004	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$400,000 \$300,000 \$300,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,161,000 \$1,278,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488 \$2,396,523	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200 \$1,586,676	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.002 1.004 1.008	\$13,780,344 (D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007 \$816,070	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$400,000 \$300,000 \$300,000 \$1,000,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,161,000 \$1,278,000 \$1,816,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/05-06 7/1/06-07 7/1/07-08 7/1/08-09 7/1/09-10	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488 \$2,396,523 \$3,699,378	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200 \$1,586,676 \$2,928,390	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.002 1.004 1.008 1.016	\$13,780,344 (D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007 \$816,070 \$783,706	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$400,000 \$300,000 \$300,000 \$1,000,000 \$700,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,161,000 \$1,278,000 \$1,278,000 \$1,816,000 \$1,484,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/07-08 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488 \$2,396,523 \$3,699,378 \$1,054,824	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200 \$1,586,676 \$2,928,390 \$489,147	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.002 1.004 1.008 1.016 1.038	\$13,780,344 (D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007 \$816,070 \$783,706 \$587,313	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$400,000 \$400,000 \$300,000 \$300,000 \$1,000,000 \$700,000 \$200,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,161,000 \$1,278,000 \$1,816,000 \$1,484,000 \$787,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/08-09 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488 \$2,396,523 \$3,699,378 \$1,054,824 \$833,374	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200 \$1,586,676 \$2,928,390 \$489,147 \$421,838	(C) Paid Develop. Factor 1.000 1.000 1.000 1.000 1.001 1.001 1.002 1.004 1.008 1.016 1.038 1.097	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007 \$816,070 \$783,706 \$587,313 \$451,651	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$300,000 \$300,000 \$700,000 \$200,000 \$300,000	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,439,000 \$1,439,000 \$1,478,000 \$1,278,000 \$1,484,000 \$787,000 \$752,000
Total Accident Period 7/1/02-03 7/1/03-04 7/1/04-05 7/1/05-06 7/1/06-07 7/1/07-08 7/1/09-10 7/1/10-11 7/1/11-12 7/1/12-13 7/1/13-14 7/1/14-15	\$24,958,225 (A) Net Paid Losses \$168,909 \$848,061 \$525,685 \$1,330,178 \$1,351,835 \$1,501,995 \$2,172,804 \$1,503,488 \$2,396,523 \$3,699,378 \$1,054,824 \$833,374 \$1,551,489	(B) Net Paid on Large Losses \$0 \$107,737 \$136,712 \$276,729 \$798,598 \$464,380 \$1,313,263 \$529,200 \$1,586,676 \$2,928,390 \$489,147 \$421,838 \$618,127	(C) Paid Develop. Factor 1.000 1.000 1.000 1.001 1.001 1.002 1.004 1.008 1.016 1.038 1.097 1.280	(D) Ultimate on Small Claims \$168,924 \$740,430 \$389,061 \$1,053,841 \$553,585 \$1,038,755 \$861,261 \$978,007 \$816,070 \$783,706 \$587,313 \$451,651 \$1,194,397	\$5,307,770 (E) Provision for Large Claims \$0 \$100,000 \$100,000 \$200,000 \$400,000 \$300,000 \$1,000,000 \$700,000 \$200,000 \$300,000 \$300,000 \$500,118	(F) Estimated Ultimate Net Losses \$169,000 \$840,000 \$489,000 \$1,254,000 \$954,000 \$1,161,000 \$1,278,000 \$1,816,000 \$1,484,000 \$787,000 \$752,000 \$1,695,000

Total

\$20,498,093

\$9,994,453

\$12,908,247

\$5,307,770 \$18,217,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) - Appendix A

 $⁽D) = [(A) - (B)] \times (C)$

 $⁽E) = \# large \ x \ SIR \ x \ ccdf$

⁽F)=(D)+(E)

General Liability including E&O

Estimated Ultimate Losses Based on Forecast

	(A)	(B)	(C)
Accident		Detrended	
Period	Exposure	Loss Rate	Forecast
7/1/17-18	376,303	\$5.24	\$1,970,000
7/1/18-19	377,140	\$5.33	\$2,009,000

⁽A) - Exhibit I

⁽B) - From Forecast, detrended

 $⁽C) = (A) \times (B)$

General Liability including E&O

Estimated Ultimate Losses Limited to OSIG Retention Using Bornhuetter-Ferguson Method

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Reported		Expected	Limited	Estimated
Accident	Ultimate or	Develop.	Expected %	Unreported	Reported	Ultimate
Period	Forecast	Factor	Unreported	Losses	Losses	Losses
•						
7/1/02-03	\$168,909	1.000	0%	\$1	\$168,909	\$169,000
7/1/03-04	\$840,274	1.000	0%	\$10	\$840,274	\$840,000
7/1/04-05	\$488,972	1.000	0%	\$12	\$488,972	\$489,000
7/1/05-06	\$1,253,449	1.000	0%	\$63	\$1,253,449	\$1,254,000
7/1/06-07	\$953,237	1.000	0%	\$99	\$953,237	\$953,000
7/1/07-08	\$1,432,614	1.000	0%	\$309	\$1,432,614	\$1,433,000
7/1/08-09	\$1,159,541	1.000	0%	\$523	\$1,159,541	\$1,160,000
7/1/09-10	\$1,297,000	1.001	0%	\$1,227	\$1,292,498	\$1,294,000
7/1/10-11	\$1,852,000	1.002	0%	\$3,695	\$1,838,086	\$1,842,000
7/1/11-12	\$1,417,000	1.004	0%	\$5,991	\$1,489,325	\$1,495,000
7/1/12-13	\$905,000	1.009	1%	\$8,136	\$878,345	\$886,000
7/1/13-14	\$926,000	1.019	2%	\$17,710	\$826,108	\$844,000
7/1/14-15	\$1,729,000	1.042	4%	\$69,959	\$1,815,129	\$1,885,000
7/1/15-16	\$2,143,000	1.092	8%	\$180,124	\$2,020,067	\$2,200,000
7/1/16-17	\$2,224,000	1.201	17%	\$372,156	\$2,029,363	\$2,402,000
7/1/17-18	\$1,970,000	2.358	58%	\$1,134,549	\$400,116	\$1,535,000
Total	\$20,759,996			\$1,794,563	\$18,886,034	\$20,681,000

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Paid		Expected	Limited	Estimated
Accident	Ultimate or	Develop.	Expected %	Unpaid	Paid	Ultimate
Period	Forecast	Factor	Unpaid	Losses	Losses	Losses
7/1/02-03	\$168,909	1.000	0%	\$16	\$168,909	\$169,000
7/1/03-04	\$840,274	1.000	0%	\$120	\$840,274	\$840,000
7/1/04-05	\$488,972	1.000	0%	\$111	\$488,972	\$489,000
7/1/05-06	\$1,253,449	1.000	0%	\$467	\$1,253,449	\$1,254,000
7/1/06-07	\$953,237	1.001	0%	\$599	\$953,237	\$954,000
7/1/07-08	\$1,432,614	1.001	0%	\$1,574	\$1,432,614	\$1,434,000
7/1/08-09	\$1,159,541	1.002	0%	\$2,316	\$1,159,541	\$1,162,000
7/1/09-10	\$1,297,000	1.004	0%	\$4,932	\$1,271,788	\$1,277,000
7/1/10-11	\$1,852,000	1.008	1%	\$14,122	\$1,799,847	\$1,814,000
7/1/11-12	\$1,417,000	1.016	2%	\$22,993	\$1,470,989	\$1,494,000
7/1/12-13	\$905,000	1.038	4%	\$33,338	\$734,356	\$768,000
7/1/13-14	\$926,000	1.097	9%	\$82,245	\$711,535	\$794,000
7/1/14-15	\$1,729,000	1.280	22%	\$377,872	\$1,257,224	\$1,635,000
7/1/15-16	\$2,143,000	1.935	48%	\$1,035,490	\$1,078,684	\$2,114,000
7/1/16-17	\$2,224,000	4.836	79%	\$1,764,159	\$480,867	\$2,245,000
7/1/17-18	\$1,970,000	26.252	96%	\$1,894,959	\$28,936	\$1,924,000
Total	\$20,759,996			\$5,235,313	\$15,131,223	\$20,367,000

⁽A) - Exhibit VI, IV for 7/1/17-18

⁽B) - Appendix A

⁽C) = 1 - 1/(B)

⁽D) = (A) * (C)

⁽D) - Exhibit I, limited to SIR

⁽F) = (D) + (E)

Summary and Selection of Ultimate Limited Loss Estimates

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Reported	Paid			Selected
	Ultimate	Loss	Loss	Expected	Expected	Ultimate
Accident	or	Development	Development	Unreported	Unpaid	Loss
Period	Forecast	Method	Method	Method	Method	Estimate
7/4/02 02	\$169,000	¢160,000	¢160,000	¢160,000	¢160,000	¢169,000
7/1/02-03	\$168,909	\$169,000	\$169,000	\$169,000	\$169,000	\$168,909
7/1/03-04	\$840,274	\$840,000	\$840,000	\$840,000	\$840,000	\$840,274
7/1/04-05	\$488,972	\$489,000	\$489,000	\$489,000	\$489,000	\$488,972
7/1/05-06	\$1,253,449	\$1,254,000	\$1,254,000	\$1,254,000	\$1,254,000	\$1,253,449
7/1/06-07	\$953,237	\$953,000	\$954,000	\$953,000	\$954,000	\$953,237
7/1/07-08	\$1,432,614	\$1,438,000	\$1,439,000	\$1,433,000	\$1,434,000	\$1,432,614
7/1/08-09	\$1,159,541	\$1,160,000	\$1,161,000	\$1,160,000	\$1,162,000	\$1,159,541
7/1/09-10	\$1,297,000	\$1,296,000	\$1,278,000	\$1,294,000	\$1,277,000	\$1,294,000
7/1/10-11	\$1,852,000	\$1,850,000	\$1,816,000	\$1,842,000	\$1,814,000	\$1,842,000
7/1/11-12	\$1,417,000	\$1,493,000	\$1,484,000	\$1,495,000	\$1,494,000	\$1,495,000
7/1/12-13	\$905,000	\$884,000	\$787,000	\$886,000	\$768,000	\$886,000
7/1/13-14	\$926,000	\$836,000	\$752,000	\$844,000	\$794,000	\$844,000
7/1/14-15	\$1,729,000	\$1,874,000	\$1,695,000	\$1,885,000	\$1,635,000	\$1,885,000
7/1/15-16	\$2,143,000	\$2,170,000	\$2,192,000	\$2,200,000	\$2,114,000	\$2,200,000
7/1/16-17	\$2,224,000	\$2,383,000	\$1,907,000	\$2,402,000	\$2,245,000	\$2,402,000
7/1/17-18	\$2,028,000			\$1,535,000	\$1,924,000	\$1,730,000
Total	\$20,817,996	\$19,089,000	\$18,217,000	\$20,681,000	\$20,367,000	\$20,874,996

⁽A) - From Previous Report as of 06/30/17

Limited reported Losses for 02-03 through 08-09

Average of (D) and (E) for 17-18

⁽B) and (C) - Exhibit III

⁽D) and (E) - Exhibit V

⁽F) - Selected as noted

⁽D) for 09-10 through 16-17

Average Ultimate Claim Sizes

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
					Estimated		
		Reported	Estimated	Estimated	Average		
Accident	Reported	Claim	Ultimate	Ultimate	Ultimate	Exposure	Loss
Period	Claims	Development	Claims	Losses	Claim	(Students)	Rate
7///00 00	00	4 000	00.0	* * * * * * * * * *	# 0.000		
7/1/02-03	28	1.000	28.0	\$168,909	\$6,000		
7/1/03-04	88	1.000	88.0	\$840,274	\$9,500		
7/1/04-05	115	1.000	115.0	\$488,972	\$4,300	198,498	\$2.46
7/1/05-06	136	1.000	136.0	\$1,253,449	\$9,200	249,419	\$5.03
7/1/06-07	132	1.000	132.0	\$953,237	\$7,200	267,684	\$3.56
7/1/07-08	163	1.000	163.0	\$1,432,614	\$8,800	308,999	\$4.64
7/1/08-09	155	1.000	155.0	\$1,159,541	\$7,500	313,473	\$3.70
7/1/09-10	144	1.000	144.0	\$1,294,000	\$9,000	314,947	\$4.11
7/1/10-11	110	1.000	110.0	\$1,842,000	\$16,700	346,136	\$5.32
7/1/11-12	87	1.000	87.0	\$1,495,000	\$17,200	272,584	\$5.48
7/1/12-13	109	1.000	109.0	\$886,000	\$8,100	282,168	\$3.14
7/1/13-14	86	1.000	86.0	\$844,000	\$9,800	318,604	\$2.65
7/1/14-15	116	1.000	116.0	\$1,885,000	\$16,200	373,449	\$5.05
7/1/15-16	121	1.002	121.2	\$2,200,000	\$18,100	376,559	\$5.84
7/1/16-17	131	1.017	133.2	\$2,402,000	\$18,000	393,268	\$6.11
7/1/17-18	50	1.882	101.4	\$1,730,000	\$17,100	376,303	\$4.60
7/1/18-19			109.9	\$2,009,000	\$18,300	377,140	\$5.33
Total	1,771		1,934.8	\$22,883,996	\$11,800	4,769,231	\$4.80

⁻ Results for 7/1/18-19 are from Forecast Report

⁽A) - Exhibit I

⁽B) - Appendix A

 $⁽C) = (A) \times (B)$

⁽D) = Exhibit VI

⁽E) = (D) / (C)

⁽F) - Exhibit I, provided by OSIG

⁽G) = (D) / (F)

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)
	Estimated	Limited	Limited	Limited	, ,	. /
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Losses	Losses	Losses	Reserves	Losses	Losses
L						
			January 31, 20			
7/1/02-03	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
7/1/03-04	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
7/1/04-05	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
7/1/06-07	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
7/1/09-10	\$1,294,000	\$1,271,788	\$1,292,498	\$20,710	\$2,000	\$22,000
7/1/10-11	\$1,842,000	\$1,799,847	\$1,838,086	\$38,239	\$4,000	\$42,000
7/1/11-12	\$1,495,000	\$1,470,989	\$1,489,325	\$18,337	\$6,000	\$24,000
7/1/12-13	\$886,000	\$734,356	\$878,345	\$143,989	\$8,000	\$152,000
7/1/13-14	\$844,000	\$711,535	\$826,108	\$114,572	\$18,000	\$132,000
7/1/14-15	\$1,885,000	\$1,257,224	\$1,815,129	\$557,905	\$70,000	\$628,000
7/1/15-16	\$2,200,000	\$1,078,684	\$2,020,067	\$941,383	\$180,000	\$1,121,000
7/1/16-17	\$2,402,000	\$480,867	\$2,029,363	\$1,548,496	\$373,000	\$1,921,000
7/1/17-1/31/18	\$1,009,000	\$28,936	\$400,116	\$371,180	\$609,000	\$980,000
	400 450 000	* 15 10 1 000		*******	* 1 0 7 0 0 0 0	45.000.000
Total	\$20,153,996	\$15,131,223	\$18,886,034	\$3,754,812	\$1,270,000	\$5,022,000
2/1-6/30/18	\$721,000					
		Projected	d as of June 30	2018		
7/1/02-03	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
7/1/03-04	\$840,274	\$840,274	\$840,274	\$ 0	\$0	\$0
7/1/04-05	\$488,972	\$488,972	\$488,972	\$ 0	\$0	\$ 0
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
7/1/06-07	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	\$ 0	\$0	\$0
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
7/1/09-10	\$1,294,000	\$1,277,000	\$1,293,000	\$16,000	\$1,000	\$17,000
7/1/10-11	\$1,842,000	\$1,811,000	\$1,839,000	\$28,000	\$3,000	\$31,000
7/1/11-12	\$1,495,000	\$1,478,000	\$1,491,000	\$13,000	\$4,000	\$17,000
7/1/12-13	\$886,000	\$779,000	\$880,000	\$101,000	\$6,000	\$107,000
7/1/13-14	\$844,000	\$753,000	\$831,000	\$78,000	\$13,000	\$91,000
7/1/14-15	\$1,885,000	\$1,452,000	\$1,834,000	\$382,000	\$51,000	\$433,000
7/1/15-16	\$2,200,000	\$1,373,000	\$2,067,000	\$694,000	\$133,000	\$827,000
7/1/16-17	\$2,402,000	\$769,000	\$2,120,000	\$1,351,000	\$282,000	\$1,633,000
7/1/17-18	\$1,730,000	\$124,000	\$1,172,000	\$1,048,000	\$558,000	\$1,606,000
		•		,	•	,
Total	\$20,874,996	\$16,112,996	\$19,823,996	\$3,711,000	\$1,051,000	\$4,762,000

Total Estimated IBNR as of June 30, 2018 \$1,051,000

⁽A) - Exhibit VI

⁽B) and (C) - Exhibit V as of 1/31/18 Projected as of 6/30/18 using LDFs

⁽D)=(C)-(B)

⁽E)=(A)-(C)

⁽F)=(A)-(B)

Comparison of Results with Previous Estimates as of 06/30/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	0.0%
7/1/09-10	\$1,292,498	\$1,294,085	\$1,292,498	-0.1%	\$1,297,000	\$1,294,000	-0.2%
7/1/10-11	\$1,838,086	\$1,843,016	\$1,838,086	-0.3%	\$1,852,000	\$1,842,000	-0.5%
7/1/11-12	\$1,404,595	\$1,409,008	\$1,489,325	5.7%	\$1,417,000	\$1,495,000	5.5%
7/1/12-13	\$888,365	\$894,291	\$878,345	-1.8%	\$905,000	\$886,000	-2.1%
7/1/13-14	\$894,316	\$905,559	\$826,108	-8.8%	\$926,000	\$844,000	-8.9%
7/1/14-15	\$1,601,147	\$1,645,803	\$1,815,129	10.3%	\$1,729,000	\$1,885,000	9.0%
7/1/15-16	\$1,853,174	\$1,950,393	\$2,020,067	3.6%	\$2,143,000	\$2,200,000	2.7%
7/1/16-17	\$1,729,228	\$1,880,988	\$2,029,363	7.9%	\$2,224,000	\$2,402,000	8.0%
7/1/17-18		\$858,380	\$400,116	-53.4%	\$2,028,000	\$1,730,000	-14.7%
Total	\$17,798,406	\$18,978,521	\$18,886,034	-0.5%	\$20,817,996	\$20,874,996	0.3%

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Paid	Paid	Paid		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	0.0%
7/1/09-10	\$1,271,245	\$1,279,724	\$1,271,788	-0.6%	\$1,297,000	\$1,294,000	-0.2%
7/1/10-11	\$1,799,237	\$1,817,784	\$1,799,847	-1.0%	\$1,852,000	\$1,842,000	-0.5%
7/1/11-12	\$1,356,744	\$1,379,368	\$1,470,989	6.6%	\$1,417,000	\$1,495,000	5.5%
7/1/12-13	\$683,999	\$772,066	\$734,356	-4.9%	\$905,000	\$886,000	-2.1%
7/1/13-14	\$690,630	\$787,556	\$711,535	-9.7%	\$926,000	\$844,000	-8.9%
7/1/14-15	\$1,136,675	\$1,367,558	\$1,257,224	-8.1%	\$1,729,000	\$1,885,000	9.0%
7/1/15-16	\$824,838	\$1,204,977	\$1,078,684	-10.5%	\$2,143,000	\$2,200,000	2.7%
7/1/16-17	\$236,290	\$495,755	\$480,867	-3.0%	\$2,224,000	\$2,402,000	8.0%
7/1/17-18		\$79,941	\$28,936	-63.8%	\$2,028,000	\$1,730,000	-14.7%
Total	\$14,296,654	\$15,481,724	\$15,131,223	-2.3%	\$20,817,996	\$20,874,996	0.3%

⁽A) and (E) - From Previous actuarial report as of 06/30/2017

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Comparison of Results with Previous Estimates as of 01/31/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	1/31/2017	1/31/2018	1/31/2018	Difference	1/31/2017	1/31/2018	Difference
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	0.0%
7/1/09-10	\$1,292,498	\$1,294,865	\$1,292,498	-0.2%	\$1,297,000	\$1,294,000	-0.2%
7/1/10-11	\$1,838,086	\$1,845,433	\$1,838,086	-0.4%	\$1,852,000	\$1,842,000	-0.5%
7/1/11-12	\$1,404,595	\$1,411,165	\$1,489,325	5.5%	\$1,417,000	\$1,495,000	5.5%
7/1/12-13	\$955,172	\$966,168	\$878,345	-9.1%	\$975,000	\$886,000	-9.1%
7/1/13-14	\$894,316	\$917,965	\$826,108	-10.0%	\$936,000	\$844,000	-9.8%
7/1/14-15	\$1,856,732	\$1,922,330	\$1,815,129	-5.6%	\$2,004,000	\$1,885,000	-5.9%
7/1/15-16	\$1,924,046	\$2,098,968	\$2,020,067	-3.8%	\$2,293,000	\$2,200,000	-4.1%
7/1/16-17	\$776,370	\$1,641,692	\$2,029,363	23.6%	\$1,974,000	\$2,402,000	21.7%
7/1/17-18		\$901,130	\$400,116	-55.6%	\$2,129,000	\$1,730,000	-18.7%
Total	\$17,238,813	\$19,296,712	\$18,886,034	-2.1%	\$21,173,996	\$20,874,996	-1.4%

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Paid	Paid	Paid		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	1/31/2017	1/31/2018	1/31/2018	Difference	1/31/2017	1/31/2018	Difference
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	0.0%
7/1/09-10	\$1,271,845	\$1,284,460	\$1,271,788	-1.0%	\$1,297,000	\$1,294,000	-0.2%
7/1/10-11	\$1,797,388	\$1,826,349	\$1,799,847	-1.5%	\$1,852,000	\$1,842,000	-0.5%
7/1/11-12	\$1,316,195	\$1,372,638	\$1,470,989	7.2%	\$1,417,000	\$1,495,000	5.5%
7/1/12-13	\$675,010	\$940,374	\$734,356	-21.9%	\$975,000	\$886,000	-9.1%
7/1/13-14	\$573,337	\$855,683	\$711,535	-16.8%	\$936,000	\$844,000	-9.8%
7/1/14-15	\$936,607	\$1,578,738	\$1,257,224	-20.4%	\$2,004,000	\$1,885,000	-5.9%
7/1/15-16	\$680,832	\$1,206,357	\$1,078,684	-10.6%	\$2,293,000	\$2,200,000	-4.1%
7/1/16-17	\$78,481	\$420,246	\$480,867	14.4%	\$1,974,000	\$2,402,000	21.7%
7/1/17-18		\$83,922	\$28,936	-65.5%	\$2,129,000	\$1,730,000	-18.7%
Total	\$13,626,692	\$15,865,764	\$15,131,223	-4.6%	\$21,173,996	\$20,874,996	-1.4%

⁽A) and (E) - From Previous actuarial report as of 01/31/2017

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

General Liability including E&O

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

		Tra	nsformed V	/alues for R	egression		Fitte	ed Values
Months of	Cumulative	V	\alpha					Cumulative
Maturity	Factors	X'	Υ'	0.001.5	0.004.5			Factor
X	Υ*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Υ
12 24 36 48 60 72	1.303 1.151 1.063 1.033 1.016 1.006	-7.2876 -7.2957 -7.3038 -7.3119 -7.3199 -7.3278	-1.1956 -1.8905 -2.7626 -3.4183 -4.1559 -5.1317	53.109 53.228 53.346 53.464 53.580 53.696	1.4296 3.5740 7.6321 11.6844 17.2715 26.3346	8.7133 13.7927 20.1778 24.9939 30.4206 37.6041	187 175 163 151 139 127 115 103 91 79	1.000 1.000 1.000 1.000 1.000 1.000 1.001 1.002 1.004
5	Sum	-43.8467	-18.5547	320.4229	67.9262	135.7024	67 55	1.009 1.019
	rerage	-7.3078	-3.0924	53.4038	11.3210	22.6171	43	1.042
							31	1.092
							19	1.201
							7	2.358
N -	6			จ				

N =	6		
N = A = 2 B = C =	.863E+304		
В =	96.354	R^2 =	0.996733
C =	1450		

^{* -} Appendix A4

Estimation of Cumulative Paid Loss Development Factors Using "The Method of Least Squares"

		Tr	ansformed		Fitte	ed Values		
Months								_
of	Cumulative	\ <i>a</i>						Cumulative
Maturity	Factors	X'	Υ'	0.004.5				Factor
X	Y*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Υ
12	12.186	-4.0604	2.4147	16.487	5.8306	-9.8046	187	1.000
24	2.607	-4.2485	0.4744	18.050	0.2251	-2.0155	175	1.000
36	1.523	-4.4067	-0.6479	19.419	0.4198	2.8550	163	1.000
48	1.227	-4.5433	-1.4821	20.642	2.1965	6.7335	151	1.000
60	1.066	-4.6634	-2.7132	21.748	7.3615	12.6529	139	1.001
72	1.027	-4.7707	-3.6126	22.759	13.0506	17.2344	127	1.001
84	1.011	-4.8675	-4.5203	23.693	20.4327	22.0025	115	1.002
							103	1.004
							91	1.008
							79	1.016
							67	1.038
S	Sum	-31.5606	-10.0869	142.7976	49.5168	49.6582	55	1.097
Av	erage	-4.5087	-1.4410	20.3997	7.0738	7.0940	43	1.280
	· ·						31	1.935
<u> </u>							19	4.836
							7	26.252
							-	
N -	7			1				

N =	7		
A =	4.912E+15		
В =	8.333	R^2 =	0.995680
C =	46		

^{* -} Appendix A5

General Liability including E&O

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

		Tra	nsformed \	/alues for R	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36	1.061 1.007 1.001	-6.4003 -6.4200 -6.4394	-2.7930 -4.9583 -7.1237	40.963 41.216 41.465	7.8008 24.5847 50.7467	17.8759 31.8322 45.8718	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Sum erage	-19.2596 -6.4199	-14.8750 -4.9583	123.6449 41.2150	83.1322 27.7107	95.5799 31.8600	55 43 31	1.000 1.000 1.002
	2			1			19 7	1.017 1.882

N =	3	
N = A = 5.0 B = C =	30E+306	
B =	110.776	$R^2 = 0.999968$
C =	590	

^{* -} Appendix A6

Analysis of Reported Loss Development Reported Losses and ALAE Net of Member Deductibles

			Repo	rted Losses ar	nd ALAE as or	(months):				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05	\$334,164	\$494,404	\$546,889	\$667,336	\$536,764	\$525,685	\$525,685	\$525,685	\$525,685	\$525,685
7/1/05-06	\$816,923	\$1,112,049	\$1,229,274	\$1,405,786	\$1,398,668	\$1,318,468	. ,	. ,	\$1,330,178	
7/1/06-07	\$980,380	\$1,099,400	\$1,048,254	\$1,108,562	\$1,328,586	\$1,351,525	\$1,411,197		. , ,	\$1,351,835
7/1/07-08	\$1,546,988	\$1,678,303	\$1,820,948	\$1,681,989	\$1,578,663	\$1,528,365			\$1,501,995	. , ,
7/1/08-09	\$1,818,383	\$1,498,349	\$1,690,273	\$1,328,980	. , ,	\$1,303,460		\$2,172,804	. , ,	¥ 1,20 1,200
7/1/09-10	\$1,911,271	\$1,672,753	\$1,443,458	\$1,751,670			\$1,524,198		ΨΞ, Ξ,σσ .	
7/1/10-11	\$2,532,003	\$2,683,693	\$2,774,100	\$2,589,243	. , ,	\$2,434,762	. , ,	* .,== ., .==		
7/1/11-12	\$1,927,480	\$2,611,099	\$3,751,625	\$3,977,466	\$3,919,928		+- ,,			
7/1/12-13	\$1,311,489	\$1,442,277	\$1,150,970	\$1,348,515	\$1,213,833	+ -,,				
7/1/13-14	\$1,136,920	\$1,270,561	\$1,003,224	\$1,041,935	+ -,=,					
7/1/14-15	\$1,195,898	\$1,507,077	\$1,985,502	, , , ,						
7/1/15-16	\$1,726,427	\$1,880,174	, ,,							
7/1/16-17	\$2,362,228									
				Age-to-	Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult
7/1/04-05	1.480	1.106	1.220	0.804	0.979	1.000	1.000	1.000	1.000	
7/1/05-06	1.361	1.105	1.144	0.995	0.943	1.013	0.996	1.000	1.000	
7/1/06-07	1.121	0.953	1.058	1.198	1.017	1.044	1.000	0.958	1.000	
7/1/07-08	1.085	1.085	0.924	0.939	0.968	0.983	1.000	1.000	1.000	
7/1/08-09	0.824	1.128	0.786	0.912	1.076	1.725	0.966	1.000		
7/1/09-10	0.875	0.863	1.214	0.915	0.976	0.974	1.000			
7/1/10-11	1.060	1.034	0.933	0.978	0.962	1.000				
7/1/11-12	1.355	1.437	1.060	0.986	0.956					
7/1/12-13	1.100	0.798	1.172	0.900						
7/1/13-14	1.118	0.790	1.039							
7/1/14-15	1.260	1.317								
7/1/15-16	1.089									
Average	1.144	1.056	1.055	0.959	0.985	1.106	0.994	0.992	1.000	
Wtd. Avg.	1.099	1.081	1.027	0.966	0.976	1.095	0.991	0.991	1.000	
Industry	1.893	1.364	1.183	1.104	1.064	1.042	1.029	1.020	1.015	1.071
OK Benchmark	2.083	1.191	0.907	0.959	0.953	1.000	1.000	1.000	1.000	1.000
Prior	1.119	1.085	1.032	1.017	1.010	1.006	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.132	1.083	1.029	1.017	1.010	1.006	1.000	1.000	1.000	1.000
Cumulative	1.303	1.151	1.063	1.033	1.016	1.006	1.000	1.000	1.000	1.000

Analysis of Paid Loss Development Paid Losses and ALAE Net of Member Deductibles

			Paid	Losses and	ALAE as of (r	months):				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05	\$135,749	\$315,927	\$386,597	\$490,920	\$536,764	\$525,685	\$525,685	\$525,685	\$525,685	\$525,685
7/1/05-06	\$231,455	\$584,973	\$771,010	\$1,092,719	\$1,312,650	\$1,313,442	\$1,330,178	\$1,330,178	\$1,330,178	\$1,330,178
7/1/06-07	\$322,617	\$678,216	\$787,689	\$943,320	\$1,208,914	\$1,271,236	\$1,344,837	\$1,351,835	\$1,351,835	\$1,351,835
7/1/07-08	\$170,163	\$665,391	\$1,286,746	\$1,455,173	\$1,501,494	\$1,501,995	\$1,501,995	\$1,501,995	\$1,501,995	\$1,501,995
7/1/08-09	\$158,208	\$609,160	\$939,799	\$984,969	\$1,127,969	\$1,163,044	\$2,170,476	\$2,172,804	\$2,172,804	
7/1/09-10	\$297,737	\$767,474	\$1,041,914	\$1,347,942	\$1,505,891	\$1,496,609	\$1,503,479	\$1,502,945		
7/1/10-11	\$201,545	\$1,303,203	\$2,109,602	\$2,299,143	\$2,347,892	\$2,385,861	\$2,395,912			
7/1/11-12	\$128,159	\$704,902	\$1,700,471	\$2.356.202	\$3,580,758	\$3.685.134				
7/1/12-13	\$148,090	\$496,864	\$655,081	. , ,	\$1,004,467	, , , , , , ,				
7/1/13-14	\$70,272	\$359,375	\$563,792	\$811,678	, , , , , ,					
7/1/14-15	\$131,121	\$604,571	\$1,391,247	, - ,						
7/1/15-16	\$275,027	\$824,838								
7/1/16-17	\$236,290	, - ,								
				Age-to-	Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:uli
7/1/04-05	2.327	1.224	1.270	1.093	0.979	1.000	1.000	1.000	1.000	
7/1/05-06	2.527	1.318	1.417	1.201	1.001	1.013	1.000	1.000	1.000	
7/1/06-07	2.102	1.161	1.198	1.282	1.052	1.058	1.005	1.000	1.000	
7/1/07-08	3.910	1.934	1.131	1.032	1.000	1.000	1.000	1.000	1.000	
7/1/08-09	3.850	1.543	1.048	1.145	1.031	1.866	1.001	1.000		
7/1/09-10	2.578	1.358	1.294	1.117	0.994	1.005	1.000			
7/1/10-11	6.466	1.619	1.090	1.021	1.016	1.004				
7/1/11-12	5.500	2.412	1.386	1.520	1.029					
7/1/12-13	3.355	1.318	1.497	1.024						
7/1/13-14	5.114	1.569	1.440							
7/1/14-15	4.611	2.301								
7/1/15-16	2.999									
Average	3.778	1.614	1.277	1.159	1.013	1.135	1.001	1.000	1.000	
Ntd. Avg.	3.487	1.641	1.246	1.182	1.017	1.115	1.001	1.000	1.000	
ndustry	2.697	1.682	1.345	1.195	1.119	1.077	1.052	1.037	1.027	1.116
OK benchmark	2.640	1.901	1.307	1.099	1.038	1.016	1.008	1.003	1.000	1.000
Prior	5.009	1.712	1.236	1.120	1.038	1.016	1.008	1.003	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	4.674	1.712	1.241	1.151	1.038	1.016	1.008	1.003	1.000	1.000
Cumulative	12.186	2.607	1.523	1.227	1.066	1.027	1.011	1.003	1.000	1.000

Analysis of Reported Occurrences

			Rep	orted Claims a	as of (months)	:				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05		115	116	116	116	115	115	115	115	11
7/1/05-06	114	136	137	138	136	136	136	136	136	130
7/1/06-07	128	132	133	132	132	132	132	132	132	13
7/1/07-08	148	161	164	164	163	163	163	163	163	16
7/1/08-09	146	155	155	155	155	155	155	155	155	
7/1/09-10	139	143	144	144	144	144	144	144		
7/1/10-11	108	109	109	110	110	110	110			
7/1/11-12	89	87	87	87	87	87				
7/1/12-13	110	109	109	109	109					
7/1/13-14	83	85	86	86						
7/1/14-15	103	116	116							
7/1/15-16	120	122								
7/1/16-17	125									
				Age-to-Age	Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:u
7/1/04-05		1.009	1.000	1.000	0.991	1.000	1.000	1.000	1.000	
7/1/05-06	1.193	1.007	1.007	0.986	1.000	1.000	1.000	1.000	1.000	
7/1/06-07	1.031	1.008	0.992	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/07-08	1.088	1.019	1.000	0.994	1.000	1.000	1.000	1.000	1.000	
7/1/08-09	1.062	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/09-10	1.029	1.007	1.000	1.000	1.000	1.000	1.000			
7/1/10-11	1.009	1.000	1.009	1.000	1.000	1.000				
7/1/11-12	0.978	1.000	1.000	1.000	1.000					
7/1/12-13	0.991	1.000	1.000	1.000						
7/1/13-14	1.024	1.012	1.000							
7/1/14-15	1.126	1.000								
7/1/15-16	1.017									
Average	1.050	1.006	1.001	0.998	0.999	1.000	1.000	1.000	1.000	
Ntd. Avg.	1.052	1.006	1.001	0.997	0.999	1.000	1.000	1.000	1.000	
OK benchmark	1.303	1.016	1.005	1.002	1.001	1.000	1.000	1.000	1.000	1.00
Prior	1.056	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.00
	12	24	36	48	60	72	84	96	108	12
Selected	1.054	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.00
Cumulative	1.061	1.007	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.00

Derivation of Lognomoral Parameters Based on Reported Loss Development

			Natural	Logarithm of	Age to Age F	actors				
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ul
7/1/04-05	0.392	0.101	0.199	-0.218	-0.021	0.000	0.000	0.000	0.000	
7/1/05-06	0.308	0.100	0.134	-0.005	-0.059	0.013	-0.004	0.000	0.000	
7/1/06-07	0.115	-0.048	0.056	0.181	0.017	0.043	0.000	-0.043	0.000	
7/1/07-08	0.081	0.082	-0.079	-0.063	-0.032	-0.017	0.000	0.000	0.000	
7/1/08-09	-0.194	0.121	-0.240	-0.092	0.073	0.545	-0.034	0.000		
7/1/09-10	-0.133	-0.147	0.194	-0.089	-0.025	-0.026	0.000			
7/1/10-11	0.058	0.033	-0.069	-0.022	-0.039	0.000				
7/1/11-12	0.304	0.362	0.058	-0.015	-0.045					
7/1/12-13	0.095	-0.226	0.158	-0.105						
7/1/13-14	0.111	-0.236	0.038							
7/1/14-15	0.231	0.276								
7/1/15-16	0.085									
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	
ariance	0.030	0.036	0.020	0.012	0.010	0.005	0.005	0.000	0.000	
um. Variance	0.118	0.088	0.052	0.032	0.020	0.010	0.005	0.000	0.000	
D	0.343	0.297	0.227	0.179	0.143	0.102	0.073	0.019	0.000	

Property with Auto Physical Damage Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Large Claim Listing
Exhibit III	Loss Development Methods
Exhibit IV	Forecast for Current Year
Exhibit V	Bornhuetter-Ferguson Methods
Exhibit VI	Summary and Selection of Ultimate Losses
Exhibit VII	Average Claim Size
Exhibit VIII	Outstanding Losses as of 1/31/2018 and Projected as of 6/30/2018
Appendix A	Loss Development Factors and Triangles



Summary of Loss Data as of January 31, 2018 Total Experience Net of Deductibles

(A)	(B)	(C)	(L	D)	(E)	(F)	(G)	(H)	(1)	(J)
							Expense	Expense		
Accident	Evaluation	Maturity	Total	Open	Loss	Loss	and Legal	and Legal	Total	Total
Period	Date	(months)	Claims	Claims	Payment	Reserve	Payment	Reserve	Reported	Insured Value
7/1/02-03	1/31/2018	187	24	0	\$282,938	\$0	\$29,106	\$0	\$312,045	
7/1/03-04	1/31/2018	175	104	0	\$2,447,356	\$0	\$66,143	\$0	\$2,513,499	
7/1/04-05	1/31/2018	163	122	0	\$1,235,815	\$0 \$0	\$69,782	\$0 \$0	\$1,305,598	\$3,756,688,926
7/1/05-06	1/31/2018	151	190	0		\$0 \$0	. ,	\$0 \$0	. , ,	
				-	\$3,080,547		\$142,157		\$3,222,704	\$5,058,376,762
7/1/06-07	1/31/2018	139	232	0	\$7,508,252	\$0	\$164,672	\$0	\$7,672,924	\$6,396,402,749
7/1/07-08	1/31/2018	127	255	0	\$27,287,989	\$0	\$261,094	\$0	\$27,549,083	\$7,053,258,491
7/1/08-09	1/31/2018	115	211	0	\$14,558,473	\$0	\$226,138	\$0	\$14,784,611	\$7,478,044,795
7/1/09-10	1/31/2018	103	266	0	\$17,140,491	\$0	\$250,287	\$0	\$17,390,777	\$7,801,896,787
7/1/10-11	1/31/2018	91	225	0	\$26,419,286	\$0	\$52,656	\$0	\$26,471,942	\$8,214,036,469
7/1/11-12	1/31/2018	79	173	0	\$3,946,066	\$0	\$72,423	\$0	\$4,018,489	\$6,347,461,637
7/1/12-13	1/31/2018	67	162	0	\$6,097,006	\$0	\$39,448	\$0	\$6,136,455	\$6,526,038,633
7/1/13-14	1/31/2018	55	157	0	\$4,537,170	\$0	\$53,119	\$0	\$4,590,290	\$8,356,362,827
7/1/14-15	1/31/2018	43	206	1	\$4,301,799	\$250,000	\$110,228	\$0	\$4,662,027	\$8,137,357,454
7/1/15-16	1/31/2018	31	180	5	\$5,139,389	\$133,680	\$146,667	\$15,966	\$5,435,702	\$8,295,479,409
7/1/16-17	1/31/2018	19	233	24	\$5,924,246	\$3,164,104	\$154,910	\$39,903	\$9,283,163	\$9,500,793,518
7/1/17-18	1/31/2018	7	120	57	\$1,659,531	\$6,116,979	\$33,947	\$103,922	\$7,914,379	\$9,011,886,407
7/1/18-19										\$9,053,414,500
			2860	87	\$131,566,354	\$9,664,763	\$1,872,778	\$159,791	\$143,263,686	\$110,987,499,364

