

IMPORTANT REINSURANCE NOTIFICATION

National Christian Foundation (NCF) may choose to reinsure (purchase a commercial annuity) to back some or all of the liability created by any CGA it issues and reserves the right to do so at its discretion. It is NCF's position that the reinsurance of the annuity payment obligation is a prudent risk management strategy that will further protect the annuitant's future payments and our unrestricted assets. The decision to reinsure is made by NCF and is typically the route that is taken. Should NCF decide to purchase a commercial annuity, this in no way changes the contractual obligation we have to the annuitant. Reinsurance not only offers the benefit of insuring the future payment stream to the annuitant, but enables NCF to make funds from the CGA immediately available for ministry use or investment.

The funds immediately available for ministry use or investment represent the present (current) value of the estimated future remainder (residuum). The next pages of this document provide table listings, as a percentage of the CGA funding amount, the portion available to give to ministry at the beginning, rather than the end, of the annuity. As background on how this percentage is derived, please read on:

The assumed investment growth is 6.75%. This investment assumption coupled with the American Council on Gift Annuities (ACGA) life expectancy, results in the present value of the future gift available to give to ministry.

For example, the present value of the future gift to charity for a 70 year old annuitant is 12.12% of the initial CGA funding amount. Therefore, \$100,000 CGA for a 70 year old annuitant is designed and assumed, based on ACGA payout rate assumptions, to pay charity, on average, an estimated \$50,000 on the (actuarial) date of death. In order to have \$50,000 at the assumed date of death, \$12,120 would need to be invested at 6.75% for their (actuarial) lifetime.

Therefore, under NCF's CGA program, we forward the present value of the future gift to your NCF Fund at the outset of the CGA. This gives you incredible flexibility. You can choose to grant this amount to ministries or leave it in your NCF Fund to grant anytime you choose in the future. The risk to reinsuring is an early death by the annuitant, which is generally unlikely, especially dealing with Christians who tend to live longer due to a generally healthier lifestyle.

Simply stated, with each new CGA:

1. NCF issues the CGA to the annuitant for the charitable benefit of their chosen ministry. The liability created by issuing the CGA and the lifetime administration (i.e. state permits & registrations, payments, 1099s) are NCF's responsibilities.
2. Once reinsured, your NCF Fund receives the present value of the future charitable remainder (residuum) at the onset (to grant now or invest for future growth).
3. The annuitant receives lifetime annuity payments, backed by NCF. (NCF purchases reinsurance to cover the payment obligation, but remains ultimately responsible and liable for lifetime payments to the annuitant and the ongoing administration of the CGA program). This provides the annuitant with a double layer of protection to ensure the payments will be received for their lifetime.

Please note that in the event the price of the reinsurance premium would cause NCF's portion to be less than \$500 or 1% of the funding amount (whichever is greater) to issue the CGA, your NCF Fund's portion will be reduced so that NCF may retain the greater of \$500 or 1% of the funding amount. For example, with an 85 year old annuitant funding a CGA with \$50,000, if the reinsurance premium amount is \$36,835 and your NCF Fund's portion is \$12,965, NCF's portion would be \$200 to issue the CGA ($\$50,000 - (\$36,835 + \$12,965) = \200). As a result, your NCF Fund's portion would be reduced by \$300, bringing your Giving Fund's adjusted amount to \$12,665.

As an alternative and if applicable, NCF will mitigate any or some reduction to your NCF Fund portion through a non-traditional reinsurance with a Single Premium Immediate Annuity (SPIA). If a SPIA is used for reinsurance, your NCF Fund portion will be delayed up to three (3) months beyond anticipated because of the lengthy process to reinsure with a SPIA.

