

DELAWARE COMPENSATION RATING BUREAU, INC.

Internal Rate Of Return Model

The attached pages present exhibits and a description of the internal rate of return model used in deriving the Bureau's loss ratio (including loss adjustment expenses and loss based assessments) and provision for profit and contingencies.

DELAWARE COMPENSATION RATING BUREAU, INC.

DELAWARE DECEMBER 1, 2007 RESIDUAL MARKET RATE FILING

Internal Rate of Return Analysis

The following pages present results of an economic analysis establishing the following items:

- The appropriate rate of return for writing workers compensation business, and
- The loss ratio (including loss adjustment expenses and loss-based assessments) which will allow the realization of that target rate of return in current economic conditions, based on current expense needs for stock carriers and cash flows for losses and expenses attendant with Delaware workers compensation insurance.

Internal Rate of Return Table I shows Inputs, Assumptions and Outputs underlying the analysis.

Internal Rate of Return Tables II - VII show the various cash flows projected for the underwriting of Delaware workers compensation business based on the inputs to the Internal Rate of Return model, assuming a base standard premium at Bureau level of \$1 million.

Exhibits titled "Delaware Pre & Post Tax Returns" and "Delaware Cost of Capital" present the derivation of the appropriate current target rate of return, which is 11.92 percent. Both Capital Asset Pricing Model ("CAPM") and Discounted Cash Flow ("DCF") analyses have been applied to the derivation of this target rate, producing results of 13.44 and 10.39 percent respectively. The selected target rate of return, 11.92 percent, is the average of these two separate indications.

**INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
TABLE I: INPUTS, ASSUMPTIONS & OUTPUTS**

Section 1: Inputs & Assumptions		
(1)	Commissions *	7.39
(2)	Other Expenses	5.96
(2A)	Other Acquisitions *	2.57
(2B)	General Expenses *	3.06
(2C)	Other Tax **	0.33
(3)	State Premium Taxes & Uncollectible Premium	
(3A)	Tax1 - Premium Tax **	2.00
(3B)	Uncollectible Premium **	1.25
(3C)	Tax3 - Workers Compensation Fund **	2.00
(4)	Premium Discount ***	8.89
(5)	Deviations	0.00
(6)	Dividends to Policyholders	0.00
(7)	Premium Written	1,000,000
Investment Income		
(8A)	Pre-Tax Return on Assets	6.36
(8B)	Investment Income Tax Rate	1.51
(8C)	Post-Tax Return on Assets	4.85
(10)	Reserve to Surplus Ratio	2.56
(11)	Internal Rate of Return (Cost of Capital)	11.92
* Applies to standard premium at Bureau level (before premium discount)		
** Applies to net premium at company level (after deviations and premium discounts)		
*** Applies to standard premium at company level (after deviations)		

Section 2: Outputs		
(1)	Loss Ratio - including loss adjustment expense & loss based assessments	76.27
(2)	Profit & Contingencies	-3.76

**INTERNAL RATE OF RETURN ANALYSIS
EXPLANATORY NOTES**

TABLE II: CASH FLOW PATTERNS

Column (1)	Premium Collection pattern provided by DCRB based on Delaware workers compensation data.
Column (2)	Policy Year Loss Payout pattern provided by DCRB based on Delaware workers compensation data.
Column (3)	Other Expense Payout pattern as follows: All expenses except Commission and 1/2 General Expense flowing with earned premium. Commission flows with collected premium, and 1/2 General Expense flows with written premium.
Column (4)	Tax 1 flow assumes even quarterly payment of state premium taxes.
Column (5)	Uncollectible premium flow matches that of Column (1) – Premium collection pattern.
Column (6)	Tax 3 flow assumes even quarterly payment of Security Fund assessments.
Column (7)	No dividend provision is included in this IRR model.

**INTERNAL RATE OF RETURN ANALYSIS
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**TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES
PAGE 1**

- Column (1) Premium Collected based on collection pattern from Table II, Column (1).
Example: $\$911,100 \times .000023 = \20.96
- Column (2) Agents' Balances reflects the difference between Written Premium and Collected Premium. Written Premium pattern provided by DCRB for Delaware workers compensation insurance.
Example: Written Premium, First Quarter = $.25 \times \$911,100 = \$227,775.00$
Collected Premium = $(.000023 + .002135) \times \$911,100 = \$1,966.15$
Written - Collected = $\$225,808.85$
- Column (3) Overdue Agent's Balances are all Agents' Balances due after the end of the 24-month period in which earnings of policy year premium occurs.
- Column (4) Admitted Agents' Balances reflect all Agents' Balances due prior to the end of the 24-month period in which earnings of policy year premium occurs.
- Column (5) Losses Incurred is computed by applying the loss ratio for the business to earned premiums at Bureau level (i.e., before premium discounts). Premium earning pattern provided by DCRB for Delaware workers compensation insurance.
Example: $.7627 \times \$1,000,000 \times .0382 = \$29,135.14$
- Column (6) Unearned Premiums is computed as Cumulative Written Premium less Cumulative Earned Premium.
Example: $\$276,701.07 - 34,804.02 = \$241,897.05$
- Column (7) Total Premium Net of Reserves is computed as Collected Premium plus Admitted Agents' Balances less Losses Incurred less Unearned Premium Reserves.
Example: $\$1,966.15 + 225,808.85 - 29,135.14 - 241,897.05 = (\$43,257.19)$

**INTERNAL RATE OF RETURN ANALYSIS
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**TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES
PAGE 2**

Column (8) Premium Net of Reserves is the periodic change in Column (7).

$$\text{Example: } -\$6,385.13 + 43,257.19 = \$36,872.06$$

Column (9) Cumulative Written Premium is total written premium times the cumulative written premium distribution (Table II, column (9)).

$$\text{Example: } \$911,100 \times .3037 = \$276,701.07$$

Column (10) Cumulative Earned Premium is total earned premium times the cumulative earned premium distribution (Table II, column (10)).

$$\text{Example: } \$911,100 \times 0.0382 = \$34,804.02$$

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE 2007
TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES