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

⁻ Claims are grouped by occurrence, and exclude claims with \$0 incurred

⁻ Losses are net of member deductibles

Losses over SIR

00028					Paid	Reported							
1907-20 1907				Coverage			SIP	Deductibles				•	
00289	000#	Date	Status	Coverage	LUSSES	LUSSES	SIK	Deductibles	Recoveries	raiu	Керопец	racioi	Ullillate
08012 476200 Closed Word \$1,051,796 \$1,051,795 \$200,000 \$35,000 \$35,705 \$851,795 \$851,795 \$100,000 \$1,051,705 \$100,000 \$1,051,705 \$100,000 \$1,051,705 \$10,000 \$1,051,705 \$10,000 \$1	00120	9/26/2003	Closed	AOP	\$160,863	\$160,863	\$100,000	\$2,500	\$63,363	\$63,363	\$63,363	1.000	\$160,863
00022 4/19/2005 Closed AOP \$137.015 \$13	00280	4/23/2004	Closed	Wind	\$501,173	\$501,173	\$200,000	\$10,000	\$311,173	\$311,173	\$311,173	1.000	\$501,173
000937 27/20006 Closed Wind \$509,241 \$509,241 \$200,000 \$1,000 \$329,241 \$232,241 \$232,241 \$0.00 \$800,003 \$100,000 \$312,328 \$100,000 \$312,308 \$310,000 \$312,328 \$100,000 \$312,308 \$312,308 \$312,308 \$312,308 \$312,308 \$312,308 \$312,308 \$3	00312		Closed	Wind	\$1,051,795	\$1,051,795	\$200,000		\$851,795		. ,	1.000	\$1,051,795
0006 31/2006 Closed AOP \$123.265 \$122.265 \$100.000 \$175.000 \$24.265 \$24.265 \$24.265 \$10.000 \$123.265 \$10.000 \$175.000	00622												\$137,015
10006 31/12/2006 Closed Wind \$302,883 \$302,883 \$300,000 \$11,500 \$808,003 \$389,003 \$309,003 \$10,000 \$249,725 \$249,72													
101070													
101090													
1915 1915													
1144													
101001													
1014 15/28/2007 Closed AOP \$288,761 \$288,761 \$100,000 \$125,000 \$115,1982 \$151,982 \$151,982 \$215,982 \$215,000 \$228,000 \$229,000													
101932 1019332 101933334 101933334 10193334 10193334 10193334 10193334 10193334 10	0014												
12072098 Closed AOP \$4,048,087 \$100,000 \$5,000 \$3,936,087 \$3,955,087 \$3,955,087 \$0,000 \$4,049,000 \$1,02095 \$1,020,008 \$1,020,008 \$1,000,000 \$2,500 \$1,231,142 \$1,233,142 \$1,030 \$1,300,048 \$1,000 \$1,42,023 \$1,000,000 \$2,500 \$1,231,142 \$1,030 \$1,300,048 \$1,000 \$1,42,023 \$1,000,000 \$2,500 \$4,46,93 \$44,6	01932								. ,				\$4,417,502
22025 21/22/080 Cinsed AOP \$1342,030 \$1342,030 \$100,000 \$2,500 \$43,693 \$44,693 \$40,693 \$40,000 \$142,030 \$100,000 \$2,500 \$44,693 \$40,69	02010	12/10/2007	Closed	AOP	\$7,939,099	\$7,939,099	\$100,000	\$2,500	\$7,839,099	\$7,839,099	\$7,839,099	1.000	\$7,939,099
2212	02077	1/27/2008	Closed	AOP	\$4,048,087	\$4,048,087	\$100,000	\$5,000	\$3,953,087	\$3,953,087	\$3,953,087	1.000	\$4,048,087
10077	02095												\$1,330,642
22225 4/10/2008 Closed AOP \$244,208 \$254,208 \$100,000 \$2,500 \$166,708 \$166,708 \$160,708 \$160,708 \$160,708 \$160,708 \$160,708 \$160,708 \$160,708 \$160,708 \$264,208 \$200,000 \$20,000 \$50,000 \$834,665 \$88,655 \$378,983<	02123												\$142,203
102263 51/10/2008 Closed Wind S1,079,655 S1,079,655 S200,000 S5,000 S884,655 S884,655 S884,655 1,000 S1,078,65 S2,020,000 S7,020,000 S5,000 S1,000,000 S5,000 S1,000,000 S2,000 S5,000 S1,000,000 S2,000													
0020 5/22/2008 Closed Wind \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$737,893 \$ \$200,000 \$ \$400,000					. ,								
0022 61/2008 Closed Wind \$1,617.657 \$1,617.657 \$20,00.00 \$47,000 \$27,558.868 \$27,558.868 \$27,558.868 \$1,000 \$2,874.550 \$1,004 \$1													
0019													
12412 77/15/2008 Closed AOP \$118,000 \$118,000 \$100,000 \$2,500 \$20,500 \$20,500 \$20,500 \$10,000 \$2,500 \$20,500 \$20,500 \$20,500 \$10,000 \$2,500 \$20,500 \$30 \$10 \$10,000 \$18,25,926 \$10,000 \$2,500 \$30 \$30 \$10 \$10,000 \$18,25,926 \$10,000 \$2,500 \$30 \$30 \$10,000 \$18,25,926 \$30,347 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
102442													
116/2008 Closed Wind \$1,825,926 \$1,825,926 \$2,00,000 \$4,1000 \$1,820,926 \$1,820,9					. ,								
128/12008 128/12008 Closed AOP \$89,774 \$89,774 \$100,000 \$2,500 \$0 \$0 \$0 \$0.000 \$389,000 \$39,000	0024								. ,				\$1,825,926
02724 1/2/12/099 Closed AOP \$359,928 \$359,928 \$100,000 \$25,00 \$26,248 \$262,428 \$262,428 \$100,00 \$333,347 0027 2/10/2009 Closed Wind \$403,324 \$403,324 \$200,000 \$40,000 \$23,324 \$203,324 \$203,324 \$203,324 \$100 \$333,347 0027 2/17/2009 Closed Wind \$403,324 \$403,324 \$200,000 \$2,500 \$2,312,125 \$2,212,1259 \$1,000 \$2,321,145 \$2,372,141 \$1,000 \$2,250 \$2,372,141 \$2,372,142 \$2,372,142 \$2,300,000 \$35,000 \$660,773 \$660,773 \$100 \$655,773 \$860,773 \$100 \$865,773 \$100 \$860,773 \$660,773 \$100 \$931,102 \$300 \$100 \$188,354 \$188,354 \$100 \$103,200 \$100 \$100,200 \$10,200 \$2,500 \$2,782,114 \$2,372,144 \$2,300,000 \$10,000 \$360,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000	02660	12/8/2008		AOP			\$100,000						\$89,774
202786 2101/2009 Closed Wind \$403.324 \$403.324 \$200.000 \$40,000 \$203.324 \$203.3	02724	1/21/2009	Closed	AOP	\$359,928		\$100,000	\$2,500	\$262,428	\$262,428	\$262,428	1.000	\$359,928
10030 277/2009 Closed AOP \$2,319,259 \$2,319,259 \$100,000 \$2,500 \$2,219,259 \$2,219,259 \$2,219,259 \$2,219,259 \$2,219,259 \$2,219,259 \$2,219,259 \$2,272,114 \$2,372,114 \$	0026	1/26/2009	Closed	AOP	\$333,470	\$333,470	\$100,000	\$38,500	\$233,474	\$233,474	\$233,474	1.000	\$333,470
0030	0027												\$403,324
0.031													\$2,319,259
10033													
10037													
0032 5/1/2009 Closed AOP \$1,097,400 \$1,097,400 \$100,000 \$50,000 \$987,387 \$987,387 \$100 \$1,097,40 0036 6/12/2009 Closed Wind \$1,363,503 \$1,097,40 \$200,000 \$72,000 \$1,163,503 \$1,163,503 \$1,163,503 \$1,163,503 \$1,163,503 \$1,000 \$1,363,503 03078 7/21/2009 Closed Wind \$332,689 \$332,689 \$200,000 \$62,500 \$128,899 \$132,689 \$132,689 \$10,000 \$332,689 030181 7/27/2009 Closed AOP \$4,975,483 \$4,975,483 \$100,000 \$2,500 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,877,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 \$4,979,983 <td></td>													
0036 6/12/2009 Closed Wind \$311,981 \$311,981 \$200,000 \$62,500 \$128,176 \$128,176 \$1.000 \$311,981 \$332,689 \$34,877,983 \$4,8													
193078 7/21/2009 Closed Wind \$332,689 \$332,689 \$200,000 \$10,000 \$132,689 \$132,689 \$132,689 \$100 \$332,689 \$304,502 \$304,502 \$304,502 \$100,000 \$5,000 \$204,502 \$204,502 \$204,502 \$204,502 \$304,502 \$													
03081 7/27/2009 Closed AOP \$304,502 \$304,502 \$100,000 \$5,000 \$204,502 \$204,502 \$204,502 \$1,000 \$304,502 03122 8/21/2009 Closed AOP \$4,975,483 \$4,975,483 \$100,000 \$2,500 \$4,877,983 \$4,877,983 \$1,000 \$4,975,483 03179 9/20/2009 Closed AOP \$134,098 \$134,098 \$134,098 \$100,000 \$2,500 \$34,101 \$34,101 \$30,641 \$100,364 \$100,000 \$2,500 \$34,101 \$34,101 \$30,641 \$100,364 \$100,000 \$2,500 \$34,101 \$34,101 \$30,641 \$100,364 \$100,000 \$12,500 \$102,361 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
03122 8/21/2009 Closed AOP \$4,975,483 \$4,975,483 \$100,000 \$2,500 \$4,877,983 \$4,877,983 \$1,000 \$4,975,483 03138 8/29/2009 Closed AOP \$139,641 \$139,641 \$100,000 \$2,500 \$39,641 \$39,641 \$39,641 \$100,000 \$134,098 \$100,000 \$2,500 \$34,101 \$34,101 \$34,101 \$100 \$134,098 \$100,000 \$2,500 \$34,101 \$34,101 \$34,101 \$100,36	03081												\$304,502
03179 9/20/2009 Closed Closed AOP \$134,098 \$134,098 \$100,000 \$2,500 \$34,101 \$34,101 \$100,000 \$134,098 0038 12/27/2009 Closed AOP \$206,927 \$206,927 \$100,000 \$12,500 \$102,361 \$102,361 \$102,361 \$100,000 \$206,927 0040 1/30/2010 Closed AOP \$976,159 \$976,159 \$100,000 \$32,500 \$875,889 \$875,889 \$1000 \$976,159 0040 1/30/2010 Closed AOP \$719,056 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$1000 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$1000 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$1000 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$1000 \$719,056 \$100,000 \$102,000 \$3,608,302 \$3,608,302 \$3,608,302 \$3,608,302 \$1000 \$1000 \$102,000 \$102,000 \$102,000	03122		Closed									1.000	\$4,975,483
0038 12/27/2009 Closed AOP \$206,927 \$206,927 \$100,000 \$12,500 \$102,361 \$102,361 \$102,361 \$100,361 \$100,361 \$102,361 \$102,361 \$100 \$100 \$100,461 \$100,401	03138	8/29/2009	Closed	AOP	\$139,641	\$139,641	\$100,000	\$2,500	\$39,641	\$39,641	\$39,641	1.000	\$139,641
0039 1/9/2010 Closed AOP \$976,159 \$976,159 \$100,000 \$32,500 \$875,889 \$875,889 \$875,889 1.000 \$976,159 0040 1/30/2010 Closed AOP \$719,056 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$1.000 \$719,056 00548 4/4/2010 Closed AOP \$189,327 \$189,327 \$100,000 \$2,500 \$91,827 \$91,827 \$10.000 \$3,608,302 \$3,608,302 \$3,608,302 \$1.000 \$3,608,302 \$3,	03179	9/20/2009	Closed	AOP	\$134,098	\$134,098	\$100,000	\$2,500		\$34,101	\$34,101	1.000	\$134,098
1/30/2010 Closed AOP \$719,056 \$719,056 \$100,000 \$142,500 \$632,790 \$632,790 \$632,790 \$1.000 \$719,056 \$1.0000 \$1.0000 \$1.0000 \$1.000 \$1.0000 \$1.0000 \$1.0000 \$1.0000 \$1.0000 \$1.0000 \$1.0000 \$1.0	0038								. ,				\$206,927
03548 4/4/2010 Closed AOP \$189,327 \$189,327 \$100,000 \$2,500 \$91,827 \$91,827 \$91,827 \$1000 \$189,327 0041 5/10/2010 Closed Wind \$3,827,504 \$3,827,504 \$200,000 \$102,000 \$3,608,302 <	0039												\$976,159
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0042 5/13/2010 Closed Wind \$2,084,566 \$2,084,566 \$200,000 \$65,000 \$1,893,566 \$1,000 \$22,084,566 \$200,000 \$100,000 \$2,000 \$2,000 \$242,204 \$200,000 \$242,204 \$200,000 \$247,854 \$100,000 \$2,500 \$2,500 \$5,400 \$5,400 \$100,400 \$100,400 \$2,500 \$10,445 \$100,400 \$100,400 \$2,500 \$10,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100,445 \$100											, .		
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0043 2/2/2011 Closed AOP \$1,042,859 \$1,042,859 \$100,000 \$85,000 \$942,862 \$942,862 \$942,862 \$1,042,859 0044 2/3/2011 Closed AOP \$536,699 \$536,699 \$100,000 \$10,000 \$455,061 \$455,061 \$455,061 1.000 \$536,699 0045 2/10/2011 Closed AOP \$125,469 \$125,469 \$100,000 \$15,000 \$25,469 \$25,469 \$26,469 \$10,000 \$125,469 0046 2/10/2011 Closed AOP \$459,599 \$459,599 \$100,000 \$85,000 \$364,899 \$364,899 \$364,899 \$10,000 \$459,599 90532 4/8/2011 Closed AOP \$181,084 \$181,084 \$100,000 \$2,500 \$81,084 \$81,084 \$81,084 \$10,000 \$11,642,991 \$11,642,991 \$10,000 \$11,842,873 0048 4/14/2011 Closed Wind \$11,842,873 \$11,842,873 \$200,000 \$79,500 \$11,642,991 \$11,642,9	90334												\$518,228
0044 2/3/2011 Closed AOP \$536,699 \$536,699 \$100,000 \$10,000 \$455,061 \$455,061 \$455,061 1.000 \$536,699 0045 2/10/2011 Closed AOP \$125,469 \$125,469 \$100,000 \$15,000 \$25,469 \$25,469 \$25,469 1.000 \$125,469 0046 2/10/2011 Closed AOP \$459,599 \$459,599 \$100,000 \$85,000 \$364,899 \$364,899 \$364,899 1.000 \$459,599 90532 4/8/2011 Closed AOP \$181,084 \$181,084 \$100,000 \$2,500 \$81,084 \$81,084 \$10,000 \$11,642,991 \$11,642,991 1.000 \$11,842,873 0048 4/14/2011 Closed Wind \$11,842,873 \$11,842,873 \$200,000 \$79,500 \$11,642,991 \$11,642,991 1.000 \$11,842,873	0043					. ,							\$1,042,859
0046 2/10/2011 Closed AOP \$459,599 \$459,599 \$100,000 \$85,000 \$364,899 \$364,899 \$364,899 1.000 \$459,599 90532 4/8/2011 Closed AOP \$181,084 \$181,084 \$100,000 \$2,500 \$81,084 \$81,084 \$81,084 1.000 \$181,084 9048 4/14/2011 Closed Wind \$11,842,873 \$11,842,873 \$200,000 \$79,500 \$11,642,991 \$11,642,991 \$11,642,991 1.000 \$11,842,873	0044								\$455,061				\$536,699
90532 4/8/2011 Closed AOP \$181,084 \$181,084 \$100,000 \$2,500 \$81,084 \$81,084 \$81,084 1.000 \$181,084 0048 4/14/2011 Closed Wind \$11,842,873 \$11,842,873 \$200,000 \$79,500 \$11,642,991 \$11,642,991 \$11,642,991 1.000 \$11,842,873	0045			AOP									\$125,469
0048 4/14/2011 Closed Wind \$11,842,873 \$11,842,873 \$200,000 \$79,500 \$11,642,991 \$11,642,991 \$11,642,991 1.000 \$11,842,87	0046		Closed	AOP		\$459,599						1.000	\$459,599
	90532												\$181,084
0050 5/22/2011 Closed Wind \$8,131,959 \$8,131,959 \$200,000 \$128,000 \$7,899,380 \$7,899,380 \$7,899,380 1.000 \$8,131,95	0048												\$11,842,873
	0050	5/22/2011	Closed	Wind	\$8,131,959	\$8,131,959	\$200,000	\$128,000	\$7,899,380	\$7,899,380	\$7,899,380	1.000	\$8,131,959

Losses over SIR

				Paid	Reported							
CAT# or	Loss	Claim	_	Pure	Pure			Excess	Excess	Excess	Severity	Net
Occ#	Date	Status	Coverage	Losses	Losses	SIR	Deductibles	Recoveries	Paid	Reported	Factor	Ultimate
04004	4/45/0040	Classel	A	£405.000	£405.000	#250.000	#0.500		#000 000	# 000 000	1.000	£405.000
91234	4/15/2012	Closed	Any	\$485,893	\$485,893	\$250,000	\$2,500		\$238,393	\$238,393	1.000	\$485,893
91287	5/4/2012	Closed	Any	\$483,077	\$483,077	\$250,000	\$12,000		\$245,077	\$245,077	1.000	\$483,077
90999	11/7/2011	Closed	Any	\$426,749	\$426,749	\$250,000	\$9,000		\$185,749	\$185,749	1.000	\$426,749
91351	5/29/2012	Closed	Any	\$340,228	\$340,228	\$250,000	\$58,000		\$148,228	\$148,228	1.000	\$340,228
							ses for 11/12		\$817,446	\$817,446		
					Applied to \$2,7	00,000 Corri	dor for 11/12		\$817,446	\$817,446		
0052	4/26/2013	Closed	Any	\$1,670,786	\$1,670,786	\$250,000	\$103,000		\$1,523,786	\$1,523,786	1.000	\$1,670,786
0054	5/30/2013	Closed	Any	\$1,003,799	\$1,003,799	\$250,000	\$265,000		\$1,018,799	\$1,018,799	1.000	\$1,003,799
91392	7/14/2012	Closed	Any	\$570,302	\$570,302	\$250,000	\$15,000		\$335,302	\$335,302	1.000	\$570,302
91814	4/18/2013	Closed	Any	\$454,242	\$454,242	\$250,000	\$5,000		\$209,242	\$209,242	1.000	\$454,242
91861	4/22/2013	Closed	Any	\$473,316	\$473,316	\$250,000	\$10,000		\$233,316	\$233,316	1.000	\$473,316
91393	7/16/2012	Closed	Any	\$431,334	\$431,334	\$250,000	\$5,500		\$186,834	\$186,834	1.000	\$431,334
					Tota	al Excess Los	ses for 12/13		\$3,507,280	\$3,507,280		
					Applied to \$2,4				\$2,400,000	\$2,400,000		
					• •		ss of Corridor		\$1,107,280	\$1,107,280		
92546	6/28/2014	Closed	Any	\$2,284,671	\$2,284,671	\$250,000	\$5,000		\$2,039,671	\$2,039,671	1.001	\$2,286,484
92144	11/6/2013	Closed	Any	\$300,267	\$300,267	\$250,000	\$5,000		\$55,267	\$55,267	1.001	\$300,506
					Tota	al Excess I os	ses for 13/14		\$2,094,938	\$2,094,938		
					Applied to \$1,4				\$1,400,000	\$1,400,000		
							ss of Corridor		\$694,938	\$694,938		
0061	5/19/2015	Closed	Any	\$620,862	\$620,862	\$250,000	\$12,500		\$383,362	\$383,362	1.003	\$623,012
		Closed	•									
0055	3/25/2015		Any	\$515,661	\$515,661	\$250,000	\$71,000		\$336,661	\$336,661	1.003	\$517,447
0056	5/6/2015	Closed	Any	\$406,091	\$406,091	\$250,000	\$21,000		\$177,091	\$177,091	1.003	\$407,497
0062	3/31/2015	Open	Any	\$129,396	\$379,396	\$250,000	\$19,000		\$0	\$148,396	1.003	\$380,710
93164	4/11/2015	Closed	Any	\$331,500	\$331,500	\$250,000	\$10,000		\$91,500	\$91,500	1.003	\$332,648
92831	12/3/2014	Closed	Any	\$271,103	\$271,103	\$250,000	\$12,000		\$33,103	\$33,103	1.003	\$272,042
							ses for 14/15		\$1,021,718	\$1,170,114		
					Applied to \$1,4		dor for 14/15 ss of Corridor		\$1,021,718 \$0	\$1,170,114 \$0		
0059	5/9/2016	Open	Δην	\$1,182,853	\$1,230,443	\$250,000	\$30,000		\$962,853	\$1,010,443	1.017	\$1,251,702
			Any									
0063	11/17/2015	Closed	Any	\$792,926	\$792,926	\$250,000	\$15,000		\$557,926	\$557,926	1.017	\$806,626
0058	4/29/2016	Closed	Any	\$645,098	\$645,098	\$250,000	\$37,500		\$432,598	\$432,598	1.017	\$656,244
94123	5/13/2016	Open	Any	\$245,566	\$280,000	\$250,000	\$10,000		\$5,566	\$40,000	1.017	\$284,838
							ses for 15/16		\$1,958,944	\$2,040,967		
					Applied to \$1,4		dor for 15/16 ss of Corridor		\$1,400,000 \$558,944	\$1,400,000 \$640,967		
		_										
0060	7/14/2016	Open	Any	\$2,204,078	\$3,451,450	\$250,000	\$102,500		\$2,056,578	\$3,303,950	1.101	\$3,800,986
0064	5/27/2017	Open	Any	\$386,572	\$1,306,894	\$250,000	\$81,000		\$217,572	\$1,137,894	1.101	\$1,439,246
93959	8/23/2016	Closed	Any	\$458,500	\$458,500	\$250,000	\$5,000		\$213,500	\$213,500	1.101	\$504,933
94217	12/19/2016	Open	Any	\$347,321	\$361,020	\$250,000	\$2,500		\$99,821	\$113,520	1.101	\$397,581
94256	11/16/2016	Open	Any	\$0	\$300,000	\$250,000	\$50,000		\$0	\$100,000	1.101	\$330,382
0065	6/17/2017	Closed	Any	\$302,722	\$302,722	\$250,000	\$10,000		\$62,722	\$62,722	1.101	\$333,379
					Tota	al Excess Los	ses for 16/17		\$2,650,193	\$4,931,586		
					Applied to \$1,4				\$1,400,000 \$1,250,103	\$1,400,000 \$3,531,586		
						твигеа ехсе	ss of Corridor		\$1,250,193	φა,υ ა 1,586		
94628	8/29/2017	Open	Any	\$260,968	\$5,344,000	\$250,000	\$2,500		\$13,468	\$5,096,500	1.358	\$7,257,218
94879	1/11/2018	Open	Any	\$349,375	\$394,100	\$250,000	\$12,500		\$111,875	\$156,600	1.358	\$535,193
							ses for 17/18		\$125,343	\$5,253,100		
					Applied to \$1,4		ss of Corridor		\$125,343 \$0	\$1,400,000 \$3,853,100		

^{\$103,244,217 \$111,185,390}

\$76,213,724 \$88,394,986 \$96,034,555

Excess paid and incurred losses for closed claims are equal to the excess recoveries, or amounts over SIR if no recovery yet Excess paid and incurred losses for open claims are amounts in excess of SIR regardless of recoveries.

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

Property including Auto Physical Damage

Calculation of Limited Losses

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
		Unlimited	Unlimited	Paid	Reported	Paid	Reported
Policy	Per Ocurrence	Paid	Reported	Excess of	Excess of	Limited to	Limited to
Period	SIR	Loss & ALAE	Loss & ALAE	SIR	SIR	SIR	SIR
7/1/02-03	\$100k/\$200k	\$312,045	\$312,045	\$0	\$0	\$312,045	\$312,045
7/1/03-04	\$100k/\$200k	\$2,513,499	\$2,513,499	\$1,226,330	\$1,226,330	\$1,287,169	\$1,287,169
7/1/04-05	\$100k/\$200k	\$1,305,598	\$1,305,598	\$38,605	\$38,605	\$1,266,993	\$1,266,993
7/1/05-06	\$100k/\$200k	\$3,222,704	\$3,222,704	\$605,708	\$605,708	\$2,616,997	\$2,616,997
7/1/06-07	\$100k/\$200k	\$7,672,924	\$7,672,924	\$5,068,410	\$5,068,410	\$2,604,514	\$2,604,514
7/1/07-08	\$100k/\$200k	\$27,549,083	\$27,549,083	\$23,633,602	\$23,633,602	\$3,915,481	\$3,915,481
7/1/08-09	\$100k/\$200k	\$14,784,611	\$14,784,611	\$10,223,263	\$10,223,263	\$4,561,347	\$4,561,347
7/1/09-10	\$100k/\$200k	\$17,390,777	\$17,390,777	\$12,520,736	\$12,520,736	\$4,870,042	\$4,870,042
7/1/10-11	\$100k/\$200k	\$26,471,942	\$26,471,942	\$22,902,470	\$22,902,470	\$3,569,472	\$3,569,472
7/1/11-12	\$250,000	\$4,018,489	\$4,018,489	\$817,446	\$817,446	\$3,201,043	\$3,201,043
7/1/12-13	\$250,000	\$6,136,455	\$6,136,455	\$3,507,280	\$3,507,280	\$2,629,175	\$2,629,175
7/1/13-14	\$250,000	\$4,590,290	\$4,590,290	\$2,094,938	\$2,094,938	\$2,495,352	\$2,495,352
7/1/14-15	\$250,000	\$4,412,027	\$4,662,027	\$1,021,718	\$1,170,114	\$3,390,309	\$3,491,913
7/1/15-16	\$250,000	\$5,286,056	\$5,435,702	\$1,958,944	\$2,040,967	\$3,327,112	\$3,394,734
7/1/16-17	\$250,000	\$6,079,156	\$9,283,163	\$2,650,193	\$4,931,586	\$3,428,963	\$4,351,577
7/1/17-18	\$250,000	\$1,693,478	\$7,914,379	\$125,343	\$5,253,100	\$1,568,135	\$2,661,279
Total		\$133,439,132	\$143,263,686	\$88,394,986	\$96,034,555	\$45,044,147	\$47,229,131

Period	Corridor	Paid	Reported	
7/1/11-12	\$2,700,000	\$817,446	\$817,446	
7/1/12-13	\$2,400,000	\$2,400,000	\$2,400,000	
7/1/13-14	\$1,400,000	\$1,400,000	\$1,400,000	
7/1/14-15	\$1,400,000	\$1,021,718	\$1,170,114	
7/1/15-16	\$1,400,000	\$1,400,000	\$1,400,000	
7/1/16-17	\$1,400,000	\$1,400,000	\$1,400,000	
7/1/17-18	\$1,400,000	\$125,343	\$1,400,000	

⁽B) and (C) - Exhibit I

⁽D) and (E) - Excess amount from claims in Exhibit II, page 1

⁽F) = (B) - (D)

⁽G) = (C) - (E)

Property including Auto Physical Damage

Estimated Ultimate Losses Using Loss Development Methods

Limited to \$250,000 SIR

			•		
	(A)	(B)	(C)	(D)	(E)
	Net	Excess	Limited	Reported	Limited
Accident	Reported	on Large	Reported	Develop.	Ultimate
Period	Losses	Losses	Losses	Factor	Losses
7/1/11-12	\$4,018,489	\$817,446	\$3,201,043	1.000	\$3,201,000
7/1/12-13	\$6,136,455	\$3,507,280	\$2,629,175	1.000	\$2,629,000
7/1/13-14	\$4,590,290	\$2,094,938	\$2,495,352	1.000	\$2,495,000
7/1/14-15	\$4,662,027	\$1,170,114	\$3,491,913	1.004	\$3,505,000
7/1/15-16	\$5,435,702	\$2,040,967	\$3,394,734	1.012	\$3,436,000
7/1/16-17	\$9,283,163	\$4,931,586	\$4,351,577	1.041	\$4,528,000
7/1/17-18	\$7,914,379	\$5,253,100	\$2,661,279	1.897	\$5,049,000
Total	\$42,040,504	\$19,815,431	\$22,225,072		\$24,843,000

Unlimited Losses

	(F)	(G)	(H)
		Unlimited	
	Unlimited	Reported	Unlimited
Accident	Reported	Develop.	Ultimate
Period	Losses	Factor	Losses
7/1/11-12	\$4,018,489	1.000	\$4,018,000
7/1/12-13	\$6,136,455	1.000	\$6,136,000
7/1/13-14	\$4,590,290	1.001	\$4,594,000
7/1/14-15	\$4,662,027	1.003	\$4,678,000
7/1/15-16	\$5,435,702	1.017	\$5,530,000
7/1/16-17	\$9,283,163	1.101	\$10,223,000
7/1/17-18	\$7,914,379	2.522	\$19,960,000
Total	\$42,040,504		\$55,139,000

⁽A) and (F) - Exhibit I

⁽B) - Exhibit II

⁽C) = (A) - (B)

⁽D) and (G) = Appendix A

⁽E) = (C) * (D)

⁽H) = (F) * (G

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Estimate of Ultimates based on Forecast

Accident Period	Exposure	APD Limited to \$250,000	Property Limited to \$250,000	Corridor	Total Retained	Insured Above Corridor	Total Cost Limited to \$10,000,000
7/1/17-18	\$9,011,886,407	\$765.000	\$4,078,000	\$1.400.000	\$6.243.000	\$6.939.000	\$13,182,000
7/1/18-19	\$9,053,414,500	\$763,000	\$4,077,000	\$1,400,000	\$6,240,000	\$6,939,000	\$13,179,000
		\$0.008	\$0.045	\$0.016	\$0.069	\$0.077	\$0.146
	Rate per \$100	\$0.008	\$0.045	\$0.015	\$0.069	\$0.077	\$0.146

From current forecast, detrended

Property including Auto Physical Damage

Estimated Ultimate Losses Using Bornhuetter-Ferguson Method

Limited to \$250,000 SIR

	(A)	(B)	(C)	(D)	(E)	(F)
	Prior	Reported		Expected		Estimated
Accident	Ultimate or	Develop.	Expected %	Unreported	Reported	Ultimate
Period	Forecast	Factor	Unreported	Losses	Losses	Losses
7/1/11-12	\$3,201,043	1.000	0%	\$0	\$3,201,043	\$3,201,000
7/1/12-13	\$2,629,175	1.000	0%	\$0	\$2,629,175	\$2,629,000
7/1/13-14	\$2,496,000	1.000	0%	\$0	\$2,495,352	\$2,495,000
7/1/14-15	\$3,492,000	1.004	0%	\$13,000	\$3,491,913	\$3,505,000
7/1/15-16	\$3,467,000	1.012	1%	\$42,000	\$3,394,734	\$3,437,000
7/1/16-17	\$4,320,000	1.041	4%	\$168,000	\$4,351,577	\$4,520,000
7/1/17-18	\$4,843,000	1.897	47%	\$2,290,000	\$2,661,279	\$4,951,000
Total	\$24,448,218			\$2,513,000	\$22,225,072	\$24,738,000

Unlimited Losses

			Unimited Los	363		
	(G)	(H)	(I)	(J)	(K)	(L)
	Prior	Reported		Expected		Estimated
Accident	Ultimate or	Develop.	Expected %	Unreported	Reported	Ultimate
Period	Forecast	Factor	Unreported	Losses	Losses	Losses
7/1/11-12	\$4,018,489	1.000	0%	\$0	\$4,018,489	\$4,018,000
7/1/12-13	\$6,136,455	1.000	0%	\$0	\$6,136,455	\$6,136,000
7/1/13-14	\$4,604,000	1.001	0%	\$4,000	\$4,590,290	\$4,594,000
7/1/14-15	\$4,744,000	1.003	0%	\$16,000	\$4,662,027	\$4,678,000
7/1/15-16	\$6,369,000	1.017	2%	\$108,000	\$5,435,702	\$5,544,000
7/1/16-17	\$12,423,000	1.101	9%	\$1,142,000	\$9,283,163	\$10,425,000
7/1/17-18	\$13,182,000	2.522	60%	\$7,955,000	\$7,914,379	\$15,869,000
Total	\$51,476,944			\$9,225,000	\$42,040,504	\$51,264,000

⁽A) and (G) - Exhibit VI or IV for 17-18

⁽B) and (H) - Appendix A

⁽C) = 1 - 1/(B)

⁽D) = (A) * (C)

⁽E) - Exhibit I, limited to \$250,000

⁽F) = (D) + (E)

⁽I) = 1 - 1/(H)

⁽J) = (G) * (I)

⁽K) - Exhibit I

⁽L)=(J)+(K)

Summary and Selection of Ultimate Limited Loss Estimates

		(A)	(D)
		Prior	Selected
		Ultimate	Ultimate
Accident		or	Loss
Period	SIR	Forecast	Estimate
7/1/02-03	\$100k/\$200k	\$312,045	\$312,045
7/1/03-04	\$100k/\$200k	\$1,287,169	\$1,287,169
7/1/04-05	\$100k/\$200k	\$1,266,993	\$1,266,993
7/1/05-06	\$100k/\$200k	\$2,618,047	\$2,616,997
7/1/06-07	\$100k/\$200k	\$2,604,514	\$2,604,514
7/1/07-08	\$100k/\$200k	\$3,915,481	\$3,915,481
7/1/08-09	\$100k/\$200k	\$4,561,397	\$4,561,347
7/1/09-10	\$100k/\$200k	\$4,870,042	\$4,870,042
7/1/10-11	\$100k/\$200k	\$3,569,472	\$3,569,472
Total		\$25,005,159	\$25,004,059

⁽A) - From previous report dated 6/30/17

⁽D) - Selected as noted: Limited Reported Losses for all years

Summary and Selection of Ultimate Limited Loss Estimates

		(A)	(B)	(C)	(D)
		()	Reported	()	Selected
		Prior	Loss	Expected	Ultimate
Accident	SIR/	Selection	Development	Unreported	Loss
Period	Corridor	or Forecast	Method	, Method	Estimate
Limited to SIR					
7/1/11-12	\$250,000	\$3,201,043	\$3,201,000	\$3,201,000	\$3,201,043
7/1/12-13	\$250,000	\$2,629,175	\$2,629,000	\$2,629,000	\$2,629,175
7/1/13-14	\$250,000	\$2,496,000	\$2,495,000	\$2,495,000	\$2,495,352
7/1/14-15	\$250,000	\$3,492,000	\$3,505,000	\$3,505,000	\$3,491,913
7/1/15-16	\$250,000	\$3,467,000	\$3,436,000	\$3,437,000	\$3,437,000
7/1/16-17	\$250,000	\$4,320,000	\$4,528,000	\$4,520,000	\$4,520,000
7/1/17-18	\$250,000	\$4,843,000	\$5,049,000	\$4,951,000	\$4,951,000
Unlimited Losses					
7/1/11-12		\$4,018,489	\$4,018,000	\$4,018,000	\$4,018,489
7/1/12-13		\$6,136,455	\$6,136,000	\$6,136,000	\$6,136,455
7/1/13-14		\$4,604,000	\$4,594,000	\$4,594,000	\$4,590,290
7/1/14-15		\$4,744,000	\$4,678,000	\$4,678,000	\$4,678,000
7/1/15-16		\$6,369,000	\$5,530,000	\$5,544,000	\$5,544,000
7/1/16-17		\$12,423,000	\$10,223,000	\$10,425,000	\$10,425,000
7/1/17-18		\$13,182,000	\$19,960,000	\$15,869,000	\$13,182,000
Difference in Unlin	nited and Limited	1 Cannod at Corr	idor		
7/1/11-12	\$2,700,000	\$817,446	\$817,000	\$817,000	\$817,446
7/1/12-13	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000
7/1/13-14	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
7/1/14-15	\$1,400,000	\$1,200,000	\$1,173,000	\$1,173,000	\$1,186,087
7/1/15-16	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
7/1/16-17	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
7/1/17-18	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
Total Datained Los	(CID I	Divo Couridou			
Total Retained Los 7/1/11-12	Ses (SIK LOSSES	\$4,018,489			¢4 010 400
7/1/11-12 7/1/12-13		\$4,018,489 \$5,029,175			\$4,018,489 \$5,029,175
7/1/12-13 7/1/13-14		\$3,896,000			\$3,895,352
7/1/13-14 7/1/14-15		\$4,692,000			\$3,695,352 \$4,678,000
7/1/14-15 7/1/15-16		\$4,892,000 \$4,867,000			\$4,878,000 \$4,837,000
7/1/15-16 7/1/16-17		\$4,867,000 \$5,720,000			\$4,837,000 \$5,920,000
7/1/16-17 7/1/17-18					
// 1/ 1 / - 10		\$6,243,000			\$6,351,000

⁽A) - From previous report as of 6/30/17, as of 1/31/17 for unlimited, Forecast from IV

Limited to \$250,000:

Limited reported losses from 11-12 through 14-15

Column (C) for 15-16 through 17-18

Unlimited Losses:

Limited reported losses from 11-12 through 13-14

Column (C) for 14-15 through 16-17

Column (A) for 17-18

⁽B) - Exhibit III

⁽C) - Exhibit V

⁽D) - Selected as noted:

