

DELAWARE COMPENSATION RATING BUREAU, INC.

Expense Study

The following exhibits are used in the development of specific expense provisions to be used in the DCRB's proposed filing. The provisions are for commission & brokerage, other acquisition, general and loss adjustment expense, premium discount and uncollectible premium.

Exhibit I of the attachment presents summary figures for standard earned premium, general expense and total production costs from the last three calendar years. The data is obtained from Financial Call #2 submissions for 2016 – 2018 for stock agency companies only, and has been adjusted to include the experience for large deductible policies.

Exhibit I-A develops standard earned premium on both net and gross bases after adjusting for large deductible policies and removing expense constant dollars.

Exhibit II shows the development of the expense constant offset that is carried forward to Exhibit I.

Exhibit III shows the calculation of the loss adjustment expense provision as a function of incurred losses. The loss adjustment expense factor is based on all-company experience and is developed from the same source of data as Exhibit I above. We selected a three-year average of loss adjustment expense ratios to direct incurred losses including large deductible losses on a gross basis.

Exhibit IV-A shows the development of an average provision for premium discount based upon the Schedule Y premium discount table. The data used by the DCRB for this purpose is Unit Statistical Plan data. This exhibit forms the basis for Exhibit IV-B, which develops the average interstate premium discount for Schedule Y companies.

Exhibit V develops the provision for uncollectible premium based on the ratio of uncollectible premium to gross written premium. The data used is courtesy of NCCI, Inc.

**EXHIBIT I**  
**STOCK AGENCY COMPANIES**

	<u>CALENDAR YEAR</u>		
	<u>2016</u>	<u>2017</u>	<u>2018</u>
(1) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Net</u> Basis <u>excluding</u> Expense Constant Dollars (Page 8.2, line (10))	\$ 167,139,174	\$ 187,282,155	\$ 188,310,834
(2) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Gross</u> Basis <u>excluding</u> Expense Constant Dollars (Page 8.2, line (11))	\$ 241,325,485	\$ 280,303,950	\$ 279,213,016
(3) Commission and Brokerage	\$ 10,715,181	\$ 11,682,997	\$ 11,442,044
(3a) Reported Ratio { (3) / (1) }	0.0641	0.0624	0.0608
(4) Other Acquisition	\$ 6,609,145	\$ 5,846,513	\$ 6,082,010
(4a) Reported Ratio { (4) / (2) }	0.0274	0.0209	0.0218
(5) General Expense	\$ 10,829,010	\$ 8,395,647	\$ 8,143,734
(5a) Reported Ratio { (5) / (2) }	0.0449	0.0300	0.0292

---

	<b>Three Year Average (1)</b>	<b>Expense Constant Income (Page 8.3) (2)</b>	<b>Difference { (1) - (2) }</b>
COMMISSION AND BROKERAGE	0.0624	0.0079	0.0545
OTHER ACQUISITION	0.0234	0.0030	0.0204
TOTAL PRODUCTION	0.0858	0.0109	0.0749
GENERAL EXPENSE	0.0347	0.0063	0.0284

**EXHIBIT I - A**  
**STOCK AGENCY COMPANIES**

	<u>CALENDAR YEAR</u>		
	<u>2016</u>	<u>2017</u>	<u>2018</u>
(1) Standard Earned Premium at DCRB DSR Level <u>including</u> Large Deductible on a <u>Net</u> Basis	\$ 123,151,577	\$ 136,167,437	\$ 139,038,854
(2) Multiplier to Bring Premium to DCRB Rate Level	1.3617	1.3793	1.3584
(3) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Net</u> Basis { (1) * (2) }	\$ 167,695,502	\$ 187,815,746	\$ 188,870,379
(4) Large Deductible Adj. at DCRB DSR Level	\$ 52,666,698	\$ 65,443,784	\$ 65,383,142
(5) Multiplier to Bring L. D. Adj. to DCRB Rate Level	1.4086	1.4214	1.3903
(6) Large Deductible Adj. at DCRB Rate Level { (4) * (5) }	\$ 74,186,311	\$ 93,021,795	\$ 90,902,182
(7) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Gross</u> Basis { (3) + (6) }	\$ 241,881,813	\$ 280,837,541	\$ 279,772,561
(8) Expense Constant Removal Factor	0.9977	0.9981	0.9980
(9) Expense Constant Dollars { (7)[1 - (8)] }	\$ 556,328	\$ 533,591	\$ 559,545
(10) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Net</u> Basis <u>excluding</u> Expense Constant Dollars { (3) - (9) }	\$ 167,139,174	\$ 187,282,155	\$ 188,310,834
(11) Standard Earned Premium at DCRB Rate Level <u>including</u> Large Deductible on a <u>Gross</u> Basis <u>excluding</u> Expense Constant Dollars { (7) - (9) }	\$ 241,325,485	\$ 280,303,950	\$ 279,213,016



