

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	58.14
Loss Adjustment Expense	14.65
Loss & Loss Adjustment	<u>72.79</u>
Premium Discount	8.06
Acquisition	7.14
General Expenses	2.63
Profit and Contingencies	(3.78)
Taxes	2.29
Uncollectible Premium	4.39
Workers' Compensation Fund	2.00
Administrative Assessment	<u>4.48</u>
	27.21

If

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:

$$E = (0.0207) = \frac{ACQ}{0.0714} + \frac{GEN}{0.0263} + \frac{PROFIT}{(0.0378)} - \frac{PREM DISC}{0.0806}$$

$$A = 0.0794 = 0.0770 \times \frac{1 - (-0.0207 - 0.0868)}{1 - 0.0071 - 0.0868}$$

Then

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

$$S = \text{Delaware Insurance Plan Subsidy} = 0.0001$$

$$T = \frac{-0.0207 + 0.5814(1 + 0.2520 + 0.0794)}{-0.0207 + 0.5814(1 + 0.2520)} \times \frac{1}{1 - 0.0868 - 0.0001} = 1.1667$$