Property including Auto Physical Damage

Average Ultimate Claim Sizes

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
				Estimated	Average		
		Reported	Estimated	Ultimate	Ultimate	Exposure	
Accident	Reported	Claim	Ultimate	Limited	Limited	Total	Loss
Period	Occurrences	Development	Occurrences	Losses	Occurrence	Insured Value	Rate
7/1/02-03	24	1.000	24.0	\$312,045	\$13,000		
7/1/03-04	104	1.000	104.0	\$1,287,169	\$12,400		
7/1/04-05	122	1.000	122.0	\$1,266,993	\$10,400	\$3,756,688,926	\$0.034
7/1/05-06	190	1.000	190.0	\$2,616,997	\$13,800	\$5,058,376,762	\$0.052
7/1/06-07	232	1.000	232.0	\$2,604,514	\$11,200	\$6,396,402,749	\$0.041
7/1/07-08	255	1.000	255.0	\$3,915,481	\$15,400	\$7,053,258,491	\$0.056
7/1/08-09	211	1.000	211.0	\$4,561,347	\$21,600	\$7,478,044,795	\$0.061
7/1/09-10	266	1.000	266.0	\$4,870,042	\$18,300	\$7,801,896,787	\$0.062
7/1/10-11	225	1.000	225.0	\$3,569,472	\$15,900	\$8,214,036,469	\$0.043
7/1/11-12	173	1.000	173.0	\$4,018,489	\$23,200	\$6,347,461,637	\$0.063
7/1/12-13	162	1.000	162.0	\$5,029,175	\$31,000	\$6,526,038,633	\$0.077
7/1/13-14	157	1.000	157.0	\$3,895,352	\$24,800	\$8,356,362,827	\$0.047
7/1/14-15	206	1.000	206.0	\$4,678,000	\$22,700	\$8,137,357,454	\$0.057
7/1/15-16	180	1.000	180.0	\$4,837,000	\$26,900	\$8,295,479,409	\$0.058
7/1/16-17	233	1.000	233.0	\$5,920,000	\$25,400	\$9,500,793,518	\$0.062
7/1/17-18	120	1.857	222.9	\$6,351,000	\$28,500	\$9,011,886,407	\$0.070
7/1/18-19			270.4	\$6,240,000	\$23,100	\$9,053,414,500	\$0.069
Total	2860		3,233.3	\$65,973,074	\$20,400	\$110,987,499,364	\$0.059

⁻ Results for 7/1/18-19 from Forecast

⁽A) - Exhibit I

⁽B) - Appendix A

 $⁽C) = (A) \times (B)$

⁽D) = Exhibit VI

⁽E) = (D) / (C)

⁽F) - Exhibit I, provided by OSIG

⁽G) = (D) / (F) * 100

Estimated Outstanding Losses

		(A)	(B)	(C)	(D)	(E)	(F)
		Limited	Limited	Limited	Limited	. ,	• /
Accident		Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Losses	Losses	Losses	Reserves	Losses	Losses
		As of J	anuary 31, 20				
7/1/02-03	\$100k/\$200k	\$312,045	\$312,045	\$312,045	\$0	\$0	\$0
7/1/03-04	\$100k/\$200k	\$1,287,169	\$1,287,169	\$1,287,169	\$0	\$0	\$0
7/1/04-05	\$100k/\$200k	\$1,266,993	\$1,266,993	\$1,266,993	\$0	\$0	\$0
7/1/05-06	\$100k/\$200k	\$2,616,997	\$2,616,997	\$2,616,997	\$0	\$0	\$0
7/1/06-07	\$100k/\$200k	\$2,604,514	\$2,604,514	\$2,604,514	\$0	\$0	\$0
7/1/07-08	\$100k/\$200k	\$3,915,481	\$3,915,481	\$3,915,481	\$0	\$0	\$0
7/1/08-09	\$100k/\$200k	\$4,561,347	\$4,561,347	\$4,561,347	\$0	\$0	\$0
7/1/09-10	\$100k/\$200k	\$4,870,042	\$4,870,042	\$4,870,042	\$0	\$0	\$0
7/1/10-11	\$100k/\$200k	\$3,569,472	\$3,569,472	\$3,569,472	\$0	\$0	\$0
7/1/11-12	\$250,000 /\$2.7M corridor	\$4,018,489	\$4,018,489	\$4,018,489	\$0	\$0	\$0
7/1/12-13	\$250,000 /\$2.4M corridor	\$5,029,175	\$5,029,175	\$5,029,175	\$0	\$0	\$0
7/1/13-14	\$250,000 /\$1.4M corridor	\$3,895,352	\$3,895,352	\$3,895,352	\$0	\$0	\$0
7/1/14-15	\$250,000 /\$1.4M corridor	\$4,678,000	\$4,412,027	\$4,662,027	\$250,000	\$16,000	\$266,000
7/1/15-16	\$250,000 /\$1.4M corridor	\$4,837,000	\$4,727,112	\$4,794,734	\$67,622	\$42,000	\$110,000
7/1/16-17	\$250,000 /\$1.4M corridor	\$5,920,000	\$4,828,963	\$5,751,577	\$922,614	\$168,000	\$1,091,00
7/1/17-1/31/18	\$250,000 /\$1.4M corridor	\$4,288,000	\$1,693,478	\$4,061,279	\$2,367,801	\$227,000	\$2,595,00
Total		\$57,670,074	\$53,608,654	\$57,216,691	\$3,608,037	\$453,000	\$4,062,00
		Projected	as of June 30,	2018			
All Prior Years	\$100k/\$200k	\$25,004,059	\$25,004,059	\$25,004,059	\$0	\$0	\$0
7/1/11-12	\$250,000 /\$2.7M corridor	\$4,018,489	\$4,018,489	\$4,018,489	\$0	\$0	\$0
7/1/12-13	\$250,000 /\$2.4M corridor	\$5,029,175	\$5,029,175	\$5,029,175	\$0	\$0	\$0
7/1/13-14	\$250,000 /\$1.4M corridor	\$3,895,352	\$3,895,352	\$3,895,352	\$0	\$0	\$0
7/1/14-15	\$250,000 /\$1.4M corridor	\$4,678,000	\$4,486,527	\$4,669,469	\$183,000	\$9,000	\$191,000
7/1/15-16	\$250,000 /\$1.4M corridor	\$4,837,000	\$4,764,861	\$4,811,199	\$46,000	\$26,000	\$72,000
7/1/16-17	\$250,000 /\$1.4M corridor	\$5,920,000	\$5,285,493	\$5,816,737	\$531,000	\$103,000	\$635,000
7/1/17-18	\$250,000 /\$1.4M corridor	\$6,351,000	\$4,297,985	\$5,981,504	\$1,684,000	\$369,000	\$2,053,00
Total		\$59,733,000	\$56,781,940	\$59,225,983	\$2,444,000	\$507,000	\$2,951,00

Total Estimated IBNR as of June 30, 2018 \$507,000

⁽A) - Exhibit VI

⁽B) and (C) - Exhibit V for 01/31/18 Projected as of 06/30/18 using LDFs

⁽D)=(C)-(B)

⁽E) = (A) - (C)

⁽F)=(A)-(B)

Estimated Outstanding Losses for SIR and Corridor

			(A)	(B)	(C)	(D)	(E)	(F)
			Limited	Limited	Limited	Limited		
Accident			Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses
				January 31, 20				
Stop Loss Years To	<u>otal</u>		\$25,004,059	\$25,004,059	\$25,004,059	\$0	\$0	\$0
SIR Losses								
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
7/1/13-14	\$250,000		\$2,495,352	\$2,495,352	\$2,495,352	\$0	\$0	\$0
7/1/14-15	\$250,000		\$3,491,913	\$3,390,309	\$3,491,913	\$102,000	\$0	\$102,000
7/1/15-16	\$250,000		\$3,437,000	\$3,327,112	\$3,394,734	\$68,000	\$42,000	\$110,000
7/1/16-17	\$250,000		\$4,520,000	\$3,428,963	\$4,351,577	\$923,000	\$168,000	\$1,091,000
7/1/17-1/31/18	\$250,000		\$2,888,000	\$1,568,135	\$2,661,279	\$1,093,000	\$227,000	\$1,320,000
Corridor Losses								
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/14-15		\$1,400,000	\$1,186,087	\$1,021,718	\$1,170,114	\$148,000	\$16,000	\$164,000
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/17-1/31/18		\$1,400,000	\$1,400,000	\$125,343	\$1,400,000	\$1,275,000	\$0	\$1,275,000
Total			\$57,670,000	\$53,609,000	\$57,217,000	\$3,609,000	\$453,000	\$4,062,000
			Projected	as of June 30	0. 2018			
Stop Loss Years To	<u>otal</u>			\$25,004,059	\$25,004,059	\$0	\$0	\$0
SIR Losses								
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
7/1/13-14	\$250,000		\$2,495,352	\$2,495,352	\$2,495,352	\$0	\$0	\$0
7/1/14-15	\$250,000		\$3,491,913	\$3,418,995	\$3,491,913	\$73,000	\$0	\$73,000
7/1/15-16	\$250,000		\$3,437,000	\$3,364,861	\$3,411,199	\$46,000	\$26,000	\$72,000
7/1/16-17	\$250,000		\$4,520,000	\$3,885,493	\$4,416,737	\$531,000	\$103,000	\$635,000
7/1/17-18	\$250,000		\$4,951,000	\$2,897,985	\$4,581,504	\$1,684,000	\$369,000	\$2,053,000
Corridor Losses								
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$ 0	\$ 0
7/1/14-15		\$1,400,000	\$1,186,087	\$1,067,532	\$1,177,557	\$110,000	\$9,000	\$119,000
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$ 0	\$0 \$0	\$0
7/1/17-1/31/18		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0 \$0	\$ 0	\$0
Total			\$59,733,000	\$56,782,000	\$59,226,000	\$2,444,000	\$507,000	\$2,952,000
, 5.01			¥55,. 55,000	₩₩. 000,1 0Z,000	J00,0,000	- -, - -,	ψοσι,σοσ	Ψ=,002,000

Total Estimated IBNR as of June 30, 2018 \$507,000

Comparison of Results with Previous Estimates as of 6/30/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	0.0%
7/1/05-06	\$2,618,047	\$2,618,047	\$2,616,997	0.0%	\$2,618,047	\$2,616,997	0.0%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	0.0%
7/1/08-09	\$4,561,397	\$4,561,397	\$4,561,347	0.0%	\$4,561,397	\$4,561,347	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,870,042	\$4,870,042	0.0%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	0.0%
7/1/11-12	\$3,201,043	\$3,201,043	\$3,201,043	0.0%	\$3,201,043	\$3,201,043	0.0%
7/1/12-13	\$2,629,175	\$2,629,175	\$2,629,175	0.0%	\$2,629,175	\$2,629,175	0.0%
7/1/13-14	\$2,496,177	\$2,496,122	\$2,495,352	0.0%	\$2,496,000	\$2,495,352	0.0%
7/1/14-15	\$3,491,903	\$3,491,934	\$3,491,913	0.0%	\$3,492,000	\$3,491,913	0.0%
7/1/15-16	\$3,430,061	\$3,442,474	\$3,394,734	-1.4%	\$3,467,000	\$3,437,000	-0.9%
7/1/16-17	\$3,957,883	\$4,084,083	\$4,351,577	6.5%	\$4,320,000	\$4,520,000	4.6%
7/1/17-18		\$2,430,546	\$2,661,279	9.5%	\$4,273,000	\$4,951,000	15.9%
Total	\$44,211,399	\$46,780,535	\$47,229,131	1.0%	\$48,883,377	\$49,729,541	1.7%

⁽A) and (E) - From Previous actuarial report as of 6/30/2017 Limited to \$250,000 for years since 11-12

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Comparison of Results with Previous Estimates as of 06/30/17

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Actual	Projected	Actual		Expected	Actual	
	Reported	Reported	Reported		Ultimate	Ultimate	
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Percent
Period	6/30/2017	1/31/2018	1/31/2018	Difference	6/30/2017	1/31/2018	Difference
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	0.0%
7/1/05-06	\$2,618,047	\$2,618,047	\$2,616,997	0.0%	\$2,618,692	\$2,616,997	-0.1%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	0.0%
7/1/08-09	\$4,561,397	\$4,561,397	\$4,561,347	0.0%	\$4,561,472	\$4,561,347	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,835,518	\$4,870,042	0.7%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	0.0%
7/1/11-12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	0.0%
7/1/12-13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	0.0%
7/1/13-14	\$3,896,177	\$3,896,131	\$3,895,352	0.0%	\$3,896,000	\$3,895,352	0.0%
7/1/14-15	\$4,662,017	\$4,672,133	\$4,662,027	-0.2%	\$4,692,000	\$4,678,000	-0.3%
7/1/15-16	\$4,830,061	\$4,848,285	\$4,794,734	-1.1%	\$4,867,000	\$4,837,000	-0.6%
7/1/16-17	\$5,357,883	\$5,669,649	\$5,751,577	1.4%	\$5,720,000	\$5,920,000	3.5%
7/1/17-18		\$2,090,053	\$4,061,279	94.3%	\$5,673,000	\$6,351,000	12.0%
 Total	\$52,798,959	\$55,229,074	\$57,216,691	3.6%	\$58,867,019	\$59,733,074	1.5%

⁽A) and (E) - From Previous actuarial report as of 06/30/2017 Includes Corridor Losses for years since 17-18

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Exhibit I, limited to retention

⁽D) = [(C) / (B)] - 1

⁽F) - Exhibit VI

⁽G) = [(F) / (E)] - 1

Estimation of Cumulative Reported Loss Development Factors Losses Limited to \$250,000 per Occurrence Using "The Method of Least Squares"

		Tra	nsformed V	alues for R	egression		Fitte	d Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36	1.078 1.027 1.007	-6.8156 -6.8287 -6.8416	-2.5447 -3.6067 -4.9618	46.453 46.631 46.808	6.4755 13.0086 24.6199	17.3437 24.6294 33.9470	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
II	Sum rerage	-20.4860 -6.8287	-11.1133 -3.7044	139.8920 46.6307	44.1040 14.7013	75.9202 25.3067	55 43 31 19 7	1.000 1.004 1.012 1.041 1.897

N =	3		
A = 1.9	920E+274		
B =	93.029	R^2 =	0.99459
C =	900		

^{* -} Appendix A4, Page 1

Estimation of Cumulative Reported Loss Development Factors Unlimited Reported Losses Using "The Method of Least Squares"

·	Tra	nsformed V	alues for R	egression		Fitte	ed Values
Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
1.294 1.057 1.007 1.002	-4.6728 -4.7791 -4.8752 -4.9628	-1.2258 -2.8584 -4.9604 -6.2146	21.835 22.840 23.768 24.630	1.5026 8.1704 24.6057 38.6214	5.7279 13.6606 24.1830 30.8421	187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Sum erage	-19.2900 -4.8225	-15.2592 -3.8148	93.0727 23.2682	72.9001 18.2250	74.4137 18.6034	55 43 31 19	1.001 1.003 1.017 1.101
	Factors Y* 1.294 1.057 1.007 1.002	Cumulative Factors Y* X' LN(1/(X+C)) 1.294 -4.6728 1.057 -4.7791 1.007 -4.8752 1.002 -4.9628	Cumulative Factors Y* X' Y' LN(1/(X+C)) Y' LN(Y-1) 1.294 -4.6728 -1.2258 1.057 -4.7791 -2.8584 1.007 -4.8752 -4.9604 1.002 -4.9628 -6.2146	Cumulative Factors X' Y' Y* LN(1/(X+C)) LN(Y-1) (X')^2 1.294 -4.6728 -1.2258 21.835 1.057 -4.7791 -2.8584 22.840 1.007 -4.8752 -4.9604 23.768 1.002 -4.9628 -6.2146 24.630	Factors X' Y' LN(1/(X+C)) LN(Y-1) (X')^2 (Y')^2 1.294 -4.6728 -1.2258 21.835 1.5026 1.057 -4.7791 -2.8584 22.840 8.1704 1.007 -4.8752 -4.9604 23.768 24.6057 1.002 -4.9628 -6.2146 24.630 38.6214	Cumulative Factors X' Y' Y* LN(1/(X+C)) LN(Y-1) (X')^2 (Y')^2 X' x Y' 1.294 -4.6728 -1.2258 21.835 1.5026 5.7279 1.057 -4.7791 -2.8584 22.840 8.1704 13.6606 1.007 -4.8752 -4.9604 23.768 24.6057 24.1830 1.002 -4.9628 -6.2146 24.630 38.6214 30.8421	Cumulative Factors X' Y' LN(1/(X+C)) LN(Y-1) (X')^2 (Y')^2 X' x Y' X 1.294 -4.6728 -1.2258 21.835 1.5026 5.7279 187 1.057 -4.7791 -2.8584 22.840 8.1704 13.6606 175 1.007 -4.8752 -4.9604 23.768 24.6057 24.1830 163 1.002 -4.9628 -6.2146 24.630 38.6214 30.8421 151 139 127 115 103 91 79 67 55 -4.8225 -3.8148 23.2682 18.2250 18.6034 43 31

N =	4		
A =	2.236E+35		
В =	17.669	R^2 =	0.99377
C =	95		

^{* -} Appendix A4, page 2

Implied Payment Pattern for Limited Losses Using "The Method of Least Squares"

Maratha		Tra	nsformed V	alues for R	egression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
43 31 19 7	1.030 1.033 1.318 3.157	-3.8918 -3.6109 -3.2189 -2.5649	-3.5076 -3.4104 -1.1451 0.7688	15.146 13.039 10.361 6.579	12.3032 11.6308 1.3113 0.5911	13.6509 12.3147 3.6860 -1.9720	79 67 55 43 31 19 7	1.000 1.006 1.010 1.022 1.059 1.231 3.245
	Sum erage	-13.2866 -3.3216	-7.2943 -1.8236	45.1251 11.2813	25.8365 6.4591	27.6796 6.9199		

N =	4		
A =	1.684E+04		
В =	3.479	R^2 =	0.957615
C =	6		

^{* -} Limited Ultimate Losses / Limited Paid Losses

Implied Payment Pattern for Unlimited Losses Using "The Method of Least Squares"

Curve: $Y = A(1/(X+C))^B + 1$ (Modified Inverse Power Curve)

Months		Tra	nsformed V	alues for R	egression		Fitte	ed Values
of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
43 31 19 7	1.060 1.049 1.715 7.784	-3.8067 -3.4965 -3.0445 -2.1972	-2.8087 -3.0201 -0.3356 1.9146	14.491 12.226 9.269 4.828	7.8888 9.1209 0.1127 3.6656	10.6917 10.5598 1.0219 -4.2067	79 67 55 43 31 19 7	1.000 1.000 1.019 1.040 1.108 1.465 8.137
	Sum erage	-12.5449 -3.1362	-4.2499 -1.0625	40.8132 10.2033	20.7879 5.1970	18.0667 4.5167		

N =	4		
A =	8.521E+03		
В =	3.224	R^2 =	0.938878
C =	2		

^{* -} Based on Ratio of Ultimate Unlimited Losses to Unlimited Paid Losses

Property including Auto Physical Damage

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

Curve: $Y = A(1/(X+C))^B + 1$ (Modified Inverse Power Curve)

		Tra	nsformed V	alues for R	egression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24	1.000 1.000						187 175 163 151 139 127 115 103 91 79 67	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
	Sum erage	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	55 43 31	1.000 1.000 1.000
N =	2]			19 7	1.000 1.857

N = 2 A = B = R^2 = C =

^{* -} Appendix A6

Property including Auto Physical Damage

Analysis of Reported Loss Development Pure Loss Limited to \$250,000 ALAE unlimited

			Limited Re	eported Losse	s and ALAE a	s of (months)	:			
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05							\$1,305,598	\$1,305,598	\$1,305,598	\$1,305,598
7/1/05-06						\$2,912,297	\$2,912,297	\$2,912,297	\$2,912,297	\$2,912,297
7/1/06-07					\$2,801,109	\$2,794,881	\$2,794,881	\$2,794,881	\$2,794,881	\$2,794,881
7/1/07-08				\$5,083,453	\$5,097,217	\$5,097,217	\$5,097,217	\$5,097,217	\$5,097,217	\$5,097,217
7/1/08-09			\$5,799,194	\$5,831,587	\$5,900,011	\$5,897,574	\$5,897,276	\$5,897,026	\$5,897,026	
7/1/09-10		\$5,643,910	\$5,633,310	\$5,639,110	\$5,639,110	\$5,639,110	\$5,909,210	\$5,909,210		
7/1/10-11	\$5,333,937	\$4,814,020	\$4,639,787	\$4,830,071	\$4,835,277	\$4,835,277	\$4,835,277			
7/1/11-12	\$3,532,085	\$3,363,887	\$3,271,113	\$3,282,543	\$3,282,543	\$3,201,043				
7/1/12-13	\$3,149,150	\$2,937,773	\$3,011,624	\$3,042,344	\$2,629,175					
7/1/13-14	\$2,524,519	\$2,329,236	\$2,545,000	\$2,496,177						
7/1/14-15	\$3,537,706	\$3,700,538	\$3,491,903							
7/1/15-16	\$3,246,383	\$3,430,061								
7/1/16-17	\$3,957,883									
				Age-to-A	Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult
7/1/04-05							1.000	1.000	1.000	·
7/1/05-06						1.000	1.000	1.000	1.000	
7/1/06-07					0.998	1.000	1.000	1.000	1.000	
7/1/07-08				1.003	1.000	1.000	1.000	1.000	1.000	
7/1/08-09			1.006	1.012	1.000	1.000	1.000	1.000		
7/1/09-10		0.998	1.001	1.000	1.000	1.048	1.000			
7/1/10-11	0.903	0.964	1.041	1.001	1.000	1.000				
7/1/11-12	0.952	0.972	1.003	1.000	0.975					
7/1/12-13	0.933	1.025	1.010	0.864						
7/1/13-14	0.923	1.093	0.981							
7/1/14-15	1.046	0.944								
7/1/15-16	1.057									
Average	0.969	0.999	1.007	0.980	0.995	1.008	1.000	1.000	1.000	
Wtd. Average	0.965	0.991	1.009	0.988	0.997	1.010	1.000	1.000	1.000	
OK Benchmark	1.083	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior	1.010	1.006	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.050	1.020	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.078	1.027	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Analysis of Unlimited Reported Loss Development Total Experience Net of Member Deductibles

			Unlimited	d Reported Lo	sses and ALA	E as of (monti	hs):			
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05	\$1,368,113	\$1,280,634	\$1,304,691	\$1,304,691	\$1,304,691	\$1,304,691	\$1,305,598	\$1,305,598	\$1,305,598	\$1,305,598
7/1/05-06	\$3,110,731	\$3,128,836	\$3,224,284	\$3,224,400	\$3,224,400	\$3,224,400	\$3,224,400	\$3,224,400	\$3,224,400	\$3,224,400
7/1/06-07	\$6,628,583	\$8,027,416	\$7,594,525	\$7,688,597	\$7,676,617	\$7,672,924	\$7,672,924	\$7,672,924	\$7,672,924	\$7,672,924
7/1/07-08	\$29,183,950	\$32,191,764	\$27,838,808	\$27,549,083	\$27,549,083	\$27,549,083	\$27,549,083	\$27,549,083	\$27,549,083	\$27,549,083
7/1/08-09	\$14,390,753	\$15,321,794	\$14,550,076	\$14,727,379	\$14,787,721	\$14,785,284	\$14,784,986	\$14,784,736	\$14,784,661	
7/1/09-10	\$13,583,620	\$18,081,798	\$17,074,377	\$17,109,070	\$17,109,070	\$17,109,070	\$17,429,170	\$17,390,777		
7/1/10-11	\$18,938,242	\$29,188,873	\$27,961,920	\$26,296,810	\$26,471,942	\$26,471,942	\$26,471,942			
7/1/11-12	\$4,269,177	\$4,298,833	\$4,007,059	\$4,018,489	\$4,018,489	\$4,018,489				
7/1/12-13	\$5,180,489	\$6,310,374	\$6,225,528	\$6,146,124	\$6,136,455					
7/1/13-14	\$2,684,519	\$3,549,504	\$4,629,938	\$4,590,290						
7/1/14-15	\$4,080,491	\$4,423,676	\$4,662,017							
7/1/15-16	\$3,782,538	\$5,700,632								
7/1/16-17	\$8,750,280									

				Age-to	-Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:
7/1/04-05	0.936	1.019	1.000	1.000	1.000	1.001	1.000	1.000	1.000	
7/1/05-06	1.006	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/06-07	1.211	0.946	1.012	0.998	1.000	1.000	1.000	1.000	1.000	
7/1/07-08	1.103	0.865	0.990	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/08-09	1.065	0.950	1.012	1.004	1.000	1.000	1.000	1.000		
7/1/09-10	1.331	0.944	1.002	1.000	1.000	1.019	0.998			
7/1/10-11	1.541	0.958	0.940	1.007	1.000	1.000				
7/1/11-12	1.007	0.932	1.003	1.000	1.000					
7/1/12-13	1.218	0.987	0.987	0.998						
7/1/13-14	1.322	1.304	0.991							
7/1/14-15	1.084	1.054								
7/1/15-16	1.507									
Average	1.194	0.999	0.994	1.001	1.000	1.003	1.000	1.000	1.000	
Wtd. Average	1.227	0.947	0.985	1.002	1.000	1.003	0.999	1.000	1.000	
OK Benchmark	1.083	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior	1.220	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.223	1.050	1.005	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.294	1.057	1.007	1.002	1.000	1.000	1.000	1.000	1.000	1.000

Analysis of Report Occurrences

			Report	ed Occurrenc	ces as of (mo	nths):				
Year	12	24	36	48	60	72	84	96	108	120
7/1/04-05			124	124	124	124	124	124	122	122
7/1/05-06		194	182	191	191	191	191	190	190	190
7/1/06-07	260	237	241	237	236	236	232	232	232	232
7/1/07-08	232	260	260	263	264	255	255	255	255	255
7/1/08-09	231	213	216	218	211	211	211	211	211	
7/1/09-10	256	269	271	265	265	265	266	266		
7/1/10-11	232	230	223	224	225	225	225			
7/1/11-12	172	173	173	173	173	173				
7/1/12-13	167	161	161	162	162					
7/1/13-14	150	157	158	157						
7/1/14-15	218	207	205							
7/1/15-16	179	180								
7/1/16-17	231									

				Age-to-A	Age Factors					
Year	12:24	24:36	36:48	48:60	60:72	72:84	84:96	96:108	108:120	120:ult
7/1/04-05			1.000	1.000	1.000	1.000	1.000	0.984	1.000	
7/1/05-06		0.938	1.049	1.000	1.000	1.000	0.995	1.000	1.000	
7/1/06-07	0.912	1.017	0.983	0.996	1.000	0.983	1.000	1.000	1.000	
7/1/07-08	1.121	1.000	1.012	1.004	0.966	1.000	1.000	1.000	1.000	
7/1/08-09	0.922	1.014	1.009	0.968	1.000	1.000	1.000	1.000		
7/1/09-10	1.051	1.007	0.978	1.000	1.000	1.004	1.000			
7/1/10-11	0.991	0.970	1.004	1.004	1.000	1.000				
7/1/11-12	1.006	1.000	1.000	1.000	1.000					
7/1/12-13	0.964	1.000	1.006	1.000						
7/1/13-14	1.047	1.006	0.994							
7/1/14-15	0.950	0.990								
7/1/15-16	1.006									
Average	0.997	0.994	1.004	0.997	0.996	0.998	0.999	0.997	1.000	
Wtd. Average	0.994	0.995	0.998	0.996	0.994	0.998	0.999	0.998	1.000	
OK benchmark	1.083	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	12	24	36	48	60	72	84	96	108	120
Selected	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000



Mary Frances Miller, FCAS, MAAA Cheryl White, FCAS, MAAA Thomas E. Meyer, FCAS, MAAA Laura T. Sprouse, FCAS, MAAA Daniel A. Linton, FCAS, MAAA Jack Pipa, ACAS, MAAA

August 24, 2018

Ms. Jennifer McKenzie Oklahoma Schools Insurance Group Arthur J. Gallagher Risk Management Services, Inc. 1300 S. Main Tulsa, OK 74119

RE: OSIG Actuarial Update as of 6/30/18

Dear Jennifer,

The purpose of this review is to update the IBNR estimate as of June 30, 2018, based on the actual loss data for the Oklahoma Schools Insurance Group (OSIG) as of June 30, 2018, and to revise the forecast ultimate losses for 7/1/18-19 based on the exposures written on July 1, 2018. I have compared the current data to the data used in the prior actuarial report as of January 31, 2018, and the projected paid and reported losses as of June 30, 2018. For those accident periods where actual losses deviated from expected losses by a significant amount, the ultimate losses for those periods were increased or decreased accordingly. Since IBNR is calculated as the difference in the ultimate losses and the limited reported losses, the level of IBNR may fluctuate although ultimate losses may be relatively stable, or vice versa. Changes in ultimate losses generally track the changes in reported and paid losses compared to expectations. The change in ultimate losses (before applying the aggregate stop loss limits) is shown below.

Change in Selected Ultimate Losses for years 02/03 through 17/18 Compared to Report as of 1/31/18						
Automobile Liability	\$0					
General Liability with E&O	-\$525,000					
Property including APD	-\$236,000					
Total	-\$761,000					

The comparisons of the actual versus expected reported losses as of June 30, 2018, are shown in Table 1 for each line. We have selected a new estimate of ultimate losses based upon the comparison of actual versus expected losses. The change in the ultimate losses is given in terms of a dollar amount as well as an overall percentage change. Experience since the previous actuarial report is better than expected in total. Ultimate losses for liability were decreased \$525,000 in total including decreases for general liability of \$300,000 in the 17-18 year, \$100,000 for 15-16 and smaller decreases on years 14-15, 12-13 and 11-12. Experience for automobile

liability varied by year, but experience in total was close to expected. Adjustments to ultimate losses on individual years had an offsetting effect, so that there was \$0 overall change.

There was an increase in excess property losses in the 14-15 year, and we now expect that OSIG will exceed the corridor deductible of \$1,400,000 for that year. The 17-18 year property claims are better than expected, and the ultimate losses were decreased for this year. In total, ultimate losses for Property were decreased by \$236,000.

The IBNR is calculated in Table A and in Table 2 for each line of business as the difference in the selected ultimate losses and the limited reported losses as of June 30, 2018.

OSIG Reserve Estimates as of June 30, 2018						
Liability Property						
Case Reserves	\$5,064,000	\$3,427,000				
IBNR Reserves	\$1,340,000	\$612,000				
Total Reserve	\$6,405,000	\$4,038,000				

The Liability reserves are higher than the projected based on 1/31/18 data. This is because even though the reported and paid losses are less than projected in the prior study, the ultimate losses were also reduced, but not by the same degree. For property, there is \$1,376,000 in case reserves for claims in the corridor and \$2,051,000 in the SIR layer. No IBNR is needed for the excess losses since the corridor has been exceeded. All IBNR for property claims is related to losses within the \$250,000 SIR.

We adjusted the forecast losses for 7/1/18-19 for the change in the amount of exposures to be underwritten in this period. The selected loss rates from the 1/31/18 study were applied to the current exposure estimates to derive the ultimate losses for the 7/1/18-19 year. The liability losses are capped at the \$100,000 deductible.

Forecast losses for OSIG's Liability Program 7/1/18-19							
	Ultimate Losses	Loss Rate					
Automobile Liability	\$1,291,000	\$117 per vehicle or (\$2.88 per student)					
General Liability (including E&O)	\$2,388,000	\$5.33 per student					
Total Forecast	\$3,679,000	\$8.21 per student					

The Property forecast for 7/1/18-19 is shown below. We expect that OSIG will utilize the full \$1,400,000 corridor deductible again this year. The portion of the \$7,543,000 property forecast associated with Auto Physical Damage claims is \$826,000. The rates per \$100 TIV have changed slightly for property. This is because the APD losses which are all assumed to be included in the SIR layer are projected using vehicle counts. In addition, the corridor is spread over a larger exposure base than before.



Forecast losses for OSIG's Property Program 7/1/18-19							
	Ultimate Losses	Loss Rate					
Losses within the \$250,000 Deductible	\$6,143,000	\$0.052 per \$100 TIV					
Corridor deductible	\$1,400,000	\$0.012 per \$100 TIV					
Total Forecast	\$7,543,000	\$0.064 per \$100 TIV					

Table A summarizes the IBNR and Outstanding losses for Liability and Property. Table B shows the IBNR for each of Liability and Property at various confidence levels. Table C shows the comparison of experience between 1/31/18 and 6/30/18. The updated loss projection for the 7/1/18-19 year is in Table D.

If you or your auditors have any questions, I would be happy to answer them. As always, it has been a pleasure serving you and the Oklahoma Schools Insurance Group.

Sincerely,

Laura T. Sprouse, FCAS, MAAA



Estimated Outstanding Losses for Liability As of June 30, 2018

		(A)	(B)	(C)	(D)	(E)	(F)
Appidost		Estimated	Limited	Limited	Cooo	IDND	Outstandin
Accident	Coveres	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Coverage	Losses	Losses	Losses	Reserves	Losses	Losses
2002/03	AL	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
2003/04	AL	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
2004/05	AL	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
2005/06	AL	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
2006/07	AL	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
2007/08	AL	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
2008/09	AL	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
2009/10	AL	\$706,000	\$703,413	\$703,413	\$0	\$3,000	\$3,000
2010/11	AL	\$843,000	\$843,333	\$843,333	\$0	\$0	\$0
2011/12	AL	\$974,000	\$947,823	\$973,586	\$25,762	\$0	\$26,000
2012/13	AL	\$626,000	\$625,317	\$625,317	\$0	\$1,000	\$1,000
2013/14	AL	\$678,000	\$674,842	\$674,842	\$0	\$3,000	\$3,000
2014/15	AL	\$1,224,000	\$874,245	\$1,221,735	\$347,490	\$2,000	\$350,000
2015/16	AL	\$1,183,000	\$924,765	\$1,159,787	\$235,022	\$23,000	\$258,000
2016/17	AL	\$1,166,000	\$853,354	\$1,124,122	\$270,769	\$42,000	\$313,000
2017/18	AL	\$1,093,000	\$390,369	\$925,038	\$534,669	\$168,000	\$703,000
		\$12,703,000	\$11,048,000	\$12,461,000	\$1,414,000	\$242,000	\$1,657,000
2002/03	GL/E&O	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
2003/04	GL/E&O	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
2004/05	GL/E&O	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
2005/06	GL/E&O	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
2006/07	GL/E&O	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
2007/08	GL/E&O	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
2008/09	GL/E&O	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
2009/10	GL/E&O	\$1,294,000	\$1,271,815	\$1,292,498	\$20,683	\$2,000	\$22,000
2010/11	GL/E&O	\$1,842,000	\$1,804,139	\$1,838,086	\$33,947	\$4,000	\$38,000
2011/12	GL/E&O	\$1,470,000	\$1,459,814	\$1,459,814	\$0	\$10,000	\$10,000
2012/13	GL/E&O	\$861,000	\$738,029	\$847,052	\$109,023	\$14,000	\$123,000
2013/14	GL/E&O	\$844,000	\$716,792	\$821,705	\$104,913	\$22,000	\$127,000
2014/15	GL/E&O	\$1,810,000	\$1,297,850	\$1,737,044	\$439,194	\$73,000	\$512,000
2015/16	GL/E&O	\$2,100,000	\$1,219,220	\$1,937,319	\$718,099	\$163,000	\$881,000
2016/17	GL/E&O	\$2,402,000	\$740,062	\$2,103,443	\$1,363,380	\$299,000	\$1,662,000
2017/18	GL/E&O	\$1,430,000	\$56,435	\$917,464	\$861,030	\$513,000	\$1,374,000
		\$20,350,000	\$15,601,000	\$19.251.000	\$3.650.000	\$1.100.000	\$4.749.000

\$20,350,000 \$15,601,000 \$19,251,000 \$3,650,000 \$1,100,000 \$4,749,000

	Total	•		o Policy Aggr	egate Stop L	oss	
		Ultimate	Limited	Limited			
Accident	Aggregate	Limited	Paid	Reported	Case	IBNR	Outstanding
Period	Limit	Losses	Losses	Losses	Reserves	Losses	Losses
Prior		\$10.507.103	\$10.507.103	\$10,507,103	\$0	\$0	\$0
2009/10	\$3,549,580	\$2,000,000	\$1,975,228	\$1,995,911	\$20,683	\$4,000	\$25,000
2010/11	\$3,869,920	\$2,685,000	\$2,647,472	\$2,681,419	\$33,947	\$4,000	\$38,000
2011/12	\$3,416,075	\$2,444,000	\$2,407,637	\$2,433,399	\$25,762	\$11,000	\$36,000
2012/13	\$2,788,172	\$1,487,000	\$1,363,345	\$1,472,369	\$109,023	\$15,000	\$124,000
2013/14	\$3,473,373	\$1,522,000	\$1,391,633	\$1,496,546	\$104,913	\$25,000	\$130,000
2014/15	\$3,994,646	\$3,034,000	\$2,172,095	\$2,958,779	\$786,684	\$75,000	\$862,000
2015/16	\$4,017,890	\$3,283,000	\$2,143,984	\$3,097,106	\$953,121	\$186,000	\$1,139,000
2016/17	\$4,147,089	\$3,568,000	\$1,593,416	\$3,227,565	\$1,634,149	\$340,000	\$1,975,000
2017/18	\$4,271,645	\$2,523,000	\$446,804	\$1,842,502	\$1,395,699	\$680,000	\$2,076,000

Total \$33,053,000 \$26,649,000 \$31,713,000 \$5,064,000 \$1,340,000 \$6,405,000

Oklahoma Schools Insurance Group

Liability (AL & GL Combined)

Percentile Distribution of IBNR For Liability Coverages As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve	Total Reseve
Expected	\$33,053,000	\$1,340,000	\$6,405,000
40%	\$32,649,000	\$936,000	\$6,000,000
50%	\$32,896,000	\$1,183,000	\$6,247,000
55%	\$33,011,000	\$1,298,000	\$6,362,000
60%	\$33,141,000	\$1,428,000	\$6,492,000
65%	\$33,275,000	\$1,562,000	\$6,626,000
75%	\$33,558,000	\$1,845,000	\$6,909,000
85%	\$33,894,000	\$2,181,000	\$7,245,000
90%	\$34,146,000	\$2,433,000	\$7,497,000
95%	\$34,501,000	\$2,788,000	\$7,852,000

Total Expected Ultimate Losses	\$33,053,000
Total Paid Losses as of 6/30/18	\$26,649,000
Total Case Reserves as of 6/30/18	\$5,064,000
Total IBNR Reserves as of 6/30/18	\$1,340,000
Total Outstanding as of 6/30/18	\$6,405,000