TIME FROM	INTERVAL TO	(1) PREMIUM COLLECTED	(2) AGENTS BALANCES	(3) OVERDUE AGENTS BALANCE	(4) ADMITTED AGENTS BALANCES	(5) LOSSES INCURRED	(6) UNEARNED PREMIUMS	(7) TOTAL PREM NET OF RESERVES	(8) PREMIUM NET OF RESERVES	(9) CUMULATIVE WRITTEN PREMIUM	(10) CUMULATIVE EARNED PREMIUM
-1.00	-0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.75	-0.50	2.73	-2.73	0.00	-2.73	0.00	0.00	0.00	0.00	0.00	0.00
-0.50	-0.25	10.02	-10.02	0.00	-10.02	0.00	0.00	0.00	0.00	0.00	0.00
-0.25	0.00	20.96	-20.96	0.00	-20.96	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.25	1966.15	225808.85	0.00	225808.85	29135.14	241897.05	-43257.19	-43257.19	276701.07	34804.02
0.25	0.50	32432.43	423117.57	0.00	423117.57	109066.10	352869.03	-6385.13	36872.06	483156.33	130287.30
0.50	0.75	114842.33	568482.67	0.00	568482.67	236284.46	439241.31	7799.23	14184.36	721500.09	282258.78
0.75	1.00	246586.48	664513.52	0.00	664513.52	409341.09	422112.63	79646.28	71847.05	911100.00	488987.37
1.00	1.25	437843.68	473256.32	0.00	473256.32	568592.85	231874.95	110632.20	30985.92	911100.00	679225.05
1.25	1.50	586943.38	324156.62	0.00	324156.62	678726.73	100312.11	132061.16	21428.96	911100.00	810787.89
1.50	1.75	711161.84	199938.16	0.00	199938.16	742793.53	23779.71	144526.76	12465.60	911100.00	887320.29
1.75	2.00	794765.29	116334.71	0.00	116334.71	762700.00	0.00	148400.00	3873.24	911100.00	911100.00
2.00	2.25	840302.97	70797.03	70797.03	0.00	762700.00	0.00	77602.97	-70797.03	911100.00	911100.00
2.25	2.50	865048.45	46051.55	46051.55	0.00	762700.00	0.00	102348.45	24745.48	911100.00	911100.00
2.50	2.75	881528.43	29571.57	29571.57	0.00	762700.00	0.00	118828.43	16479.98	911100.00	911100.00
2.75	3.00	890169.30	20930.70	20930.70	0.00	762700.00	0.00	127469.30	8640.87	911100.00	911100.00
3.00	3.25	894794.95	16305.05	16305.05	0.00	762700.00	0.00	132094.95	4625.65	911100.00	911100.00
3.25	3.50	897545.57	13554.43	13554.43	0.00	762700.00	0.00	134845.57	2750.61	911100.00	911100.00
3.50	3.75	899322.21	11777.79	11777.79	0.00	762700.00	0.00	136622.21	1776.65	911100.00	911100.00
3.75	4.00	900361.78	10738.22	10738.22	0.00	762700.00	0.00	137661.78	1039.57	911100.00	911100.00
4.00	4.25	900884.75	10215.25	10215.25	0.00	762700.00	0.00	138184.75	522.97	911100.00	911100.00
4.25	4.50	901773.07	9326.93	9326.93	0.00	762700.00	0.00	139073.07	888.32	911100.00	911100.00
4.50	4.75	903085.96	8014.04	8014.04	0.00	762700.00	0.00	140385.96	1312.90	911100.00	911100.00
4.75	5.00	904249.44	6850.56	6850.56	0.00	762700.00	0.00	141549.44	1163.47	911100.00	911100.00
5.00	6.00	904879.92	6220.08	6220.08	0.00	762700.00	0.00	142179.92	630.48	911100.00	911100.00
6.00	7.00	905976.88	5123.12	5123.12	0.00	762700.00	0.00	143276.88	1096.96	911100.00	911100.00
7.00	8.00	907894.75	3205.25	3205.25	0.00	762700.00	0.00	145194.75	1917.87	911100.00	911100.00
8.00	9.00	909534.73	1565.27	1565.27	0.00	762700.00	0.00	146834.73	1639.98	911100.00	911100.00
9.00	10.00	909956.57	1143.43	1143.43	0.00	762700.00	0.00	147256.57	421.84	911100.00	911100.00
10.00	11.00	910331.94	768.06	768.06	0.00	762700.00	0.00	147631.94	375.37	911100.00	911100.00
11.00	12.00	910715.52	384.48	384.48	0.00	762700.00	0.00	148015.52	383.57	911100.00	911100.00
12.00	13.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	384.48	911100.00	911100.00
13.00	14.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
14.00	15.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
15.00	16.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
16.00	17.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
17.00	18.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
18.00	19.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
19.00	20.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
20.00	21.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
21.00	22.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
22.00	23.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
23.00	24.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
24.00	25.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
25.00	26.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
26.00	27.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
27.00	28.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
28.00	29.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
29.00	30.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
30.00	31.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
31.00	32.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
32.00	33.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
33.00	34.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
34.00	35.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
35.00	36.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
36.00	37.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
37.00	38.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
38.00	39.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00
39.00	40.00	911100.00	0.00	0.00	0.00	762700.00	0.00	148400.00	0.00	911100.00	911100.00

**INTERNAL RATE OF RETURN ANALYSIS
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**TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS
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Column (1) The net written premium underlying the model, i.e., \$1 million less premium discounts, or \$911,100.00.

Column (2) The periodic change in the Unearned Premium Reserve shown in Table III, Column (6).

Example: $\$422,112.63 - 0 = \$422,112.63$

Column (3) The sum of the products of the expense flows shown in Table II and their associated expense provisions as shown on Table I, multiplied times the premium base.

Example:

Item	Provision (%)	Year 1 Expense Flow	Year 1 Expense Ratio %	Premium Base	Year 1 Expense \$
	(a)	(b)	(c)=(a)*(b)	(d)	(e)=(c)*(d)
Commission	7.39	0.002706	0.019997	1,000,000	19,997.34
General Expense	3.06	0.007500	0.022950	1,000,000	22,950.00
Other Acquisition	2.57	0.010000	0.025700	1,000,000	25,700.00
Other Tax	0.33	0.010000	0.003300	911,100	3,006.63
Uncollectible Prem	1.25	0.002706	0.003383	911,100	3,081.80
Tax 1:	2.00	0.010000	0.020000	911,100	18,222.00
Tax 3:	2.00	0.010000	0.020000	911,100	18,222.00
Total					111,179.77 (round)

Column (4) & Column (5) The Losses Paid for Accident Years 1 and 2, respectively, are based on payout patterns provided by the DCRB for Delaware workers compensation insurance.

Example: Accident Year 1, Year 1 Payout

$$(.1306 / 2) \times .7627 \times \$1,000,000 = \$49,804.31$$

**INTERNAL RATE OF RETURN ANALYSIS
EXPLANATORY NOTES**

**TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS
PAGE 2**

Column (6) The IRS Discount Factors are a tabulation of discount factors published for carriers by the Internal Revenue Service.