When a CGA is reinsured, the tables below can be used to calculate the present value of the future gift (the amount your Giving Fund will receive at the beginning, rather than at the end, of the annuity). NCF used the ACGA recommended payout rates. The below percentages are based on the following ACGA Assumption Formula:

The National Association of Insurance Commissioners (NAIC) has recommended the use of a new mortality table for annuities issued after January 1, 2015. Known as the 2012 Individual Annuity Reserving Table (2012 IAR), the new table is designed to reflect annuitant mortality more accurately over time. ACGA determined the new “best fit” assumption was a 45-55 blend of the 2012 IAR male and female mortality with no age setback with a 1% annual mortality improvement.

**One Life Payout Grid Using
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement -
Effective January 2024**

IAM 2012 with 1% Improvement			IAM 2012 with 1% Improvement		
Age	Life Expectancy	Payout	Age	Life Expectancy	Payout
50	40.77	3.49%	80	13.44	20.78%
51	39.77	3.72%	81	12.72	21.78%
52	38.77	3.97%	82	12.02	22.80%
53	37.78	4.24%	83	11.34	23.84%
54	36.79	4.52%	84	10.68	24.89%
55	35.80	4.82%	85	10.05	25.93%
56	34.82	5.14%	86	9.45	26.97%
57	33.85	5.48%	87	8.87	28.01%
58	32.88	5.84%	88	8.32	29.04%
59	31.91	6.22%	89	7.80	30.04%
60	30.95	6.62%	90	7.31	31.02%
61	29.99	7.05%	91	6.85	31.96%
62	29.04	7.50%	92	6.42	32.87%
63	28.10	7.98%	93	6.02	33.74%
64	27.16	8.48%	94	5.65	34.57%
65	26.23	9.01%	95	5.30	35.37%
66	25.31	9.57%	96	4.96	36.16%
67	24.39	10.16%	97	4.64	36.93%
68	23.48	10.79%	98	4.31	37.73%
69	22.58	11.44%	99	3.98	38.55%
70	21.69	12.12%	100	3.66	39.37%
71	20.80	12.85%			
72	19.92	13.61%			
73	19.06	14.40%			
74	18.20	15.23%			
75	17.37	16.08%			
76	16.54	16.97%			
77	15.74	17.88%			
78	14.95	18.83%			
79	14.19	19.79%			

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
50	50	46.71	2.37%	50	76	41.15	3.40%
50	51	46.22	2.44%	50	77	41.11	3.41%
50	52	45.75	2.52%	50	78	41.07	3.42%
50	53	45.32	2.59%	50	79	41.03	3.43%
50	54	44.91	2.66%	50	80	41.00	3.43%
50	55	44.54	2.73%	50	81	40.97	3.44%
50	56	44.19	2.79%	50	82	40.95	3.45%
50	57	43.87	2.85%	50	83	40.93	3.45%
50	58	43.58	2.90%	50	84	40.91	3.45%
50	59	43.31	2.95%	50	85	40.89	3.46%
50	60	43.06	3.00%	50	86	40.87	3.46%
50	61	42.83	3.05%	50	87	40.86	3.47%
50	62	42.63	3.09%	50	88	40.85	3.47%
50	63	42.44	3.13%	50	89	40.84	3.47%
50	64	42.27	3.16%	50	90	40.83	3.47%
50	65	42.12	3.19%	50	91	40.82	3.48%
50	66	41.98	3.22%	50	92	40.81	3.48%
50	67	41.85	3.25%	50	93	40.81	3.48%
50	68	41.74	3.27%	50	94	40.80	3.48%
50	69	41.64	3.29%	50	95	40.80	3.48%
50	70	41.54	3.32%	50	96	40.80	3.48%
50	71	41.46	3.33%	50	97	40.79	3.48%
50	72	41.38	3.35%	50	98	40.79	3.48%
50	73	41.32	3.36%	50	99	40.79	3.48%
50	74	41.25	3.38%	50	100	40.78	3.48%
50	75	41.20	3.39%				