Figures in this Table are limited to Aggregate Stop Loss Limits

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(0	3)
	Actual Reported	Expected Reported	Actual Reported		Expected Ultimate	Actual Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
2008/09	\$2,582,887	\$2,582,887	\$2,582,887	0.0%	\$2,582,887	\$2,582,887	\$0	0.0%
2009/10	\$1,998,584	\$1,998,952	\$1,995,911	-0.2%	\$2,000,000	\$2,000,000	\$0	0.0%
2010/11	\$2,681,419	\$2,682,344	\$2,681,419	0.0%	\$2,685,000	\$2,685,000	\$0	0.0%
2011/12	\$2,462,911	\$2,464,592	\$2,433,399	-1.3%	\$2,469,000	\$2,444,000	-\$25,000	-1.0%
2012/13	\$1,503,662	\$1,505,984	\$1,472,369	-2.2%	\$1,512,000	\$1,487,000	-\$25,000	-1.7%
2013/14	\$1,527,007	\$1,532,626	\$1,496,546	-2.4%	\$1,547,000	\$1,522,000	-\$25,000	-1.6%
2014/15	\$2,979,812	\$3,002,024	\$2,958,779	-1.4%	\$3,059,000	\$3,034,000	-\$25,000	-0.8%
2015/16	\$3,149,754	\$3,207,288	\$3,097,106	-3.4%	\$3,358,000	\$3,283,000	-\$75,000	-2.2%
2016/17	\$3,094,546	\$3,222,744	\$3,227,565	0.1%	\$3,568,000	\$3,568,000	\$0	0.0%
2017/18	\$931,272	\$2,146,334	\$1,842,502	-14.2%	\$2,873,000	\$2,523,000	-\$350,000	-12.2%
Total	\$22,911,853	\$24,345,775	\$23,788,483	-2.3%	\$25,653,887	\$25,128,887	-\$525,000	-2.0%

Variance in Reported Losses -\$557,292

	(A) Actual Paid	(B) Expected Paid	(C) Actual Paid	(D)	(E) Expected Ultimate	(F) Actual Ultimate	(0	S)
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
2008/09	\$2,582,887	\$2,582,887	\$2,582,887	0.0%	\$2,582,887	\$2,582,887	\$0	0.0%
2009/10	\$1,959,433	\$1,969,882	\$1,975,228	0.3%	\$2,000,000	\$2,000,000	\$0	0.0%
2010/11	\$2,643,180	\$2,653,907	\$2,647,472	-0.2%	\$2,685,000	\$2,685,000	\$0	0.0%
2011/12	\$2,418,812	\$2,433,287	\$2,407,637	-1.1%	\$2,469,000	\$2,444,000	-\$25,000	-1.0%
2012/13	\$1,359,673	\$1,404,623	\$1,363,345	-2.9%	\$1,512,000	\$1,487,000	-\$25,000	-1.7%
2013/14	\$1,385,257	\$1,435,900	\$1,391,633	-3.1%	\$1,547,000	\$1,522,000	-\$25,000	-1.6%
2014/15	\$2,119,657	\$2,417,136	\$2,172,095	-10.1%	\$3,059,000	\$3,034,000	-\$25,000	-0.8%
2015/16	\$1,967,924	\$2,349,418	\$2,143,984	-8.7%	\$3,358,000	\$3,283,000	-\$75,000	-2.2%
2016/17	\$1,314,443	\$1,698,684	\$1,593,416	-6.2%	\$3,568,000	\$3,568,000	\$0	0.0%
2017/18	\$246,480	\$659,718	\$446,804	-32.3%	\$2,873,000	\$2,523,000	-\$350,000	-12.2%
Total	\$17,997,746	\$19,605,441	\$18,724,501	-4.5%	\$25,653,887	\$25,128,887	-\$525,000	-2.0%

⁽A) and (E) - From Previous actuarial report as of 01/31/18

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) - Judgmentally Selected based on experience

Liability (AL and GL Combined)

Distribution of Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 75.0% 80.0% 85.0% 90.0% 95.0%	\$3,112,000 \$3,296,000 \$3,458,000 \$3,608,000 \$3,771,000 \$3,961,000 \$4,072,000 \$4,196,000 \$4,351,000 \$4,540,000 \$4,857,000 \$5,585,000	\$552,000 \$666,000 \$773,000 \$885,000 \$1,012,000 \$1,157,000 \$1,239,000 \$1,338,000 \$1,452,000 \$1,599,000 \$1,836,000 \$2,341,000	\$3,841,000 \$4,106,000 \$4,347,000 \$4,569,000 \$4,802,000 \$5,068,000 \$5,214,000 \$5,384,000 \$5,582,000 \$5,841,000 \$6,246,000 \$7,099,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$3,842,000 \$4,108,000 \$4,350,000 \$4,573,000 \$4,815,000 \$5,087,000 \$5,236,000 \$5,416,000 \$5,630,000 \$5,914,000 \$6,349,000 \$7,332,000
Expected	\$3,679,000	\$961,000	\$4,640,000	\$23,000	\$4,663,000
Students Cost Per Student	448,230 \$8.21	\$2.14	\$10.35	\$0.05	\$10.40

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Estimated Outstanding Losses for SIR and Corridor

			(A)	(B)	(C)	(D)	(E)	(F)
			Limited	Limited	Limited	Limited		
Accident			Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses
SIR Losses								
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
7/1/13-14	\$250,000		\$2,496,352	\$2,496,177	\$2,496,177	\$0	\$0	\$0
7/1/14-15	\$250,000		\$3,490,913	\$3,386,650	\$3,488,282	\$102,000	\$3,000	\$104,000
7/1/15-16	\$250,000		\$3,437,000	\$3,403,375	\$3,419,370	\$16,000	\$18,000	\$34,000
7/1/16-17	\$250,000		\$4,520,000	\$3,611,655	\$4,366,030	\$754,000	\$154,000	\$908,000
7/1/17-18	\$250,000		\$4,501,000	\$2,885,050	\$4,064,314	\$1,179,000	\$437,000	\$1,616,000
Corridor Losses								
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/14-15		\$1,400,000	\$1,400,000	\$1,026,623	\$1,400,000	\$373,000	\$0	\$373,000
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/17-18		\$1,400,000	\$1,400,000	\$396,542	\$1,400,000	\$1,003,000	\$0	\$1,003,000
Total			\$34,493,000	\$30,454,000	\$33,882,000	\$3,427,000	\$612,000	\$4,038,000

Total Estimated IBNR as of June 30, 2018 \$612,000

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Percentile Distribution of IBNR For Property Coverages As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve	Total Reserve
Expected	\$34,493,000	\$612,000	\$4,038,000
40%	\$34,388,000	\$507,000	\$3,934,000
50%	\$34,488,000	\$607,000	\$4,034,000
55%	\$34,537,000	\$656,000	\$4,083,000
60%	\$34,589,000	\$708,000	\$4,135,000
65%	\$34,641,000	\$760,000	\$4,187,000
75%	\$34,764,000	\$883,000	\$4,310,000
85%	\$34,908,000	\$1,027,000	\$4,454,000
90%	\$35,014,000	\$1,133,000	\$4,560,000
95%	\$35,161,000	\$1,280,000	\$4,707,000

Total Expected Ultimate Losses	\$34,493,000
Total Paid Losses as of 6/30/18	\$30,454,000
Total Case Reserves as of 6/30/18	\$3,427,000
Total IBNR Reserves as of 6/30/18	\$612,000
Total Outstanding as of 6/30/18	\$4,038,000

Figures in this Table are limited to Aggregate Stop Loss Limits

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(0	5)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/4/44 40	#4.040.400	# 4.040.400	#4.040.400	0.00/	# 4.040.400	# 4.040.400	00	0.00/
7/1/11-12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	\$0	0.0%
7/1/12-13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	\$0	0.0%
7/1/13-14	\$3,895,352	\$3,895,352	\$3,896,177	0.0%	\$3,895,352	\$3,896,352	\$1,000	0.0%
7/1/14-15	\$4,662,027	\$4,669,469	\$4,888,282	4.7%	\$4,678,000	\$4,890,913	\$212,913	4.6%
7/1/15-16	\$4,794,734	\$4,837,000	\$4,819,370	-0.4%	\$4,837,000	\$4,837,000	\$0	0.0%
7/1/16-17	\$5,751,577	\$5,920,000	\$5,766,030	-2.6%	\$5,920,000	\$5,920,000	\$0	0.0%
7/1/17-18	\$4,061,279	\$6,351,000	\$5,464,314	-14.0%	\$6,351,000	\$5,901,000	-\$450,000	-7.1%
Total	\$32,212,632	\$34,720,485	\$33,881,837	-2.4%	\$34,729,015	\$34,492,928	-\$236,087	-0.7%

⁽A) and (E) - From Previous actuarial report as of 1/31/2018 Losses below \$250,000 SIR plus Corridor Losses

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) - Judgmentally Selected based on experience

Oklahoma Schools Insurance Group

Property Including Auto Physical Damage

Distribution of Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

Percentile	SIR Layer \$250,000 All Perils	Cost of Corridor Ltd. \$1.4M	Total Retained Losses	Insured Excess Losses	Total Incurred Losses
T Crocritic	All I Chio	Ltd. \$1.4W	200000	200000	200000
20.0%	\$5,158,000	\$1,400,000	\$6,551,000	\$3,160,000	\$10,309,000
30.0%	\$5,493,000	\$1,400,000	\$6,888,000	\$4,324,000	\$11,747,000
40.0%	\$5,789,000	\$1,400,000	\$7,187,000	\$5,624,000	\$13,211,000
50.0%	\$6,063,000	\$1,400,000	\$7,463,000	\$7,054,000	\$14,721,000
60.0%	\$6,384,000	\$1,400,000	\$7,780,000	\$8,756,000	\$16,658,000
70.0%	\$6,711,000	\$1,400,000	\$8,109,000	\$11,137,000	\$19,036,000
75.0%	\$6,893,000	\$1,400,000	\$8,291,000	\$12,663,000	\$20,654,000
80.0%	\$7,114,000	\$1,400,000	\$8,512,000	\$14,643,000	\$22,723,000
85.0%	\$7,368,000	\$1,400,000	\$8,768,000	\$17,412,000	\$25,349,000
90.0%	\$7,694,000	\$1,400,000	\$9,094,000	\$21,207,000	\$29,065,000
95.0%	\$8,251,000	\$1,400,000	\$9,651,000	\$26,147,000	\$34,278,000
99.0%	\$9,445,000	\$1,400,000	\$10,845,000	\$36,816,000	\$45,426,000
Expected	\$6,143,000	\$1,400,000	\$7,543,000	\$9,475,000	\$17,018,000
TIV in \$100s	\$118,067,243				
Cost Per \$100 TIV	\$0.052	\$0.012	\$0.064	\$0.080	\$0.144

APD	\$826,000	\$0	\$826,000	\$0	\$826,000
Other Property	\$5,317,000	\$1,400,000	\$6,717,000	\$9,475,000	\$16,192,000

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(G	;)
	Actual	Expected	Actual					
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	\$0	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	\$0	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	\$0	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	\$0	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	\$0	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	\$0	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	\$0	0.0%
7/1/09-10	\$706,085	\$706,054	\$703,413	-0.4%	\$706,000	\$706,000	\$0	0.0%
7/1/10-11	\$843,333	\$843,210	\$843,333	0.0%	\$843,000	\$843,000	\$0	0.0%
7/1/11-12	\$973,586	\$973,739	\$973,586	0.0%	\$974,000	\$974,000	\$0	0.0%
7/1/12-13	\$625,317	\$625,573	\$625,317	0.0%	\$626,000	\$626,000	\$0	0.0%
7/1/13-14	\$700,899	\$701,692	\$674,842	-3.8%	\$703,000	\$678,000	-\$25,000	-3.6%
7/1/14-15	\$1,164,683	\$1,168,223	\$1,221,735	4.6%	\$1,174,000	\$1,224,000	\$50,000	4.3%
7/1/15-16	\$1,129,687	\$1,140,430	\$1,159,787	1.7%	\$1,158,000	\$1,183,000	\$25,000	2.2%
7/1/16-17	\$1,065,183	\$1,102,504	\$1,124,122	2.0%	\$1,166,000	\$1,166,000	\$0	0.0%
7/1/17-18	\$531,156	\$974,035	\$925,038	-5.0%	\$1,143,000	\$1,093,000	-\$50,000	-4.4%
Total	\$11,950,035	\$12,445,567	\$12,461,279	0.1%	\$12,703,000	\$12,703,000	\$0	0.0%

Variance in Reported Losses \$15,712

	(A)	(B)	(C)	(D)	(E)	(F)	(G	;)
	Actual	Expected	Actual					
	Paid	Paid	Paid		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7///00 00	* 05.007	* 05.007	405.007	0.00/	* 05.007	* 05.007	•	0.00/
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	\$0	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	\$0	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	\$0	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	\$0	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	\$0	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	\$0	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	\$0	0.0%
7/1/09-10	\$687,646	\$692,768	\$703,413	1.5%	\$706,000	\$706,000	\$0	0.0%
7/1/10-11	\$843,333	\$843,237	\$843,333	0.0%	\$843,000	\$843,000	\$0	0.0%
7/1/11-12	\$947,823	\$955,683	\$947,823	-0.8%	\$974,000	\$974,000	\$0	0.0%
7/1/12-13	\$625,317	\$625,530	\$625,317	0.0%	\$626,000	\$626,000	\$0	0.0%
7/1/13-14	\$673,722	\$683,145	\$674,842	-1.2%	\$703,000	\$678,000	-\$25,000	-3.6%
7/1/14-15	\$862,433	\$964,834	\$874,245	-9.4%	\$1,174,000	\$1,224,000	\$50,000	4.3%
7/1/15-16	\$889,240	\$976,228	\$924,765	-5.3%	\$1,158,000	\$1,183,000	\$25,000	2.2%
7/1/16-17	\$833,576	\$929,391	\$853,354	-8.2%	\$1,166,000	\$1,166,000	\$0	0.0%
7/1/17-18	\$217,543	\$536,129	\$390,369	-27.2%	\$1,143,000	\$1,093,000	-\$50,000	-4.4%
Total	\$10,790,739	\$11,417,050	\$11,047,566	-3.2%	\$12,703,000	\$12,703,000	\$0	0.0%

⁽A) and (E) - From Previous actuarial report as of 01/31/2018

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + adjustment in (G)

⁽G) - Judgmentally selected based on experience

Automobile Liability

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)
	Estimated	Limited	Limited	Limited		
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Losses	Losses	Losses	Reserves	Losses	Losses
		_				
			of June 30, 201			
7/1/02-03	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
7/1/03-04	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
7/1/04-05	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
7/1/05-06	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
7/1/06-07	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
7/1/07-08	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
7/1/09-10	\$706,000	\$703,413	\$703,413	\$0	\$3,000	\$3,000
7/1/10-11	\$843,000	\$843,333	\$843,333	\$0	\$0	\$0
7/1/11-12	\$974,000	\$947,823	\$973,586	\$25,762	\$0	\$26,000
7/1/12-13	\$626,000	\$625,317	\$625,317	\$0	\$1,000	\$1,000
7/1/13-14	\$678,000	\$674,842	\$674,842	\$0	\$3,000	\$3,000
7/1/14-15	\$1,224,000	\$874,245	\$1,221,735	\$347,490	\$2,000	\$350,000
7/1/15-16	\$1,183,000	\$924,765	\$1,159,787	\$235,022	\$23,000	\$258,000
7/1/16-17	\$1,166,000	\$853,354	\$1,124,122	\$270,769	\$42,000	\$313,000
7/1/17-18	\$1,093,000	\$390,369	\$925,038	\$534,669	\$168,000	\$703,000
Total	\$12,703,000	\$11,047,566	\$12,461,279	\$1,413,713	\$242,000	\$1,657,000

Total Estimated IBNR as of June 30, 2018 \$242,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR

⁽D) = (C) - (B)

⁽E) = (A) - (C)

⁽F) = (A) - (B)

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 75.0% 80.0% 85.0% 90.0% 99.0%	\$1,052,000 \$1,130,000 \$1,203,000 \$1,271,000 \$1,342,000 \$1,423,000 \$1,466,000 \$1,517,000 \$1,576,000 \$1,663,000 \$1,793,000 \$2,061,000	\$36,000 \$61,000 \$86,000 \$112,000 \$144,000 \$181,000 \$204,000 \$232,000 \$266,000 \$309,000 \$381,000 \$549,000	\$1,133,000 \$1,231,000 \$1,317,000 \$1,410,000 \$1,492,000 \$1,590,000 \$1,648,000 \$1,712,000 \$1,791,000 \$1,900,000 \$2,063,000 \$2,409,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,133,000 \$1,231,000 \$1,317,000 \$1,410,000 \$1,492,000 \$1,590,000 \$1,648,000 \$1,712,000 \$1,791,000 \$1,900,000 \$2,063,000 \$2,409,000
Expected Vehicles Students	\$1,291,000 11,011 448,230	\$142,000	\$1,433,000	\$0	\$1,433,000
Cost Per Vehicle* Cost Per Student	\$117 \$2.88	\$13 \$0.32	\$130 \$3.20	\$0 \$0.00	\$130 \$3.20

^{* -} Cost per Vehicle based on Forecast study as of 1/31/2018 Forecast losses adjusted for change in exposure

General Liability including E&O

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/4/00 00	¢460,000	¢460,000	¢460,000	0.00/	¢460,000	¢460,000	ΦO	0.00/
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	\$ 0	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	\$0	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	\$0	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	\$0	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	\$0	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	\$0	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	\$0	0.0%
7/1/09-10	\$1,292,498	\$1,292,898	\$1,292,498	0.0%	\$1,294,000	\$1,294,000	\$0	0.0%
7/1/10-11	\$1,838,086	\$1,839,134	\$1,838,086	-0.1%	\$1,842,000	\$1,842,000	\$0	0.0%
7/1/11-12	\$1,489,325	\$1,490,852	\$1,459,814	-2.1%	\$1,495,000	\$1,470,000	-\$25,000	-1.7%
7/1/12-13	\$878,345	\$880,412	\$847,052	-3.8%	\$886,000	\$861,000	-\$25,000	-2.8%
7/1/13-14	\$826,108	\$830,934	\$821,705	-1.1%	\$844,000	\$844,000	\$0	0.0%
7/1/14-15	\$1,815,129	\$1,833,801	\$1,737,044	-5.3%	\$1,885,000	\$1,810,000	-\$75,000	-4.0%
7/1/15-16	\$2,020,067	\$2,066,858	\$1,937,319	-6.3%	\$2,200,000	\$2,100,000	-\$100,000	-4.5%
7/1/16-17	\$2,029,363	\$2,120,241	\$2,103,443	-0.8%	\$2,402,000	\$2,402,000	\$0	0.0%
7/1/17-18	\$400,116	\$1,172,298	\$917,464	-21.7%	\$1,730,000	\$1,430,000	-\$300,000	-17.3%
Total	\$18,886,034	\$19,824,424	\$19,251,420	-2.9%	\$20,874,996	\$20,349,996	-\$525,000	-2.5%

Variance In Reported Losses -\$573,004

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Paid	Paid	Paid		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	¢169.000	¢169.000	¢169.000	0.0%	¢169,000	¢169.000	\$0	0.00/
	\$168,909	\$168,909	\$168,909		\$168,909	\$168,909	* -	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	\$0	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	\$0	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	\$0	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	\$0	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	\$0	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	\$0	0.0%
7/1/09-10	\$1,271,788	\$1,277,114	\$1,271,815	-0.4%	\$1,294,000	\$1,294,000	\$0	0.0%
7/1/10-11	\$1,799,847	\$1,810,670	\$1,804,139	-0.4%	\$1,842,000	\$1,842,000	\$0	0.0%
7/1/11-12	\$1,470,989	\$1,477,604	\$1,459,814	-1.2%	\$1,495,000	\$1,470,000	-\$25,000	-1.7%
7/1/12-13	\$734,356	\$779,093	\$738,029	-5.3%	\$886,000	\$861,000	-\$25,000	-2.8%
7/1/13-14	\$711,535	\$752,755	\$716,792	-4.8%	\$844,000	\$844,000	\$0	0.0%
7/1/14-15	\$1,257,224	\$1,452,302	\$1,297,850	-10.6%	\$1,885,000	\$1,810,000	-\$75,000	-4.0%
7/1/15-16	\$1,078,684	\$1,373,190	\$1,219,220	-11.2%	\$2,200,000	\$2,100,000	-\$100,000	-4.5%
7/1/16-17	\$480,867	\$769,294	\$740,062	-3.8%	\$2,402,000	\$2,402,000	\$0	0.0%
7/1/17-18	\$28,936	\$123,589	\$56,435	-54.3%	\$1,730,000	\$1,430,000	-\$300,000	-17.3%
Total	\$15,131,223	\$16,112,607	\$15,601,151	-3.2%	\$20,874,996	\$20,349,996	-\$525,000	-2.5%

⁽A) and (E) - From Previous actuarial report as of 01/31/2018

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + (G)

⁽G) - Judgmentally selected based on experience

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)
	Estimated	Limited	Limited	Limited		
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Losses	Losses	Losses	Reserves	Losses	Losses
		10	of lune 20, 204	0		
=///00.00	* 4 0 0 0 0 0		of June 30, 201		••	40
7/1/02-03	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
7/1/03-04	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
7/1/04-05	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
7/1/06-07	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
7/1/09-10	\$1,294,000	\$1,271,815	\$1,292,498	\$20,683	\$2,000	\$22,000
7/1/10-11	\$1,842,000	\$1,804,139	\$1,838,086	\$33,947	\$4,000	\$38,000
7/1/11-12	\$1,470,000	\$1,459,814	\$1,459,814	\$0	\$10,000	\$10,000
7/1/12-13	\$861,000	\$738,029	\$847,052	\$109,023	\$14,000	\$123,000
7/1/13-14	\$844,000	\$716,792	\$821,705	\$104,913	\$22,000	\$127,000
7/1/14-15	\$1,810,000	\$1,297,850	\$1,737,044	\$439,194	\$73,000	\$512,000
7/1/15-16	\$2,100,000	\$1,219,220	\$1,937,319	\$718,099	\$163,000	\$881,000
7/1/16-17	\$2,402,000	\$740,062	\$2,103,443	\$1,363,380	\$299,000	\$1,662,000
7/1/17-18	\$1,430,000	\$56,435	\$917,464	\$861,030	\$513,000	\$1,374,000
Total	\$20,350,000	\$15,601,151	\$19,251,420	\$3,650,269	\$1,100,000	\$4,749,000

Total Estimated IBNR as of June 30, 2018 \$1,100,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR

⁽D) = (C) - (B)

⁽E) = (A) - (C)

⁽F) = (A) - (B)

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 75.0% 80.0% 85.0% 90.0% 99.0%	\$1,864,000 \$2,026,000 \$2,170,000 \$2,319,000 \$2,466,000 \$2,631,000 \$2,725,000 \$2,842,000 \$2,979,000 \$3,172,000 \$3,472,000 \$4,141,000	\$421,000 \$530,000 \$631,000 \$734,000 \$859,000 \$1,003,000 \$1,086,000 \$1,183,000 \$1,291,000 \$1,442,000 \$1,677,000 \$2,156,000	\$2,452,000 \$2,707,000 \$2,922,000 \$3,124,000 \$3,347,000 \$3,603,000 \$3,731,000 \$3,888,000 \$4,075,000 \$4,329,000 \$4,725,000 \$5,499,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,452,000 \$2,708,000 \$2,926,000 \$3,131,000 \$3,355,000 \$3,619,000 \$3,753,000 \$3,921,000 \$4,121,000 \$4,387,000 \$4,845,000 \$5,865,000
Expected Students Cost Per Student*	\$2,388,000 \$2,388,000 448,230 \$5.33	\$2,156,000 \$819,000 \$1.83	\$3,207,000 \$3,207,000	\$23,000 \$23,000 \$0.05	\$3,230,000 \$3,230,000

^{*-} Cost per Student taken from forecast study as of 1/31/2018 Forecast losses are adjusted for change in exposure estimate

Property including Auto Physical Damage

Comparison of Results with Previous Estimates as of 01/31/18 SIR Losses Only

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	\$0	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	\$0	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	\$0	0.0%
7/1/05-06	\$2,616,997	\$2,616,997	\$2,616,997	0.0%	\$2,616,997	\$2,616,997	\$0	0.0%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	\$0	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	\$0	0.0%
7/1/08-09	\$4,561,347	\$4,561,347	\$4,561,347	0.0%	\$4,561,347	\$4,561,347	\$0	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,870,042	\$4,870,042	\$0	0.0%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	\$0	0.0%
7/1/11-12	\$3,201,043	\$3,201,043	\$3,201,043	0.0%	\$3,201,043	\$3,201,043	\$0	0.0%
7/1/12-13	\$2,629,175	\$2,629,175	\$2,629,175	0.0%	\$2,629,175	\$2,629,175	\$0	0.0%
7/1/13-14	\$2,495,352	\$2,495,352	\$2,496,177	0.0%	\$2,495,352	\$2,496,352	\$1,000	0.0%
7/1/14-15	\$3,491,913	\$3,491,913	\$3,488,282	-0.1%	\$3,491,913	\$3,490,913	-\$1,000	0.0%
7/1/15-16	\$3,394,734	\$3,411,199	\$3,419,370	0.2%	\$3,437,000	\$3,437,000	\$0	0.0%
7/1/16-17	\$4,351,577	\$4,416,737	\$4,366,030	-1.1%	\$4,520,000	\$4,520,000	\$0	0.0%
7/1/17-18	\$2,661,279	\$4,581,504	\$4,064,314	-11.3%	\$4,951,000	\$4,501,000	-\$450,000	-9.1%
Total	\$47,229,131	\$49,230,981	\$48,668,450	-1.1%	\$49,729,541	\$49,279,541	-\$450,000	-0.9%

Variance in Reported Losses -\$562,531

⁽A) and (E) - From Previous actuarial report as of 01/31/2018 Limited to \$250,000 for 11-12 through 16-17

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) = Judgmentally selected based on experience

Comparison of Results with Previous Estimates as of 01/31/18 SIR Losses and Corridor

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/4/00 00	#242.04 5	#242.04 5	#242.04 5	0.00/	#242.04 E	#242.04 E	ΦO	0.00/
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	\$ 0	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	\$0	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	\$0	0.0%
7/1/05-06	\$2,616,997	\$2,616,997	\$2,616,997	0.0%	\$2,616,997	\$2,616,997	\$0	0.0%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	\$0	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	\$0	0.0%
7/1/08-09	\$4,561,347	\$4,561,347	\$4,561,347	0.0%	\$4,561,347	\$4,561,347	\$0	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,870,042	\$4,870,042	\$0	0.0%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	\$0	0.0%
7/1/11-12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	\$0	0.0%
7/1/12-13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	\$0	0.0%
7/1/13-14	\$3,895,352	\$3,895,352	\$3,896,177	0.0%	\$3,895,352	\$3,896,352	\$1,000	0.0%
7/1/14-15	\$4,662,027	\$4,669,469	\$4,888,282	4.7%	\$4,678,000	\$4,890,913	\$212,913	4.6%
7/1/15-16	\$4,794,734	\$4,837,000	\$4,819,370	-0.4%	\$4,837,000	\$4,837,000	\$0	0.0%
7/1/16-17	\$5,751,577	\$5,920,000	\$5,766,030	-2.6%	\$5,920,000	\$5,920,000	\$0	0.0%
7/1/17-18	\$4,061,279	\$6,351,000	\$5,464,314	-14.0%	\$6,351,000	\$5,901,000	-\$450,000	-7.1%
Total	\$57,216,691	\$59,724,543	\$58,885,896	-1.4%	\$59,733,074	\$59,496,987	-\$236,087	-0.4%

Variance in Reported Losses -\$838,648

⁽A) and (E) - From Previous actuarial report as of 01/31/2018 Includes Corridor Losses for 11-12 through 16-17

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + (G)

⁽G) = Judgmentally Selected Based on Experience

Estimated Outstanding Losses

		(A)	(B)	(C)	(D)	(E)	(F)
		Limited	Limited	Limited	Limited		
Accident		Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Losses	Losses	Losses	Reserves	Losses	Losses
		As of	June 30, 2018	}			
7/1/02-03	\$100k/\$200k	\$312,045	\$312,045	\$312,045	\$0	\$0	\$0
7/1/03-04	\$100k/\$200k	\$1,287,169	\$1,287,169	\$1,287,169	\$0	\$0	\$0
7/1/04-05	\$100k/\$200k	\$1,266,993	\$1,266,993	\$1,266,993	\$0	\$0	\$0
7/1/05-06	\$100k/\$200k	\$2,616,997	\$2,616,997	\$2,616,997	\$0	\$0	\$0
7/1/06-07	\$100k/\$200k	\$2,604,514	\$2,604,514	\$2,604,514	\$0	\$0	\$0
7/1/07-08	\$100k/\$200k	\$3,915,481	\$3,915,481	\$3,915,481	\$0	\$0	\$0
7/1/08-09	\$100k/\$200k	\$4,561,347	\$4,561,347	\$4,561,347	\$0	\$0	\$0
7/1/09-10	\$100k/\$200k	\$4,870,042	\$4,870,042	\$4,870,042	\$0	\$0	\$0
7/1/10-11	\$100k/\$200k	\$3,569,472	\$3,569,472	\$3,569,472	\$0	\$0	\$0
7/1/11-12	\$250,000 /\$2.7M corridor	\$4,018,489	\$4,018,489	\$4,018,489	\$0	\$0	\$0
7/1/12-13	\$250,000 /\$2.4M corridor	\$5,029,175	\$5,029,175	\$5,029,175	\$0	\$0	\$0
7/1/13-14	\$250,000 /\$1.4M corridor	\$3,896,352	\$3,896,177	\$3,896,177	\$0	\$0	\$0
7/1/14-15	\$250,000 /\$1.4M corridor	\$4,890,913	\$4,413,273	\$4,888,282	\$475,009	\$3,000	\$478,000
7/1/15-16	\$250,000 /\$1.4M corridor	\$4,837,000	\$4,803,375	\$4,819,370	\$15,996	\$18,000	\$34,000
7/1/16-17	\$250,000 /\$1.4M corridor	\$5,920,000	\$5,011,655	\$5,766,030	\$754,375	\$154,000	\$908,000
7/1/17-18	\$250,000 /\$1.4M corridor	\$5,901,000	\$3,281,592	\$5,464,314	\$2,182,723	\$437,000	\$2,619,000
Total		\$59,496,987	\$55,457,793	\$58,885,896	\$3,428,102	\$612,000	\$4,039,000

Total Estimated IBNR as of June 30, 2018 \$612,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = (C) - (B)

⁽E)=(A)-(C)

⁽F)=(A)-(B)

Property including Auto Physical Damage

Estimated Outstanding Losses for SIR and Corridor

			(A)	(B)	(C)	(D)	(E)	(F)		
			Limited	Limited	Limited	Limited				
Accident			Ultimate	Paid	Reported	Case	IBNR	Outstanding		
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses		
As of June 30, 2018										
Stop Loss Years To	<u>otal</u>		\$25,004,059	\$25,004,059	\$25,004,059	\$0	\$0	\$0		
SIR Losses										
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0		
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0		
7/1/13-14	\$250,000		\$2,496,352	\$2,496,177	\$2,496,177	\$0	\$0	\$0		
7/1/14-15	\$250,000		\$3,490,913	\$3,386,650	\$3,488,282	\$102,000	\$3,000	\$104,000		
7/1/15-16	\$250,000		\$3,437,000	\$3,403,375	\$3,419,370	\$16,000	\$18,000	\$34,000		
7/1/16-17	\$250,000		\$4,520,000	\$3,611,655	\$4,366,030	\$754,000	\$154,000	\$908,000		
7/1/17-18	\$250,000		\$4,501,000	\$2,885,050	\$4,064,314	\$1,179,000	\$437,000	\$1,616,000		
Corridor Losses										
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0		
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0		
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0		
7/1/14-15		\$1,400,000	\$1,400,000	\$1,026,623	\$1,400,000	\$373,000	\$0	\$373,000		
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0		
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0		
7/1/17-18		\$1,400,000	\$1,400,000	\$396,542	\$1,400,000	\$1,003,000	\$0	\$1,003,000		
Total			\$59,497,000	\$55,458,000	\$58,886,000	\$3,427,000	\$612,000	\$4,038,000		

Total Estimated IBNR as of June 30, 2018 \$612,000

Distribution of Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

Percentile	SIR Layer \$250,000 All Perils	Cost of Corridor Ltd. \$1.4M	Total Retained Losses	Insured Excess Losses	Total Incurred Losses
rercentile	All Fellis	Llu. \$1.4IVI	LUSSES	LUSSES	LUSSES
20.0% 30.0%	\$5,158,000 \$5,493,000	\$1,400,000 \$1,400,000	\$6,551,000 \$6,888,000	\$3,160,000 \$4,324,000	\$10,309,000 \$11,747,000
40.0%	\$5,789,000	\$1,400,000	\$7,187,000	\$5,624,000	\$13,211,000
50.0%	\$6,063,000	\$1,400,000	\$7,463,000	\$7,054,000	\$14,721,000
60.0%	\$6,384,000	\$1,400,000	\$7,780,000	\$8,756,000	\$16,658,000
70.0%	\$6,711,000	\$1,400,000	\$8,109,000	\$11,137,000	\$19,036,000
75.0%	\$6,893,000	\$1,400,000	\$8,291,000	\$12,663,000	\$20,654,000
80.0%	\$7,114,000	\$1,400,000	\$8,512,000	\$14,643,000	\$22,723,000
85.0%	\$7,368,000	\$1,400,000	\$8,768,000	\$17,412,000	\$25,349,000
90.0%	\$7,694,000	\$1,400,000	\$9,094,000	\$21,207,000	\$29,065,000
95.0%	\$8,251,000	\$1,400,000	\$9,651,000	\$26,147,000	\$34,278,000
99.0%	\$9,445,000	\$1,400,000	\$10,845,000	\$36,816,000	\$45,426,000
Expected	\$6,143,000	\$1,400,000	\$7,543,000	\$9,475,000	\$17,018,000
TIV in \$100s	\$118,067,243				
Cost Per \$100 TIV	\$0.052	\$0.012	\$0.064	\$0.080	\$0.144



Statement of Actuarial Opinion

Oklahoma Schools Insurance Group

December 10, 2018

Based on data as of June 30, 2018

Mary Frances Miller, FCAS, MAAA Cheryl White, FCAS, MAAA Thomas E. Meyer, FCAS, MAAA Laura T. Sprouse, FCAS, MAAA Daniel A. Linton, FCAS, MAAA Jack Pipa, ACAS, MAAA

STATEMENT OF ACTUARIAL OPINION

Net Retained Liabilities as of June 30, 2018
Premium Adequacy for 7/1/18-19

Oklahoma Schools Insurance Group

I, Laura T. Sprouse, am a Fellow of the Casualty Actuarial Society and a Member of the American Academy of Actuaries and meet the Academy's qualification standards for prescribed Statements of Actuarial Opinion. Although no formal appointment was made by the Board of Directors (or equivalent authority) of Oklahoma Schools Insurance Group (OSIG), I have been asked to opine on the adequacy of the reserves for loss and loss adjustment expenses (including IBNR), and the adequacy of premiums for the Oklahoma Schools Insurance Group. This opinion is prepared in accordance with *Actuarial Standards of Practice No. 36 and No. 43*.

The scope of this review is to evaluate outstanding losses and allocated loss expense reserves (including IBNR) for OSIG's retained liabilities for automobile liability, general liability, and property including auto physical damage evaluated as of June 30, 2018, and to evaluate the premiums for the period July 1, 2018, through June 30, 2019.

The review was based upon summaries of loss and expense data and other related information supplied by Jennifer McKenzie, Arthur J. Gallagher. The data were not audited for accuracy, but were checked for reasonableness and consistency through comparison to previous loss runs. Based on these data, the required reserves were estimated using generally accepted actuarial assumptions and methods. The review included such examination of the assumptions and methods used and such tests of the calculations as I considered necessary.

Loss and ALAE Reserves as of June 30, 2018

My analysis produced the following estimates of unpaid liabilities for losses and allocated loss adjustment expenses as of June 30, 2018, net of reinsurance.

 Case Reserves
 \$8,491,000

 IBNR Reserves
 \$1,952,000

 Total Loss & ALAE Reserve
 \$10,443,000

In my opinion, OSIG's carried reserve amount of \$10,870,371 is a reasonable estimate of the net outstanding loss and allocated loss adjustment expense for accident periods ending June 30, 2018.



Due to the nature of third party liability claims and OSIG's relatively large retention, it is possible that OSIG could experience a fluctuation of material size from the expected outstanding losses. We have observed some emergence of property losses in the third and fourth report year. However, any such loss would be capped at \$250,000 since the corridor has been used up for each of the last six years. We have selected a materiality threshold of \$1,182,000 which is about 10% of surplus. While it is possible that losses could develop by more than this, the probability of this amount of adverse development is less than 5%. Therefore, I would conclude there is not a significant risk of material adverse development.

Premium adequacy for 7/1/18-19

My analysis produced a forecast of the ultimate retained losses for the period 7/1/18-19 of \$11,222,000. OSIG has budgeted roughly \$22,161,000 for reinsurance premiums and other expenses for a total budget of \$33,383,000. OSIG expects to collect about \$32,622,000 in member contributions and earn another \$205,000 in investment income. The expected shortfall of \$556,000 is less than 5% of surplus. OSIG currently has a reserve-to-surplus ratio of 0.92, and I would consider this to be a suitable use of surplus.

Actuarial Reports

The reserve opinion was based on the actuarial study for OSIG dated March 23, 2018, and the letter dated August 24, 2018, that summarized our reserve review as of June 30, 2018. The premium adequacy opinion for 7/1/18-19 was based on my actuarial study dated March 23, 2018, and the August 24 letter.

This opinion was prepared solely for the purpose of filing with regulatory agencies and is not intended for any other purpose.

Sincerely,

Laura T. Sprouse, FCAS, MAAA

Select Actuarial Services 28 White Bridge Rd, Suite 205 Nashville, Tennessee 37205 (615) 620-7584 laura.sprouse@selectactuarial.com

December 10, 2018





Mary Frances Miller, FCAS, MAAA Cheryl White, FCAS, MAAA Thomas E. Meyer, FCAS, MAAA Laura T. Sprouse, FCAS, MAAA Daniel A. Linton, FCAS, MAAA Jack Pipa, ACAS, MAAA

August 24, 2018

Ms. Jennifer McKenzie Oklahoma Schools Insurance Group Arthur J. Gallagher Risk Management Services, Inc. 1300 S. Main Tulsa, OK 74119

RE: OSIG Actuarial Update as of 6/30/18

Dear Jennifer,

The purpose of this review is to update the IBNR estimate as of June 30, 2018, based on the actual loss data for the Oklahoma Schools Insurance Group (OSIG) as of June 30, 2018, and to revise the forecast ultimate losses for 7/1/18-19 based on the exposures written on July 1, 2018. I have compared the current data to the data used in the prior actuarial report as of January 31, 2018, and the projected paid and reported losses as of June 30, 2018. For those accident periods where actual losses deviated from expected losses by a significant amount, the ultimate losses for those periods were increased or decreased accordingly. Since IBNR is calculated as the difference in the ultimate losses and the limited reported losses, the level of IBNR may fluctuate although ultimate losses may be relatively stable, or vice versa. Changes in ultimate losses generally track the changes in reported and paid losses compared to expectations. The change in ultimate losses (before applying the aggregate stop loss limits) is shown below.