Column (7) & Column (8) The Losses Discounted for Accident Years 1 and 2, respectively, are the change in discounted reserves for each accident year implied by the loss ratio, premium earnings pattern and IRS discount factors incorporated into the model.

Example: Accident Year 1, Year 2 Losses Discounted

Accident Year 1 incurred at End of Year 2: \$409,379.23

Accident Year 1 Paid Through Year 2:

$\$49,804.31 + 92,706.19 = \$142,510.50$

Accident Year 1 Undiscounted Reserve, Year 2:

$\$409,379.23 - 142,510.50 = \$266,868.73$

IRS Discount Factor: .8684

Accident Year 1 Discounted Reserve, Year 2:

$\$266,868.73 \times .8684 = \$231,748.81$

Accident Year 1 Incurred at End of Year 1: \$409,379.23

Accident Year 1 Paid Through Year 1: \$49,804.31

Accident Year 1 Undiscounted Reserve, Year 1:

$\$409,379.23 - 49,804.31 = \$359,574.92$

IRS Discount Factor: .8952

Accident Year 1 Discounted Reserve, Year 1:

$\$359,574.92 \times .8952 = \$321,891.47$

Change in Discounted Reserves, Year 1 to 2:

$\$231,748.81 - 321,891.47 = (\$90,142.66)$ (round)

Column (9) Tax Credits are computed as follows:

Underwriting Tax Rate x

(- Written Premium
+ 0.8 x Change in Unearned Premium
+ Expenses Paid
+ Losses Paid
+ Change in Discounted Loss Reserve)

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS

YEAR	(1) PREMIUM WRITTEN (POST-DEV)	(2) CHANGE IN UNEARN PREM RESERVE	(3) EXPENSES	(4) LOSSES PAID ACCIDENT YEAR 1	(5) ACCIDENT YEAR 2	(6) IRS DISCOUNT FACTOR	(7) LOSSES DISCOUNTED ACCIDENT YEAR 1	(8) ACCIDENT YEAR 2	(9) TAX CREDITS
-1	0.00	0.00	1.96	0.00	0.00	0	0.00	0.00	0.69
1	911100.00	422112.63	111181.81	49804.31	0.00	0.8952	321896.50	0.00	-31684.55
2	0.00	-422112.63	58965.43	92706.19	61816.84	0.8684	-90160.77	260958.41	16308.59
3	0.00	0.00	8930.84	55028.81	51215.31	0.8483	-52037.43	-52303.53	3791.90
4	0.00	0.00	954.13	28524.98	38745.16	0.8421	-25336.30	-37690.79	1819.01
5	0.00	0.00	363.93	19677.66	25855.53	0.8423	-16530.64	-23024.47	2219.70
6	0.00	0.00	59.02	14605.71	18342.94	0.8595	-9742.89	-15408.23	2749.79
7	0.00	0.00	102.69	11402.37	13766.74	0.8678	-8648.88	-9129.88	2622.56
8	0.00	0.00	179.53	9266.81	10868.48	0.8831	-6085.31	-8231.17	2099.42
9	0.00	0.00	153.52	7855.81	8923.59	0.9070	-4060.21	-5857.22	2455.42
10	0.00	0.00	39.49	6826.17	7588.87	0.9242	-4226.97	-3927.36	2205.07
11	0.00	0.00	35.14	6139.74	6673.63	0.9419	-3772.47	-4160.44	1720.46
12	0.00	0.00	35.91	5605.85	5987.20	0.9600	-3440.23	-3702.31	1570.24
13	0.00	0.00	35.99	5186.36	5491.44	0.9781	-3223.15	-3402.68	1430.79
14	0.00	0.00	0.00	4881.28	5110.09	0.9807	-4539.37	-3219.13	781.50
15	0.00	0.00	0.00	4614.34	4766.88	0.9807	-4525.16	-4436.93	146.69
16	0.00	0.00	0.00	4423.66	4576.20	0.9807	-4338.17	-4487.76	60.87
17	0.00	0.00	0.00	4232.99	4385.53	0.9807	-4151.18	-4300.77	58.29
18	0.00	0.00	0.00	4118.58	4194.85	0.9807	-4038.99	-4113.78	56.23
19	0.00	0.00	0.00	4004.18	4080.45	0.9807	-3926.79	-4001.59	54.68
20	0.00	0.00	0.00	3927.91	4004.18	0.9807	-3852.00	-3926.79	53.65
21	0.00	0.00	0.00	3813.50	3889.77	0.9807	-3739.80	-3814.60	52.10
22	0.00	0.00	0.00	3737.23	3813.50	0.9807	-3665.01	-3739.80	51.07
23	0.00	0.00	0.00	3660.96	3737.23	0.9807	-3590.21	-3665.01	50.04
24	0.00	0.00	0.00	3622.83	3699.10	0.9807	-3552.81	-3627.61	49.52
25	0.00	0.00	0.00	3546.56	3622.83	0.9807	-3478.02	-3552.81	48.49
26	0.00	0.00	0.00	3546.56	3546.56	0.9807	-3478.02	-3478.02	47.98
27	0.00	0.00	0.00	3470.29	3470.29	0.9807	-3403.22	-3403.22	46.94
28	0.00	0.00	0.00	3432.15	3432.15	0.9807	-3365.82	-3365.82	46.43
29	0.00	0.00	0.00	3394.02	3394.02	0.9807	-3328.43	-3328.43	45.91
30	0.00	0.00	0.00	3317.75	3317.75	0.9807	-3253.63	-3253.63	44.88
31	0.00	0.00	0.00	3279.61	3279.61	0.9807	-3216.23	-3216.23	44.36
32	0.00	0.00	0.00	3241.48	3241.48	0.9807	-3178.83	-3178.83	43.85
33	0.00	0.00	0.00	3203.34	3203.34	0.9807	-3141.44	-3141.44	43.33
34	0.00	0.00	0.00	3165.21	3165.21	0.9807	-3104.04	-3104.04	42.82
35	0.00	0.00	0.00	3127.07	3127.07	0.9807	-3066.64	-3066.64	42.30
36	0.00	0.00	0.00	3088.94	3088.94	0.9807	-3029.24	-3029.24	41.79
37	0.00	0.00	0.00	3050.80	3050.80	0.9807	-2991.84	-2991.84	41.27
38	0.00	0.00	0.00	3012.67	3012.67	0.9807	-2954.45	-2954.45	40.75
39	0.00	0.00	0.00	2974.53	2974.53	0.9807	-2917.05	-2917.05	40.24
40	0.00	0.00	0.00	2860.13	2860.13	0.9807	-2804.85	-2804.85	38.69
	911100.00		181039.38	409379.23	353320.78				

