## DELAWARE COMPENSATION RATING BUREAU, INC.

Tax Multiplier

## CALCULATION OF TAX MULTIPLIER FOR USE IN RETROSPECTIVE RATING PLANS (O/T U.S.L. & H.W. Act Coverages)

## Expense Provisions for O/T U.S.L. & H.W. Classes

Losses	64.54
Loss Adjustment Expense	8.37
Loss & Loss Adjustment	72.91
Paramitan Biranana	40.50
Premium Discount	10.58
Acquisition	9.42
General Expenses	3.12
Profit and Contingencies	(5.96)
Taxes	2.32
Uncollectible Premium	1.00
Workers' Compensation Fund	4.00
Administrative Assessment	2.61
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<u>If</u>

T = Tax multiplier

E = Expense provision in rates (General, Acquisition, and Profit), less premium discount

L = Loss provision in rates

C = Loss conversion factor

B = Assessments made on premiums

A = Assessments made on losses (adjusted so as not to collect profit and general expense dollars on the extra premium generated by the assessments)

Using average discount (Schedule Y) this yields:

$$ACQ$$
 GEN PROFIT PREM DISC  
 $E = (0.0400) = 0.0942 + 0.0312 + (0.0596) - 0.1058$   
 $A = 0.0429 = 0.0404 \times \frac{1 - -0.0400 - 0.0732}{1 - 0.0168 - 0.0732}$ 

## <u>Then</u>

$$T = \frac{E + L (1 + C + A)}{E + L (1 + C)} \times \frac{1}{1 - B - S}$$

$$T = \frac{-0.0400 + 0.6454 (1 + 0.1296 + 0.0429)}{-0.0400 + 0.6454 (1 + 0.1296)} \times \frac{1}{1 - 0.0732 - 0.0156} = 1.1416$$