Change in Selected Ultimate Losses for years 02/03 through 17/18 Compared to Report as of 1/31/18				
Automobile Liability	\$0			
General Liability with E&O	-\$525,000			
Property including APD	-\$236,000			
Total	-\$761,000			

The comparisons of the actual versus expected reported losses as of June 30, 2018, are shown in Table 1 for each line. We have selected a new estimate of ultimate losses based upon the comparison of actual versus expected losses. The change in the ultimate losses is given in terms of a dollar amount as well as an overall percentage change. Experience since the previous actuarial report is better than expected in total. Ultimate losses for liability were decreased \$525,000 in total including decreases for general liability of \$300,000 in the 17-18 year, \$100,000 for 15-16 and smaller decreases on years 14-15, 12-13 and 11-12. Experience for automobile

liability varied by year, but experience in total was close to expected. Adjustments to ultimate losses on individual years had an offsetting effect, so that there was \$0 overall change.

There was an increase in excess property losses in the 14-15 year, and we now expect that OSIG will exceed the corridor deductible of \$1,400,000 for that year. The 17-18 year property claims are better than expected, and the ultimate losses were decreased for this year. In total, ultimate losses for Property were decreased by \$236,000.

The IBNR is calculated in Table A and in Table 2 for each line of business as the difference in the selected ultimate losses and the limited reported losses as of June 30, 2018.

OSIG Reserve Estimates as of June 30, 2018							
Liability Property							
Case Reserves	\$5,064,000	\$3,427,000					
IBNR Reserves	\$1,340,000	\$612,000					
Total Reserve	\$6,405,000	\$4,038,000					

The Liability reserves are higher than the projected based on 1/31/18 data. This is because even though the reported and paid losses are less than projected in the prior study, the ultimate losses were also reduced, but not by the same degree. For property, there is \$1,376,000 in case reserves for claims in the corridor and \$2,051,000 in the SIR layer. No IBNR is needed for the excess losses since the corridor has been exceeded. All IBNR for property claims is related to losses within the \$250,000 SIR.

We adjusted the forecast losses for 7/1/18-19 for the change in the amount of exposures to be underwritten in this period. The selected loss rates from the 1/31/18 study were applied to the current exposure estimates to derive the ultimate losses for the 7/1/18-19 year. The liability losses are capped at the \$100,000 deductible.

Forecast losses for OSIG's Liability Program 7/1/18-19							
	Ultimate Losses	Loss Rate					
Automobile Liability	\$1,291,000	\$117 per vehicle or (\$2.88 per student)					
General Liability (including E&O)	\$2,388,000	\$5.33 per student					
Total Forecast	\$3,679,000	\$8.21 per student					

The Property forecast for 7/1/18-19 is shown below. We expect that OSIG will utilize the full \$1,400,000 corridor deductible again this year. The portion of the \$7,543,000 property forecast associated with Auto Physical Damage claims is \$826,000. The rates per \$100 TIV have changed slightly for property. This is because the APD losses which are all assumed to be included in the SIR layer are projected using vehicle counts. In addition, the corridor is spread over a larger exposure base than before.



Forecast losses for OSIG's Property Program 7/1/18-19						
	Ultimate Losses	Loss Rate				
Losses within the \$250,000 Deductible	\$6,143,000	\$0.052 per \$100 TIV				
Corridor deductible	\$1,400,000	\$0.012 per \$100 TIV				
Total Forecast	\$7,543,000	\$0.064 per \$100 TIV				

Table A summarizes the IBNR and Outstanding losses for Liability and Property. Table B shows the IBNR for each of Liability and Property at various confidence levels. Table C shows the comparison of experience between 1/31/18 and 6/30/18. The updated loss projection for the 7/1/18-19 year is in Table D.

If you or your auditors have any questions, I would be happy to answer them. As always, it has been a pleasure serving you and the Oklahoma Schools Insurance Group.

Sincerely,

Laura T. Sprouse, FCAS, MAAA



Estimated Outstanding Losses for Liability As of June 30, 2018

		(A)	(B)	(C)	(D)	(E)	(F)
Appidost		Estimated	Limited	Limited	Cooo	IDND	Outstandin
Accident	Coveres	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Coverage	Losses	Losses	Losses	Reserves	Losses	Losses
2002/03	AL	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0
2003/04	AL	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0
2004/05	AL	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0
2005/06	AL	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0
2006/07	AL	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0
2007/08	AL	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0
2008/09	AL	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0
2009/10	AL	\$706,000	\$703,413	\$703,413	\$0	\$3,000	\$3,000
2010/11	AL	\$843,000	\$843,333	\$843,333	\$0	\$0	\$0
2011/12	AL	\$974,000	\$947,823	\$973,586	\$25,762	\$0	\$26,000
2012/13	AL	\$626,000	\$625,317	\$625,317	\$0	\$1,000	\$1,000
2013/14	AL	\$678,000	\$674,842	\$674,842	\$0	\$3,000	\$3,000
2014/15	AL	\$1,224,000	\$874,245	\$1,221,735	\$347,490	\$2,000	\$350,000
2015/16	AL	\$1,183,000	\$924,765	\$1,159,787	\$235,022	\$23,000	\$258,000
2016/17	AL	\$1,166,000	\$853,354	\$1,124,122	\$270,769	\$42,000	\$313,000
2017/18	AL	\$1,093,000	\$390,369	\$925,038	\$534,669	\$168,000	\$703,000
		\$12,703,000	\$11,048,000	\$12,461,000	\$1,414,000	\$242,000	\$1,657,000
2002/03	GL/E&O	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
2003/04	GL/E&O	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
2004/05	GL/E&O	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
2005/06	GL/E&O	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
2006/07	GL/E&O	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
2007/08	GL/E&O	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
2008/09	GL/E&O	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
2009/10	GL/E&O	\$1,294,000	\$1,271,815	\$1,292,498	\$20,683	\$2,000	\$22,000
2010/11	GL/E&O	\$1,842,000	\$1,804,139	\$1,838,086	\$33,947	\$4,000	\$38,000
2011/12	GL/E&O	\$1,470,000	\$1,459,814	\$1,459,814	\$0	\$10,000	\$10,000
2012/13	GL/E&O	\$861,000	\$738,029	\$847,052	\$109,023	\$14,000	\$123,000
2013/14	GL/E&O	\$844,000	\$716,792	\$821,705	\$104,913	\$22,000	\$127,000
2014/15	GL/E&O	\$1,810,000	\$1,297,850	\$1,737,044	\$439,194	\$73,000	\$512,000
2015/16	GL/E&O	\$2,100,000	\$1,219,220	\$1,937,319	\$718,099	\$163,000	\$881,000
2016/17	GL/E&O	\$2,402,000	\$740,062	\$2,103,443	\$1,363,380	\$299,000	\$1,662,000
2017/18	GL/E&O	\$1,430,000	\$56,435	\$917,464	\$861,030	\$513,000	\$1,374,000
		\$20,350,000	\$15,601,000	\$19.251.000	\$3.650.000	\$1.100.000	\$4.749.000

\$20,350,000 \$15,601,000 \$19,251,000 \$3,650,000 \$1,100,000 \$4,749,000

Total Liability Losses Limited to Policy Aggregate Stop Loss Ultimate Limited Limited							
Accident	Aggregate	Limited	Paid	Reported	Case	IBNR	Outstanding
Period	Limit	Losses	Losses	Losses	Reserves	Losses	Losses
Prior		\$10,507,103	\$10,507,103	\$10,507,103	\$0	\$0	\$0
2009/10	\$3,549,580	\$2,000,000	\$1,975,228	\$1,995,911	\$20,683	\$4,000	\$25,000
2010/11	\$3,869,920	\$2,685,000	\$2,647,472	\$2,681,419	\$33,947	\$4,000	\$38,000
2011/12	\$3,416,075	\$2,444,000	\$2,407,637	\$2,433,399	\$25,762	\$11,000	\$36,000
2012/13	\$2,788,172	\$1,487,000	\$1,363,345	\$1,472,369	\$109,023	\$15,000	\$124,000
2013/14	\$3,473,373	\$1,522,000	\$1,391,633	\$1,496,546	\$104,913	\$25,000	\$130,000
2014/15	\$3,994,646	\$3,034,000	\$2,172,095	\$2,958,779	\$786,684	\$75,000	\$862,000
2015/16	\$4,017,890	\$3,283,000	\$2,143,984	\$3,097,106	\$953,121	\$186,000	\$1,139,000
2016/17	\$4,147,089	\$3,568,000	\$1,593,416	\$3,227,565	\$1,634,149	\$340,000	\$1,975,000
2017/18	\$4,271,645	\$2,523,000	\$446,804	\$1,842,502	\$1,395,699	\$680,000	\$2,076,000

Total \$33,053,000 \$26,649,000 \$31,713,000 \$5,064,000 \$1,340,000 \$6,405,000

Oklahoma Schools Insurance Group

Liability (AL & GL Combined)

Percentile Distribution of IBNR For Liability Coverages As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve	Total Reseve
Expected	\$33,053,000	\$1,340,000	\$6,405,000
40%	\$32,649,000	\$936,000	\$6,000,000
50%	\$32,896,000	\$1,183,000	\$6,247,000
55%	\$33,011,000	\$1,298,000	\$6,362,000
60%	\$33,141,000	\$1,428,000	\$6,492,000
65%	\$33,275,000	\$1,562,000	\$6,626,000
75%	\$33,558,000	\$1,845,000	\$6,909,000
85%	\$33,894,000	\$2,181,000	\$7,245,000
90%	\$34,146,000	\$2,433,000	\$7,497,000
95%	\$34,501,000	\$2,788,000	\$7,852,000

Total Expected Ultimate Losses	\$33,053,000
Total Paid Losses as of 6/30/18	\$26,649,000
Total Case Reserves as of 6/30/18	\$5,064,000
Total IBNR Reserves as of 6/30/18	\$1,340,000
Total Outstanding as of 6/30/18	\$6,405,000

Figures in this Table are limited to Aggregate Stop Loss Limits

Liability (AL & GL Combined)

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(0	3)
	Actual	Expected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
2008/09	\$2,582,887	\$2,582,887	\$2,582,887	0.0%	\$2,582,887	\$2,582,887	\$0	0.0%
2009/10	\$1,998,584	\$1,998,952	\$1,995,911	-0.2%	\$2,000,000	\$2,000,000	\$0	0.0%
2010/11	\$2,681,419	\$2,682,344	\$2,681,419	0.0%	\$2,685,000	\$2,685,000	\$0	0.0%
2011/12	\$2,462,911	\$2,464,592	\$2,433,399	-1.3%	\$2,469,000	\$2,444,000	-\$25,000	-1.0%
2012/13	\$1,503,662	\$1,505,984	\$1,472,369	-2.2%	\$1,512,000	\$1,487,000	-\$25,000	-1.7%
2013/14	\$1,527,007	\$1,532,626	\$1,496,546	-2.4%	\$1,547,000	\$1,522,000	-\$25,000	-1.6%
2014/15	\$2,979,812	\$3,002,024	\$2,958,779	-1.4%	\$3,059,000	\$3,034,000	-\$25,000	-0.8%
2015/16	\$3,149,754	\$3,207,288	\$3,097,106	-3.4%	\$3,358,000	\$3,283,000	-\$75,000	-2.2%
2016/17	\$3,094,546	\$3,222,744	\$3,227,565	0.1%	\$3,568,000	\$3,568,000	\$0	0.0%
2017/18	\$931,272	\$2,146,334	\$1,842,502	-14.2%	\$2,873,000	\$2,523,000	-\$350,000	-12.2%
Total	\$22,911,853	\$24,345,775	\$23,788,483	-2.3%	\$25,653,887	\$25,128,887	-\$525,000	-2.0%

Variance in Reported Losses -\$557,292

	(A) Actual Paid	(B) Expected Paid	(C) Actual Paid	(D)	(E) Expected Ultimate	(F) Actual Ultimate	(0	S)
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
2008/09	\$2,582,887	\$2,582,887	\$2,582,887	0.0%	\$2,582,887	\$2,582,887	\$0	0.0%
2009/10	\$1,959,433	\$1,969,882	\$1,975,228	0.3%	\$2,000,000	\$2,000,000	\$0	0.0%
2010/11	\$2,643,180	\$2,653,907	\$2,647,472	-0.2%	\$2,685,000	\$2,685,000	\$0	0.0%
2011/12	\$2,418,812	\$2,433,287	\$2,407,637	-1.1%	\$2,469,000	\$2,444,000	-\$25,000	-1.0%
2012/13	\$1,359,673	\$1,404,623	\$1,363,345	-2.9%	\$1,512,000	\$1,487,000	-\$25,000	-1.7%
2013/14	\$1,385,257	\$1,435,900	\$1,391,633	-3.1%	\$1,547,000	\$1,522,000	-\$25,000	-1.6%
2014/15	\$2,119,657	\$2,417,136	\$2,172,095	-10.1%	\$3,059,000	\$3,034,000	-\$25,000	-0.8%
2015/16	\$1,967,924	\$2,349,418	\$2,143,984	-8.7%	\$3,358,000	\$3,283,000	-\$75,000	-2.2%
2016/17	\$1,314,443	\$1,698,684	\$1,593,416	-6.2%	\$3,568,000	\$3,568,000	\$0	0.0%
2017/18	\$246,480	\$659,718	\$446,804	-32.3%	\$2,873,000	\$2,523,000	-\$350,000	-12.2%
Total	\$17,997,746	\$19,605,441	\$18,724,501	-4.5%	\$25,653,887	\$25,128,887	-\$525,000	-2.0%

⁽A) and (E) - From Previous actuarial report as of 01/31/18

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) - Judgmentally Selected based on experience

Liability (AL and GL Combined)

Distribution of Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 75.0% 80.0% 85.0% 90.0% 95.0%	\$3,112,000 \$3,296,000 \$3,458,000 \$3,608,000 \$3,771,000 \$3,961,000 \$4,072,000 \$4,196,000 \$4,351,000 \$4,540,000 \$4,857,000 \$5,585,000	\$552,000 \$666,000 \$773,000 \$885,000 \$1,012,000 \$1,157,000 \$1,239,000 \$1,338,000 \$1,452,000 \$1,599,000 \$1,836,000 \$2,341,000	\$3,841,000 \$4,106,000 \$4,347,000 \$4,569,000 \$4,802,000 \$5,068,000 \$5,214,000 \$5,384,000 \$5,582,000 \$5,841,000 \$6,246,000 \$7,099,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$3,842,000 \$4,108,000 \$4,350,000 \$4,573,000 \$4,815,000 \$5,087,000 \$5,236,000 \$5,416,000 \$5,630,000 \$5,914,000 \$6,349,000 \$7,332,000
Expected	\$3,679,000	\$961,000	\$4,640,000	\$23,000	\$4,663,000
Students Cost Per Student	448,230 \$8.21	\$2.14	\$10.35	\$0.05	\$10.40

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Estimated Outstanding Losses for SIR and Corridor

			(A)	(B)	(C)	(D)	(E)	(F)
			Limited	Limited	Limited	Limited		
Accident			Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses
SIR Losses								
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
7/1/13-14	\$250,000		\$2,496,352	\$2,496,177	\$2,496,177	\$0	\$0	\$0
7/1/14-15	\$250,000		\$3,490,913	\$3,386,650	\$3,488,282	\$102,000	\$3,000	\$104,000
7/1/15-16	\$250,000		\$3,437,000	\$3,403,375	\$3,419,370	\$16,000	\$18,000	\$34,000
7/1/16-17	\$250,000		\$4,520,000	\$3,611,655	\$4,366,030	\$754,000	\$154,000	\$908,000
7/1/17-18	\$250,000		\$4,501,000	\$2,885,050	\$4,064,314	\$1,179,000	\$437,000	\$1,616,000
Corridor Losses								
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/14-15		\$1,400,000	\$1,400,000	\$1,026,623	\$1,400,000	\$373,000	\$0	\$373,000
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/17-18		\$1,400,000	\$1,400,000	\$396,542	\$1,400,000	\$1,003,000	\$0	\$1,003,000
Total			\$34,493,000	\$30,454,000	\$33,882,000	\$3,427,000	\$612,000	\$4,038,000

Total Estimated IBNR as of June 30, 2018 \$612,000

Oklahoma Schools Insurance Group

Property including Auto Physical Damage

Percentile Distribution of IBNR For Property Coverages As of June 30, 2018

percentile	Ultimate Losses	IBNR Reserve	Total Reserve
Expected	\$34,493,000	\$612,000	\$4,038,000
40%	\$34,388,000	\$507,000	\$3,934,000
50%	\$34,488,000	\$607,000	\$4,034,000
55%	\$34,537,000	\$656,000	\$4,083,000
60%	\$34,589,000	\$708,000	\$4,135,000
65%	\$34,641,000	\$760,000	\$4,187,000
75%	\$34,764,000	\$883,000	\$4,310,000
85%	\$34,908,000	\$1,027,000	\$4,454,000
90%	\$35,014,000	\$1,133,000	\$4,560,000
95%	\$35,161,000	\$1,280,000	\$4,707,000

Total Expected Ultimate Losses	\$34,493,000
Total Paid Losses as of 6/30/18	\$30,454,000
Total Case Reserves as of 6/30/18	\$3,427,000
Total IBNR Reserves as of 6/30/18	\$612,000
Total Outstanding as of 6/30/18	\$4,038,000

Figures in this Table are limited to Aggregate Stop Loss Limits

Comparison of Results with Previous Estimates as of 1/31/18

	(A) Actual Reported	(B) Projected Reported	(C) Actual Reported	(D)	(E) Expected Ultimate	(F) Actual Ultimate	(0	
Accident Period	Losses 1/31/2018	Losses 6/30/2018	Losses 6/30/2018	Percent Difference	Losses 1/31/2018	Losses 6/30/2018	Year-End Adjustment	Percent Difference
T CHOC	1/01/2010	0/30/2010	0/00/2010	Dilicitation	170172010	0/00/2010	Adjustificht	Directorice
7/1/11-12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	\$0	0.0%
7/1/12-13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	\$0	0.0%
7/1/13-14	\$3,895,352	\$3,895,352	\$3,896,177	0.0%	\$3,895,352	\$3,896,352	\$1,000	0.0%
7/1/14-15	\$4,662,027	\$4,669,469	\$4,888,282	4.7%	\$4,678,000	\$4,890,913	\$212,913	4.6%
7/1/15-16	\$4,794,734	\$4,837,000	\$4,819,370	-0.4%	\$4,837,000	\$4,837,000	\$0	0.0%
7/1/16-17	\$5,751,577	\$5,920,000	\$5,766,030	-2.6%	\$5,920,000	\$5,920,000	\$0	0.0%
7/1/17-18	\$4,061,279	\$6,351,000	\$5,464,314	-14.0%	\$6,351,000	\$5,901,000	-\$450,000	-7.1%
Total	\$32.212.632	\$34,720,485	\$33,881,837	-2.4%	\$34,729,015	\$34,492,928	-\$236,087	-0.7%

⁽A) and (E) - From Previous actuarial report as of 1/31/2018 Losses below \$250,000 SIR plus Corridor Losses

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) - Judgmentally Selected based on experience

Oklahoma Schools Insurance Group

Property Including Auto Physical Damage

Distribution of Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

Percentile	SIR Layer \$250,000 All Perils	Cost of Corridor Ltd. \$1.4M	Total Retained Losses	Insured Excess Losses	Total Incurred Losses
T Crocritic	All I Chio	Ltd. \$1.4W	200000	200000	200000
20.0%	\$5,158,000	\$1,400,000	\$6,551,000	\$3,160,000	\$10,309,000
30.0%	\$5,493,000	\$1,400,000	\$6,888,000	\$4,324,000	\$11,747,000
40.0%	\$5,789,000	\$1,400,000	\$7,187,000	\$5,624,000	\$13,211,000
50.0%	\$6,063,000	\$1,400,000	\$7,463,000	\$7,054,000	\$14,721,000
60.0%	\$6,384,000	\$1,400,000	\$7,780,000	\$8,756,000	\$16,658,000
70.0%	\$6,711,000	\$1,400,000	\$8,109,000	\$11,137,000	\$19,036,000
75.0%	\$6,893,000	\$1,400,000	\$8,291,000	\$12,663,000	\$20,654,000
80.0%	\$7,114,000	\$1,400,000	\$8,512,000	\$14,643,000	\$22,723,000
85.0%	\$7,368,000	\$1,400,000	\$8,768,000	\$17,412,000	\$25,349,000
90.0%	\$7,694,000	\$1,400,000	\$9,094,000	\$21,207,000	\$29,065,000
95.0%	\$8,251,000	\$1,400,000	\$9,651,000	\$26,147,000	\$34,278,000
99.0%	\$9,445,000	\$1,400,000	\$10,845,000	\$36,816,000	\$45,426,000
Expected	\$6,143,000	\$1,400,000	\$7,543,000	\$9,475,000	\$17,018,000
TIV in \$100s	\$118,067,243				
Cost Per \$100 TIV	\$0.052	\$0.012	\$0.064	\$0.080	\$0.144

APD	\$826,000	\$0	\$826,000	\$0	\$826,000
Other Property	\$5,317,000	\$1,400,000	\$6,717,000	\$9,475,000	\$16,192,000

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(G	;)
	Actual	Expected	Actual					
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	\$0	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	\$0	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	\$0	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	\$0	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	\$0	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	\$0	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	\$0	0.0%
7/1/09-10	\$706,085	\$706,054	\$703,413	-0.4%	\$706,000	\$706,000	\$0	0.0%
7/1/10-11	\$843,333	\$843,210	\$843,333	0.0%	\$843,000	\$843,000	\$0	0.0%
7/1/11-12	\$973,586	\$973,739	\$973,586	0.0%	\$974,000	\$974,000	\$0	0.0%
7/1/12-13	\$625,317	\$625,573	\$625,317	0.0%	\$626,000	\$626,000	\$0	0.0%
7/1/13-14	\$700,899	\$701,692	\$674,842	-3.8%	\$703,000	\$678,000	-\$25,000	-3.6%
7/1/14-15	\$1,164,683	\$1,168,223	\$1,221,735	4.6%	\$1,174,000	\$1,224,000	\$50,000	4.3%
7/1/15-16	\$1,129,687	\$1,140,430	\$1,159,787	1.7%	\$1,158,000	\$1,183,000	\$25,000	2.2%
7/1/16-17	\$1,065,183	\$1,102,504	\$1,124,122	2.0%	\$1,166,000	\$1,166,000	\$0	0.0%
7/1/17-18	\$531,156	\$974,035	\$925,038	-5.0%	\$1,143,000	\$1,093,000	-\$50,000	-4.4%
Total	\$11,950,035	\$12,445,567	\$12,461,279	0.1%	\$12,703,000	\$12,703,000	\$0	0.0%

Variance in Reported Losses \$15,712

	(A)	(B)	(C)	(D)	(E)	(F)	(G	;)
	Actual	Expected	Actual					
	Paid	Paid	Paid		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7///00 00	# 05.007	# 05.007	# 05.007	0.00/	# 05.007	# 05.007	Φ0	0.00/
7/1/02-03	\$65,087	\$65,087	\$65,087	0.0%	\$65,087	\$65,087	\$0	0.0%
7/1/03-04	\$357,297	\$357,297	\$357,297	0.0%	\$357,297	\$357,297	\$0	0.0%
7/1/04-05	\$618,336	\$618,336	\$618,336	0.0%	\$618,336	\$618,336	\$0	0.0%
7/1/05-06	\$450,928	\$450,928	\$450,928	0.0%	\$450,928	\$450,928	\$0	0.0%
7/1/06-07	\$535,205	\$535,205	\$535,205	0.0%	\$535,205	\$535,205	\$0	0.0%
7/1/07-08	\$759,907	\$759,907	\$759,907	0.0%	\$759,907	\$759,907	\$0	0.0%
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	0.0%	\$1,423,346	\$1,423,346	\$0	0.0%
7/1/09-10	\$687,646	\$692,768	\$703,413	1.5%	\$706,000	\$706,000	\$0	0.0%
7/1/10-11	\$843,333	\$843,237	\$843,333	0.0%	\$843,000	\$843,000	\$0	0.0%
7/1/11-12	\$947,823	\$955,683	\$947,823	-0.8%	\$974,000	\$974,000	\$0	0.0%
7/1/12-13	\$625,317	\$625,530	\$625,317	0.0%	\$626,000	\$626,000	\$0	0.0%
7/1/13-14	\$673,722	\$683,145	\$674,842	-1.2%	\$703,000	\$678,000	-\$25,000	-3.6%
7/1/14-15	\$862,433	\$964,834	\$874,245	-9.4%	\$1,174,000	\$1,224,000	\$50,000	4.3%
7/1/15-16	\$889,240	\$976,228	\$924,765	-5.3%	\$1,158,000	\$1,183,000	\$25,000	2.2%
7/1/16-17	\$833,576	\$929,391	\$853,354	-8.2%	\$1,166,000	\$1,166,000	\$0	0.0%
7/1/17-18	\$217,543	\$536,129	\$390,369	-27.2%	\$1,143,000	\$1,093,000	-\$50,000	-4.4%
Total	\$10,790,739	\$11,417,050	\$11,047,566	-3.2%	\$12,703,000	\$12,703,000	\$0	0.0%

⁽A) and (E) - From Previous actuarial report as of 01/31/2018

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + adjustment in (G)

⁽G) - Judgmentally selected based on experience

Automobile Liability

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)				
	Estimated	Limited	Limited	Limited						
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding				
Period	Losses	Losses	Losses	Reserves	Losses	Losses				
		_								
As of June 30, 2018										
7/1/02-03	\$65,087	\$65,087	\$65,087	\$0	\$0	\$0				
7/1/03-04	\$357,297	\$357,297	\$357,297	\$0	\$0	\$0				
7/1/04-05	\$618,336	\$618,336	\$618,336	\$0	\$0	\$0				
7/1/05-06	\$450,928	\$450,928	\$450,928	\$0	\$0	\$0				
7/1/06-07	\$535,205	\$535,205	\$535,205	\$0	\$0	\$0				
7/1/07-08	\$759,907	\$759,907	\$759,907	\$0	\$0	\$0				
7/1/08-09	\$1,423,346	\$1,423,346	\$1,423,346	\$0	\$0	\$0				
7/1/09-10	\$706,000	\$703,413	\$703,413	\$0	\$3,000	\$3,000				
7/1/10-11	\$843,000	\$843,333	\$843,333	\$0	\$0	\$0				
7/1/11-12	\$974,000	\$947,823	\$973,586	\$25,762	\$0	\$26,000				
7/1/12-13	\$626,000	\$625,317	\$625,317	\$0	\$1,000	\$1,000				
7/1/13-14	\$678,000	\$674,842	\$674,842	\$0	\$3,000	\$3,000				
7/1/14-15	\$1,224,000	\$874,245	\$1,221,735	\$347,490	\$2,000	\$350,000				
7/1/15-16	\$1,183,000	\$924,765	\$1,159,787	\$235,022	\$23,000	\$258,000				
7/1/16-17	\$1,166,000	\$853,354	\$1,124,122	\$270,769	\$42,000	\$313,000				
7/1/17-18	\$1,093,000	\$390,369	\$925,038	\$534,669	\$168,000	\$703,000				
Total	\$12,703,000	\$11,047,566	\$12,461,279	\$1,413,713	\$242,000	\$1,657,000				

Total Estimated IBNR as of June 30, 2018 \$242,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR

⁽D)=(C)-(B)

⁽E) = (A) - (C)

⁽F) = (A) - (B)

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 75.0% 80.0% 85.0% 90.0% 99.0%	\$1,052,000 \$1,130,000 \$1,203,000 \$1,271,000 \$1,342,000 \$1,423,000 \$1,466,000 \$1,517,000 \$1,576,000 \$1,663,000 \$1,793,000 \$2,061,000	\$36,000 \$61,000 \$86,000 \$112,000 \$144,000 \$181,000 \$204,000 \$232,000 \$266,000 \$309,000 \$381,000 \$549,000	\$1,133,000 \$1,231,000 \$1,317,000 \$1,410,000 \$1,492,000 \$1,590,000 \$1,648,000 \$1,712,000 \$1,791,000 \$1,900,000 \$2,063,000 \$2,409,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,133,000 \$1,231,000 \$1,317,000 \$1,410,000 \$1,492,000 \$1,590,000 \$1,648,000 \$1,712,000 \$1,791,000 \$1,900,000 \$2,063,000 \$2,409,000
Expected Vehicles Students	\$1,291,000 11,011 448,230	\$142,000	\$1,433,000	\$0	\$1,433,000
Cost Per Vehicle* Cost Per Student	\$117 \$2.88	\$13 \$0.32	\$130 \$3.20	\$0 \$0.00	\$130 \$3.20

^{* -} Cost per Vehicle based on Forecast study as of 1/31/2018 Forecast losses adjusted for change in exposure

General Liability including E&O

Comparison of Results with Previous Estimates as of 1/31/18

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/4/00 00	¢460,000	¢460,000	¢460,000	0.00/	¢460,000	¢460,000	ΦO	0.00/
7/1/02-03	\$168,909	\$168,909	\$168,909	0.0%	\$168,909	\$168,909	\$ 0	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	\$0	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	\$0	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	\$0	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	\$0	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	\$0	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	\$0	0.0%
7/1/09-10	\$1,292,498	\$1,292,898	\$1,292,498	0.0%	\$1,294,000	\$1,294,000	\$0	0.0%
7/1/10-11	\$1,838,086	\$1,839,134	\$1,838,086	-0.1%	\$1,842,000	\$1,842,000	\$0	0.0%
7/1/11-12	\$1,489,325	\$1,490,852	\$1,459,814	-2.1%	\$1,495,000	\$1,470,000	-\$25,000	-1.7%
7/1/12-13	\$878,345	\$880,412	\$847,052	-3.8%	\$886,000	\$861,000	-\$25,000	-2.8%
7/1/13-14	\$826,108	\$830,934	\$821,705	-1.1%	\$844,000	\$844,000	\$0	0.0%
7/1/14-15	\$1,815,129	\$1,833,801	\$1,737,044	-5.3%	\$1,885,000	\$1,810,000	-\$75,000	-4.0%
7/1/15-16	\$2,020,067	\$2,066,858	\$1,937,319	-6.3%	\$2,200,000	\$2,100,000	-\$100,000	-4.5%
7/1/16-17	\$2,029,363	\$2,120,241	\$2,103,443	-0.8%	\$2,402,000	\$2,402,000	\$0	0.0%
7/1/17-18	\$400,116	\$1,172,298	\$917,464	-21.7%	\$1,730,000	\$1,430,000	-\$300,000	-17.3%
Total	\$18,886,034	\$19,824,424	\$19,251,420	-2.9%	\$20,874,996	\$20,349,996	-\$525,000	-2.5%

Variance In Reported Losses -\$573,004

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Paid	Paid	Paid		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-End	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	¢169.000	¢169.000	¢169.000	0.0%	¢169,000	¢169.000	\$0	0.00/
	\$168,909	\$168,909	\$168,909		\$168,909	\$168,909	* -	0.0%
7/1/03-04	\$840,274	\$840,274	\$840,274	0.0%	\$840,274	\$840,274	\$0	0.0%
7/1/04-05	\$488,972	\$488,972	\$488,972	0.0%	\$488,972	\$488,972	\$0	0.0%
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	0.0%	\$1,253,449	\$1,253,449	\$0	0.0%
7/1/06-07	\$953,237	\$953,237	\$953,237	0.0%	\$953,237	\$953,237	\$0	0.0%
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	0.0%	\$1,432,614	\$1,432,614	\$0	0.0%
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	0.0%	\$1,159,541	\$1,159,541	\$0	0.0%
7/1/09-10	\$1,271,788	\$1,277,114	\$1,271,815	-0.4%	\$1,294,000	\$1,294,000	\$0	0.0%
7/1/10-11	\$1,799,847	\$1,810,670	\$1,804,139	-0.4%	\$1,842,000	\$1,842,000	\$0	0.0%
7/1/11-12	\$1,470,989	\$1,477,604	\$1,459,814	-1.2%	\$1,495,000	\$1,470,000	-\$25,000	-1.7%
7/1/12-13	\$734,356	\$779,093	\$738,029	-5.3%	\$886,000	\$861,000	-\$25,000	-2.8%
7/1/13-14	\$711,535	\$752,755	\$716,792	-4.8%	\$844,000	\$844,000	\$0	0.0%
7/1/14-15	\$1,257,224	\$1,452,302	\$1,297,850	-10.6%	\$1,885,000	\$1,810,000	-\$75,000	-4.0%
7/1/15-16	\$1,078,684	\$1,373,190	\$1,219,220	-11.2%	\$2,200,000	\$2,100,000	-\$100,000	-4.5%
7/1/16-17	\$480,867	\$769,294	\$740,062	-3.8%	\$2,402,000	\$2,402,000	\$0	0.0%
7/1/17-18	\$28,936	\$123,589	\$56,435	-54.3%	\$1,730,000	\$1,430,000	-\$300,000	-17.3%
Total	\$15,131,223	\$16,112,607	\$15,601,151	-3.2%	\$20,874,996	\$20,349,996	-\$525,000	-2.5%

⁽A) and (E) - From Previous actuarial report as of 01/31/2018

⁽B) - Derived from (E) and (A) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + (G)

⁽G) - Judgmentally selected based on experience

Estimated Outstanding Losses

	(A)	(B)	(C)	(D)	(E)	(F)
	Estimated	Limited	Limited	Limited		
Accident	Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	Losses	Losses	Losses	Reserves	Losses	Losses
		10	of lune 20, 204	0		
=///00.00	* 4 0 0 0 0 0		of June 30, 201		••	40
7/1/02-03	\$168,909	\$168,909	\$168,909	\$0	\$0	\$0
7/1/03-04	\$840,274	\$840,274	\$840,274	\$0	\$0	\$0
7/1/04-05	\$488,972	\$488,972	\$488,972	\$0	\$0	\$0
7/1/05-06	\$1,253,449	\$1,253,449	\$1,253,449	\$0	\$0	\$0
7/1/06-07	\$953,237	\$953,237	\$953,237	\$0	\$0	\$0
7/1/07-08	\$1,432,614	\$1,432,614	\$1,432,614	\$0	\$0	\$0
7/1/08-09	\$1,159,541	\$1,159,541	\$1,159,541	\$0	\$0	\$0
7/1/09-10	\$1,294,000	\$1,271,815	\$1,292,498	\$20,683	\$2,000	\$22,000
7/1/10-11	\$1,842,000	\$1,804,139	\$1,838,086	\$33,947	\$4,000	\$38,000
7/1/11-12	\$1,470,000	\$1,459,814	\$1,459,814	\$0	\$10,000	\$10,000
7/1/12-13	\$861,000	\$738,029	\$847,052	\$109,023	\$14,000	\$123,000
7/1/13-14	\$844,000	\$716,792	\$821,705	\$104,913	\$22,000	\$127,000
7/1/14-15	\$1,810,000	\$1,297,850	\$1,737,044	\$439,194	\$73,000	\$512,000
7/1/15-16	\$2,100,000	\$1,219,220	\$1,937,319	\$718,099	\$163,000	\$881,000
7/1/16-17	\$2,402,000	\$740,062	\$2,103,443	\$1,363,380	\$299,000	\$1,662,000
7/1/17-18	\$1,430,000	\$56,435	\$917,464	\$861,030	\$513,000	\$1,374,000
Total	\$20,350,000	\$15,601,151	\$19,251,420	\$3,650,269	\$1,100,000	\$4,749,000

Total Estimated IBNR as of June 30, 2018 \$1,100,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR

⁽D) = (C) - (B)

⁽E) = (A) - (C)

⁽F) = (A) - (B)

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 75.0% 80.0% 85.0% 90.0% 95.0%	\$1,864,000 \$2,026,000 \$2,170,000 \$2,319,000 \$2,466,000 \$2,631,000 \$2,725,000 \$2,842,000 \$2,979,000 \$3,172,000 \$3,472,000 \$4,141,000	\$421,000 \$530,000 \$631,000 \$734,000 \$859,000 \$1,003,000 \$1,086,000 \$1,183,000 \$1,291,000 \$1,442,000 \$1,677,000 \$2,156,000	\$2,452,000 \$2,707,000 \$2,922,000 \$3,124,000 \$3,347,000 \$3,603,000 \$3,731,000 \$3,888,000 \$4,075,000 \$4,329,000 \$4,725,000 \$5,499,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,452,000 \$2,708,000 \$2,926,000 \$3,131,000 \$3,355,000 \$3,619,000 \$3,753,000 \$3,921,000 \$4,121,000 \$4,387,000 \$4,845,000 \$5,865,000
Expected Students	\$2,388,000 \$2,388,000	\$819,000	\$3,207,000	\$23,000	\$3,230,000
Cost Per Student*	\$5.33	\$1.83	\$7.15	\$0.05	\$7.21

^{*-} Cost per Student taken from forecast study as of 1/31/2018 Forecast losses are adjusted for change in exposure estimate

Property including Auto Physical Damage

Comparison of Results with Previous Estimates as of 01/31/18 SIR Losses Only

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	\$0	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	\$0	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	\$0	0.0%
7/1/05-06	\$2,616,997	\$2,616,997	\$2,616,997	0.0%	\$2,616,997	\$2,616,997	\$0	0.0%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	\$0	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	\$0	0.0%
7/1/08-09	\$4,561,347	\$4,561,347	\$4,561,347	0.0%	\$4,561,347	\$4,561,347	\$0	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,870,042	\$4,870,042	\$0	0.0%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	\$0	0.0%
7/1/11-12	\$3,201,043	\$3,201,043	\$3,201,043	0.0%	\$3,201,043	\$3,201,043	\$0	0.0%
7/1/12-13	\$2,629,175	\$2,629,175	\$2,629,175	0.0%	\$2,629,175	\$2,629,175	\$0	0.0%
7/1/13-14	\$2,495,352	\$2,495,352	\$2,496,177	0.0%	\$2,495,352	\$2,496,352	\$1,000	0.0%
7/1/14-15	\$3,491,913	\$3,491,913	\$3,488,282	-0.1%	\$3,491,913	\$3,490,913	-\$1,000	0.0%
7/1/15-16	\$3,394,734	\$3,411,199	\$3,419,370	0.2%	\$3,437,000	\$3,437,000	\$0	0.0%
7/1/16-17	\$4,351,577	\$4,416,737	\$4,366,030	-1.1%	\$4,520,000	\$4,520,000	\$0	0.0%
7/1/17-18	\$2,661,279	\$4,581,504	\$4,064,314	-11.3%	\$4,951,000	\$4,501,000	-\$450,000	-9.1%
Total	\$47,229,131	\$49,230,981	\$48,668,450	-1.1%	\$49,729,541	\$49,279,541	-\$450,000	-0.9%

Variance in Reported Losses -\$562,531

⁽A) and (E) - From Previous actuarial report as of 01/31/2018 Limited to \$250,000 for 11-12 through 16-17

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR

⁽D) = [(C) / (B)] - 1

⁽F) - (E) + (G)

⁽G) = Judgmentally selected based on experience

Comparison of Results with Previous Estimates as of 01/31/18 SIR Losses and Corridor