SOURCES: COL. 1: TABLE IV

COL. 2: COL. 1

COL. 3: COLS. 3, 4, 5, 6 & 7, TABLE III; AND TABLE IV

COLS. 4 & 5: WEIGHTS FOR ACCIDENT YEAR DISTRIBUTION:
SEE ACCIDENT YEAR DISTRIBUTION

COL. 6: U. S. INTERNAL REVENUE SERVICE DISCOUNT FACTORS

COLS. 7 & 8: CHANGE IN DISCOUNTED OUTSTANDING USING IRS FACTORS

COL. 9: .35 x (COL. 1 - (.8 x COL. 2) - COL. 4 - COL. 5 - COL. 7 - COL. 8)

**INTERNAL RATE OF RETURN ANALYSIS
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TABLE V: NET CASH FLOWS FROM UNDERWRITING

- Column (1) The Premium Flow Net of Reserves is Column (8) of Table III.
- Column (2) Tax Credits from Underwriting is a quarterly flow of those credits in Column (9) in Table IV.
- Column (3) Expenses show a quarterly flow of Expenses prepared in the same fashion as the annual flows in Column (3) of Table IV.
- Column (4) Dividends are not used in this model as no provision has been made for dividends in this analysis.
- Column (5) Net Cash Flow from Underwriting is computed by adding Column (1) and Column (2) and subtracting Column (3)

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
TABLE V: NET CASH FLOWS FROM UNDERWRITING

TIME FROM	INTERVAL TO	(1) PREMIUM FLOW NET OF RESERVES	(2) TAX CREDITS FROM UNDERWRITING	(3) EXPENSES	(4) DIVIDENDS	(5) NET CASH FLOW FROM UNDERWRITING
-1.00	-0.75	0.00	0.17	0.00	0.00	0.17
-0.75	-0.50	0.00	0.17	0.26	0.00	-0.08
-0.50	-0.25	0.00	0.17	0.68	0.00	-0.51
-0.25	0.00	0.00	0.17	1.02	0.00	-0.85
0.00	0.25	-43257.19	-7921.14	23070.02	0.00	-74248.35
0.25	0.50	36872.06	-7921.14	24082.16	0.00	4868.77
0.50	0.75	14184.36	-7921.14	29804.07	0.00	-23540.85
0.75	1.00	71847.05	-7921.14	34225.56	0.00	29700.35
1.00	1.25	30985.92	4077.15	21250.60	0.00	13812.46
1.25	1.50	21428.96	4077.15	16347.96	0.00	9158.15
1.50	1.75	12465.60	4077.15	13062.56	0.00	3480.19
1.75	2.00	3873.24	4077.15	8304.31	0.00	-353.92
2.00	2.25	-70797.03	947.97	4262.82	0.00	-74111.87
2.25	2.50	24745.48	947.97	2316.44	0.00	23377.01
2.50	2.75	16479.98	947.97	1542.70	0.00	15885.25
2.75	3.00	8640.87	947.97	808.88	0.00	8779.97
3.00	3.25	4625.65	454.75	433.01	0.00	4647.40
3.25	3.50	2750.61	454.75	257.49	0.00	2947.88
3.50	3.75	1776.65	454.75	166.31	0.00	2065.08
3.75	4.00	1039.57	454.75	97.31	0.00	1397.00
4.00	4.25	522.97	554.93	48.96	0.00	1028.94
4.25	4.50	888.32	554.93	83.16	0.00	1360.09
4.50	4.75	1312.90	554.93	122.90	0.00	1744.92
4.75	5.00	1163.47	554.93	108.91	0.00	1609.49
5.00	6.00	630.48	2749.79	59.02	0.00	3321.25
6.00	7.00	1096.96	2622.56	102.69	0.00	3616.84
7.00	8.00	1917.87	2099.42	179.53	0.00	3837.75
8.00	9.00	1639.98	2455.42	153.52	0.00	3941.88
9.00	10.00	421.84	2205.07	39.49	0.00	2587.42
10.00	11.00	375.37	1720.46	35.14	0.00	2060.69
11.00	12.00	383.57	1570.24	35.91	0.00	1917.91
12.00	13.00	384.48	1430.79	35.99	0.00	1779.28
13.00	14.00	0.00	781.50	0.00	0.00	781.50
14.00	15.00	0.00	146.69	0.00	0.00	146.69
15.00	16.00	0.00	60.87	0.00	0.00	60.87
16.00	17.00	0.00	58.29	0.00	0.00	58.29
17.00	18.00	0.00	56.23	0.00	0.00	56.23
18.00	19.00	0.00	54.68	0.00	0.00	54.68
19.00	20.00	0.00	53.65	0.00	0.00	53.65
20.00	21.00	0.00	52.10	0.00	0.00	52.10
21.00	22.00	0.00	51.07	0.00	0.00	51.07
22.00	23.00	0.00	50.04	0.00	0.00	50.04
23.00	24.00	0.00	49.52	0.00	0.00	49.52
24.00	25.00	0.00	48.49	0.00	0.00	48.49
25.00	26.00	0.00	47.98	0.00	0.00	47.98
26.00	27.00	0.00	46.94	0.00	0.00	46.94
27.00	28.00	0.00	46.43	0.00	0.00	46.43
28.00	29.00	0.00	45.91	0.00	0.00	45.91
29.00	30.00	0.00	44.88	0.00	0.00	44.88
30.00	31.00	0.00	44.36	0.00	0.00	44.36
31.00	32.00	0.00	43.85	0.00	0.00	43.85
32.00	33.00	0.00	43.33	0.00	0.00	43.33
33.00	34.00	0.00	42.82	0.00	0.00	42.82
34.00	35.00	0.00	42.30	0.00	0.00	42.30
35.00	36.00	0.00	41.79	0.00	0.00	41.79
36.00	37.00	0.00	41.27	0.00	0.00	41.27
37.00	38.00	0.00	40.75	0.00	0.00	40.75
38.00	39.00	0.00	40.24	0.00	0.00	40.24
39.00	40.00	0.00	38.69	0.00	0.00	38.69

**INTERNAL RATE OF RETURN ANALYSIS
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TABLE VI: DERIVATION OF FUNDS IN SURPLUS ACCOUNT

Column (1) Loss and Loss Adjustment Reserves is the difference between Losses Incurred (Column (5), Table III) and Losses Paid (Columns (4) and (5), Table IV).

$$\text{Example: } \$409,341.09 - 49,804.31 = \$359,536.78$$

Column (2) Unearned Premium Reserves is Column (6) of Table III.

Column (3) Admitted Agents Balances is Column (4) of Table III.