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
51	50	46.22	2.44%	51	76	40.19	3.62%
51	51	45.69	2.53%	51	77	40.14	3.63%
51	52	45.20	2.61%	51	78	40.10	3.64%
51	53	44.73	2.69%	51	79	40.06	3.65%
51	54	44.30	2.77%	51	80	40.02	3.66%
51	55	43.89	2.84%	51	81	39.99	3.67%
51	56	43.52	2.91%	51	82	39.96	3.68%
51	57	43.17	2.98%	51	83	39.94	3.68%
51	58	42.85	3.04%	51	84	39.92	3.69%
51	59	42.56	3.10%	51	85	39.90	3.69%
51	60	42.29	3.16%	51	86	39.88	3.70%
51	61	42.04	3.21%	51	87	39.87	3.70%
51	62	41.81	3.26%	51	88	39.86	3.70%
51	63	41.61	3.30%	51	89	39.84	3.71%
51	64	41.42	3.34%	51	90	39.83	3.71%
51	65	41.25	3.38%	51	91	39.83	3.71%
51	66	41.10	3.41%	51	92	39.82	3.71%
51	67	40.96	3.44%	51	93	39.81	3.71%
51	68	40.84	3.47%	51	94	39.81	3.71%
51	69	40.72	3.50%	51	95	39.80	3.71%
51	70	40.62	3.52%	51	96	39.80	3.71%
51	71	40.53	3.54%	51	97	39.79	3.72%
51	72	40.44	3.56%	51	98	39.79	3.72%
51	73	40.37	3.58%	51	99	39.79	3.72%
51	74	40.30	3.60%	51	100	39.78	3.72%
51	75	40.24	3.61%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
52	50	45.75	2.52%	52	76	39.23	3.86%		
52	51	45.20	2.61%	52	77	39.18	3.87%		
52	52	44.67	2.70%	52	78	39.13	3.88%		
52	53	44.18	2.79%	52	79	39.09	3.89%		
52	54	43.71	2.88%	52	80	39.05	3.90%		
52	55	43.28	2.96%	52	81	39.02	3.91%		
52	56	42.87	3.04%	52	82	38.99	3.92%		
52	57	42.50	3.11%	52	83	38.96	3.92%		
52	58	42.15	3.19%	52	84	38.94	3.93%		
52	59	41.83	3.25%	52	85	38.92	3.93%		
52	60	41.54	3.32%	52	86	38.90	3.94%		
52	61	41.27	3.37%	52	87	38.88	3.94%		
52	62	41.02	3.43%	52	88	38.87	3.95%		
52	63	40.80	3.48%	52	89	38.85	3.95%		
52	64	40.59	3.53%	52	90	38.84	3.96%		
52	65	40.41	3.57%	52	91	38.83	3.96%		
52	66	40.24	3.61%	52	92	38.83	3.96%		
52	67	40.08	3.65%	52	93	38.82	3.96%		
52	68	39.95	3.68%	52	94	38.81	3.96%		
52	69	39.82	3.71%	52	95	38.81	3.96%		
52	70	39.71	3.74%	52	96	38.80	3.97%		
52	71	39.61	3.76%	52	97	38.80	3.97%		
52	72	39.52	3.78%	52	98	38.79	3.97%		
52	73	39.43	3.81%	52	99	38.79	3.97%		
52	74	39.36	3.82%	52	100	38.79	3.97%		
52	75	39.29	3.84%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
53	50	45.32	2.59%	53	76	38.29	4.10%		
53	51	44.73	2.69%	53	77	38.23	4.12%		
53	52	44.18	2.79%	53	78	38.17	4.13%		
53	53	43.65	2.89%	53	79	38.13	4.14%		
53	54	43.16	2.98%	53	80	38.09	4.15%		
53	55	42.69	3.08%	53	81	38.05	4.16%		
53	56	42.26	3.16%	53	82	38.01	4.18%		