	(A)	(B)	(C)	(D)	(E)	(F)	(0	G)
	Actual	Projected	Actual		Expected	Actual		
	Reported	Reported	Reported		Ultimate	Ultimate		
Accident	Losses	Losses	Losses	Percent	Losses	Losses	Year-end	Percent
Period	1/31/2018	6/30/2018	6/30/2018	Difference	1/31/2018	6/30/2018	Adjustment	Difference
7/4/00 00	#242.04 5	#242.04 5	#242.04 5	0.00/	#242.04 E	#242.04 E	ΦO	0.00/
7/1/02-03	\$312,045	\$312,045	\$312,045	0.0%	\$312,045	\$312,045	\$ 0	0.0%
7/1/03-04	\$1,287,169	\$1,287,169	\$1,287,169	0.0%	\$1,287,169	\$1,287,169	\$0	0.0%
7/1/04-05	\$1,266,993	\$1,266,993	\$1,266,993	0.0%	\$1,266,993	\$1,266,993	\$0	0.0%
7/1/05-06	\$2,616,997	\$2,616,997	\$2,616,997	0.0%	\$2,616,997	\$2,616,997	\$0	0.0%
7/1/06-07	\$2,604,514	\$2,604,514	\$2,604,514	0.0%	\$2,604,514	\$2,604,514	\$0	0.0%
7/1/07-08	\$3,915,481	\$3,915,481	\$3,915,481	0.0%	\$3,915,481	\$3,915,481	\$0	0.0%
7/1/08-09	\$4,561,347	\$4,561,347	\$4,561,347	0.0%	\$4,561,347	\$4,561,347	\$0	0.0%
7/1/09-10	\$4,870,042	\$4,870,042	\$4,870,042	0.0%	\$4,870,042	\$4,870,042	\$0	0.0%
7/1/10-11	\$3,569,472	\$3,569,472	\$3,569,472	0.0%	\$3,569,472	\$3,569,472	\$0	0.0%
7/1/11-12	\$4,018,489	\$4,018,489	\$4,018,489	0.0%	\$4,018,489	\$4,018,489	\$0	0.0%
7/1/12-13	\$5,029,175	\$5,029,175	\$5,029,175	0.0%	\$5,029,175	\$5,029,175	\$0	0.0%
7/1/13-14	\$3,895,352	\$3,895,352	\$3,896,177	0.0%	\$3,895,352	\$3,896,352	\$1,000	0.0%
7/1/14-15	\$4,662,027	\$4,669,469	\$4,888,282	4.7%	\$4,678,000	\$4,890,913	\$212,913	4.6%
7/1/15-16	\$4,794,734	\$4,837,000	\$4,819,370	-0.4%	\$4,837,000	\$4,837,000	\$0	0.0%
7/1/16-17	\$5,751,577	\$5,920,000	\$5,766,030	-2.6%	\$5,920,000	\$5,920,000	\$0	0.0%
7/1/17-18	\$4,061,279	\$6,351,000	\$5,464,314	-14.0%	\$6,351,000	\$5,901,000	-\$450,000	-7.1%
Total	\$57,216,691	\$59,724,543	\$58,885,896	-1.4%	\$59,733,074	\$59,496,987	-\$236,087	-0.4%

Variance in Reported Losses -\$838,648

⁽A) and (E) - From Previous actuarial report as of 01/31/2018 Includes Corridor Losses for 11-12 through 16-17

⁽B) - Derived from (A) and (E) using loss development patterns

⁽C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = [(C) / (B)] - 1

⁽F) = (E) + (G)

⁽G) = Judgmentally Selected Based on Experience

Estimated Outstanding Losses

		(A)	(B)	(C)	(D)	(E)	(F)
		Limited	Limited	Limited	Limited		
Accident		Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Losses	Losses	Losses	Reserves	Losses	Losses
		As of	June 30, 2018	}			
7/1/02-03	\$100k/\$200k	\$312,045	\$312,045	\$312,045	\$0	\$0	\$0
7/1/03-04	\$100k/\$200k	\$1,287,169	\$1,287,169	\$1,287,169	\$0	\$0	\$0
7/1/04-05	\$100k/\$200k	\$1,266,993	\$1,266,993	\$1,266,993	\$0	\$0	\$0
7/1/05-06	\$100k/\$200k	\$2,616,997	\$2,616,997	\$2,616,997	\$0	\$0	\$0
7/1/06-07	\$100k/\$200k	\$2,604,514	\$2,604,514	\$2,604,514	\$0	\$0	\$0
7/1/07-08	\$100k/\$200k	\$3,915,481	\$3,915,481	\$3,915,481	\$0	\$0	\$0
7/1/08-09	\$100k/\$200k	\$4,561,347	\$4,561,347	\$4,561,347	\$0	\$0	\$0
7/1/09-10	\$100k/\$200k	\$4,870,042	\$4,870,042	\$4,870,042	\$0	\$0	\$0
7/1/10-11	\$100k/\$200k	\$3,569,472	\$3,569,472	\$3,569,472	\$0	\$0	\$0
7/1/11-12	\$250,000 /\$2.7M corridor	\$4,018,489	\$4,018,489	\$4,018,489	\$0	\$0	\$0
7/1/12-13	\$250,000 /\$2.4M corridor	\$5,029,175	\$5,029,175	\$5,029,175	\$0	\$0	\$0
7/1/13-14	\$250,000 /\$1.4M corridor	\$3,896,352	\$3,896,177	\$3,896,177	\$0	\$0	\$0
7/1/14-15	\$250,000 /\$1.4M corridor	\$4,890,913	\$4,413,273	\$4,888,282	\$475,009	\$3,000	\$478,000
7/1/15-16	\$250,000 /\$1.4M corridor	\$4,837,000	\$4,803,375	\$4,819,370	\$15,996	\$18,000	\$34,000
7/1/16-17	\$250,000 /\$1.4M corridor	\$5,920,000	\$5,011,655	\$5,766,030	\$754,375	\$154,000	\$908,000
7/1/17-18	\$250,000 /\$1.4M corridor	\$5,901,000	\$3,281,592	\$5,464,314	\$2,182,723	\$437,000	\$2,619,000
Total		\$59,496,987	\$55,457,793	\$58,885,896	\$3,428,102	\$612,000	\$4,039,000

Total Estimated IBNR as of June 30, 2018 \$612,000

⁽A) - Table 1

⁽B) and (C) - Provided by OSIG, limited to SIR and Corridor

⁽D) = (C) - (B)

⁽E)=(A)-(C)

⁽F)=(A)-(B)

Property including Auto Physical Damage

Estimated Outstanding Losses for SIR and Corridor

			(A)	(B)	(C)	(D)	(E)	(F)
			Limited	Limited	Limited	Limited		
Accident			Ultimate	Paid	Reported	Case	IBNR	Outstanding
Period	SIR	Corridor	Losses	Losses	Losses	Reserves	Losses	Losses
			As o	f June 30, 201	8			
Stop Loss Years To	<u>otal</u>		\$25,004,059	\$25,004,059	\$25,004,059	\$0	\$0	\$0
SIR Losses								
7/1/11-12	\$250,000		\$3,201,043	\$3,201,043	\$3,201,043	\$0	\$0	\$0
7/1/12-13	\$250,000		\$2,629,175	\$2,629,175	\$2,629,175	\$0	\$0	\$0
7/1/13-14	\$250,000		\$2,496,352	\$2,496,177	\$2,496,177	\$0	\$0	\$0
7/1/14-15	\$250,000		\$3,490,913	\$3,386,650	\$3,488,282	\$102,000	\$3,000	\$104,000
7/1/15-16	\$250,000		\$3,437,000	\$3,403,375	\$3,419,370	\$16,000	\$18,000	\$34,000
7/1/16-17	\$250,000		\$4,520,000	\$3,611,655	\$4,366,030	\$754,000	\$154,000	\$908,000
7/1/17-18	\$250,000		\$4,501,000	\$2,885,050	\$4,064,314	\$1,179,000	\$437,000	\$1,616,000
Corridor Losses								
7/1/11-12		\$2,700,000	\$817,446	\$817,446	\$817,446	\$0	\$0	\$0
7/1/12-13		\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$0	\$0	\$0
7/1/13-14		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/14-15		\$1,400,000	\$1,400,000	\$1,026,623	\$1,400,000	\$373,000	\$0	\$373,000
7/1/15-16		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/16-17		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
7/1/17-18		\$1,400,000	\$1,400,000	\$396,542	\$1,400,000	\$1,003,000	\$0	\$1,003,000
Total			\$59,497,000	\$55,458,000	\$58,886,000	\$3,427,000	\$612,000	\$4,038,000

Total Estimated IBNR as of June 30, 2018 \$612,000

Distribution of Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

Percentile	SIR Layer \$250,000 All Perils	Cost of Corridor Ltd. \$1.4M	Total Retained Losses	Insured Excess Losses	Total Incurred Losses
rercentile	All Fellis	Llu. \$1.4IVI	LUSSES	LUSSES	LUSSES
20.0% 30.0%	\$5,158,000 \$5,493,000	\$1,400,000 \$1,400,000	\$6,551,000 \$6,888,000	\$3,160,000 \$4,324,000	\$10,309,000 \$11,747,000
40.0%	\$5,789,000	\$1,400,000	\$7,187,000	\$5,624,000	\$13,211,000
50.0%	\$6,063,000	\$1,400,000	\$7,463,000	\$7,054,000	\$14,721,000
60.0%	\$6,384,000	\$1,400,000	\$7,780,000	\$8,756,000	\$16,658,000
70.0%	\$6,711,000	\$1,400,000	\$8,109,000	\$11,137,000	\$19,036,000
75.0%	\$6,893,000	\$1,400,000	\$8,291,000	\$12,663,000	\$20,654,000
80.0%	\$7,114,000	\$1,400,000	\$8,512,000	\$14,643,000	\$22,723,000
85.0%	\$7,368,000	\$1,400,000	\$8,768,000	\$17,412,000	\$25,349,000
90.0%	\$7,694,000	\$1,400,000	\$9,094,000	\$21,207,000	\$29,065,000
95.0%	\$8,251,000	\$1,400,000	\$9,651,000	\$26,147,000	\$34,278,000
99.0%	\$9,445,000	\$1,400,000	\$10,845,000	\$36,816,000	\$45,426,000
Expected	\$6,143,000	\$1,400,000	\$7,543,000	\$9,475,000	\$17,018,000
TIV in \$100s	\$118,067,243				
Cost Per \$100 TIV	\$0.052	\$0.012	\$0.064	\$0.080	\$0.144



Loss Forecast for 7/1/18-19

Oklahoma Schools Insurance Group

March 23, 2018

Based on loss data evaluated as of January 31, 2018



Loss Forecast for 7/1/18-19

Oklahoma Schools Insurance Group

March 23, 2018

Based on data Evaluated as of January 31, 2018

Prepared by

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Executive Summary

Select Actuarial Services has prepared this report for the Oklahoma Schools Insurance Group (OSIG) at the request of Ms. Jennifer McKenzie, Arthur J. Gallagher. The purpose of this report is to evaluate the projected costs associated with OSIG's projected property and liability exposures for the period July 1, 2018, through June 30, 2019, based on data valued as of January 31, 2018.

The forecast for OSIG's retained losses for the 7/1/18-19 program year are shown in the Table below for Liability and for Property. Results for alternate SIR levels are shown in the Tables following this Executive Summary.

For purposes of our analysis, losses for automobile liability were projected separate from the general liability and E&O. Likewise, auto physical damage losses were projected separately from the other property claims. Results for these individual pieces are contained in the Exhibit VII for each line's Exhibit Section of the report. The results presented in the Executive summary are on a combined basis for Liability and Property.

Throughout this report the term losses will refer to loss and allocated loss adjustment expenses.

OSIG 7/1/18-19 Forecast Retained Losses					
	Liability	Property			
SIR	\$100,000	\$250,000 plus \$1.4M Corridor			
Estimated Exposures	377,140 students	\$9,053,414,500 TIV			
Loss Rate	\$8.45 per student	\$0.069 per \$100 TIV			
Forecast Losses	\$3,187,000	\$6,240,000			
75%-ile Losses	\$3,544,000	\$6,851,000			



Key Assumptions

Unless otherwise stated, the figures in this report represent expected values. Key assumptions included:

- 1) Loss and exposure data for the OSIG's members as of 1/31/18 is predictive of experience for the 7/1/18-19 period. Former OSIG members' data has been excluded.
- 2) Reasonable measures of the exposure to loss are:
 - Number of vehicles for automobile liability and autophysical damage;
 - Total Insured Value (TIV) for property; and
 - Student counts for all other liability.
- 3) Loss development factors based on OSIG's experience, supplemented by the experience of public entities in the state of Oklahoma are used to develop reported and paid losses to ultimate;
- 4) Cost trends based on country wide insurance data are appropriate for trending losses to current cost levels.
- **5)** Various statistical distributions can be used to model the underlying loss generating process.



Results of this Analysis

Automobile Liability Limited to \$100,000

We project ultimate losses of \$1,178,000 for 7/1/18-19. With an estimated exposure base of 10,046 vehicles, the cost per vehicle is \$117. This rate is 4% less than last year's forecast loss rate of \$122.

General Liability including E&O Limited to \$100,000

Forecast losses for general liability including E&O are \$2,009,000. This forecast is based on projected counts of 377,140 students at a cost of \$5.33 per student. This is a 1.7% decrease over last year's selected rate of \$5.42. The reduction is due to a slight decrease in expected large claim activity.

Combined Liability Results

The combined AL and GL/E&O claims for OSIG's members are expected to total \$4,024,000. Of this amount, OSIG retains the first \$100,000 per occurrence, or about \$3,187,000. The insured amounts excess of \$100,000 are expected to total \$818,000 with most of the exposure from the GL/E&O claims. While it is possible that OSIG's members could experience losses in excess of \$1,000,000 the likelihood is less than 5% based on its experience to date.

The greater risk to OSIG is the volatility in its retained layer. There is a 75% probability that the retained losses will be less than the 75th percentile \$3,544,000. There is a 10% probability that losses could exceed the 90th percentile estimate of \$3,961,000.

Auto Physical Damage limited to \$250,000

The forecast losses for auto physical damage claims are \$770,000. This forecast reflects a \$250,000 deductible for most members, but \$100,000 SIR for about 25% of the members (based on exposure counts). The cost per vehicle at the \$100,000 SIR is \$74.15, while the cost per vehicle at the \$250,000 SIR is \$76.60. These rates are increased over the previous rates due to increased loss activity for the latest three years.

Property Losses limited to \$250,000

The total forecast for retained property losses (excluding APD) is \$4,077,000. The cost per \$100 TIV is \$0.045. This rate is 6% greater than the rate from last year's report due to an increase in both small and large losses. We expect that OSIG will have about 6.9 claims that will reach the \$250,000 SIR. These losses are expected to exhaust the corridor deductible of \$1,400,000



Combined Property Forecast

Combining the small property and APD losses (less than \$250,000) and the large claims, we estimate the total cost of claims for OSIG members to be \$13,179,000. Of this amount, OSIG retains \$4,840,000 for losses with in the SIR. The losses in excess of the SIR are expected to total \$8,339,000, with OSIG retaining a corridor deductible of \$1,400,000. Thus the total retained losses for OSIG are \$6,240,000, with the insured losses expected to total \$6,939,000.

The 75th percentile estimate of OSIG's retained SIR and corridor losses is \$6,851,000. There is a 10% probability that these retained losses could exceed \$7,528,000. The volatility in the experience is largely due to occurrence of extreme seasonal weather events. OSIG's SIR and Corridor provide stability, the unlimited losses at the 90th percentile are \$23,109,000.



Distribution of Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
1 Creentiie	Ψ100,000	φ100,000	ψ1,000,000	ψ1,000,000	203303
25.0%	\$2,765,000	\$499,000	\$3,408,000	\$0	\$3,409,000
30.0%	\$2,844,000	\$547,000	\$3,525,000	\$0	\$3,527,000
35.0%	\$2,921,000	\$596,000	\$3,645,000	\$0	\$3,648,000
40.0%	\$2,997,000	\$646,000	\$3,747,000	\$0	\$3,748,000
45.0%	\$3,068,000	\$698,000	\$3,849,000	\$0	\$3,853,000
50.0%	\$3,134,000	\$749,000	\$3,953,000	\$0	\$3,957,000
55.0%	\$3,207,000	\$805,000	\$4,064,000	\$0	\$4,068,000
60.0%	\$3,283,000	\$860,000	\$4,168,000	\$0	\$4,178,000
65.0%	\$3,358,000	\$917,000	\$4,281,000	\$0	\$4,294,000
70.0%	\$3,449,000	\$983,000	\$4,406,000	\$0	\$4,420,000
75.0%	\$3,544,000	\$1,069,000	\$4,533,000	\$0	\$4,556,000
80.0%	\$3,661,000	\$1,170,000	\$4,697,000	\$0	\$4,728,000
85.0%	\$3,795,000	\$1,292,000	\$4,884,000	\$0	\$4,933,000
90.0%	\$3,961,000	\$1,439,000	\$5,134,000	\$0	\$5,176,000
95.0%	\$4,240,000	\$1,657,000	\$5,472,000	\$0	\$5,575,000
Expected	\$3,187,000	\$818,000	\$4,005,000	\$19,000	\$4,024,000
Students	377,140				
Cost Per Student	\$8.45	\$2.17	\$10.62	\$0.05	\$10.67
GL Forecast	\$2,009,000	\$689,000	\$2,698,000	\$19,000	\$2,717,000
AL Forecast	\$1,178,000	\$129,000	\$1,307,000	\$0	\$1,307,000
AL I OICCUST	ψ1,170,000	Ψ123,000	Ψ1,307,000	ΨΟ	ψ1,307,000
GL Cost per Student	\$5.33	\$1.83	\$7.15	\$0.05	\$7.20
AL Cost per Student	\$3.12	\$0.34	\$3.47	\$0.00	\$3.47
TE COST per Stadent	ψ0.12	ψυ.υ-	ψυ.τι	ψ0.00	ψ011
AL Cost Per Vehicle	\$117.26	\$12.84	\$130.10	\$0.00	\$130.10
Vehicle Count	10,046				

Distribution of Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

Dovocatilo	SIR Layer \$250,000 All Perils	Cost of Corridor	Total Retained	Insured Excess	Total Incurred
Percentile	All Perils	Ltd. \$1.4M	Losses	Losses	Losses
25.0% 30.0% 35.0% 40.0% 45.0% 50.0% 55.0% 60.0%	\$4,184,000 \$4,310,000 \$4,430,000 \$4,551,000 \$4,671,000 \$4,785,000 \$4,903,000 \$5,032,000 \$5,166,000	\$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000	\$5,555,000 \$5,685,000 \$5,811,000 \$5,938,000 \$6,058,000 \$6,174,000 \$6,294,000 \$6,426,000 \$6,560,000	\$2,108,000 \$2,607,000 \$3,086,000 \$3,551,000 \$4,096,000 \$4,649,000 \$5,310,000 \$6,039,000 \$6,889,000	\$8,093,000 \$8,709,000 \$9,284,000 \$9,824,000 \$10,410,000 \$11,084,000 \$11,752,000 \$12,527,000 \$13,407,000
70.0% 75.0%	\$5,298,000 \$5,455,000	\$1,400,000 \$1,400,000	\$6,695,000 \$6,851,000	\$7,815,000 \$9.088.000	\$14,453,000 \$15,740,000
80.0% 85.0% 90.0% 95.0%	\$5,634,000 \$5,846,000 \$6,133,000 \$6,540,000	\$1,400,000 \$1,400,000 \$1,400,000 \$1,400,000	\$7,031,000 \$7,031,000 \$7,243,000 \$7,528,000 \$7,937,000	\$10,665,000 \$12,753,000 \$16,487,000 \$21,955,000	\$13,740,000 \$17,363,000 \$19,511,000 \$23,109,000 \$28,639,000
Expected	\$4,840,000	\$1,400,000	\$6,240,000	\$6,939,000	\$13,179,000
TIV	\$9,053,414,500		,		
Cost Per \$100 TIV	\$0.053	\$0.015	\$0.069	\$0.077	\$0.146

APD	\$763,000	\$0	\$763,000	\$0	\$763,000
Other Property	\$4,077,000	\$1,400,000	\$5,477,000	\$6,939,000	\$12,416,000

Introduction

Select Actuarial Services has prepared this report for the Oklahoma Schools Insurance Group at the request of Ms. Jennifer McKenzie, Arthur J. Gallagher Risk Management Services. Select Actuarial Services is an independent firm, offering professional actuarial consulting services to a variety of insurance and non-insurance industry clients. The purpose of this report is to evaluate the projected liabilities associated with OSIG's property and liability program for the year July 1, 2018, through June 30, 2019.

This report is an actuarial analysis of data, conditions, and practices communicated as of March 1, 2018, to Select Actuarial Services as described in the section entitled "Considerations." While Select Actuarial Services believes these communications to be reliable, it has not attempted to audit the information and cannot guarantee the accuracy of any information supplied. However, the data have been reviewed for reasonableness and consistency. The actuarial estimates in this report are based upon appropriate actuarial assumptions and procedures described in the section of this report entitled "Analysis." Select Actuarial Services assumes no responsibility for any loss or damage that might arise from the use of or reliance upon this report other than for the purposes set forth herein.

This report was prepared for the use of and is only to be relied upon by the management of Oklahoma Schools Insurance Group. This report also may be provided to Oklahoma Schools Insurance Group's auditors and insurance brokers. No portion of the report may be provided to any other party without Select Actuarial Services' prior written consent. In the event such consent is provided, the report must be provided in its entirety. We recommend that any such party have its own actuary review this report to ensure that the party understands the assumptions and uncertainties inherent in our estimates.



Considerations

The specific objective of this report is to project the expected losses arising from OSIG's property and liability exposures for the period 7/1/18-19. Appropriate actuarial methods for performing a loss forecast can only be identified in light of the coverage involved, claims information available, and other considerations. Key considerations motivating the selection of techniques employed in this analysis are set forth below.

Coverage

This forecast for 7/1/18-19 projects losses reflecting OSIG's current insurance program and includes an alternate scenario at a higher retention. OSIG retains \$100,000 *above* the member deductibles for each liability occurrence. We have estimated costs limited to \$100,000, as well as for the layer from \$100,000 to \$1,000,000, and excess of \$1,000,000. We have calculated alternate scenarios using a \$125,000 and \$200,000 SIR.

Beginning with the 7/1/11-12 policy year the property coverage has been restructured to include a corridor deductible for *losses only* in excess of \$250,000 per claim. Also the \$250,000 SIR is applied to ground up losses of all types of perils, so that OSIG retains \$250,000 minus the member deductibles. The treatment of losses below the \$250,000 SIR is essentially unchanged from the old program, and the loss runs still report data net of member deductibles. These member deductibles vary by member and most members have a larger deductible for Wind and Hail related losses than all other perils. We have modeled the member deductibles on large claims based on the historical distribution of such amounts.

Available Data

Available loss and loss expense information consisted of historical loss and exposure data for current OSIG members. Data for former OSIG members was excluded from our analysis. Newer members provided some historical data for years prior to joining OSIG. Claims data were evaluated as of January 31, 2018. OSIG's historical exposure information was also provided in the form of vehicle count, number of students, and total insured values for property. As with the loss data, we have excluded the exposures of former OSIG members, using only the current members' data.

Development, Reporting and Settlement Patterns and Trends

Since annual evaluations of OSIG data are available, we have used this historical experience to build loss development triangles to observe OSIG's



own development experience. This experience is still somewhat sparse, and displays volatility from year to year. Thus, we have weighted OSIG experience with a benchmark pattern based on Oklahoma public entity experience.

Trends and External Influences

Trends are defined as changes over time in underlying costs. Trend factors are used to adjust losses and exposures from past years to the level at which they would have been, had they occurred during a future period. This is vital since historical losses may have occurred in a different environment in terms of both monetary inflation and benefit levels.

In this analysis, trends have been measured by examining changes in the Consumer Price Index from the U.S. Department of Labor, Bureau of Labor Statistics and in the U.S. Claims Cost Indices or "Masterson Index" as compiled by Willis Towers Watson.

Subrogation and Recoveries

Subrogation and recoveries are assumed to be reflected in the primary loss reports.

Loss Models

Statistical distributions are often used by the insurance industry to model the loss generating process. The variation in the aggregate losses for auto physical damage, and aggregate small losses for the other lines was modeled using a lognormal distribution for each policy year. Large claims were modeled using a frequency/severity approach. The Poisson distribution has been used the model the projected number of large claims. The set of large claims for each line was fit to various distributions to find the best fit. In most cases, the Inverse Weibull curve was selected for the severity distribution. The variation estimated in this modeling technique is the variation inherent in the historical experience; it does not include potential variation due to unanticipated changes in the environment or to misestimation of parameters.



Analysis

Actuarial procedures employed to forecast losses consist of a number of steps. Exhibits representing the various steps in the process are explained in this section of the report.

Synopsis of Procedures

Monte Carlo simulation was used to estimate of the distribution of overall costs for each line and for all lines combined by layer. This simulation technique starts by constructing a single potential outcome. The aggregate losses for APD, or aggregate small losses for other lines, are simulated using a lognormal distribution. The large losses are modeled separately by randomly selecting the number and size of the large claims according to the Poisson distribution for claim frequency and an Inverse Weibull curve for the claim severities.

Next, a list of claims is generated, according to the number of large claims determined by the Poisson distribution. The size of each claim is determined by the statistical distribution fit to the observed claims. Random numbers between 0 and 1 are generated for each claim. These numbers determine the outcome of the claim size distribution, producing a size for each claim. Because the various possible claim sizes are assigned probabilities, the random-number selection process selects the more likely claim sizes more often than the unexpected costs. Each simulated large claim is then divided into SIR and excess portions according to the particular programs insurance structure. The sum of these costs for all the claims in a coverage is a single outcome. This is combined with a randomly generated estimate of the aggregate small losses, based on the lognormal distribution assigned to these losses. The results by coverage are also summed for each outcome to produce aggregate results for each layer.

We then repeat the process 10,000 times, generating 10,000 different possible outcomes. The outcomes are averaged to determine the expected cost, and sorted to estimate the distribution of potential outcomes. The expected costs and are divided by the projected exposures to produce estimated costs per exposure.

Detailed descriptions of the exhibits and statistical analysis follow.



Exhibit I

Exhibit I summarizes OSIG's loss data as of the valuation date as of January 31, 2018. Claims are grouped by occurrence, and those occurrences with \$0 in incurred losses are excluded. The term "losses" refers to losses and allocated loss adjustment expenses net of the underlying member deductibles. Exposure data is also shown in the form of vehicle counts for automobile liability and auto physical damage, student count for general liability and E&O and total insured values or TIV for property.

Exhibit II

This exhibit displays the list of claims expected to exceed the SIR for each line of business. The losses are developed to ultimate and trended to the 7/1/18-19 level. The member deductibles for each claim are shown. This historical deductible experience is used to simulate the member deductibles on large claims in our model.

Exhibit III

The small losses are developed to ultimate and trended to the cost level of the 7/1/18-19 year. The reported amounts for large claims from Exhibit II are subtracted out and the remaining claims are multiplied by the development and trend factors. This method is repeated for paid losses.

Exhibit IV

The ultimate small losses developed in Exhibit III are compared to the underlying exposures to obtain loss rates for the small losses. Experience is compared from year to year and a single loss rate for small losses is selected for the 7/1/18-19 year.

The selected small loss rate times the projected exposure for 7/1/18-19 results in the ultimate small losses for the forecast period. The variance in the historical loss rates will provide the basis for the potential variation in the forecast small loss experience.

Exhibit V

The number of claims exceeding the \$100,000 SIR for liability and \$250,000 for property claims for each year is compared to the underlying exposures for each year. The large claim frequencies are compared and a single frequency rate is selected for the 7/1/18-19 forecast period. The frequency times the exposure estimates the number of large claims expected.



A similar procedure is used to project the total claim frequency for the forecast period.

Exhibit VI

This exhibit calculates the total forecast as the sum of the aggregate small losses with the large loss estimates. The projected number of large claims is multiplied by the expected claim size at various limits. These claim sizes are from the severity distribution fit to the claims in Exhibit II. For property claims we also estimate the member deductibles on large claims and subtract these amounts from the large claim costs.

Exhibit VII

This exhibit contains the output of the Monte Carlo simulation. The small and large claim experience is separately modeled and summed to provide an overall expected cost. The model simulates 10,000 outcomes and the 10,000 outcomes for each layer are averaged and sorted to produce the expected value and percentiles. The expected costs are divided by the expected number of claims to calculate the average cost per claim. Note that, although the average results by layer can be summed to the total, the percentile outcomes for the layers do not necessarily add to the same percentile outcome for the total losses. This is because a given scenario may produce a high volume of losses in one layer but little or no loss in another layer. The outcomes for each layer are sorted to calculate the percentiles for the individual layer.

The percentile of the distribution shows the amount that losses will be less than with that probability. For example, the 75th percentile for total losses is the value that losses will be less than 75% of the time. Similarly, the 90th percentile losses represent a level that actual losses might exceed with 10% probably, or about once in ten years.

Appendix A

This exhibit shows the loss development factors used to develop claims to an ultimate basis. The factors are based on OSIG experience. Due to the sparseness of the data, OSIG's experience is supplemented with public entity experience in the state of Oklahoma.

Appendix B

The trend factors are calculated based on external economic indices.



Automobile Liability Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Claims that Develop and Trend over \$100,000
Exhibit III	Ultimate Small Losses
Exhibit IV	Forecast Losses Less than \$100,000
Exhibit V	Large Claim Frequency Total Claim Frequency
Exhibit VI	Forecast Ultimate Losses
Exhibit VII	Results of Monte Carlo Simulation Forecast Losses for Various Layers
Appendix A	Loss Development Factors
Appendix B	Trend Factors



Summary of Loss and Exposure Data Total Experience Net of Member Deductibles

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
			Reported	Loss	Loss	Loss	
Accident	Evaluation	Maturity	NonZero	and Expense	and Expense	and Expense	
Period	Date	(months)	Claims	Payments	Reserves	Incurred	Vehicles
7/1/07-08	1/31/2018	127	132	\$501,636	\$0	\$501,636	5,440
7/1/08-09	1/31/2018	115	148	\$910,996	\$0	\$910,996	5,182
7/1/09-10	1/31/2018	103	136	\$524,623	\$18,440	\$543,063	5,887
7/1/10-11	1/31/2018	91	138	\$719,013	\$0	\$719,013	6,443
7/1/11-12	1/31/2018	79	151	\$807,169	\$25,762	\$832,932	5,902
7/1/12-13	1/31/2018	67	151	\$633,098	\$0	\$633,098	6,210
7/1/13-14	1/31/2018	55	172	\$678,602	\$27,177	\$705,779	6,847
7/1/14-15	1/31/2018	43	208	\$990,994	\$285,912	\$1,276,906	8,572
7/1/15-16	1/31/2018	31	216	\$854,975	\$282,300	\$1,137,276	9,173
7/1/16-17	1/31/2018	19	195	\$785,160	\$249,647	\$1,034,806	9,781
7/1/17-18	1/31/2018	7	113	\$217,543	\$328,612	\$546,156	10,013
7/1/18-19							10,046

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

⁻ Loss and Exposure data contains only current OSIG members as of 1/31/2018

Large Claim Listing
Claims Exceeding Threshhold after Development and Trend

(A)	(B)	(C)	(D)	(E)	(F)	(G)
						Loss After
				Severity	Trend	Development
Occurrence #	Loss Date	Net Paid	Net Incurred	Factor	Factor	& Trend
P625-08-02546	10/6/2008	\$78,627	\$78,627	1.000	1.399	\$109,992
02638	11/14/2008	\$104,466	\$104,466	1.000	1.399	\$146,139
02940	5/7/2009	\$106,504	\$106,504	1.000	1.399	\$148,991
90075	8/18/2010	\$134,999	\$134,999	1.000	1.294	\$174,767
90305	12/8/2010	\$103,684	\$103,684	1.000	1.294	\$134,227
P625-11-90851	9/9/2011	\$96,221	\$96,221	1.000	1.250	\$120,340
91477	9/19/2012	\$135,786	\$135,786	1.001	1.217	\$165,330
92239	1/7/2014	\$130,707	\$130,707	1.003	1.184	\$155,122
93008	3/23/2015	\$206,102	\$206,102	1.008	1.149	\$238,693
P625-15-93064	4/9/2015	\$6,504	\$90,000	1.008	1.149	\$104,232
93063	4/20/2015	\$178,945	\$258,150	1.008	1.149	\$298,971
93477	11/19/2015	\$75,266	\$202,250	1.024	1.107	\$229,303
94052	9/29/2016	\$126,307	\$126,307	1.080	1.066	\$145,452
94363	3/23/2017	\$18,040	\$118,040	1.080	1.066	\$135,931
94562	7/10/2017	\$0	\$115,000	1.206	1.033	\$143,251
		\$1,502,159	\$2,006,844			\$2,450,741

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

Estimation of Ultimate Small Losses At the Forecast Loss Level

	(A)	(B)	(C) Trend	(D)	(E) Ultimate
Accident	Reported	Reported on Large	Factor to	Reported Develop.	on Small
Period	Losses	Losses	7/1/18-19	Factor	Claims
T enou	L03363	L03363	771710-19	1 actor	Claiilis
7/1/07-08	\$501,636	\$0	1.462	1.000	\$733,637
7/1/08-09	\$910,996	\$289,597	1.399	1.000	\$869,288
7/1/09-10	\$543,063	\$0	1.342	1.000	\$728,928
7/1/10-11	\$719,013	\$238,683	1.294	1.000	\$621,824
7/1/11-12	\$832,932	\$96,221	1.250	1.000	\$921,375
7/1/12-13	\$633,098	\$135,786	1.217	1.001	\$605,515
7/1/13-14	\$705,779	\$130,707	1.184	1.003	\$682,488
7/1/14-15	\$1,276,906	\$554,252	1.149	1.008	\$836,926
7/1/15-16	\$1,137,276	\$202,250	1.107	1.026	\$1,062,219
7/1/16-17	\$1,034,806	\$244,347	1.066	1.084	\$913,375
7/1/17-18	\$546,156	\$115,000	1.033	2.083	\$927,366
Total	\$8,841,661	\$2,006,844			\$8,902,941

	(A)	(B)	(C)	(D)	(E)
		Paid	Trend	Paid	Ultimate
Accident	Paid	on Large	Factor to	Develop.	on Small
Period	Losses	Losses	7/1/18-19	Factor	Claims
7/1/07-08	\$501,636	\$0	1.462	1.000	\$733,737
7/1/08-09	\$910,996	\$289,597	1.399	1.000	\$869,534
7/1/09-10	\$524,623	\$0	1.342	1.001	\$704,605
7/1/10-11	\$719,013	\$238,683	1.294	1.001	\$622,659
7/1/11-12	\$807,169	\$96,221	1.250	1.003	\$891,888
7/1/12-13	\$633,098	\$135,786	1.217	1.008	\$609,936
7/1/13-14	\$678,602	\$130,707	1.184	1.021	\$661,995
7/1/14-15	\$990,994	\$391,551	1.149	1.055	\$726,797
7/1/15-16	\$854,975	\$75,266	1.107	1.157	\$998,687
7/1/16-17	\$785,160	\$144,347	1.066	1.471	\$1,005,288
7/1/17-18	\$217,543	\$0	1.033	3.746	\$841,527
Total	\$7,623,811	\$1,502,159			\$8,666,654

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) - Appendix B

⁽D) - Appenidx A

⁽E) = (C)*(D)*[(A) - (B)]

Calculation of Forecast Ultimate Losses for 7/1/18-19 Less than \$100,000 per Occurrence

ſ	(A)	(B)	(C)	(D)	(E)	(E)
ı	(A)	• •	(0)	(D)	(=)	(F)
ı		Trended		Exposure		
ı	Accident	Ultimate	Exposures	Trend	Trended	Loss
	Period	Losses	(Vehicles)	Factors	Exposures	Rate
	7/1/07-08	\$734,000	5,440	1.000	5,440	\$135
	7/1/08-09	\$869,000	5,182	1.000	5,182	\$168
	7/1/09-10	\$717,000	5,887	1.000	5,887	\$122
	7/1/10-11	\$622,000	6,443	1.000	6,443	\$97
	7/1/11-12	\$907,000	5,902	1.000	5,902	\$154
	7/1/12-13	\$608,000	6,210	1.000	6,210	\$98
	7/1/13-14	\$672,000	6,847	1.000	6,847	\$98
	7/1/14-15	\$782,000	8,572	1.000	8,572	\$91
	7/1/15-16	\$1,030,000	9,173	1.000	9,173	\$112
	7/1/16-17	\$959,000	9,781	1.000	9,781	\$98
	7/1/17-18	\$884,000	10,013	1.000	10,013	\$88
	Total	\$8,784,000	79,449		79,449	\$111

(3) Forecast Small Losses { Line (1) x Line (2) }	\$945,000	\$979,000
(2) Forecast Exposure { Exhibit I }	10,013	10,046
(1) Selected Loss Rate { Weighted Average - last five years }	\$94	\$97
	<u>7/1/17-18</u>	<u>7/1/18-19</u>

Column (B) - Average of Columns (E) from Exhibit III;

Column (C) - Exhibit I

Column (D) - N/A

Column (E) = (C) * (D)

Column (F) = (B) / (E)

Projected Large Claim Frequency Claims Exceeding \$100,000 per Occurrence

(A)	(B)	(C)	(D)	(E)	(F)
	Number of				Frequency
Accident	Claims		Ultimate	Exposures	per 1,000
Period	> \$100,000	CCDF	Claims	(Vehicles)	Vehicles
7/1/07-08	0	1.000	0.0	5,440	0.00
7/1/08-09	3	1.000	3.0	5,182	0.58
7/1/09-10	0	1.000	0.0	5,887	0.00
7/1/10-11	2	1.000	2.0	6,443	0.31
7/1/11-12	1	1.000	1.0	5,902	0.17
7/1/12-13	1	1.000	1.0	6,210	0.16
7/1/13-14	1	1.000	1.0	6,847	0.15
7/1/14-15	3	1.000	3.0	8,572	0.35
7/1/15-16	1	1.002	1.0	9,173	0.11
7/1/16-17	2	1.003	2.0	9,781	0.21
7/1/17-18	1	1.727	1.7	10,013	0.17
Total	15		15.7	79,449	0.20
				<u>7/1/17-18</u>	<u>7/1/18-19</u>
		Selected Frequency { All Years Average }			0.20
		Fore	ecast Exposure	10,013	10,046
	Forecas	t Number of	Large Claims	2.0	2.0

⁽B) - Exhibit II

⁽C) - Appendix A

⁽D) - (B) * (C)

⁽E) = Exhibit I

⁽F) = (D) / (E) * 1,000

Projected Total Claim Frequency

(A)	(B)	(C)	(D)	(E)	(F)
	Number of				Frequency
Accident	Nonzero		Ultimate	Exposures	per 1,000
Period	Claims	CCDF	Claims	(Vehicles)	Vehicles
7/1/07-08	132	1.000	132.0	5,440	24.3
7/1/08-09	148	1.000	148.0	5,182	28.6
7/1/09-10	136	1.000	136.0	5,887	23.1
7/1/10-11	138	1.000	138.0	6,443	21.4
7/1/11-12	151	1.000	151.0	5,902	25.6
7/1/12-13	151	1.000	151.0	6,210	24.3
7/1/13-14	172	1.000	172.0	6,847	25.1
7/1/14-15	208	1.000	208.0	8,572	24.3
7/1/15-16	216	1.002	216.4	9,173	23.6
7/1/16-17	195	1.003	195.7	9,781	20.0
7/1/17-18	113	1.727	195.1	10,013	19.5
Total	1,760		1,843.2	79,449	23.2
				7/1/17-18	7/1/18-19
		Selected Frequency Four year average		21.8	21.8
		Forecast Exposure		10,013	10,046
		Forecast Total Claims		218.7	219.4