Column (4) Cash Level is computed by adding Columns (1) and (2) and subtracting Column (3).

$$\text{Example: } \$359,536.79 + 422,112.63 - 664,513.52 = \$117,135.89$$

Column (5) Funds in Surplus Account is derived by adding Columns (1) and (2) and dividing that total by the reserve-to-surplus ratio used in the model, in this case 2.56.

$$\text{Example: } (\$359,536.79 + 422,112.63) / 2.56 = \$305,331.80$$

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
TABLE VI: DERIVATION OF FUNDS IN SURPLUS ACCOUNT

TIME FROM	INTERVAL TO	(1) LOSS AND LOSS ADJ. RESERVES	(2) UNEARNED PREMIUM RESERVES	(3) ADMITTED AGENTS BALANCES	(4) CASH LEVEL	(5) FUNDS IN SURPLUS ACCOUNT
-1.00	-0.75	0.00	0.00	0.00	0.00	0.00
-0.75	-0.50	0.00	0.00	-2.73	2.73	0.00
-0.50	-0.25	0.00	0.00	-10.02	10.02	0.00
-0.25	0.00	0.00	0.00	-20.96	20.96	0.00
0.00	0.25	24154.71	241897.05	225808.85	40242.91	103926.47
0.25	0.50	94124.81	352869.03	423117.57	23876.26	174606.97
0.50	0.75	206401.87	439241.31	568482.67	77160.52	252204.37
0.75	1.00	359536.78	422112.63	664513.52	117135.89	305331.80
1.00	1.25	480157.79	231874.95	473256.32	238776.42	278137.79
1.25	1.50	551660.91	100312.11	324156.62	327816.40	254676.96
1.50	1.75	577096.96	23779.71	199938.16	400938.50	234717.45
1.75	2.00	558372.67	0.00	116334.71	442037.96	218114.32
2.00	2.25	531811.64	0.00	0.00	531811.64	207738.92
2.25	2.50	505250.62	0.00	0.00	505250.62	197363.52
2.50	2.75	478689.59	0.00	0.00	478689.59	186988.12
2.75	3.00	452128.56	0.00	0.00	452128.56	176612.72
3.00	3.25	435311.03	0.00	0.00	435311.03	170043.37
3.25	3.50	418493.49	0.00	0.00	418493.49	163474.02
3.50	3.75	401675.96	0.00	0.00	401675.96	156904.67
3.75	4.00	384858.42	0.00	0.00	384858.42	150335.32
4.00	4.25	373475.12	0.00	0.00	373475.12	145888.72
4.25	4.50	362091.83	0.00	0.00	362091.83	141442.12
4.50	4.75	350708.53	0.00	0.00	350708.53	136995.52
4.75	5.00	339325.23	0.00	0.00	339325.23	132548.92
5.00	6.00	306376.59	0.00	0.00	306376.59	119678.36
6.00	7.00	281207.49	0.00	0.00	281207.49	109846.68
7.00	8.00	261072.21	0.00	0.00	261072.21	101981.33
8.00	9.00	244292.81	0.00	0.00	244292.81	95426.88
9.00	10.00	229877.78	0.00	0.00	229877.78	89796.01
10.00	11.00	217064.42	0.00	0.00	217064.42	84790.79
11.00	12.00	205471.38	0.00	0.00	205471.38	80262.26
12.00	13.00	194793.58	0.00	0.00	194793.58	76091.24
13.00	14.00	184802.21	0.00	0.00	184802.21	72188.36
14.00	15.00	175421.00	0.00	0.00	175421.00	68523.83
15.00	16.00	166421.14	0.00	0.00	166421.14	65008.26
16.00	17.00	157802.63	0.00	0.00	157802.63	61641.65
17.00	18.00	149489.20	0.00	0.00	149489.20	58394.22
18.00	19.00	141404.58	0.00	0.00	141404.58	55236.16
19.00	20.00	133472.50	0.00	0.00	133472.50	52137.70
20.00	21.00	125769.23	0.00	0.00	125769.23	49128.61
21.00	22.00	118218.50	0.00	0.00	118218.50	46179.10
22.00	23.00	110820.31	0.00	0.00	110820.31	43289.18
23.00	24.00	103498.39	0.00	0.00	103498.39	40429.06
24.00	25.00	96329.01	0.00	0.00	96329.01	37628.52
25.00	26.00	89235.90	0.00	0.00	89235.90	34857.77
26.00	27.00	82295.33	0.00	0.00	82295.33	32146.61
27.00	28.00	75431.03	0.00	0.00	75431.03	29465.25
28.00	29.00	68643.00	0.00	0.00	68643.00	26813.67
29.00	30.00	62007.51	0.00	0.00	62007.51	24221.68
30.00	31.00	55448.29	0.00	0.00	55448.29	21659.49
31.00	32.00	48965.34	0.00	0.00	48965.34	19127.09
32.00	33.00	42558.66	0.00	0.00	42558.66	16624.48
33.00	34.00	36228.25	0.00	0.00	36228.25	14151.66
34.00	35.00	29974.11	0.00	0.00	29974.11	11708.64
35.00	36.00	23796.24	0.00	0.00	23796.24	9295.41
36.00	37.00	17694.64	0.00	0.00	17694.64	6911.97
37.00	38.00	11669.31	0.00	0.00	11669.31	4558.32
38.00	39.00	5720.25	0.00	0.00	5720.25	2234.47
39.00	40.00	0.00	0.00	0.00	0.00	0.00

**INTERNAL RATE OF RETURN ANALYSIS
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TABLE VII: NOMINAL CASH FLOWS TO INVESTORS

Column (1) Net Cash Flow Underwriting is Column (5) of Table V.

Column (2) Cash Pre-Tax Income is computed by multiplying the pre-tax investment yield rate times the periodic average Cash Level from Column (4), Table VI.

$$\text{Example: } (\$77,160.52 + 117,135.89) / 2 = \$97,148.20 \\ \$97,148.20 \times .0635774 / 4 = \$1,544.11$$

Column (3) Cash Income Taxes is computed by multiplying the investment income tax rate times the periodic average Cash Level from Column (4), Table VI.

$$\text{Example: } (\$77,160.52 + 117,135.89) / 2 = \$97,148.20 \\ \$97,148.20 \times .01509622 / 4 = -\$366.64$$

Column (4) Net Flow from Surplus is the periodic change in Surplus Balance posted in Column (5) of Table VI.

$$\text{Example: } \$252,204.37 - 305,331.80 = (\$53,127.43)$$

Column (5) Surplus Pre-Tax Income is computed by applying the pre-tax investment yield to average periodic surplus balance computed from Column (5) of Table VI.

$$\text{Example: } (\$252,204.37 + 305,331.80) / 2 = \$278,768.07 \\ \$278,768.07 \times .0635774 / 4 = \$4,430.83$$

