

Dynamic Valuation and NonForfeiture Interest Rate Calculations

Report through: Mar-18	Current Year Averages Ending: June 2018	Prior Year Averages Ending: June 2017
Date Prepared: 04/10/18	12 Month: 4.03% 36 Month: 4.16%	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	3.11	17.38	10 or Less	3.75	4.75
10+ - 20	3.75	4.75	3.43	20.38	10+ - 20	3.75	4.75
More than 20	3.50	4.50	1.51	20.38	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 3 Months 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: 3.23 High Break Point: 4.48

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	3.50	3.50			3.23	4.48	3.11	5.12
5+ - 10	3.75	3.50	3.50	Yes	Yes	3.43	4.76	3.11	5.12
10+ - 20	3.75	3.50	3.50			3.95	6.46	3.43	6.94
More than 20	3.50	3.25	3.25			3.43	6.94	1.51	4.40
5 or Less	4.00	3.75	3.50			4.19	5.40	2.83	4.64
5+ - 10	3.75	3.75	3.50	Yes	No	3.23	4.48	2.83	4.64
10+ - 20	3.75	3.50	3.50			3.67	5.38	3.11	5.38
More than 20	3.50	3.50	3.50			3.11	5.38	3.83	9.10
5 or Less	3.75					3.23	4.48		
5+ - 10	3.75	N/A	N/A	No	Yes/No	3.43	4.76	N/A	N/A
10+ - 20	3.75					3.95	5.48		
More than 20	3.50					3.43	5.64		

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			3.79	4.84	2.83	4.64
5+ - 10	4.00	4.00	3.50	Yes	Yes	3.99	5.12	2.83	4.64
10+ - 20	3.75	3.75	3.50			3.23	4.48	3.11	5.12
More than 20	3.50	3.50	3.50			2.59	4.28	3.83	6.36
5 or Less	4.00	4.00	3.50			3.59	4.60	2.59	4.28
5+ - 10	4.00	4.00	3.50	Yes	No	3.79	4.84	2.59	4.28
10+ - 20	4.00	3.75	3.50			4.19	5.40	2.83	4.64
More than 20	3.75	3.75	3.50			3.95	5.48	3.43	5.64

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 Mar 2018: 12 Month - 2.06% 3 Month - 2.54% 1 Month - 2.63%

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 Mar 2018: 12 Month - 1.00% 3 Month - 1.30% 1 Month - 1.40%

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: 1.90%