⁽B) - Exhibit I

⁽C) - Appendix A

⁽D) - (B) * (C)

⁽E) = Exhibit I

⁽F) = (D) / (E) * 1,000

Forecast Ultimate Losses for 7/1/18-19 Total Experience Net of Member Deductibles

	<u>7/1/17-18</u>	<u>7/1/18-19</u>
(1) Forecast Small Losses {Exhibit IV}	\$945,000	\$979,000
(2) Forecast Number of Claims over \$100,000 {Exhibit V}	2.0	2.0
(3) Expected Severity of Losses over \$100,000: { Derived from Claims in Exhibit II }		
Limited to \$100,000	\$100,000	\$100,000
Limited to \$125,000	\$119,000	\$123,000
Limited to \$200,000	\$149,000	\$154,000
Limited to \$1,000,000	\$160,000	\$165,000
Unlimited	\$160,000	\$165,000
(4) Projected Total Losses		
{ Line(1) + [Line(2) * Line (3)] }	** ***	
Limited to \$100,000	\$1,143,000	\$1,178,000
Limited to \$125,000	\$1,181,000	\$1,224,000
Limited to \$200,000	\$1,240,000	\$1,285,000
Limited to \$1,000,000	\$1,262,000 \$1,262,000	\$1,307,000 \$1,307,000
Unlimited	\$1,262,000	\$1,307,000
(5) Forecast Vehicle Counts	10,013	10,046
(6) Projected Cost per Vehicle		
{ Line (4) / Line (5) }		
Limited to \$100,000	\$114	\$117
Limited to \$125,000	\$118	\$122
Limited to \$200,000	\$124	\$128
Limited to \$1,000,000	\$126	\$130
Unlimited	\$126	\$130
(7) Projected total Claims	218.7	219.4
(8) Average Severity		
Limited to \$100,000	\$5,200	\$5,400
Limited to \$125,000	\$5,400	\$5,600
Limited to \$1,000,000	\$5,700	\$6,000
Unlimited	\$5,800	\$6,000

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 75.0% 80.0% 85.0% 90.0% 99.0%	\$959,000 \$1,029,000 \$1,094,000 \$1,158,000 \$1,222,000 \$1,295,000 \$1,340,000 \$1,391,000 \$1,455,000 \$1,531,000 \$1,641,000 \$1,895,000	\$26,000 \$51,000 \$74,000 \$99,000 \$129,000 \$164,000 \$185,000 \$211,000 \$244,000 \$290,000 \$369,000 \$566,000	\$1,025,000 \$1,113,000 \$1,195,000 \$1,274,000 \$1,359,000 \$1,454,000 \$1,513,000 \$1,578,000 \$1,657,000 \$1,761,000 \$1,908,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,025,000 \$1,113,000 \$1,195,000 \$1,274,000 \$1,359,000 \$1,454,000 \$1,513,000 \$1,578,000 \$1,657,000 \$1,761,000 \$1,908,000 \$2,237,000
Expected	\$1,178,000	\$129,000	\$2,237,000 \$1,307,000	\$0	\$1,307,000
Vehicles Students	10,046 377,140				
Cost Per Vehicle Cost Per Student	\$117 \$3.12	\$13 \$0.34	\$130 \$3.47	\$0 \$0.00	\$130 \$3.47

Percentiles based on combined distributions for small and large losses Aggregate small losses modeled using a lognormal distribution Large claim size modeled using an inverse Weibull distribution Large claim counts modeled using a Poisson Distribution

 $\begin{array}{ccc} & & & \underline{Lognormal} \\ Mu = & 13.77009 \\ Sigma = & 0.22000 \\ & & \underline{Inverse \ Weibull} \\ Tau = & 4.536372519 \\ Theta = & 137737.4042 \\ & Poisson \end{array}$

1.99

Lambda =

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

		Tra	nsformed \	/alues for F	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36 48	1.161 1.056 1.015 1.005	-6.8690 -6.8814 -6.8937 -6.9058	-1.8250 -2.8886 -4.1964 -5.2983	47.183 47.354 47.522 47.689	3.3306 8.3442 17.6096 28.0722	12.5360 19.8779 28.9284 36.5889	127 115 103 91 79 67 55 43 31 19	1.000 1.000 1.000 1.000 1.000 1.001 1.003 1.008 1.026 1.084 2.083
_	Sum erage	-27.5498 -6.8875	-14.2083 -3.5521	189.7491 47.4373	57.3566 14.3392	97.9311 24.4828		

N =	4		
A = 7.	792E+284		
B =	95.759	R^2 =	0.99837
C =	950		

^{* -} Appendix A4 from IBNR Study

Estimation of Cumulative Paid Loss Development Factors Using "The Method of Least Squares"

		Tra	nsformed \	/alues for R	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36 48 60	1.918 1.313 1.088 1.042 1.013	-5.2311 -5.2933 -5.3519 -5.4072 -5.4596	-0.0850 -1.1615 -2.4308 -3.1818 -4.3173	27.364 28.019 28.642 29.238 29.807	0.0072 1.3492 5.9089 10.1238 18.6389	0.4449 6.1484 13.0094 17.2045 23.5706	127 115 103 91 79 67 55 43 31 19	1.000 1.000 1.001 1.001 1.003 1.008 1.021 1.055 1.157 1.471 3.746
	Sum erage	-26.7430 -5.3486	-11.1765 -2.2353	143.0705 28.6141	36.0280 7.2056	60.3777 12.0755		

N =	5		
A =	4.943E+41		
В =	18.367	R^2 =	0.99634
C =	175		

^{* -} Appendix A5 from IBNR Study

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

Manuffra		Tra	nsformed V	alues for F	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24	1.006 1.003	-2.4849 -3.1781	-5.1822 -5.9354	6.175 10.100	26.8550 35.2292	12.8772 18.8631	127 115 103 91 79 67 55 43 31 19	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.002 1.003 1.727
	Sum erage	-5.6630 -2.8315	-11.1176 -5.5588	16.2748 8.1374	62.0842 31.0421	31.7403 15.8702		

N =	2		
A =	8.359E-02		
В =	1.087	R^2 =	1.00000
C =	0		

^{* -} Appendix A6 from IBNR study

U.S. Claims Cost Index Automobile Liability

(A)	(B)	(C)	(D)	(E)	(F)
					Trend
		Annual			Factor
		Percent	Accident	Interpolated	to
Year	Index	Increase	Period	Index	7/1/18-19
•					
2000	80.9	5.0%			
2001	84.0	3.9%			
2002	88.1	4.8%			
2003	91.5	3.9%			
2004	95.6	4.5%			
2005	100.0	4.6%			
2006	104.3	4.3%			
2007	109.2	4.7%			
2008	113.7	4.0%	7/1/07-08	111.5	1.462
2009	119.4	5.0%	7/1/08-09	116.5	1.399
2010	123.5	3.5%	7/1/09-10	121.4	1.342
2011	128.3	3.9%	7/1/10-11	125.9	1.294
2012	132.4	3.2%	7/1/11-12	130.4	1.250
2013	135.6	2.4%	7/1/12-13	134.0	1.217
2014	139.8	3.1%	7/1/13-14	137.7	1.184
2015	143.9	2.9%	7/1/14-15	141.9	1.149
2016	150.4	4.5%	7/1/15-16	147.2	1.107
2017*	155.3	3.3%	7/1/16-17	152.9	1.066
2018**	160.4	3.3%	7/1/17-18	157.9	1.033
2019**	165.6	3.3%	7/1/18-19	163.0	1.000

⁽B) and (C) - Towers Watson Claim Cost Index compiled by Jeremy Pecora, FCAS, MAAA

^{* -} Numbers are preliminary

^{** -} future trend estimated based on latest year

⁽E) - Linear interpolation of column (B)

⁽F) - [(E), forecast period] / [(E), current period]

General Liability Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Claims that Develop and Trend over \$100,000
Exhibit III	Ultimate Small Losses
Exhibit IV	Forecast Losses Less than \$100,000
Exhibit V	Large Claim Frequency Total Claim Frequency
Exhibit VI	Forecast Ultimate Losses
Exhibit VII	Results of Monte Carlo Simulation Forecast Losses for Various Layers
Appendix A	Loss Development Factors
Appendix B	Trend Factors



General Liability including E&O

Summary of Loss and Exposure Data Total Experience Net of Member Deductibles

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
				Net Loss	Net Loss	Net Loss	
Accident	Evaluation	Maturity	Reported	and Expense	and Expense	and Expense	
Period	Date	(months)	Claims	Payments	Reserves	Incurred	Students
7/1/07-08	1/31/2018	127	121	\$1,271,972	\$0	\$1,271,972	222,197
7/1/08-09	1/31/2018	115	110	\$1,856,219	\$0	\$1,856,219	223,801
7/1/09-10	1/31/2018	103	111	\$1,314,584	\$0	\$1,314,584	227,106
7/1/10-11	1/31/2018	91	87	\$1,753,378	\$38,239	\$1,791,617	256,676
7/1/11-12	1/31/2018	79	71	\$3,187,108	\$18,337	\$3,205,445	244,401
7/1/12-13	1/31/2018	67	102	\$994,654	\$148,989	\$1,143,644	253,985
7/1/13-14	1/31/2018	55	78	\$796,563	\$114,572	\$911,136	290,075
7/1/14-15	1/31/2018	43	103	\$1,375,885	\$474,963	\$1,850,848	348,947
7/1/15-16	1/31/2018	31	113	\$1,040,707	\$891,990	\$1,932,697	361,838
7/1/16-17	1/31/2018	19	120	\$465,524	\$2,405,496	\$2,871,020	370,097
7/1/17-18	1/31/2018	7	50	\$28,936	\$371,180	\$400,116	376,303
7/1/18-19							377,140
			4000	^^	*	*	
			1066	\$14,085,530	\$4,463,766	\$18,549,297	

⁻ Loss and policy information provided by Jennifer McKenzies, Arthur J. Gallagher

⁻ Loss and Exposure data contains only current OSIG members as of 1/31/2018

⁻ Claims are grouped by occurrence, claims with \$0 incurred are excluded

⁻ Losses are net of member deductibles

Large Claim Listing
Claims Exceeding Threshhold after Development and Trend

					(H)	(1)
		Mot	Mat	Coverity	Trond	Loss After
0	1 D - t -	Net	Net	Severity	Trend	Development
Occurrence #	Loss Date	Paid	Incurred	Factor	Factor	& Trend
02387	7/31/2007	\$102,095	\$102,095	1.000	1.366	\$139,525
P625-07-01847	8/24/2007	\$76,067	\$76,067	1.000	1.366	\$103,955
02047	10/19/2007	\$109,798	\$109,798	1.000	1.366	\$150,955 \$150,052
01968	11/2/2007	\$109,790 \$121,452	\$121,452	1.000	1.366	\$165,979
P625-08-02155	3/7/2008	\$75,234	\$75,234	1.000	1.366	\$102,816
02595	10/20/2008	\$1,075,745	\$1,075,745	1.000	1.326	\$1,427,338
P625-08-02785	12/8/2008	\$96,997	\$96,997	1.000	1.326	\$1,427,338 \$128,699
03267	11/4/2009	\$107,144	\$107,144	1.000	1.296	\$139,020
03567	2/18/2010	\$107,144	\$117,345	1.001	1.296	\$152,255
P625-10-03568	3/11/2010	\$86,866	\$86,866	1.001	1.296	\$112,709
90906	5/10/2010	\$304,711	\$304,711	1.001	1.296	\$395,364
P625-10-03653	5/19/2010	\$89,348	\$89,348	1.001	1.296	\$115,929
P625-10-03033 P625-10-03728	6/17/2010	\$85,569	\$85,569	1.001	1.296	\$113,929 \$111,026
P625-10-90080	8/19/2010	\$94.545	\$94,545	1.001	1.258	
90084	8/22/2010	\$115,615	\$115,615	1.002	1.258	\$119,191 \$145,754
90118	9/1/2010	\$1136,645	\$136,645	1.002	1.258	\$172,266
90205	10/14/2010	\$130,043 \$123,444	\$123,444	1.002	1.258	\$172,200 \$155,623
90236	10/14/2010	\$290,942	\$290,942	1.002	1.258	\$366,785
90297	12/6/2010	\$157,221	\$157,221	1.002	1.258	\$300,783 \$198,205
90313	12/0/2010	\$104,163	\$104,163	1.002	1.258	\$131,317
90708	3/22/2011	\$104,103 \$141,522	\$104,103	1.002	1.258	\$178,414
P625-11-91010	8/25/2011	\$84,730	\$84,730	1.002	1.216	\$173,414
91394	9/1/2011	\$149,418	\$149,418	1.004	1.216	\$103,511 \$182,537
91388	10/25/2011	\$443,010	\$443,010	1.004	1.216	\$541,205
P625-11-90962	10/25/2011	\$95,962	\$95,962	1.004	1.216	\$117,233
P625-11-90991	10/28/2011	\$97,912	\$97,912	1.004	1.216	\$119,614
91040	11/11/2011	\$1,708,795	\$1,708,795	1.004	1.216	\$2,087,555
91564	5/28/2012	\$210,533	\$210,533	1.004	1.216	\$2,007,333 \$257,199
91445	8/29/2012	\$420,468	\$420,468	1.004	1.183	\$501,874
91791	10/25/2012	\$68,679	\$105,000	1.009	1.183	\$125,329
92222	12/23/2013	\$145,266	\$145,266	1.009	1.152	\$170,651
92382	1/29/2014	\$100,352	\$100,352	1.019	1.152	\$117,887
92867	4/4/2014	\$176,221	\$176,221	1.019	1.152	\$207,014
P625-15-93017	1/9/2015	\$6,804	\$97,169	1.042	1.121	\$113,461
92999	3/2/2015	\$240,862	\$240,862	1.042	1.121	\$281,248
93289	3/22/2015	\$211,827	\$211,827	1.042	1.121	\$247,344
P625-15-94241	4/16/2015	\$6,121	\$91,112	1.042	1.121	\$106,389
93143	5/15/2015	\$141,576	\$141,576	1.042	1.121	\$165,315
93680	3/7/2016	\$92,066	\$170,000	1.090	1.086	\$201,095
94063	3/24/2016	\$51,960	\$127,000	1.090	1.086	\$150,230
94446	5/5/2016	\$51, 3 00 \$0	\$127,000	1.090	1.086	\$130,230 \$121,840
P625-16-93885	7/8/2016	\$55,449	\$87,000	1.181	1.053	\$121,840 \$108,173
P625-16-94291	12/16/2016	\$52,546	\$97,000	1.181	1.053	\$100,173
94280	1/27/2017	\$52,540 \$50,400	\$1,053,000	1.181	1.053	\$1,309,269
P625-17-94383	2/1/2017	\$30, 4 00 \$2,084	\$82,085	1.181	1.053	\$1,309,209 \$102,062
94748	4/5/2017	\$2,064 \$12,346	\$110,000	1.181	1.053	\$102,002 \$136,771
3714U	7/3/2017	ψ12,540	ψ110,000	1.101	1.000	ψ100,771

\$8,237,855 \$9,961,765

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

General Liability including E&O

Estimation of Ultimate Losses for 7/1/18-19 Less than \$100,000 per Occurrence

	(A)	(B)	(C)	(D)	(E)
		Reported	Trend	Reported	Ultimate
Accident	Reported	on Large	Factor to	Develop.	on Small
Period	Losses	Losses	7/1/18-19	Factor	Claims
7/1/07-08	\$1,271,972	\$484,645	1.366	1.000	\$1,076,000
7/1/08-09	\$1,856,219	\$1,172,742	1.326	1.000	\$907,000
7/1/09-10	\$1,314,584	\$790,982	1.296	1.001	\$679,000
7/1/10-11	\$1,791,617	\$1,164,097	1.258	1.002	\$791,000
7/1/11-12	\$3,205,445	\$2,790,361	1.216	1.004	\$507,000
7/1/12-13	\$1,143,644	\$525,468	1.183	1.009	\$738,000
7/1/13-14	\$911,136	\$421,838	1.152	1.019	\$575,000
7/1/14-15	\$1,850,848	\$782,546	1.121	1.042	\$1,248,000
7/1/15-16	\$1,932,697	\$400,000	1.086	1.092	\$1,817,000
7/1/16-17	\$2,871,020	\$1,429,085	1.053	1.201	\$1,824,000
7/1/17-18	\$400,116	\$0	1.026	2.358	\$968,000
Total	\$18,549,297	\$9,961,765			\$11,130,000

Ultimate on Small
on Small
Claims
\$1,077,000
\$908,000
\$681,000
\$747,000
\$491,000
\$621,000
\$474,000
\$1,102,000
\$1,884,000
\$1,491,000
\$780,000
\$10,256,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) - Appendix A

⁽D) - Appendix B

⁽E) = (C)*(D)*[(A) - (B)]

Calculation of Forecast Ultimate Losses for 7/1/18-19 Less than \$100,000 per Occurrence

(A)	(B)	(C)	(D)	(E)	(F)
	Trended		Exposure		
Accident	Ultimate	Exposures	Trend	Trended	Loss
Period	Losses	(Students)	Factors	Exposures	Rate
-					
7/1/07-08	\$1,076,000	222,197	1.000	222,197	\$4.84
7/1/08-09	\$907,000	223,801	1.000	223,801	\$4.05
7/1/09-10	\$679,000	227,106	1.000	227,106	\$2.99
7/1/10-11	\$791,000	256,676	1.000	256,676	\$3.08
7/1/11-12	\$507,000	244,401	1.000	244,401	\$2.07
7/1/12-13	\$738,000	253,985	1.000	253,985	\$2.91
7/1/13-14	\$575,000	290,075	1.000	290,075	\$1.98
7/1/14-15	\$1,248,000	348,947	1.000	348,947	\$3.58
7/1/15-16	\$1,817,000	361,838	1.000	361,838	\$5.02
7/1/16-17	\$1,824,000	370,097	1.000	370,097	\$4.93
7/1/17-18	\$968,000	376,303	1.000	376,303	\$2.57
Total	\$11,130,000	3,175,426		3,175,426	\$3.51
				<u>7/1/17-18</u>	<u>7/1/18-19</u>
	Selected Loss Rate { Five year weighted average }				\$3.68
		Fored	cast Exposure { Exhibit I }	376,303	377,140

Forecast Small Losses \$1,350,000 \$1,388,000 { Line (1) x Line (2) }

Column (B) - Exhibit III

Column (C) - Exhibit I

Column (D) - N/A

Column (E) = (C) * (D)

Column (F) = (B) / (E)

Projected Large Claim Frequency Claims Exceeding \$100,000 per Occurrence

(A)	(B)	(C)	(D)	(E)	(F)
	Number of				Frequency
Accident	Claims		Ultimate	Exposures	per 1,000
Period	> \$100,000	CCDF	Claims	(Students)	Students
7/1/07-08	5	1.000	5.0	222,197	0.023
7/1/08-09	2	1.000	2.0	223,801	0.009
7/1/09-10	6	1.000	6.0	227,106	0.026
7/1/10-11	8	1.000	8.0	256,676	0.031
7/1/11-12	7	1.000	7.0	244,401	0.029
7/1/12-13	2	1.000	2.0	253,985	0.008
7/1/13-14	3	1.000	3.0	290,075	0.010
7/1/14-15	5	1.000	5.0	348,947	0.014
7/1/15-16	3	1.002	3.0	361,838	0.008
7/1/16-17	5	1.017	5.1	370,097	0.014
7/1/17-18	0	1.882	0.0	376,303	0.000
Total	46		46.1	3,175,426	0.015
lOlai	40		40.1	3,173,420	0.013
				<u>7/1/17-18</u>	7/1/18-19
	Selected Frequency { All years average excluding 17-18 }			0.016	0.016
	, , , , , ,	3 - ,			
	Forecast Exposure			376,303	377,140
ı	Forecast Number of Claims over \$100,000				6.2

⁽B) - Exhibit II

⁽C) - Appendix A

⁽D) - (B) * (C)

⁽E) = Exhibit I

⁽F) = (D) / (E) * 1,000

Projected Total Claim Frequency Total Claims

(A)	(B)	(C)	(D)	(E)	(F)
					Frequency
Accident	Number of		Ultimate	Exposures	per 1,000
Period	Claims	CCDF	Claims	(Students)	Students
7/1/07-08	121	1.000	121.0	222,197	0.54
7/1/08-09	110	1.000	110.0	223,801	0.49
7/1/09-10	111	1.000	111.0	227,106	0.49
7/1/10-11	87	1.000	87.0	256,676	0.34
7/1/11-12	71	1.000	71.0	244,401	0.29
7/1/12-13	102	1.000	102.0	253,985	0.40
7/1/13-14	78	1.000	78.0	290,075	0.27
7/1/14-15	103	1.000	103.0	348,947	0.30
7/1/15-16	113	1.002	113.2	361,838	0.31
7/1/16-17	120	1.017	122.1	370,097	0.33
7/1/17-18	50	1.882	94.1	376,303	0.25
Total	1,066		1,112.4	3,175,426	0.35
				<u>7/1/17-18</u>	<u>7/1/18-19</u>
		Selec	ted Frequency	0.29	0.29
			ast five years }	V.=V	0.20
		Forecast Exposure		376,303	377,140
		Forecast Num	ber of Claims	109.6	109.9

⁽B) - Exhibit I

⁽C) - Appendix A

⁽D) - (B) * (C)

⁽E) = Exhibit I

⁽F) = (D) / (E) * 1,000

Forecast Ultimate Losses for 7/1/18-19 Total Experience Net of Member Deductibles

	<u>7/1/17-18</u>	<u>7/1/18-19</u>
(1) Forecast Losses Less than \$100,000 {Exhibit IV}	\$1,350,000	\$1,388,000
(2) Forecast Number of Claims over \$100,000 {Exhibit V}	6.2	6.2
(3) Expected Excess Severity		
{ Derived from Claims in Exhibit II }		
Limited to \$100,000	\$100,000	\$100,000
Limited to \$125,000	\$120,000	\$123,000
Limited to \$200,000	\$161,000	\$165,000
Limited to \$1,000,000	\$206,000	\$211,000
Unlimited	\$209,000	\$214,000
(4) Projected Total Losses		
{ Line(1) + [Line(2) * Line (3)] }		
Limited to \$100,000	\$1,970,000	\$2,009,000
Limited to \$125,000	\$2,094,000	\$2,152,000
Limited to \$200,000	\$2,348,000	\$2,413,000
Limited to \$1,000,000	\$2,626,000	\$2,698,000
Unlimited	\$2,645,000	\$2,717,000
(5) Forecast Exposure (Students)	376,303	377,140
(6) Projected Cost per Student		
{ Line (4) / Line (5) }		
Limited to \$100,000	\$5.24	\$5.33
Limited to \$125,000	\$5.56	\$5.71
Limited to \$200,000	\$6.24	\$6.40
Limited to \$1,000,000	\$6.98	\$7.15
Unlimited	\$7.03	\$7.20
(7) Projected total Claims	109.6	109.9
(8) Average Severity		
Limited to \$100,000	\$18,000	\$18,300
Limited to \$125,000	\$19,100	\$19,600
Limited to \$200,000	\$21,400	\$22,000
Limited to \$1,000,000	\$23,900	\$24,600
Unlimited	\$24,100	\$24,700

Distribution of Forecast Losses for 7/1/18-19 Assuming a \$100,000 SIR

Percentile	SIR Layer \$100,000	Layer \$900,000 xs \$100,000	Losses Limited to \$1,000,000	Losses Excess of \$1,000,000	Total Incurred Losses
20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 75.0% 80.0% 85.0% 90.0% 95.0%	\$1,560,000 \$1,697,000 \$1,822,000 \$1,950,000 \$2,079,000 \$2,229,000 \$2,314,000 \$2,420,000 \$2,549,000 \$2,710,000 \$2,958,000 \$3,514,000	\$329,000 \$422,000 \$515,000 \$615,000 \$721,000 \$848,000 \$926,000 \$1,026,000 \$1,143,000 \$1,293,000 \$1,519,000 \$2,012,000	\$2,025,000 \$2,249,000 \$2,442,000 \$2,643,000 \$2,840,000 \$3,056,000 \$3,184,000 \$3,330,000 \$3,499,000 \$3,730,000 \$4,066,000 \$4,786,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,025,000 \$2,250,000 \$2,443,000 \$2,646,000 \$2,846,000 \$3,068,000 \$3,201,000 \$3,354,000 \$3,544,000 \$3,792,000 \$4,171,000 \$5,128,000
Expected	\$2,009,000	\$689,000	\$2,698,000	\$19,000	\$2,717,000
Students	377,140				
Cost Per Student	\$5.33	\$1.83	\$7.15	\$0.05	\$7.20

Percentiles based on combined distributions for small and large losses Aggregate small losses modeled using a lognormal distribution Large claim size modeled using an inverse Weibull distribution Large claim counts modeled using a Poisson Distribution

 $\begin{array}{ccc} & & \underline{Lognormal} \\ Mu = & 14.08892 \\ Sigma = & 0.33 \\ \underline{Inverse~Weibull} \\ Tau = & 2.5976 \\ Theta = & 140778.3 \\ \underline{Poisson} \\ Lambda = & 6.21 \\ \end{array}$

General Liability including E&O

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

		Tra	nsformed \	/alues for R	egression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36 48 60 72	1.303 1.151 1.063 1.033 1.016 1.006	-7.2876 -7.2957 -7.3038 -7.3119 -7.3199 -7.3278	-1.1956 -1.8905 -2.7626 -3.4183 -4.1559 -5.1317	53.109 53.228 53.346 53.464 53.580 53.696	1.4296 3.5740 7.6321 11.6844 17.2715 26.3346	8.7133 13.7927 20.1778 24.9939 30.4206 37.6041	127 115 103 91 79 67 55 43 31 19	1.000 1.000 1.001 1.002 1.004 1.009 1.019 1.042 1.092 1.201 2.358
	Sum erage	-43.8467 -7.3078	-18.5547 -3.0924	320.4229 53.4038	67.9262 11.3210	135.7024 22.6171		

N =	6	
A = 2	.863E+304	
B =	96.354	$R^2 = 0.9967332$
C =	1450	

^{* -} Appendix A4 in IBNR study

Estimation of Cumulative Paid Loss Development Factors Using "The Method of Least Squares"

Mantha		Tr	Transformed Values for Regression				Fitte	ed Values
Months of Maturity	Cumulative Factors	X'	Υ'					Cumulative Factor
X	Y*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Y
12 24 36 48 60 72 84	12.186 2.607 1.523 1.227 1.066 1.027 1.011	-4.0604 -4.2485 -4.4067 -4.5433 -4.6634 -4.7707 -4.8675	2.4147 0.4744 -0.6479 -1.4821 -2.7132 -3.6126 -4.5203	16.487 18.050 19.419 20.642 21.748 22.759 23.693	5.8306 0.2251 0.4198 2.1965 7.3615 13.0506 20.4327	-9.8046 -2.0155 2.8550 6.7335 12.6529 17.2344 22.0025	127 115 103 91 79 67 55 43 31 19	1.001 1.002 1.004 1.008 1.016 1.038 1.097 1.280 1.935 4.836 26.252
	Sum erage	-31.5606 -4.5087	-10.0869 -1.4410	142.7976 20.3997	49.5168 7.0738	49.6582 7.0940		

N =	7	
A =	4.912E+15	
В =	8.333	$R^2 = 0.9956799$
C =	46	

^{* -} Appendix A5 from IBNR study

General Liability including E&O

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

		Tra	nsformed \	/alues for F	Regression		Fitte	ed Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36	1.061 1.007 1.001	-6.4003 -6.4200 -6.4394	-2.7930 -4.9583 -7.1237	40.963 41.216 41.465	7.8008 24.5847 50.7467	17.8759 31.8322 45.8718	127 115 103 91 79 67 55 43 31 19	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.002 1.017 1.882
	Sum erage	-19.2596 -6.4199	-14.8750 -4.9583	123.6449 41.2150	83.1322 27.7107	95.5799 31.8600		

N =	3	
A = 5	.030E+306	
В =	110.776	$R^2 = 0.999968$
C =	590	

^{* -} Appendix A6 from IBNR study

General Liability including E&O

U.S. Claims Cost Index General Liability

(B)	(C)	(D)	(E)	(F)
				Trend
	Annual			Factor
		Accident	Interpolated	to
Index	Increase	Period	Index	7/1/18-19
100 0	4 9%			
		7/1/07-08	111.1	1.366
				1.326
118.5	2.3%	7/1/09-10	117.1	1.296
122.8	3.7%	7/1/10-11	120.7	1.258
126.7	3.2%	7/1/11-12	124.8	1.216
129.9	2.5%	7/1/12-13	128.3	1.183
133.5	2.8%	7/1/13-14	131.7	1.152
137.4	2.9%	7/1/14-15	135.5	1.121
142.3	3.6%	7/1/15-16	139.8	1.086
146.0	2.6%	7/1/16-17	144.2	1.053
149.8	2.6%	7/1/17-18	147.9	1.026
153.8	2.6%	7/1/18-19	151.8	1.000
	100.0 104.4 109.0 113.2 115.7 118.5 122.8 126.7 129.9 133.5 137.4 142.3 146.0 149.8	100.0 4.9% 104.4 4.3% 109.0 4.5% 113.2 3.8% 115.7 2.3% 118.5 2.3% 122.8 3.7% 126.7 3.2% 129.9 2.5% 133.5 2.8% 137.4 2.9% 142.3 3.6% 146.0 2.6% 149.8 2.6%	Index Percent Increase Accident Period 100.0 4.9% 104.4 4.3% 109.0 4.5% 113.2 3.8% 7/1/07-08 115.7 2.3% 7/1/08-09 118.5 2.3% 7/1/09-10 122.8 3.7% 7/1/10-11 126.7 3.2% 7/1/11-12 129.9 2.5% 7/1/12-13 133.5 2.8% 7/1/13-14 137.4 2.9% 7/1/14-15 142.3 3.6% 7/1/15-16 146.0 2.6% 7/1/16-17 149.8 2.6% 7/1/17-18	Index Percent Increase Accident Period Interpolated Index 100.0 4.9% 104.4 4.3% 109.0 4.5% 113.2 3.8% 7/1/07-08 111.1 115.7 2.3% 7/1/08-09 114.5 118.5 2.3% 7/1/09-10 117.1 122.8 3.7% 7/1/10-11 120.7 126.7 3.2% 7/1/11-12 124.8 129.9 2.5% 7/1/12-13 128.3 133.5 2.8% 7/1/13-14 131.7 137.4 2.9% 7/1/14-15 135.5 142.3 3.6% 7/1/15-16 139.8 146.0 2.6% 7/1/16-17 144.2 149.8 2.6% 7/1/17-18 147.9

⁽B) and (C) - Towers Watson Claim Cost Index compiled by Jeremy Pecora, FCAS, MAAA

^{* -} numbers are preliminary

^{** -} future trend estimated based on latest year

⁽E) - Linear interpolation of column (B)

⁽F) - [(E), forecast period] / [(E), current period]

Automobile Physical Damage Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Claims that Develop and Trend over \$100,000
Exhibit III	Ultimate Losses Limited to \$100,000 Ultimate Losses Limited to \$250,000
Exhibit IV	Forecast Losses Limited to \$100,000 Forecast Losses Limited to \$250,000
Exhibit V	Total Claim Frequency
Exhibit VI	Forecast Ultimate Losses
Exhibit VII	Results of Monte Carlo Simulation Forecast Losses for Various Layers
Appendix A	Loss Development Factors
Appendix B	Trend Factors



Summary of Loss and Exposure Data Total Experience Net of Member Deductibles

(A)	(B)	(C)	(D)	(E)	(F)			(G)	(H)
						Expense	Expense		
Accident	Evaluation	Maturity	Total	Loss	Loss	and Legal	and Legal	Total	
Period	Date	(months)	Claims	Payment	Reserve	Payment	Reserve	Reported	Vehicles
7/1/07-08	1/31/2018	127	64	\$432.080	\$0	\$31,825	\$0	\$463.905	5,440
7/1/08-09	1/31/2018	115	69	\$276,177	\$0	\$21,296	\$0	\$297,473	5,182
7/1/09-10	1/31/2018	103	85	\$386,193	\$0	\$11,344	\$0	\$397,536	5,887
7/1/10-11	1/31/2018	91	91	\$293,235	\$0	\$8,269	\$0	\$301,504	6,443
7/1/11-12	1/31/2018	79	87	\$350,658	\$0	\$14,397	\$0	\$365,056	5,902
7/1/12-13	1/31/2018	67	93	\$484,378	\$0	\$24,102	\$0	\$508,479	6,210
7/1/13-14	1/31/2018	55	74	\$456,649	\$0	\$18,975	\$0	\$475,624	6,847
7/1/14-15	1/31/2018	43	138	\$696,854	\$0	\$37,902	\$0	\$734,755	8,572
7/1/15-16	1/31/2018	31	114	\$583,038	\$1,656	\$33,163	\$9,710	\$627,566	9,173
7/1/16-17	1/31/2018	19	132	\$647,930	\$12,428	\$40,461	\$294	\$701,114	9,781
7/1/17-18	1/31/2018	7	76	\$631,040	\$87,418	\$17,020	\$6,489	\$741,968	10,013
7/1/18-19									10,046
			1023	\$5,238,232	\$101,502	\$258,754	\$16,492	\$5,614,980	89,495

⁻ Losses and Exposures for Current Members

⁻ Claims combined into occurrences; Excludes closed claims with no payments

Large Claim Listing
Claims Exceeding Threshold after Development and Trend

P625-16-938 94879	7/1/14-15 7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	12/3/2014 5/23/2016 1/11/2018 of Property Clai	Paid Pure Losses \$125,772 \$157,500 \$310,975	### Incurred Pure Losses ### \$125,772 ### \$157,500 ### \$319,100	Severity Factor 1.004 1.012 1.022	1.060 1.042 1.042	Loss After Development & Trend \$133,807 \$166,056 \$339,556
Occ# ADP only claims of 92831 P625-16-938 94879	over \$100,000 7/1/14-15 7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	12/3/2014 5/23/2016 1/11/2018 of Property Clai	\$125,772 \$157,500 \$310,975	\$125,772 \$157,500 \$319,100	1.004 1.012	1.060 1.042	\$133,807 \$166,056
ADP only claims of 92831 P625-16-938 94879	over \$100,000 7/1/14-15 7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	12/3/2014 5/23/2016 1/11/2018 of Property Clai	\$125,772 \$157,500 \$310,975	\$125,772 \$157,500 \$319,100	1.004 1.012	1.060 1.042	\$133,807 \$166,056
92831 P625-16-938 94879	7/1/14-15 7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	12/3/2014 5/23/2016 1/11/2018 of Property Clai	\$157,500 \$310,975	\$157,500 \$319,100	1.012	1.042	\$166,056
92831 P625-16-938 94879	7/1/14-15 7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	12/3/2014 5/23/2016 1/11/2018 of Property Clai	\$157,500 \$310,975	\$157,500 \$319,100	1.012	1.042	\$166,056
P625-16-938 94879	7/1/15-16 7/1/17-18 r APD portion 7/1/07-08	5/23/2016 1/11/2018 of Property Clai	\$157,500 \$310,975	\$157,500 \$319,100	1.012	1.042	\$166,056
94879	7/1/17-18 r APD portion 7/1/07-08	1/11/2018	\$310,975	\$319,100			
	7/1/07-08		ms over \$250.00				
	7/1/07-08		ms over \$250.00				
Loss amounts for		41010000	, 	0			
0017		4/9/2008	\$19,325	\$19,325	1.000	1.273	\$24,607
0022	7/1/07-08	6/1/2008	\$33,994	\$33,994	1.000	1.273	\$43,285
02283	7/1/07-08	5/10/2008	\$0	\$0	1.000	1.273	\$0
0026	7/1/08-09	1/27/2009	\$2,844	\$2,844	1.000	1.200	\$3,412
	7/1/08-09	4/25/2009	\$940	\$940	1.000	1.200	\$1,128
0034	7/1/08-09	5/13/2009	\$4,150	\$4,150	1.000	1.200	\$4,978
	7/1/08-09	6/11/2009	\$15,704	\$15,704	1.000	1.200	\$18,838
0041	7/1/09-10	5/10/2010	\$73,111	\$73,111	1.000	1.137	\$83,141
0050	7/1/10-11	5/24/2011	\$24,126	\$24,126	1.000	1.117	\$26,944
	7/1/11-12	11/7/2011	\$7,881	\$7,881	1.000	1.104	\$8,701
0052	7/1/12-13	4/26/2013	\$12,185	\$12,185	1.000	1.096	\$13,350
	7/1/12-13	5/30/2013	\$23,160	\$23,160	1.000	1.096	\$25,375
	7/1/12-13	7/14/2012	\$86,817	\$86,817	1.000	1.096	\$95,119
91393	7/1/12-13	7/16/2012	\$29,117	\$29,117	1.000	1.096	\$31,901
	7/1/14-15	3/25/2015	\$22,357	\$22,357	1.004	1.060	\$23,785
	7/1/14-15	5/6/2015	\$0	\$0	1.004	1.060	\$0
	7/1/14-15	3/31/2015	\$4,354	\$4,354	1.004	1.060	\$4,632
0060	7/1/16-17	7/14/2016	\$5,607	\$5,607	1.041	1.026	\$5,984
0064	7/1/16-17	5/27/2017	\$40,779	\$40,779	1.041	1.026	\$43,518
			\$406,450	\$406,450			\$458,697

Estimation of Ultimate Losses Limited to \$100,000 At the Forecast Loss Level

	(A)	(B)	(C)	(D)	(E)	(F)
		Excess	Limited	Trend	Reported	
Accident	Reported	Reported	Reported	Factor to	Develop.	Ultimate
Period	Losses	Losses	Losses	7/1/18-19	Factor	Loss
7/1/07-08	\$463,905	\$53,319	\$410,586	1.273	1.000	\$523,000
7/1/08-09	\$297,473	\$23,638	\$273,836	1.200	1.000	\$328,000
7/1/09-10	\$397,536	\$73,111	\$324,425	1.137	1.000	\$369,000
7/1/10-11	\$301,504	\$24,126	\$277,378	1.117	1.000	\$310,000
7/1/11-12	\$365,056	\$7,881	\$357,175	1.104	1.000	\$394,000
7/1/12-13	\$508,479	\$151,278	\$357,201	1.096	1.000	\$391,000
7/1/13-14	\$475,624	\$0	\$475,624	1.079	1.000	\$513,000
7/1/14-15	\$734,755	\$52,482	\$682,273	1.060	1.004	\$726,000
7/1/15-16	\$627,566	\$57,500	\$570,066	1.042	1.012	\$601,000
7/1/16-17	\$701,114	\$46,386	\$654,728	1.026	1.041	\$699,000
7/1/17-18	\$741,968	\$219,100	\$522,868	1.013	1.897	\$1,005,000
Total	\$5,614,980	\$708,822	\$4,906,158			\$5,859,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) = (A) - (B)

