

Dynamic Valuation and NonForfeiture Interest Rate Calculations

Report through: May-18	Current Year Averages Ending: June 2018	Prior Year Averages Ending: June 2017
Date Prepared: 06/14/18	12 Month: 4.05% 36 Month: 4.17%	12 Month: 4.05% 36 Month: 4.21%

LIFE INSURANCE CALCULATIONS

Projected 2019 Interest Rates			Val. Break Pt. Rate***		2018 Actual Interest Rates		
Duration	Val*	NFF**	Lower	Higher	Duration	Val	NFF**
10 or Less	3.75	4.75	0.76	43.56	10 or Less	3.75	4.75
10+ - 20	3.75	4.75	1.72	52.56	10+ - 20	3.75	4.75
More than 20	3.50	4.50	-4.04	52.56	More than 20	3.50	4.50

*Minimum change from previous year's rate is 50 basis points. **Function of Valuation Rate.
***These Columns reflect the average actual rate over the next 1 Month required to cause a 50 basis points change from the 2018 Actual Rate.

ANNUITY CALCULATIONS

SINGLE PREMIUM IMMEDIATE ANNUITY

2017 Actual Valuation Interest Rate: 3.75%

Projected 2018 Valuation Interest Rate: 3.75% Low Break Point: 1.12 High Break Point: 4.85

SINGLE PREMIUM or ANNUAL PREMIUM DEFERRED ANNUITY : Issue Year Basis

Issue Year Basis: 2018 Projected				Cash Settlement	Future Int. Guar.	Type A Break Pt.		Type C Break Pt.	
Duration	A	B	C			Lower	Higher	Lower	Higher
5 or Less	3.75	3.75	3.50			1.12	4.85	0.76	6.77
5+ - 10	3.75	3.75	3.50	Yes	Yes	1.72	5.69	0.76	6.77
10+ - 20	3.75	3.50	3.50			3.28	10.80	1.72	12.24
More than 20	3.50	3.25	3.25			1.72	12.24	-4.04	4.61
5 or Less	4.00	3.75	3.50			4.00	7.61	-0.08	5.33
5+ - 10	3.75	3.75	3.50	Yes	No	1.12	4.85	-0.08	5.33
10+ - 20	3.75	3.50	3.50			2.44	7.56	0.76	7.56
More than 20	3.50	3.50	3.50			0.76	7.56	2.92	18.72
5 or Less	3.75					1.12	4.85		
5+ - 10	3.75	N/A	N/A	No	Yes/No	1.72	5.69	N/A	N/A
10+ - 20	3.75					3.28	7.85		
More than 20	3.50					1.72	8.33		

SINGLE PREMIUM or ANNUAL PREMIUM DEFERRED ANNUITY : Change in Fund Basis

Change in Fund Basis: 2018 Projected				Cash Settlement	Future Int. Guar.	Type A Break Pt.		Type C Break Pt.	
Duration	A	B	C			Lower	Higher	Lower	Higher
5 or Less	4.00	4.00	3.50			2.80	5.93	-0.08	5.33
5+ - 10	4.00	4.00	3.50	Yes	Yes	3.40	6.77	-0.08	5.33
10+ - 20	3.75	3.75	3.50			1.12	4.85	0.76	6.77
More than 20	3.75	3.75	3.50			4.24	9.17	2.92	10.49
5 or Less	4.00	4.00	3.75			2.20	5.21	4.24	9.17
5+ - 10	4.00	4.00	3.75	Yes	No	2.80	5.93	4.24	9.17
10+ - 20	4.00	3.75	3.50			4.00	7.61	-0.08	5.33
More than 20	3.75	3.75	3.50			3.28	7.85	1.72	8.33

INDIVIDUAL DEFERRED ANNUITY MINIMUM NONFORFEITURE VALUES

Five-Year Constant Maturity Treasury Rates (Based on averages of the published Monthly rates.)

12 Month Average Ending Sep 2017: 1.80% For the Indicated Periods Ending May 2018: 12 Month - 2.22% 3 Month - 2.72% 1 Month - 2.82%

If one of the above rates is your basis, then the Minimum Nonforfeiture Interest Rate would be:

12 Month Average Ending Sep 2017: 1.00% For the Indicated Periods Ending May 2018: 12 Month - 1.00% 3 Month - 1.45% 1 Month - 1.55%

HISTORICAL TAX INTEREST RATES

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
4.06%	4.06%	3.81%	3.46%	2.89%	2.16%	1.79%	1.68%	1.56%	1.46%	1.66%

PROJECTED 2019 APPLICABLE FEDERAL INTEREST RATE: 1.92%