53	57	41.86	3.25%	53	83	37.99	4.18%		
53	58	41.48	3.33%	53	84	37.96	4.19%		
53	59	41.14	3.40%	53	85	37.94	4.19%		
53	60	40.82	3.48%	53	86	37.92	4.20%		
53	61	40.52	3.54%	53	87	37.90	4.21%		
53	62	40.25	3.61%	53	88	37.88	4.21%		
53	63	40.01	3.66%	53	89	37.87	4.21%		
53	64	39.78	3.72%	53	90	37.86	4.22%		
53	65	39.58	3.77%	53	91	37.85	4.22%		
53	66	39.39	3.82%	53	92	37.84	4.22%		
53	67	39.23	3.86%	53	93	37.83	4.22%		
53	68	39.07	3.90%	53	94	37.82	4.23%		
53	69	38.93	3.93%	53	95	37.82	4.23%		
53	70	38.81	3.96%	53	96	37.81	4.23%		
53	71	38.70	3.99%	53	97	37.81	4.23%		
53	72	38.60	4.02%	53	98	37.80	4.23%		
53	73	38.51	4.04%	53	99	37.80	4.23%		
53	74	38.42	4.07%	53	100	37.80	4.23%		
53	75	38.35	4.08%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
54	50	44.91	2.66%	54	76	37.35	4.36%		
54	51	44.30	2.77%	54	77	37.28	4.38%		
54	52	43.71	2.88%	54	78	37.22	4.40%		
54	53	43.16	2.98%	54	79	37.17	4.41%		
54	54	42.63	3.09%	54	80	37.13	4.42%		
54	55	42.14	3.19%	54	81	37.09	4.43%		
54	56	41.67	3.29%	54	82	37.05	4.45%		
54	57	41.24	3.38%	54	83	37.02	4.45%		
54	58	40.84	3.47%	54	84	36.99	4.46%		
54	59	40.47	3.56%	54	85	36.96	4.47%		
54	60	40.12	3.64%	54	86	36.94	4.48%		
54	61	39.80	3.71%	54	87	36.92	4.48%		
54	62	39.51	3.79%	54	88	36.90	4.49%		
54	63	39.24	3.85%	54	89	36.89	4.49%		
54	64	39.00	3.91%	54	90	36.88	4.50%		
54	65	38.77	3.97%	54	91	36.86	4.50%		
54	66	38.57	4.03%	54	92	36.85	4.50%		
54	67	38.38	4.08%	54	93	36.85	4.50%		
54	68	38.21	4.12%	54	94	36.84	4.51%		
54	69	38.06	4.16%	54	95	36.83	4.51%		
54	70	37.93	4.20%	54	96	36.83	4.51%		
54	71	37.80	4.23%	54	97	36.82	4.51%		
54	72	37.69	4.26%	54	98	36.82	4.51%		
54	73	37.59	4.29%	54	99	36.81	4.52%		
54	74	37.50	4.32%	54	100	36.81	4.52%		
54	75	37.42	4.34%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
55	50	44.54	2.73%	55	76	36.42	4.63%		
55	51	43.89	2.84%	55	77	36.35	4.65%		
55	52	43.28	2.96%	55	78	36.28	4.68%		
55	53	42.69	3.08%	55	79	36.23	4.69%		
55	54	42.14	3.19%	55	80	36.18	4.71%		
55	55	41.61	3.30%	55	81	36.13	4.72%		
55	56	41.12	3.41%	55	82	36.09	4.73%		
55	57	40.66	3.51%	55	83	36.05	4.75%		
55	58	40.23	3.61%	55	84	36.02	4.76%		
55	59	39.83	3.71%	55	85	36.00	4.76%		
55	60	39.45	3.80%	55	86	35.97	4.77%		
55	61	39.11	3.89%	55	87	35.95	4.78%		
55	62	38.79	3.97%	55	88	35.93	4.78%		
55	63	38.50	4.04%	55	89	35.91	4.79%		