Column (6) Surplus Income Taxes is the product of the investment income tax rate and the average periodic surplus balance computed from Column (5) of Table VI.

$$\text{Example: } (\$252,204.37 + 305,331.80) / 2 = \$278,768.07 \\ \$278,768.07 \times .01509622 / 4 = \$1,052.09$$

Column (7) Net Cash Flow is the sum of Columns (1) through (6) and represents the net flows to investors which result in a rate of return of 10.28 percent to investors in the insurance company as required by the Internal Rate of Return Model.

$$\text{Example: } \$29,700.35 + 1,544.11 - 366.64 - 53,127.43 + 4,430.83 - 1,052.09 = \\ -\$18,870.87$$

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
TABLE VII: NOMINAL CASH FLOWS TO INVESTORS

TIME FROM	INTERVAL TO	(1) NET CASH FLOW FROM UNDERWRITING	(2) CASH PRE-TAX INCOME	(3) CASH INCOME TAXES	(4) NET FLOW FOR SURPLUS ACCOUNT	(5) SURPLUS PRE-TAX INCOME	(6) SURPLUS INCOME TAXES	(7) NET CASH FLOW
-1.00	-0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.17
-0.75	-0.50	-0.08	0.02	-0.01	0.00	0.00	0.00	-0.07
-0.50	-0.25	-0.51	0.10	-0.02	0.00	0.00	0.00	-0.43
-0.25	0.00	-0.85	0.25	-0.06	0.00	0.00	0.00	-0.66
0.00	0.25	-74248.35	319.98	-75.98	-103926.47	825.92	-196.11	-177301.00
0.25	0.50	4868.77	509.57	-120.99	-70680.50	2213.55	-525.60	-63735.21
0.50	0.75	-23540.85	802.96	-190.66	-77597.40	3391.94	-805.40	-97939.42
0.75	1.00	29700.35	1544.11	-366.64	-53127.43	4430.83	-1052.09	-18870.87
1.00	1.25	13812.46	2828.50	-671.62	27194.01	4636.93	-1101.02	46699.27
1.25	1.50	9158.15	4502.81	-1069.18	23460.83	4234.37	-1005.44	39281.54
1.50	1.75	3480.19	5791.54	-1375.18	19959.51	3889.30	-923.50	30821.86
1.75	2.00	-353.92	6699.28	-1590.72	16603.12	3598.73	-854.51	24101.99
2.00	2.25	-74111.87	7739.35	-1837.68	10375.40	3384.33	-803.60	-55254.07
2.25	2.50	23377.01	8241.71	-1956.97	10375.40	3219.42	-764.44	42492.13
2.50	2.75	15885.25	7819.54	-1856.72	10375.40	3054.51	-725.28	34552.69
2.75	3.00	8779.97	7397.37	-1756.48	10375.40	2889.60	-686.12	26999.73
3.00	3.25	4647.40	7052.63	-1674.62	6569.35	2754.93	-654.15	18695.54
3.25	3.50	2947.88	6785.33	-1611.15	6569.35	2650.52	-629.36	16712.57
3.50	3.75	2065.08	6518.03	-1547.68	6569.35	2546.10	-604.56	15546.32
3.75	4.00	1397.00	6250.72	-1484.21	6569.35	2441.69	-579.77	14594.78
4.00	4.25	1028.94	6026.61	-1431.00	4446.60	2354.14	-558.98	11866.31
4.25	4.50	1360.09	5845.68	-1388.04	4446.60	2283.47	-542.20	12005.60
4.50	4.75	1744.92	5664.75	-1345.07	4446.60	2212.79	-525.42	12198.56
4.75	5.00	1609.49	5483.82	-1302.11	4446.60	2142.12	-508.64	11871.27
5.00	6.00	3321.25	20526.01	-4873.83	12870.56	8017.97	-1903.84	37958.13
6.00	7.00	3616.84	18678.52	-4435.15	9831.68	7296.30	-1732.48	33255.71
7.00	8.00	3837.75	17238.36	-4093.19	7865.34	6733.73	-1598.90	29983.09
8.00	9.00	3941.88	16064.89	-3814.55	6554.45	6275.35	-1490.06	27531.96
9.00	10.00	2587.42	15073.26	-3579.09	5630.87	5887.99	-1398.08	24202.36
10.00	11.00	2060.69	14207.70	-3373.57	5005.22	5549.88	-1317.80	22132.13
11.00	12.00	1917.91	13431.86	-3189.35	4528.53	5246.82	-1245.84	20689.93
12.00	13.00	1779.28	12723.89	-3021.24	4171.02	4970.27	-1180.17	19443.04
13.00	14.00	781.50	12066.85	-2865.23	3902.88	4713.61	-1119.23	17480.38
14.00	15.00	146.69	11451.02	-2719.00	3664.54	4473.05	-1062.11	15954.18
15.00	16.00	60.87	10866.71	-2580.26	3515.57	4244.81	-1007.92	15099.78
16.00	17.00	58.29	10306.65	-2447.28	3366.61	4026.03	-955.97	14354.33
17.00	18.00	56.23	9768.40	-2319.47	3247.43	3815.78	-906.04	13662.33
18.00	19.00	54.68	9247.13	-2195.70	3158.05	3612.16	-857.69	13018.63
19.00	20.00	53.65	8737.98	-2074.80	3098.47	3413.27	-810.47	12418.10
20.00	21.00	52.10	8240.95	-1956.79	3009.09	3219.12	-764.37	11800.11
21.00	22.00	51.07	7756.05	-1841.65	2949.50	3029.71	-719.39	11225.29
22.00	23.00	50.04	7280.84	-1728.81	2889.92	2844.08	-675.32	10660.75
23.00	24.00	49.52	6812.91	-1617.70	2860.13	2661.29	-631.91	10134.23
24.00	25.00	48.49	6352.25	-1508.32	2800.54	2481.35	-589.19	9585.12
25.00	26.00	47.98	5898.86	-1400.66	2770.75	2304.24	-547.13	9074.03
26.00	27.00	46.94	5452.75	-1294.74	2711.16	2129.98	-505.76	8540.34
27.00	28.00	46.43	5013.91	-1190.54	2681.37	1958.56	-465.05	8044.68
28.00	29.00	45.91	4579.92	-1087.49	2651.57	1789.03	-424.80	7554.16
29.00	30.00	44.88	4153.21	-986.16	2591.99	1622.35	-385.22	7041.04
30.00	31.00	44.36	3733.76	-886.57	2562.20	1458.50	-346.32	6565.94
31.00	32.00	43.85	3319.17	-788.13	2532.40	1296.55	-307.86	6095.99
32.00	33.00	43.33	2909.43	-690.83	2502.61	1136.50	-269.86	5631.17
33.00	34.00	42.82	2504.53	-594.69	2472.82	978.33	-232.30	5171.50
34.00	35.00	42.30	2104.49	-499.70	2443.02	822.06	-195.20	4716.98
35.00	36.00	41.79	1709.29	-405.86	2413.23	667.69	-158.54	4267.59
36.00	37.00	41.27	1318.94	-313.18	2383.44	515.21	-122.34	3823.35
37.00	38.00	40.75	933.44	-221.64	2353.64	364.63	-86.58	3384.24
38.00	39.00	40.24	552.79	-131.26	2323.85	215.93	-51.27	2950.28
39.00	40.00	38.69	181.84	-43.18	2234.47	71.03	-16.87	2465.99

