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 2013 to 2015 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 | | | | | | | |
| 2013 | 225,449,562 | 241,632,020 | 0.9330 | | | | | | |
| 2014 | 252,084,702 | 257,069,149 | 0.9806 | | | | | | |
| 2015 | 243,347,982 | 257,522,319 | 0.9450 | | | | | | |
| | | | | | | | | | |
| TOTAL | 720,882,247 | 756,223,487 | 0.9533 | | | | | | |
| | | | | | | | | | |
| MANUFACTURING AND UTILITIES | | | | | | | | | |
| | WANUFACT | ORING AND OTILITIES | | | | | | | |
| 2013 | 28,370,800 | 27,292,576 | 1.0395 | | | | | | |
| 2014 | 35,149,978 | 34,503,031 | 1.0188 | | | | | | |
| 2015 | 39,120,220 | 38,025,991 | 1.0288 | | | | | | |
| | | | | | | | | | |
| TOTAL | 102,640,998 | 99,821,597 | 1.0282 | | | | | | |
| | $\overline{}$ | | | | | | | | |
| CONTRACTING AND QUARRYING | | | | | | | | | |
| | CONTINOT | INO AND GOARRAING | | | | | | | |
| 2013 | 42,020,839 | 41,355,911 | 1.0161 | | | | | | |
| 2014 | 48,967,719 | 46,492,736 | 1.0532 | | | | | | |
| 2015 | 45,603,488 | 44,844,625 | 1.0169 | | | | | | |
| | | | | | | | | | |
| TOTAL | 136,592,047 | 132,693,273 | 1.0294 | | | | | | |
| | | | | | | | | | |
| | OTHE | ER INDUSTRIES | | | | | | | |
| | OTTIL | IN INDUSTRIES | | | | | | | |
| 2013 | 155,057,923 | 172,983,533 | 0.8964 | | | | | | |
| 2014 | 167,967,005 | 176,073,381 | 0.9540 | | | | | | |
| 2015 | 158,624,274 | 174,651,703 | 0.9082 | | | | | | |
| | | | | | | | | | |
| TOTAL | 481,649,202 | 523,708,617 | 0.9197 | | | | | | |

^{*} 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 | | | | | | | | | | |
| 2012 | 0.9338 | 1.0000 | 1.6642 | 1.8198 | 1.3812 | 3.9061 | 0.2560 | | | |
| 2013 | 0.9726 | 1.0000 | 1.9104 | 1.8198 | 1.2739 | 4.3074 | 0.2322 | | | |
| 2014 | 1.0017 | 1.0000 | 2.4064 | 1.8198 | 1.1751 | 5.1547 | 0.1940 | | | |
| | | | | | | | | | | |
| Contracting and Quarrying | | | | | | | | | | |
| 2012 | 0.9338 | 1.0000 | 1.7233 | 1.8219 | 1.3812 | 4.0494 | 0.2470 | | | |
| 2013 | 0.9726 | 1.0000 | 1.8459 | 1.8219 | 1.2739 | 4.1668 | 0.2400 | | | |
| 2014 | 1.0017 | 1.0000 | 2.4941 | 1.8219 | 1.1751 | 5.3487 | 0.1870 | | | |
| Other Industries | | | | | | | | | | |
| 2012 | 0.9338 | 1.0000 | 1.5818 | 1.6278 | 1.3812 | 3.3210 | 0.3011 | | | |
| 2013 | 0.9726 | 1.0000 | 1.7902 | 1.6278 | 1.2739 | 3.6105 | 0.2770 | | | |
| 2014 | 1.0017 | 1.0000 | 2.4287 | 1.6278 | 1.1751 | 4.6536 | 0.2149 | | | |
| | | | | | | | | | | |

Permissible Loss Ratio = Collectible Premium Ratios

Manufacturing =

Contracting =

All Other = 0.5650

1.0282

1.0294 0.9197

Experience Rating Plan Parameters

- (1) Eligibility Point = (3,161 = 1 yr Prem) 3 yr = \$9,483
- (2) Permissible Loss Ratio = 0.5927 (a)
- (3) Expected Losses needed to achieve 5% credibility
 (1) * (2) = \$9,483 * 0.5927 = \$5,621
- (4) Max Value : 0.25 * \$5,621 = 0.05 \$28,105
- (5) K-Value
 a) If (3) is assigned 5% credibility, then $K = \underbrace{E * (1 c)}_{c} = \underbrace{\$5,621 * (1 .05)}_{c} = \$106,799$
- (7) Right endpoint for .05 credibility interval = \$5,917
- = 25 * \$331,465 = \$8,286,625
 - 6% of (8) rounded to the nearest \$1,000 = \$497,000 Selected = \$497,000
 - (a) Standard LR / CPR = Manual LR 0.5650 / 0.9533 = 0.5927

Self rating point = 25 * average serious claim

(8)