**EXHIBIT III****LOSS ADJUSTMENT EXPENSE RATIOS - ALL COMPANIES**

	<u>CALENDAR YEAR</u>		
	<u>2016</u>	<u>2017</u>	<u>2018</u>
<b>(1a)</b> Allocated Loss Adjustment Expense Incurred	\$ 18,870,907	\$ 12,594,823	\$ 13,321,824
<b>(1b)</b> Unallocated Loss Adjustment Expense Incurred	\$ 12,413,709	\$ 7,077,488	\$ 7,235,589
<b>(1c)</b> Total Loss Adjustment Expense Incurred on a Net Basis{(1a) + (1b)}	\$ 31,284,616	\$ 19,672,311	\$ 20,557,413
<b>(1d)</b> ALAE Deductible Adjustment	\$ 10,115,506	\$ 10,189,694	\$ 10,460,207
<b>(1e)</b> ULAE Deductible Adjustment	\$ 17,032	\$ 14,733	\$ 164,493
<b>(1f)</b> Total Loss Adjustment Expense Incurred on a Gross Basis{(1c)+(1d)+(1e)}	\$ 41,417,154	\$ 29,876,738	\$ 31,822,113
<b>(2)</b> Incurred Losses <u>including</u> Deductibles on a <u>Net</u> Basis	\$ 121,741,654	\$ 63,437,470	\$ 54,331,023
<b>(3)</b> Deductible Adjustment (Losses)	\$ 62,213,094	\$ 45,828,707	\$ 54,759,544
<b>(4)</b> Incurred Losses <u>including</u> Deductibles on a <u>Gross</u> Basis {(2) + (3)}	\$ 183,954,748	\$ 109,266,177	\$ 109,090,567
<b>(5a)</b> Ratio of Loss Adjustment Expense to Incurred Losses <u>including</u> Deductibles on a <u>Net</u> Basis {(1c) / (2)}	0.2570	0.3101	0.3784
<b>(5b)</b> Ratio of Allocated Loss Adjustment Expense to Incurred Losses <u>including</u> Deductibles on a <u>Net</u> Basis {(1a) / (2)}	0.1550	0.1985	0.2452
<b>(6a)</b> Ratio of Loss Adjustment Expense to Incurred Losses <u>including</u> Deductibles on a <u>Gross</u> Basis {(1f) / (4)}	0.2251	0.2734	0.2858
<b>(6b)</b> Ratio of Allocated Loss Adjustment Expense to Incurred Losses <u>including</u> Deductibles on a <u>Gross</u> Basis {((1a)+(1d)) / (4)}	0.1576	0.2085	0.2180
<b>(7)</b> Three-Year Average of Loss Adjustment Expense Ratios to Direct Incurred Losses including Deductibles on a Net Basis {Line (5a)}			0.3152
<b>(8a)</b> Three-Year Average of Loss Adjustment Expense Ratios to Direct Incurred Losses including Deductibles on a Gross Basis {Line (6a)}			<b>0.2614</b>
<b>(8b)</b> Three-Year Average of Allocated Loss Adjustment Expense Ratios to Direct Incurred Losses including Deductibles on a Gross Basis {Line (6b)}			<b>0.1947</b>
<b>(8c)</b> Provision for Unallocated Loss Adjustment Expense {(8a) - (8b)}			<b>0.0667</b>

**EXHIBIT IV - A**

**SIZE OF RISKS - SCHEDULE Y COMPANIES**

**MANUAL YEAR 2017**

Intrastate Risks	Number of Risks <b>(1)</b>	Intrastate SEP excluding Loss and Expense Constant <b>(2)</b>
Under \$10,000	14,164	24,078,723
\$10,000 - \$200,000	2,438	95,607,404
\$200,000 - \$1,750,000	201	88,209,926
Over \$1,750,000	11	34,406,377
	<hr/> <hr/>	<hr/> <hr/>
TOTAL	16,814	242,302,430

**DISTRIBUTION OF PREMIUM TO DISCOUNT BLOCK**

Size of Risk	Number of Risks	First \$10,000	Next \$190,000	Next \$1,550,000	Over \$1,750,000
Under \$10,000	14,164	24,078,723			
\$10,000 - \$200,000	2,438	24,380,000	71,227,404		
\$200,000 - \$1,750,000	201	2,010,000	38,190,000	48,009,926	
Over \$1,750,000	11	110,000	2,090,000	17,050,000	15,156,377
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>
TOTAL	16,814	50,578,723	111,507,404	65,059,926	15,156,377
PERCENTAGE		20.87%	46.02%	26.85%	6.26%

**EXHIBIT IV - B**

**AVERAGE COMPANY PREMIUM DISCOUNT**

**SCHEDULE Y COMPANIES**

	Premium Distribution to Discount Block <b><u>(EXHIBIT IV - A)</u></b>	<u>Reduction from Manual</u>	<u>Weighted Reduction</u>
First \$10,000	20.87	0.0	0.00
Next \$190,000	46.02	9.1	4.19
Next \$1,550,000	26.85	11.3	3.03
Over \$1,750,000	6.26	12.3	0.77
			<hr/> <hr/>
		<b>Premium Discount =</b>	7.99
	<b>Intrastate Premium Discount</b>	7.99	
	<b>Interstate Premium Discount</b>	8.59	

**EXHIBIT V**

**DELAWARE POOL GROSS WRITTEN PREMIUM AND UNCOLLECTIBLE PREMIUM\***

Data as of 3/31/2020

<b>POLICY YEAR</b>	<b>(1) GROSS WRITTEN PREMIUM</b>	<b>(2) UNCOLLECTIBLE PREMIUM</b>	<b>(3)=(2)/(1) RATIO</b>
2009	7,534,777	48,615	0.65%
2010	6,971,475	218,938	3.14%
2011	10,743,905	73,045	0.68%
2012	15,490,200	121,840	0.79%
2013	22,238,637	565,778	2.54%
2014	17,272,716	169,944	0.98%
2015	17,968,805	132,716	0.74%
2016	16,600,638	412,729	2.49%
2017	15,644,595	455,944	2.91%
2018	13,715,423	344,974	2.52%
		All Year Average	1.74%
		Five Year Average	1.93%
		Three Year Average	2.64%
		Selected	2.30%

\* Data courtesy of NCCI, Inc.  
Excludes Audit Noncompliance Charge premium