55	64	38.23	4.12%	55	90	35.90	4.79%		
55	65	37.99	4.18%	55	91	35.89	4.80%		
55	66	37.76	4.24%	55	92	35.88	4.80%		
55	67	37.56	4.30%	55	93	35.87	4.80%		
55	68	37.37	4.35%	55	94	35.86	4.81%		
55	69	37.21	4.40%	55	95	35.85	4.81%		
55	70	37.06	4.44%	55	96	35.84	4.81%		
55	71	36.92	4.48%	55	97	35.84	4.81%		
55	72	36.80	4.52%	55	98	35.83	4.81%		
55	73	36.69	4.55%	55	99	35.83	4.81%		
55	74	36.59	4.58%	55	100	35.82	4.82%		
55	75	36.50	4.61%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
56	50	44.19	2.79%	56	76	35.50	4.92%		
56	51	43.52	2.91%	56	77	35.42	4.95%		
56	52	42.87	3.04%	56	78	35.35	4.97%		
56	53	42.26	3.16%	56	79	35.29	4.99%		
56	54	41.67	3.29%	56	80	35.23	5.01%		
56	55	41.12	3.41%	56	81	35.18	5.02%		
56	56	40.60	3.53%	56	82	35.14	5.04%		
56	57	40.11	3.64%	56	83	35.10	5.05%		
56	58	39.65	3.75%	56	84	35.06	5.06%		
56	59	39.22	3.86%	56	85	35.03	5.07%		
56	60	38.81	3.96%	56	86	35.01	5.08%		
56	61	38.44	4.06%	56	87	34.98	5.09%		
56	62	38.10	4.15%	56	88	34.96	5.10%		
56	63	37.78	4.24%	56	89	34.94	5.10%		
56	64	37.49	4.32%	56	90	34.93	5.11%		
56	65	37.22	4.40%	56	91	34.91	5.11%		
56	66	36.98	4.47%	56	92	34.90	5.12%		
56	67	36.76	4.53%	56	93	34.89	5.12%		
56	68	36.55	4.59%	56	94	34.88	5.12%		
56	69	36.37	4.65%	56	95	34.88	5.12%		
56	70	36.20	4.70%	56	96	34.87	5.13%		
56	71	36.05	4.75%	56	97	34.86	5.13%		
56	72	35.92	4.79%	56	98	34.86	5.13%		
56	73	35.80	4.82%	56	99	34.85	5.13%		
56	74	35.69	4.86%	56	100	34.85	5.13%		
56	75	35.59	4.89%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
57	50	43.87	2.85%	57	76	34.59	5.22%		
57	51	43.17	2.98%	57	77	34.51	5.25%		
57	52	42.50	3.11%	57	78	34.43	5.28%		
57	53	41.86	3.25%	57	79	34.36	5.30%		
57	54	41.24	3.38%	57	80	34.30	5.32%		
57	55	40.66	3.51%	57	81	34.24	5.34%		
57	56	40.11	3.64%	57	82	34.19	5.36%		
57	57	39.59	3.77%	57	83	34.15	5.37%		
57	58	39.09	3.89%	57	84	34.11	5.39%		
57	59	38.63	4.01%	57	85	34.08	5.40%		
57	60	38.21	4.12%	57	86	34.05	5.41%		
57	61	37.80	4.23%	57	87	34.02	5.42%		
57	62	37.43	4.34%	57	88	34.00	5.43%		
57	63	37.09	4.43%	57	89	33.98	5.43%		
57	64	36.77	4.53%	57	90	33.96	5.44%		
57	65	36.48	4.61%	57	91	33.95	5.44%		
57	66	36.22	4.69%	57	92	33.94	5.45%		
57	67	35.97	4.77%	57	93	33.92	5.45%		
57	68	35.75	4.84%	57	94	33.91	5.46%		
57	69	35.55	4.90%	57	95	33.90	5.46%		
57	70	35.37	4.96%	57	96	33.90	5.46%		