⁽D) - Appendix B

⁽E) - Appendix A

⁽F) = (C) * (D) * (E)

Estimation of Ultimate Losses Limited to \$250,000 At the Forecast Loss Level

	(A)	(B)	(C)	(D)	(E)	(F)
		Excess	Limited	Trend	Reported	
Accident	Reported	Reported	Reported	Factor to	Develop.	Ultimate
Period	Losses	Losses	Losses	7/1/18-19	Factor	Loss
7/1/07-08	\$463,905	\$53,319	\$410,586	1.273	1.000	\$523,000
7/1/08-09	\$297,473	\$23,638	\$273,836	1.200	1.000	\$328,000
7/1/09-10	\$397,536	\$73,111	\$324,425	1.137	1.000	\$369,000
7/1/10-11	\$301,504	\$24,126	\$277,378	1.117	1.000	\$310,000
7/1/11-12	\$365,056	\$7,881	\$357,175	1.104	1.000	\$394,000
7/1/12-13	\$508,479	\$151,278	\$357,201	1.096	1.000	\$391,000
7/1/13-14	\$475,624	\$0	\$475,624	1.079	1.000	\$513,000
7/1/14-15	\$734,755	\$26,711	\$708,045	1.060	1.004	\$753,000
7/1/15-16	\$627,566	\$0	\$627,566	1.042	1.012	\$662,000
7/1/16-17	\$701,114	\$46,386	\$654,728	1.026	1.041	\$699,000
7/1/17-18	\$741,968	\$69,100	\$672,868	1.013	1.897	\$1,293,000
Total	\$5,614,980	\$475,550	\$5,139,430			\$6,235,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) = (A) - (B)

⁽D) - Appendix B

⁽E) - Appendix A

⁽F) = (C) * (D) * (E)

Page 1

Calculation of Forecast Losses Limited to \$100,000

(A)	(B)	(C)	(D)	(E)	(F)
	Trended				
	Ultimate		Exposure		
Accident	Net	Exposures	Trend	Trended	Loss
Period	Losses	(Vehicles)	Factors	Exposures	Rate
7/1/07-08	\$523,000	5,440	1.000	5,440	\$96.14
7/1/08-09	\$328,000	5,182	1.000	5,182	\$63.30
7/1/09-10	\$369,000	5,887	1.000	5,887	\$62.68
7/1/10-11	\$310,000	6,443	1.000	6,443	\$48.11
7/1/11-12	\$394,000	5,902	1.000	5,902	\$66.75
7/1/12-13	\$391,000	6,210	1.000	6,210	\$62.97
7/1/13-14	\$513,000	6,847	1.000	6,847	\$74.93
7/1/14-15	\$726,000	8,572	1.000	8,572	\$84.70
7/1/15-16	\$601,000	9,173	1.000	9,173	\$65.52
7/1/16-17	\$699,000	9,781	1.000	9,781	\$71.47
7/1/17-18	\$1,005,000	10,013	1.000	10,013	\$100.37
Total	\$5,859,000	79,449		79,449	\$73.74

	<u>7/1/18-19</u>
(1) Selected Loss Rate { Average of 13-14 through 16-17 }	\$74.15
(2) Forecast Exposures { Members purchasing \$100,000 limits }	2,513
(3) Forecast Losses { Line (1) x Line (2) }	\$186,000

Column (B) - Column (F) in Exhibit III, page 1

Column (C) - Exhibit I

Column (D) - N/A

Column (E) = (C) * (D)

Column (F) = (B) / (E)

Calculation of Forecast Losses Limited to \$250,000

(A)	(B)	(C)	(D)	(E)	(F)
	Trended				
	Ultimate		Exposure		
Accident	Net	Exposures	Trend	Trended	Loss
Period	Losses	(Vehicles)	Factors	Exposures	Rate
7/1/07-08	\$523,000	5,440	1.000	5,440	\$96.14
7/1/08-09	\$328,000	5,182	1.000	5,182	\$63.30
7/1/09-10	\$369,000	5,887	1.000	5,887	\$62.68
7/1/10-11	\$310,000	6,443	1.000	6,443	\$48.11
7/1/11-12	\$394,000	5,902	1.000	5,902	\$66.75
7/1/12-13	\$391,000	6,210	1.000	6,210	\$62.97
7/1/13-14	\$513,000	6,847	1.000	6,847	\$74.93
7/1/14-15	\$753,000	8,572	1.000	8,572	\$87.85
7/1/15-16	\$662,000	9,173	1.000	9,173	\$72.17
7/1/16-17	\$699,000	9,781	1.000	9,781	\$71.47
7/1/17-18	\$1,293,000	10,013	1.000	10,013	\$129.13
Total	\$6,235,000	79,449		79,449	\$78.48

	<u>7/1/18-19</u>
(1) Selected Loss Rate { Average of 13-14 through 16-17 }	\$76.60
(2) Forecast Exposures { Members purchasing \$250,000 limits }	7,533
(3) Forecast Losses { Line (1) x Line (2) }	\$577,000

Column (B) - Column (F) in Exhibit III, Page 2

Column (C) - Exhibit I

Column (D) - N/A

Column (E) = (C) * (D)

Column (F) = (B) / (E)

Projected Claim Frequency for 7/1/18-19

(A)	(B)	(C)	(D)	(E)	(F) Frequency
Accident	Number of		Ultimate	Exposures	per 1,000
Period	Occurrences	CCDF	Occurrences	(Vehicles)	Vehicles
'					
7/1/07-08	61	1.000	61.0	5,440	11.2
7/1/08-09	65	1.000	65.0	5,182	12.5
7/1/09-10	84	1.000	84.0	5,887	14.3
7/1/10-11	90	1.000	90.0	6,443	14.0
7/1/11-12	86	1.000	86.0	5,902	14.6
7/1/12-13	92	1.000	92.0	6,210	14.8
7/1/13-14	74	1.000	74.0	6,847	10.8
7/1/14-15	138	1.000	138.0	8,572	16.1
7/1/15-16	114	1.000	114.0	9,173	12.4
7/1/16-17	132	1.000	132.0	9,781	13.5
7/1/17-18	76	1.857	141.1	10,013	14.1
Total	1,012		1,077.1	79,449	13.6

Selected Frequency 13.4 { Five year average }

10,046

Forecast Number of Occurrences 134.5

Forecast Exposure

(F) = (D) / (E) * 1,000

⁽B) - Exhibit I

⁽C) - Appendix A

⁽D) - (B) * (C)

⁽E) = Exhibit I

Forecast Ultimate Losses for Total Experience Net of Member Deductibles

	Vehicles	Loss Rate	Forecast Losses
Limited to \$100,000 Limited to \$250,000	2,513 7,533	\$74.15 \$76.60	\$186,000 \$577,000
Total	10,046	\$75.95	\$763,000

⁻ From Exhibit IV, page 1 for limited to \$100,000

⁻ From Exhibit IV, page 2 for limited to \$250,000

Distribution of Forecast Losses for 7/1/18-19 Limited to \$100,000 and \$250,000

	Net
	Ultimate
	Limited
Percentile	Losses
25.0%	\$630,000
30.0%	\$650,000
35.0%	\$680,000
40.0%	\$700,000
45.0%	\$720,000
50.0%	\$750,000
55.0%	\$770,000
60.0%	\$800,000
65.0%	\$820,000
70.0%	\$850,000
75.0%	\$880,000
80.0%	\$920,000
85.0%	\$960,000
90.0%	\$1,020,000
95.0%	\$1,120,000
Evnoatod	¢762,000
Expected	\$763,000

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

		Tra	nsformed V	alues for Re	egression		Fitte	d Values
Months of Maturity X	Cumulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
12 24 36	1.078 1.027 1.007	-6.8156 -6.8287 -6.8416	-2.5447 -3.6067 -4.9618	46.453 46.631 46.808	6.4755 13.0086 24.6199	17.3437 24.6294 33.9470	127.0 115.0 103.0 91.0 79.0 67.0 55.0 43.0 31.0 19.0 7.0	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.004 1.012 1.041 1.897
	Sum erage	-20.4860 -6.8287	-11.1133 -3.7044	139.8920 46.6307	44.1040 14.7013	75.9202 25.3067		

N =	3		
A = 1	.920E+274		
B =	93.029	R^2 =	0.99459
C =	900		

⁻ Based on Property and APD development limited to \$250,000

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

	Tr	ansformed V	alues for R	egression		Fitte	d Values
Months of Cumul Maturity Fact X	ors X'	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y
Sum Average						127.0 115.0 103.0 91.0 79.0 67.0 55.0 43.0 31.0 19.0	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.857

N =	0	
A =		
B =	F	R^2 =
C =	0	

^{* -} judgmentally selected

U.S. Claims Cost Index Auto Physical Damage

(F)	(E)	(D)	(C)	(B)	(A)
Trend				Auto	
Factor			Annual	Physical	
to	Interpolated	Accident	Percent	Damage	
7/1/18-19	Index	Period	Increase	Index	Year
			5.9%	100.0	2005
			2.4%	102.4	2006
			2.7%	105.1	2007
1.273	106.5	7/1/07-08	2.6%	107.9	2008
1.200	113.1	7/1/08-09	9.6%	118.2	2009
1.137	119.3	7/1/09-10	1.7%	120.3	2010
1.117	121.4	7/1/10-11	1.9%	122.6	2011
1.104	122.8	7/1/11-12	0.4%	123.1	2012
1.096	123.8	7/1/12-13	1.2%	124.5	2013
1.079	125.7	7/1/13-14	1.9%	126.9	2014
1.060	127.9	7/1/14-15	1.6%	129.0	2015
1.042	130.2	7/1/15-16	1.9%	131.4	2016
1.026	132.2	7/1/16-17	1.3%	133.1	2017*
1.013	133.9	7/1/17-18	1.3%	134.8	2018**
1.000	135.6	7/1/18-19	1.3%	136.5	2019**
	133.9	7/1/17-18	1.3%	134.8	2018**

⁽B) and (C) - Towers Watson Claim Cost Index compiled by Jeremy Pecora, FCAS, MAAA

^{* -} numbers are preliminary

^{** -} Future years estimated to be the same as latest year

⁽C) = [(B) / (B, prior)] - 1

⁽E) - Linear interpolation of column (B)

⁽F) - [(E), forecast period] / [(E), current period]

Property Exhibits

The "Analysis" section of this report presents a discussion of the following exhibits:

Exhibit I	Summary of Experience
Exhibit II	Claims that Develop and Trend over \$250,000
Exhibit III	Ultimate Small Losses
Exhibit IV	Forecast Losses Less than \$250,000
Exhibit V	Total Claim Frequency
Exhibit VI	Forecast Ultimate Losses
Exhibit VII	Results of Monte Carlo Simulation Forecast Losses for Various Layers
Appendix A	Loss Development Factors
Appendix B	Trend Factors



Summary of Loss Data as of January 31, 2018 Total Experience Net of Deductibles

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
			Reported	• •			Expense	Expense	Total	. ,
Accident	Evaluation	Maturity	Total	Deductibles	Loss	Loss	and Legal	and Legal	Reported	Total Insured
Period	Date	(months)	Claims	Paid	Payment	Reserve	Payment	Reserve	Excl. Ded.	Value
7/1/04-05	1/31/2018	163	61	\$234,500	\$815,362	\$0	\$45,289	\$0	\$860,651	\$2,423,646,308
7/1/05-06	1/31/2018	151	99	\$382,500	\$2,027,935	\$0	\$96,104	\$0	\$2,124,040	\$3,376,377,599
7/1/06-07	1/31/2018	139	130	\$807,500	\$4,620,316	\$0	\$117,859	\$0	\$4,738,175	\$4,460,074,412
7/1/07-08	1/31/2018	127	129	\$822,500	\$12,601,529	\$0	\$141,628	\$0	\$12,743,156	\$4,898,581,629
7/1/08-09	1/31/2018	115	101	\$830,000	\$11,229,785	\$0	\$131,118	\$0	\$11,360,903	\$5,131,707,580
7/1/09-10	1/31/2018	103	132	\$858,500	\$13,461,916	\$0	\$178,154	\$0	\$13,640,070	\$5,471,205,419
7/1/10-11	1/31/2018	91	143	\$703,500	\$21,630,099	\$0	\$24,204	\$0	\$21,654,302	\$5,816,648,831
7/1/11-12	1/31/2018	79	122	\$295,000	\$2,423,072	\$0	\$43,823	\$0	\$2,466,895	\$5,506,779,330
7/1/12-13	1/31/2018	67	112	\$510,000	\$4,352,946	\$0	\$11,525	\$0	\$4,364,471	\$5,656,200,094
7/1/13-14	1/31/2018	55	119	\$242,500	\$4,021,865	\$0	\$32,448	\$0	\$4,054,313	\$7,470,150,005
7/1/14-15	1/31/2018	43	144	\$760,000	\$3,197,190	\$0	\$64,074	\$0	\$3,261,263	\$7,335,441,810
7/1/15-16	1/31/2018	31	101	\$662,500	\$4,426,529	\$132,024	\$109,445	\$6,257	\$4,674,255	\$7,725,620,317
7/1/16-17	1/31/2018	19	134	\$802,500	\$5,158,495	\$3,116,676	\$112,641	\$39,609	\$8,427,421	\$8,605,570,318
7/1/17-18	1/31/2018	7	72	\$361,000	\$1,028,490	\$6,029,561	\$16,927	\$97,433	\$7,172,412	\$9,011,886,407
7/1/18-19							. ,	. ,	,	\$9,053,414,500
			1,599	\$8,272,500	\$90,995,529	\$9 278 261	\$1 125 238	\$143,299	\$101,542,327	\$91,943,304,558

⁻ Losses and Exposures for Current Members as of 1/31/2018

⁻ Claims combined into occurrences; Excludes closed claims with no payments

Claims that Exceed \$250,000 After Development and Trend As of January 31, 2018

0"			D ·	P	Se	T	0 4
Occ # Or date	Loss Date	Deductible	Pure Losses	Pure Losses	Severity Factor	Trend Factor	& trended Gross Loss
0003	7/4/2005	\$10,000	\$498,691	\$498,691	1.000	1.415	\$719,606
01070	4/1/2006	\$10,000	\$249.726	\$249.726	1.000	1.415	\$367.414
01069	4/9/2006	\$2,500	\$196,964	\$196,964	1.000	1.415	\$282,166
0010	1/13/2007	\$82,500	\$552,070	\$552,070	1.000	1.359	\$862,270
01446	1/14/2007	\$2,500	\$2,391,851	\$2,391,851	1.000	1.359	\$3,253,508
01603	4/1/2007	\$2,500	\$450,156	\$450,156	1.000	1.359	\$615,081
0014	5/26/2007	\$50,000	\$165,938	\$165,938	1.000	1.359	\$293,422
01932	10/20/2007	\$2,500	\$4,417,502	\$4,417,502	1.000	1.310	\$5,792,016
0017	4/9/2008	\$50,000	\$611,415	\$611,415	1.000	1.310	\$866,725
02205	4/10/2008	\$2,500	\$264,208	\$264,208	1.000	1.310	\$349,496
02283	5/10/2008	\$5,000	\$1,079,655	\$1,079,655	1.000	1.310	\$1,421,343
0020	5/22/2008	\$20,000	\$737,893	\$737,893	1.000	1.310	\$993,151
0022	6/1/2008	\$30,000	\$2,626,315	\$2,626,315	1.000	1.310	\$3,480,864
0019	6/5/2008	\$50,000	\$1,617,657	\$1,617,657	1.000	1.310	\$2,185,315
02442	8/5/2008	\$2,500	\$253,900	\$253,900 \$1,354,413	1.000	1.257	\$322,409 \$1,729,245
0024	11/5/2008	\$20,000	\$1,354,413	\$1,354,413	1.000	1.257	\$1,728,245 \$374,417
0026 0027	1/27/2009 2/10/2009	\$25,000 \$15,000	\$272,761 \$238,343	\$272,761 \$238,343	1.000 1.000	1.257 1.257	\$374,417 \$318,564
02786	2/10/2009	\$15,000	\$2,319,259	\$238,343	1.000	1.257	\$318,564
0030	3/27/2009	\$7,500	\$2,319,239	\$2,162,396	1.000	1.257	\$2,728,518
0031	4/9/2009	\$35,000	\$855,773	\$855,773	1.000	1.257	\$1,120,095
0033	4/25/2009	\$20,000	\$240,250	\$240,250	1.000	1.257	\$327,250
0037	4/29/2009	\$25,000	\$212,817	\$212,817	1.000	1.257	\$299,040
0032	5/1/2009	\$50,000	\$1,097,400	\$1,097,400	1.000	1.257	\$1,442,788
0034	5/13/2009	\$50,000	\$452,345	\$452,345	1.000	1.257	\$631,669
0036	6/11/2009	\$45,000	\$168,166	\$168,166	1.000	1.257	\$268,044
03081	7/27/2009	\$5,000	\$304,502	\$304,502	1.000	1.188	\$367,538
03122	8/21/2009	\$2,500	\$4,975,483	\$4,975,483	1.000	1.188	\$5,911,427
0039	1/10/2010	\$27,500	\$454,634	\$454,634	1.000	1.188	\$572,542 \$724,670
0040 0041	1/30/2010	\$110,000	\$500,248 \$2,700,324	\$500,248 \$2,700,324	1.000 1.000	1.188	\$724,679 \$3,396,677
0041 0042	5/10/2010 5/13/2010	\$70,000 \$50,000	\$2,790,324 \$1,775,284	\$2,790,324 \$1,775,284	1.000 1.000	1.188 1.188	\$3,396,677 \$2,167,552
93604	6/12/2010	\$10,000	\$1,775,284	\$1,775,284	1.000	1.188	\$2,167,552
90050	8/4/2010	\$2,500	\$240,774	\$240,774	1.000	1.149	\$287,770
90336	12/30/2010	\$2,500	\$854,448	\$854,448	1.000	1.149	\$985,022
0043	2/2/2011	\$55,000	\$734,436	\$734,436	1.000	1.149	\$907,420
0044	2/3/2011	\$10,000	\$536,699	\$536,699	1.000	1.149	\$628,405
0046	2/11/2011	\$75,000	\$389,121	\$389,121	1.000	1.149	\$533,486
0048	4/14/2011	\$67,500	\$11,366,776	\$11,366,776	1.000	1.149	\$13,143,170
0050	5/23/2011	\$60,000	\$5,733,080	\$5,733,080	1.000	1.149	\$6,658,876
90999	11/7/2011	\$5,000	\$418,868	\$418,868	1.000	1.156	\$489,834
91234	4/15/2012	\$2,500	\$485,893	\$485,893	1.000	1.156	\$564,401 \$564,660
91392	7/14/2012	\$5,000 \$2,500	\$483,485	\$483,485	1.000	1.150	\$561,669 \$465,351
91393 91814	7/16/2012 4/18/2013	\$2,500 \$5,000	\$402,217 \$454,242	\$402,217 \$454,242	1.000 1.000	1.150 1.150	\$465,351 \$528,045
91814 0052	4/18/2013	\$5,000 \$35,000	\$454,242 \$990,622	\$454,242 \$990,622	1.000	1.150 1.150	\$528,045 \$1,179,277
0052 0054	5/30/2013	\$180,000	\$990,622	\$990,622	1.000	1.150	\$1,179,277
92144	11/6/2013	\$5,000	\$299,442	\$299,442	1.000	1.115	\$339,751
92546	6/28/2014	\$5,000	\$2,284,671	\$2,284,671	1.001	1.115	\$2,555,222
0055	3/25/2015	\$35,000	\$402,865	\$402,865	1.003	1.086	\$477,203
93164	4/11/2015	\$10,000	\$331,500	\$331,500	1.003	1.086	\$372,181
0056	5/6/2015	\$10,000	\$239,457	\$239,457	1.003	1.086	\$271,869
0061	5/19/2015	\$12,500	\$620,862	\$620,862	1.003	1.086	\$690,264
0063	11/17/2015	\$15,000	\$792,926	\$792,926	1.017	1.056	\$867,722
0058	4/29/2016	\$37,500	\$645,098	\$645,098	1.017	1.056	\$733,118
0059	5/9/2016	\$30,000	\$1,182,853	\$1,230,443	1.017	1.056	\$1,353,729
94123	5/13/2016	\$10,000	\$245,566	\$280,000	1.017	1.056	\$311,463
0060	7/14/2016	\$100,000	\$2,195,781	\$3,443,153	1.101	1.028	\$4,009,911
93959	8/23/2016	\$5,000	\$458,500	\$458,500	1.101	1.028	\$524,559 \$306,107
94256 94217	11/16/2016	\$50,000 \$2,500	\$0 \$347,321	\$300,000 \$361,020	1.101	1.028	\$396,107 \$411,408
94217 0064	12/19/2016 5/27/2017	\$2,500 \$70,000	\$347,321 \$345,793	\$361,020 \$1,266,115	1.101 1.101	1.028 1.028	\$411,408 \$1,512,129
0065	6/17/2017	\$10,000	\$345,793	\$1,200,115	1.101	1.028	\$1,512,129
94628	8/29/2017	\$10,000	\$302,722	\$5,344,000	1.101	1.028	\$7,370,430
P625-17-94679	9/21/2017	\$2,500	\$121,000	\$185,000	1.358	1.015	\$258,479
		7=,300	Ţ · _ · ,500	Ţ,			 ,

\$1,812,500 \$71,613,204 \$79,323,653

\$98,395,778

⁻ Loss and policy information provided by Jennifer McKenzie, Arthur J. Gallagher

Estimation of Ultimate Small Losses At the Forecast Loss Level

	(A)	(B)	(C)	(D)	(E)
					Ultimate
	Net	Reported	Trend	Reported	Net
Accident	Reported	on Large	Factor to	Develop.	on Small
Period	Losses	Losses	7/1/18-19	Factor	Claims
7/1/04-05	\$860,651	\$0	1.501	1.000	\$1,291,000
7/1/05-06	\$2,124,040	\$945,381	1.415	1.000	\$1,667,000
7/1/06-07	\$4,738,175	\$3,560,015	1.359	1.000	\$1,601,000
7/1/07-08	\$12,743,156	\$11,354,644	1.310	1.000	\$1,820,000
7/1/08-09	\$11,360,903	\$9,627,823	1.257	1.000	\$2,179,000
7/1/09-10	\$13,640,070	\$11,049,250	1.188	1.000	\$3,077,000
7/1/10-11	\$21,654,302	\$19,862,413	1.149	1.000	\$2,060,000
7/1/11-12	\$2,466,895	\$904,760	1.156	1.000	\$1,805,000
7/1/12-13	\$4,364,471	\$3,231,592	1.150	1.000	\$1,303,000
7/1/13-14	\$4,054,313	\$2,584,113	1.115	1.001	\$1,641,000
7/1/14-15	\$3,261,263	\$1,594,685	1.086	1.003	\$1,816,000
7/1/15-16	\$4,674,255	\$2,948,467	1.056	1.017	\$1,854,000
7/1/16-17	\$8,427,421	\$6,131,510	1.028	1.101	\$2,598,000
7/1/17-18	\$7,172,412	\$5,529,000	1.015	2.522	\$4,207,000
Total	\$101,542,327	\$79,323,653			\$28,919,000

⁽A) - Exhibit I

⁽B) - Exhibit II

⁽C) - Appendix B

⁽D) - Appendix A

⁽E) = (C)*(D)*[(A) - (B)]

Calculation of Forecast Losses Ground Up Losses Less Than \$250,000

(A)	(B)	(C)	(D)	(E)	(F)
	Trended		Exposure		
Accident	Ultimate	Exposures	Trend	Trended	Loss
Period	Losses	(TIV)	Factors	Exposures	Rate
7/1/04-05	\$1,291,000	\$2,423,646,308	1.314	\$3,185,713,631	\$0.041
7/1/05-06	\$1,667,000	\$3,376,377,599	1.272	\$4,296,004,858	\$0.039
7/1/06-07	\$1,601,000	\$4,460,074,412	1.235	\$5,507,762,951	\$0.029
7/1/07-08	\$1,820,000	\$4,898,581,629	1.195	\$5,853,147,471	\$0.031
7/1/08-09	\$2,179,000	\$5,131,707,580	1.175	\$6,029,064,443	\$0.036
7/1/09-10	\$3,077,000	\$5,471,205,419	1.167	\$6,387,021,612	\$0.048
7/1/10-11	\$2,060,000	\$5,816,648,831	1.140	\$6,630,844,951	\$0.031
7/1/11-12	\$1,805,000	\$5,506,779,330	1.111	\$6,118,248,420	\$0.030
7/1/12-13	\$1,303,000	\$5,656,200,094	1.092	\$6,175,327,474	\$0.021
7/1/13-14	\$1,641,000	\$7,470,150,005	1.075	\$8,032,363,899	\$0.020
7/1/14-15	\$1,816,000	\$7,335,441,810	1.066	\$7,820,197,909	\$0.023
7/1/15-16	\$1,854,000	\$7,725,620,317	1.059	\$8,179,181,283	\$0.023
7/1/16-17	\$2,598,000	\$8,605,570,318	1.041	\$8,958,663,734	\$0.029
7/1/17-18	\$4,207,000	\$9,011,886,407	1.020	\$9,192,124,135	\$0.046
Total	\$28,919,000	\$82,889,890,058		\$92,365,666,768	\$0.031

<u>7/1/18-19</u>

(1) Selected Loss Rate { Average, last five years } \$0.028

(2) Forecast Exposure { Exhibit I }

\$9,053,414,500

(3) Forecast Losses { Line (1) x Line (2) }

\$2,555,000

Column (B) - Column (E) in Exhibit III

Column (C) - Exhibit I

Column (D) - Appendix B2

Column(E) = (C) * (D)

Column (F) = (B) / (E) * 100

Property

Forecast Claim Frequency Claims over \$250,000

(A)	(B)	(C)	(D)	(E)	(F)
	Number of		Ultimate	Trended	Frequency
Accident	Large		Large	Exposures	per \$1M
Period	Claims	CCDF	Claims	(TIV)	TIV
7/1/04-05	0	1.000	0.0	\$3,185,713,631	0.0000
7/1/05-06	3	1.000	3.0	\$4,296,004,858	0.0007
7/1/06-07	4	1.000	4.0	\$5,507,762,951	0.0007
7/1/07-08	7	1.000	7.0	\$5,853,147,471	0.0012
7/1/08-09	12	1.000	12.0	\$6,029,064,443	0.0020
7/1/09-10	7	1.000	7.0	\$6,387,021,612	0.0011
7/1/10-11	7	1.000	7.0	\$6,630,844,951	0.0011
7/1/11-12	2	1.000	2.0	\$6,118,248,420	0.0003
7/1/12-13	5	1.000	5.0	\$6,175,327,474	0.0008
7/1/13-14	2	1.000	2.0	\$8,032,363,899	0.0002
7/1/14-15	4	1.000	4.0	\$7,820,197,909	0.0005
7/1/15-16	4	1.000	4.0	\$8,179,181,283	0.0005
7/1/16-17	6	1.000	6.0	\$8,958,663,734	0.0007
7/1/17-18	2	1.857	3.7	\$9,192,124,135	0.0004
Total	65		66.7	\$92,365,666,768	0.0007

7/1/18-19

Selected Frequency { All years weighted average excluding 17-18 } 0.0008

Forecast Exposure \$9,053,414,500

Forecast Claims over \$250,000 6.9

- (B) Exhibit II
- (C) Appendix A
- (D) (B) * (C)
- (E) = Exhibit IV
- (F) = (D) / (E) * 1,000,000

Forecast Claim Frequency Total Claims

(A)	(B)	(C)	(D)	(E)	(F)
(//)	(<i>D</i>)	(0)	(D)	Trended	_ ' ' '
Assident	Mussahawaf		1 114:00 040		Frequency
Accident	Number of		Ultimate	Exposures	per 1,000,000
Period	Occurrences	CCDF	Claims	(TIV)	TIV
7/1/04-05	61	1.000	61.0	\$3,185,713,631	0.019
7/1/05-06	99	1.000	99.0	\$4,296,004,858	0.023
7/1/06-07	130	1.000	130.0	\$5,507,762,951	0.024
7/1/07-08	129	1.000	129.0	\$5,853,147,471	0.022
7/1/08-09	101	1.000	101.0	\$6,029,064,443	0.017
7/1/09-10	132	1.000	132.0	\$6,387,021,612	0.021
7/1/10-11	143	1.000	143.0	\$6,630,844,951	0.022
7/1/11-12	122	1.000	122.0	\$6,118,248,420	0.020
7/1/12-13	112	1.000	112.0	\$6,175,327,474	0.018
7/1/13-14	119	1.000	119.0	\$8,032,363,899	0.015
7/1/14-15	144	1.000	144.0	\$7,820,197,909	0.018
7/1/15-16	101	1.000	101.0	\$8,179,181,283	0.012
7/1/16-17	134	1.000	134.0	\$8,958,663,734	0.015
7/1/17-18	72	1.857	133.7	\$9,192,124,135	0.015
Total	1,599		1,660.7	\$92,365,666,768	0.018

7/1/18-19

Selected Frequency { last five years }

0.015

Forecast Exposure \$9,053,414,500

Forecast Number of Claims 135.9

- (B) Exhibit I
- (C) Appendix A
- (D) (B) * (C)
- (E) = Exhibit I
- (F) = (D) / (E) * 1,000,000

Forecast Ultimate Losses for 7/1/18-19 Total Experience Net of Member Deductibles

	<u>7/1/18-19</u>
(1) Forecast Small Losses {Exhibit IV}	\$2,555,000
(2) Expected Number of claims over \$250,000: {Exhibit V}	6.9
(3) Expected Severity of Losses for Claims over \$250,000: {Derived from Losses in Exhibit II} Limited to \$250,000 Limited to \$500,000 Limited to \$1,000,000 Unlimited	\$250,000 \$465,000 \$721,000 \$1,466,000
(4) Average Deductible on Large Claims	\$28,000
(5) Projected Losses Limited to SIR { Line(1) +Line(2) * [Line (3) - Line (4)] } Limited to \$250,000 Limited to \$500,000 Limited to \$1,000,000 Unlimited (6) Cost of Corridor (capped at \$1,400,000) Line (5) Difference in \$10M and \$250,000 Capped Line (5) Difference in \$10M and \$500,000 Capped Line (5) Difference in \$10M and \$1,000,000 Capped	\$4,077,000 \$5,552,000 \$7,307,000 \$12,416,000 \$1,400,000 \$1,400,000 \$1,400,000
(7) Total Forecast Losses { Line(5) + Line(6) } \$250,000 SIR, plus Corridor	\$5,477,000
\$500,000 SIR, plus Corridor	\$6,952,000
\$1,000,000 SIR, plus Corridor	\$8,707,000
(8) Forecast Total Insured Value	\$9,053,414,500
(9) Projected Cost per \$100 TIV { Line(7) / Line(8) } \$250,000 SIR, plus Corridor \$500,000 SIR, plus Corridor \$1,000,000 SIR, plus Corridor	\$0.060 \$0.077 \$0.096
(10) Projected Total Occurrences	135.9
(11) Average Severity { Line (5) / Line (10) } Limited to \$250,000 Limited to \$500,000 Limited to \$1,000,000	\$30,000 \$40,800 \$53,700

Distribution of Forecast Losses for 7/1/18-19 With a \$250,000 SIR and \$1,400,000 Corridor

	SIR Layer	Cost of	Total	Insured	Total
	\$250,000	Corridor	Retained	Excess	Incurred
Percentile	All Perils	Ltd. \$1.4M	Losses	Losses	Losses
25.0%	\$3,420,000	\$1,400,000	\$4,800,000	\$2,110,000	\$7,340,000
30.0%	\$3,540,000	\$1,400,000	\$4,920,000	\$2,610,000	\$7,930,000
35.0%	\$3,660,000	\$1,400,000	\$5,040,000	\$3,090,000	\$8,500,000
40.0%	\$3,780,000	\$1,400,000	\$5,160,000	\$3,550,000	\$9,030,000
45.0%	\$3,890,000	\$1,400,000	\$5,280,000	\$4,100,000	\$9,620,000
50.0%	\$4,020,000	\$1,400,000	\$5,400,000	\$4,650,000	\$10,310,000
55.0%	\$4,140,000	\$1,400,000	\$5,530,000	\$5,310,000	\$10,980,000
60.0%	\$4,260,000	\$1,400,000	\$5,650,000	\$6,040,000	\$11,770,000
65.0%	\$4,380,000	\$1,400,000	\$5,770,000	\$6,890,000	\$12,630,000
70.0%	\$4,520,000	\$1,400,000	\$5,920,000	\$7,810,000	\$13,680,000
75.0%	\$4,670,000	\$1,400,000	\$6,070,000	\$9,090,000	\$14,960,000
80.0%	\$4,850,000	\$1,400,000	\$6,250,000	\$10,660,000	\$16,600,000
85.0%	\$5,050,000	\$1,400,000	\$6,450,000	\$12,750,000	\$18,750,000
90.0%	\$5,340,000	\$1,400,000	\$6,740,000	\$16,490,000	\$22,270,000
95.0%	\$5,740,000	\$1,400,000	\$7,140,000	\$21,950,000	\$27,910,000
Expected	\$4,077,000	\$1,400,000	\$5,477,000	\$6,939,000	\$12,416,000
TIV	\$9,053,414,500				
Cost Per \$100 TIV	\$0.045	\$0.015	\$0.060	\$0.077	\$0.137

Percentiles based on combined distributions for small and large losses Aggregate small losses modeled using a lognormal distribution Large claim size modeled using an inverse Weibull distribution Large claim counts modeled using a Poisson Distribution

 $\begin{array}{c} Mu = & \underline{Lognormal} \\ Mu = & 14.71436 \\ Sigma = & 0.28000 \\ \underline{Inverse \ Weibull} \\ Tau = & 1.39459 \\ Theta = & 545151.03709 \\ \underline{Poisson} \end{array}$

Lambda = 6.86

Estimation of Cumulative Reported Loss Development Factors Using "The Method of Least Squares"

		Tra	Transformed Values for Regression					ed Values
Months								
of	Cumulative							Cumulative
Maturity	Factors	Χ'	Y'					Factor
X	Υ*	LN(1/(X+C))	LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Υ
12	1.294	-4.6728	-1.2258	21.835	1.5026	5.7279	163	1.000
24	1.057	-4.7791	-2.8584	22.840	8.1704	13.6606	151	1.000
36	1.007	-4.8752	-4.9604	23.768	24.6057	24.1830	139	1.000
48	1.002	-4.9628	-6.2146	24.630	38.6214	30.8421	127	1.000
							115	1.000
							103	1.000
							91	1.000
							79	1.000
							67	1.000
							55	1.001
							43	1.003
							31	1.017
5	Sum	-19.2900	-15.2592	93.0727	72.9001	74.4137	19	1.101
	erage	-4.8225	-3.8148	23.2682	18.2250	18.6034	7	2.522

N =	4		
A =	2.236E+35		
B =	17.669	R^2 =	0.993765
C =	95		

^{* -} Property and APD unlimited loss development

Estimation of Cumulative Reported Claim Development Factors Using "The Method of Least Squares"

		Tra	nsformed V	alues for R	egression	Transformed Values for Regression				
	umulative Factors Y*	X' LN(1/(X+C))	Y' LN(Y-1)	(X')^2	(Y')^2	X' x Y'	X	Cumulative Factor Y		
Sun Avera		0.0000	0.0000	0.0000	0.0000	0.0000	163 151 139 127 115 103 91 79 67 55 43 31 19 7	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		

N =	0		
A =			
B =		R^2 =	
C =	0		

^{* -} Appendix A6 from IBNR study

U.S. Claims Cost Index

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
							Trend
		Allied	Composite	Annual			Factor
	Fire	Lines	Economic	Percent	Accident	Interpolated	to
Year	Index	Index	Index	Increase	Period	Index	7/1/18-19
	00.0	00.4	00.0				
2000	83.0	82.1	82.6	4.007			
2001	83.5	84.2	83.9	1.6%			
2002	86.7	86.0	86.4	3.0%			
2003	88.3	89.5	88.9	3.0%			
2004	92.3	93.6	93.0	4.5%			
2005	100.0	100.0	100.0	7.6%	7/1/04-05	96.5	1.501
2006	107.7	101.7	104.7	4.7%	7/1/05-06	102.3	1.415
2007	111.6	105.2	108.4	3.6%	7/1/06-07	106.5	1.359
2008	115.8	109.3	112.5	3.8%	7/1/07-08	110.5	1.310
2009	120.2	115.2	117.7	4.6%	7/1/08-09	115.1	1.257
2010	127.3	124.9	126.1	7.1%	7/1/09-10	121.9	1.188
2011	128.2	123.4	125.8	-0.3%	7/1/10-11	125.9	1.149
2012	127.2	122.3	124.8	-0.8%	7/1/11-12	125.3	1.156
2013	130.3	123.9	127.1	1.9%	7/1/12-13	125.9	1.150
2014	133.5	131.6	132.5	4.3%	7/1/13-14	129.8	1.115
2015	138.0	130.1	134.0	1.1%	7/1/14-15	133.3	1.086
2016	142.3	138.0	140.2	4.6%	7/1/15-16	137.1	1.056
2017*	144.7	138.4	141.5	1.0%	7/1/16-17	140.9	1.028
2018**	147.6	139.7	143.7	1.5%	7/1/17-18	142.6	1.015
2019**	150.6	141.1	145.9	1.5%	7/1/18-19	144.8	1.000

⁽B) and (C) - Willis Towers Watson Claim Cost Index, October 2017 Jeremy P. Pecora and Emily M. Thompson

^{* - 2017} numbers are preliminary

^{** -} future trend estimated at 2.0% for Fire and 1% for Allied Lines

⁽D) = average of BI and PD

⁽E) = [(D) / (D, prior)] - 1

⁽G) - Linear interpolation of column (D)

⁽H) - [(G), forecast period] / [(G), current period]

Derivation of Consumer Price Index Exposure Trend Factors

(A)	(B)	(C)	(D)	(E)
	0.71			Trend
	CPI	Accident	Interpolated	Factor to
Year	Index	Period	Index	7/1/18-19
1999	166.6			
2000	172.2			
2001	177.1			
2002	179.9			
2003	184.0			
2004	188.9			
2005	195.3	7/1/04-05	192.1	1.314
2006	201.6	7/1/05-06	198.5	1.272
2007	207.3	7/1/06-07	204.5	1.235
2008	215.3	7/1/07-08	211.3	1.195
2009	214.5	7/1/08-09	214.9	1.175
2010	218.1	7/1/09-10	216.3	1.167
2011	224.9	7/1/10-11	221.5	1.140
2012	229.6	7/1/11-12	227.3	1.111
2013	233.0	7/1/12-13	231.3	1.092
2014	236.7	7/1/13-14	234.8	1.075
2015	237.0	7/1/14-15	236.9	1.066
2016	240.0	7/1/15-16	238.5	1.059
2017	245.1	7/1/16-17	242.6	1.041
2018*	250.0	7/1/17-18	247.6	1.020
2019*	255.0	7/1/18-19	252.5	1.000

^{*} Forecast at 2.0% annual increase

⁽B) - based on data from the U. S. Department of Labor, Bureau of Statistics

⁽D) - Values interpolated from index in (B)

⁽E) = (D, Forecast period) / (D)