## 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	58.99
Loss Adjustment Expense	15.90
Loss & Loss Adjustment	74.89
Premium Discount	8.15
Acquisition	5.53
General Expenses	2.51
Profit and Contingencies	(2.57)
Taxes	2.30
Uncollectible Premium	3.21
Workers' Compensation Fund	1.50
Administrative Assessment	4.48
	25.11

<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 =  $(0.0268)$  =  $0.0553$  +  $0.0251$  +  $(0.0257)$  -  $0.0815$ 

$$A = 0.0773 = 0.0760 \times 1 - 0.0268 - 0.0701 \\ 1 - 0.0103 - 0.0701$$

Then

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

$$T = \frac{-0.0268 + 0.5899 (1 + 0.2696 + 0.0773)}{-0.0268 + 0.5899 (1 + 0.2696)} \times \frac{1}{1 - 0.0701 - 0.0065} = 1.1513$$