**INTERNAL RATE OF RETURN ANALYSIS
EXPLANATORY NOTES**

**DELAWARE PRE & POST TAX RETURNS
PAGE 1**

- Column (1) Invested Assets
Categories taken from Best's Aggregates and Averages with values as of December 31, 2005.
- Column (2) 12/31/05 Market Values
Treasuries, Exempt Bonds, Bonds for Unaffiliated and Affiliated Companies, Preferred Stock for Unaffiliated and Affiliated Companies and Common Stock for Unaffiliated and Affiliated Companies all taken from 2006 Best's Aggregates and Averages, Industry Total Schedule D.
- Column (3) Pre-Tax Return
Treasuries based on yields by Maturity published in Federal Reserve Statistical Release (July 9, 2007) H. 15 (519), weighted by loss payout pattern provided by DCRB for Delaware workers' compensation insurance.
- Exempt Bonds based on yields by Maturity published in Federal Reserve Statistical Release (July 9, 2007) H. 15 (519).
- Bonds based on yields published in Federal Reserve Statistical Release (July 9, 2007) H. 15 (519).
- Preferred stock yields based on Moody's Bond Record (May 2007 Book), Vol. 74, No. 5, p. 147.
- Common Stock Yield based on three month Treasury Bill rate (Federal Reserve) plus Ibbotson Differential (2007 Ibbotson Yearbook).
- Mortgages & Real Estate Yield based on three month Treasury Bill rate (Federal Reserve) plus Ibbotson Differential (Ibbotson & Seigel, AREUA Journal, Vol 12, No. 3, 1984).
- Cash & Short Term Investment yield based on short-term treasury yield as published in Federal Reserve (July 9, 2007) H. 15 (519).
- Column (4) Investment Gain
Product of 12/31/05 Market Value times Pre-Tax Return expressed as a decimal value by asset type.

**INTERNAL RATE OF RETURN ANALYSIS
EXPLANATORY NOTES**

**DELAWARE PRE & POST TAX RETURNS
PAGE 2**

Column (5) Tax Rate
 $(\text{Percent Taxable} \times .35) + ((1.0 - \text{Percent Taxable}) \times .15 \times .35)$

Percent Taxable Treasuries, Unaffiliated Bonds, Mortgages & Real Estate and Cash & Short Term Investments all assumed to be 100 percent taxable.

Exempt Bonds, Bonds in Affiliated Companies and Preferred Stock in Affiliated Companies all assumed to be tax-free.

Preferred Stock in Unaffiliated Companies: 30 percent of dividend income taxable per Tax Reform Act of 1986; all income attributed to dividends for preferred stock.

Common Stock of Affiliated Companies: 100 percent of capital gains in affiliated companies subject to income tax per Tax Reform Act of 1986. Portion of common stock income attributed to capital gains is 0.6529.

Common Stock of Unaffiliated Companies: Capital gains are taxed at the full rate, 30 percent of dividends are taxed at the full rate, and 15 percent of the remaining dividends (70 percent) are subject to tax. $(0.6529 \times 0.35) + (0.30 \times 0.35 \times 0.3471) + (0.70 \times 0.3471 \times 0.15 \times 0.35) = 0.2777$. Portions of common stock income attributable to dividend and capital gains from Ibbotson Associates: *Stocks, Bonds, Bills and Inflation: Red Book*, 2007 Edition, Table 6-7 (arithmetic mean), p. 119.

Column (6) Post Tax Return
Pre-Tax Return $\times (1.0 - \text{Tax Rate})$

INTERNAL RATE OF RETURN ANALYSIS
STATE OF DELAWARE - 2007
PRE & POST TAX RETURNS

Invested Assets (1)	Assets (2)	Pre Tax Return (3)	Investment Gain (4)	Tax Rate (5)	Post Tax Return (6)
Treasuries	142229564	5.04	7172435	0.35000	3.277858
Exempt Bonds	413902784	4.61	19080918	0.05250	4.367975
Bonds (Unaffil)	249464065	5.80	14468916	0.35000	3.770000
Bonds (Affiliated)	5659931	5.80	328276	0.05250	5.495500
Prefer Stk (Unaff)	9303780	5.81	540550	0.14175	4.986433
Prefer Stk (Affil)	2354716	5.81	136809	0.05250	5.504975
Common Stk (Unaff)	152159657	13.53	20587202	0.27770	9.772719
Common Stock (Affil)	46431536	13.53	6282187	0.24670	10.192149
Mortgage Loans	2907433	6.63	192763	0.35000	4.309500
Real Estate	9550766	8.89	849063	0.35000	5.778500
Cash and ST Invest	93072517	4.95	4607090	0.35000	3.217500
Average or Total	1127036749		74246207		4.997614

1. Assets are from the latest (2006) Best's A&A, Market Value Dec 31, 2005

2. Yields are from:

- a) Treasuries, Exempt Bonds, Other Bonds, Cash & Short Term Invest are from: Federal Reserve H.15(519), July 9, 2007.
- b) Preferred Stocks are from: Moody's Bond Record, May 2007, Vol. 74, No. 5, p. 147.
- c) Common Stock: 3 month Treasury (4.95) + Ibbotson Differential (8.58%)
Bill rate from Fed Reserve; Differential from 2007 Ibbotson Yearbook
- d) Real Estate: 3 month Treasury + Ibbotson Differential (3.94)
Differential from: Ibbotson & Seigel, AREUA Journal, Vol 12, No. 3, 1984

