DELAWARE COMPENSATION RATING BUREAU, INC.

Review of Experience Rating Plan Parameters

Page 20.1 contains Collectible Premium Ratios.

Page 20.2 contains Expected Loss Cost Factors. They are applied to residual market rates by classification to produce Table A, Expected Loss Factors, which are the basis for the calculation of Expected Losses.

Page 20.3 contains the derivation of various factors, i.e. maximum single loss size, self-rating point, that are used to produce Table B.



COLLECTIBLE PREMIUM RATIOS *

Manual Years 2014 to 2016 Market Profile Report Data

			Collectible						
Manual	Premium at	Collected Premium	Premium						
Year	Manual Rates	(Excluding Constants)	Ratio (2)/(3)						
(1)	(2)	(3)	(4)						
	٨١١	INDUSTRIES							
	ALL	INDUSTRIES							
2014	258,211,562	260,286,052	0.9920						
2015	247,095,158	259,025,925	0.9539						
2016	286,601,879	297,368,719	0.9638						
TOTAL	791,908,599	816,680,696	0.9697						
MANUFACTURING AND UTILITIES									
	MANUFACT	ORING AND OTILITIES							
2014	34,335,697	31,534,717	1.0888						
2015	33,641,793	30,869,674	1.0898						
2016	35,919,716	32,826,790	1.0942						
TOTAL	103,897,207	95,231,181	1.0910						
CONTRACTING AND QUARRYING									
	CONTRACTI	INO AND QUARRYING							
2014	50,143,592	47,541,230	1.0547						
2015	48,303,173	46,969,170	1.0284						
2016	57,816,413	55,135,715	1.0486						
TOTAL	156,263,179	149,646,115	1.0442						
	OTHE	R INDUSTRIES							
	OTTIE	IN INDUSTRIES							
2014	173,732,273	181,210,105	0.9587						
2015	165,150,191	181,187,081	0.9115						
2016	192,865,750	209,406,215	0.9210						
TOTAL	531,748,213	571,803,400	0.9299						

^{*} Excludes classifications and coverages not subject to experience rating.

EXPECTED LOSS RATE FACTORS

CALCULATION OF EXPECTED LOSS RATE FACTORS

Policy Year Beginning 12/1	Average Law Multiplier	Adjustment Factor	Loss Ratio Development Factor	Expense Allowance * 1 / (PLR/CPR)	Trend Factor	Product (2) * (3) * (4) * (5) * (6)	Expected Loss Rate Factor 1.0 / (7)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Manufacturing and Utilities										
2013	0.9236	1.0000	1.6885	1.8688	1.2960	3.7771	0.2648			
2014	0.9614	1.0000	1.7518	1.8688	1.2139	3.8206	0.2617			
2015	0.9849	1.0000	2.5313	1.8688	1.1375	5.2997	0.1887			
Contracting and Quarrying										
2013	0.9236	1.0000	1.5963	1.7886	1.2960	3.4176	0.2926			
2014	0.9614	1.0000	1.8923	1.7886	1.2139	3.9499	0.2532			
2015	0.9849	1.0000	2.5263	1.7886	1.1375	5.0622	0.1975			
Other Industries										
2013	0.9236	1.0000	1.6005	1.5928	1.2960	3.0514	0.3277			
2014	0.9614	1.0000	1.8439	1.5928	1.2139	3.4276	0.2917			
2015	0.9849	1.0000	2.3951	1.5928	1.1375	4.2739	0.2340			
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0.5838

* Permissible Loss Ratio = Collectible Premium Ratios

Manufacturing = 1.0910 Contracting = 1.0442 All Other = 0.9299

Experience Rating Plan Parameters

(1) Eligibility Point = (3,161 = 1 yr Prem)3 yr =\$9,483 (2) Permissible Loss Ratio = 0.6020 (a) (3) Expected Losses needed to achieve 5% credibility (1) * (2) = \$9,483 * 0.6020 =\$5,709 \$28,545 0.25 * \$5,709 = (4) Max Value: 0.05 K-Value (5) a) If (3) is assigned 5% credibility, then K = E * (1 - c) =\$5,709 * (1 - .05) \$108,471 .05 С (6) .055 Credibility Interval - the .0525 left endpoint \$108,471 * .0525 = corresponds to E = (K * C) =\$6,010 .9475 (1 - C)Right endpoint for .05 credibility interval = \$6,009 (7) (8) Self rating point = 25 * average serious claim = 25 * \$304,144 = \$7,603,600 6% of (8) rounded to the nearest \$1,000 = \$456,000 Selected = \$456,000

(a) Standard LR / CPR = Manual LR

0.5838 / 0.9697 = 0.6020

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