PRE TAX WEIGHTED PORTFOLIO YIELD - INVEST EXPENSE = 6.3577361

POST TAX WEIGHTED YIELD - POST TAX EXPENSE = 4.8481139

INTERNAL RATE OF RETURN ANALYSIS EXPLANATORY NOTES

DELAWARE COST OF CAPITAL

- All data taken from Value Line Investment Survey of June 22, 2007 and May 25, 2007
- All Property/Casualty Companies Selected with limited exceptions, such as reinsurers and carriers without any workers' compensation insurance writings
- Individual carrier inclusions/exclusions from selected list noted as having limited effect on indicated results.
- DCF FORECAST COST OF CAPITAL
 - = $.0188 \times (1.0 + 0.5 \times .0843) + .0843$
 - = $.0196 + .0843 = .1039$
- DCF HISTORICAL COST OF CAPITAL
 - = $.0188 \times (1.0 + 0.5 \times .2224) + .2224$
 - = $.0208 + .2224 = .2432$
- DCF DIVIDENDS ONLY COST OF CAPITAL
 - = $.0188 \times (1.0 + 0.5 \times .0693) + .0693$
 - = $.0194 + .0693 = .0887$
 - Note: $.0693 = \text{Average } (.0574, .0812)$

2007
DELAWARE
COST OF CAPITAL

COMPANY	BETA	YIELD	DIVIDEND PAST 5 YEARS	EARNINGS PAST 5 YEARS	EARNINGS FORECAST	DIVIDEND FORECAST	RETAINED TO EQUITY FORECAST
Ace Ltd	1.35	1.7	12.5	30.5	10.0	7.5	9.0
AIG	1.25	1.1	28.5	13.0	12.0	21.0	11.5
Allstate	0.90	2.6	13.0	13.5	9.5	7.5	11.0
Amer Fnl	1.00	1.2	-12.5	22.0	14.5	2.5	11.5
Berkley	0.95	0.6	6.0	100.0	9.0	17.0	11.5
Chubb	1.05	2.2	6.0	26.0	4.0	6.0	9.0
Cinc Fnl	0.90	3.2	11.5	23.5	1.5	6.0	3.5
Merc Gen	0.90	3.8	12.5	15.5	10.0	5.5	8.0
Ohio Cas	0.95	1.3	-18.5	28.5	5.0	0.0	7.0
Old Rep	1.05	2.9	11.5	8.5	3.5	10.0	6.0
Progressive	0.90	0.2	5.5	40.5	1.5	9.5	14.5
RLI Corp	0.85	1.6	15.5	100.0	7.5	12.0	10.0
Safeco	0.85	2.6	-6.0	100.0	5.5	11.5	9.0
Travelers	1.25	2.2	-2.0	100.0	12.0	5.0	9.0
Select	0.90	1.8	4.0	17.0	10.0	6.0	11.0
Trans Atl	0.80	1.0	9.5	11.0	14.5	12.5	10.0
XL Cap	1.05	1.9	0.5	9.0	0.0	-1.5	10.5
	0.99	1.88	5.74	38.74	7.65	8.12	9.53

SOURCE: VALUE LINE INVESTMENT SURVEY, JUNE 22 & MAY 25, 2007

DCF COST OF CAPITAL

FORECAST

A. EARNINGS	7.65
B. DIVIDEND	8.12
C. FUNDAMENT	9.53

FORECAST = (A+B+C)/3 8.43

FORECAST COST OF CAPITAL = 10.39 PERCENT

HISTORICAL

A. EARNINGS	38.74
B. DIVIDEND	5.74

HISTORICAL = (A+B)/2 22.24

HISTORICAL COST OF CAPITAL = 24.32 PERCENT

DIVIDENDS ONLY (GROWTH & HISTORICAL)

8.87 PERCENT

2007
DELAWARE
COST OF CAPITAL

A) CAPM COST OF CAPITAL	$4.95 + 0.99(8.58)$	=	13.44 PERCENT
B) DCF <u>FORECAST</u> COST OF CAPITAL			10.39 PERCENT
C) COST OF CAPITAL	$(A + B)/2$	=	11.92 PERCENT

SOURCES:

A: CAPM: BETA - VALUE LINE INVESTMENT SURVEY JUNE 22 & MAY 25, 2007

RF - 3 MONTH BILL RATE WEEK ENDED JULY 6. FEDERAL RESERVE H. 15 (JULY 9, 2007)
(4.95%)

RM - RF = IBBOTSON DIFFERENTIAL (STOCK MARKET TO 3 MONTH BILL

RATE, 1926 TO 2006 AVERAGE) = 8.58 VALUATION EDITION, 2007 VALUATION EDITION, TABLE 5-1.

B: DCF: $K = Y (1+0.5G) + G$

Y IS THE CURRENT DIVIDEND YIELD (FROM VALUE LINE)

G IS THE DIVIDEND GROWTH RATE (FROM VALUE LINE)

**INTERNAL RATE OF RETURN ANALYSIS
EXPLANATORY NOTES**

DELAWARE RESERVE-TO-SURPLUS RATIOS

Columns (1) – (4) Reserves and policyholder surplus for commercial casualty predomination carriers all taken from Best's Aggregates and Averages with values as of December 31, 2006.

Column (5) Reserve-to-Surplus ratio is the sum of the reserves in columns (1) through (3) divided by the policyholder surplus in column (4)

$$1,535,461,284 + 327,245,761 + 507,057,032 = 2,369,764,077$$
$$2,369,764,077 / 927,114,798 = 2.56$$

INTERNAL RATE OF RETURN ANALYSIS
 DELAWARE - 2007
 RESERVE-TO-SURPLUS RATIO

Year	Reserves				Policyholder Surplus (5)	Reserve to Surplus Ratio (6) =(4)/(5)
	Unpaid Losses (1)	Unpaid LAE (2)	Unearned Premium (3)	Total (4) =(1)+(2)+(3)		
2005	211,197,600	43,168,355	76,882,176	331,248,131	138,553,614	2.39
2004	186,078,584	38,187,562	71,937,436	296,203,582	123,435,772	2.40
2003	160,453,930	32,206,961	64,613,301	257,274,192	103,587,210	2.48
2002	139,574,754	27,979,630	52,712,587	220,266,971	77,496,222	2.84
2001	134,206,500	28,050,529	45,850,118	208,107,147	76,059,683	2.74
2000	130,686,933	29,119,080	42,033,438	201,839,451	82,264,557	2.45
1999	132,744,525	29,788,017	37,316,069	199,848,611	82,902,575	2.41
1998	145,071,595	32,449,224	39,512,433	217,033,252	88,468,350	2.45
1997	147,540,039	33,235,844	39,004,545	219,780,428	84,150,270	2.61
1996	147,906,824	33,060,559	37,194,929	218,162,312	70,196,545	3.11
Total	1,535,461,284	327,245,761	507,057,032	2,369,764,077	927,114,798	2.56

Source: AM Best's Aggregates & Averages - Property & Casualty
 Commercial Casualty Composite