57	71	35.20	5.02%	57	97	33.89	5.46%		
57	72	35.05	5.07%	57	98	33.88	5.47%		
57	73	34.92	5.11%	57	99	33.88	5.47%		
57	74	34.80	5.15%	57	100	33.87	5.47%		
57	75	34.69	5.19%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
58	50	43.58	2.90%	58	76	33.70	5.53%		
58	51	42.85	3.04%	58	77	33.60	5.57%		
58	52	42.15	3.19%	58	78	33.52	5.60%		
58	53	41.48	3.33%	58	79	33.44	5.63%		
58	54	40.84	3.47%	58	80	33.37	5.65%		
58	55	40.23	3.61%	58	81	33.31	5.68%		
58	56	39.65	3.75%	58	82	33.26	5.69%		
58	57	39.09	3.89%	58	83	33.21	5.71%		
58	58	38.57	4.03%	58	84	33.17	5.73%		
58	59	38.08	4.16%	58	85	33.13	5.74%		
58	60	37.63	4.28%	58	86	33.10	5.75%		
58	61	37.20	4.40%	58	87	33.07	5.77%		
58	62	36.80	4.52%	58	88	33.05	5.77%		
58	63	36.43	4.63%	58	89	33.02	5.78%		
58	64	36.09	4.73%	58	90	33.00	5.79%		
58	65	35.77	4.83%	58	91	32.99	5.80%		
58	66	35.48	4.93%	58	92	32.97	5.80%		
58	67	35.21	5.01%	58	93	32.96	5.81%		
58	68	34.97	5.09%	58	94	32.95	5.81%		
58	69	34.75	5.17%	58	95	32.94	5.81%		
58	70	34.55	5.23%	58	96	32.93	5.82%		
58	71	34.37	5.30%	58	97	32.92	5.82%		
58	72	34.21	5.35%	58	98	32.92	5.82%		
58	73	34.06	5.40%	58	99	32.91	5.83%		
58	74	33.92	5.45%	58	100	32.90	5.83%		
58	75	33.80	5.50%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
59	50	43.31	2.95%	59	76	32.81	5.86%
59	51	42.56	3.10%	59	77	32.71	5.90%
59	52	41.83	3.25%	59	78	32.61	5.94%
59	53	41.14	3.40%	59	79	32.53	5.97%
59	54	40.47	3.56%	59	80	32.46	6.00%
59	55	39.83	3.71%	59	81	32.39	6.03%
59	56	39.22	3.86%	59	82	32.33	6.05%
59	57	38.63	4.01%	59	83	32.28	6.07%
59	58	38.08	4.16%	59	84	32.23	6.09%
59	59	37.57	4.30%	59	85	32.19	6.11%
59	60	37.08	4.44%	59	86	32.16	6.12%
59	61	36.62	4.57%	59	87	32.12	6.13%
59	62	36.19	4.70%	59	88	32.10	6.14%
59	63	35.79	4.83%	59	89	32.07	6.15%
59	64	35.42	4.95%	59	90	32.05	6.16%
59	65	35.08	5.06%	59	91	32.03	6.17%
59	66	34.77	5.16%	59	92	32.02	6.17%
59	67	34.48	5.26%	59	93	32.00	6.18%
59	68	34.22	5.35%	59	94	31.99	6.19%
59	69	33.97	5.44%	59	95	31.98	6.19%
59	70	33.75	5.52%	59	96	31.97	6.20%
59	71	33.56	5.58%	59	97	31.96	6.20%
59	72	33.37	5.65%	59	98	31.95	6.20%
59	73	33.21	5.71%	59	99	31.95	6.20%
59	74	33.06	5.77%	59	100	31.94	6.21%
59	75	32.93	5.82%				

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
60	50	43.06	3.00%	60	76	31.95	6.20%
60	51	42.29	3.16%	60	77	31.83	6.25%
60	52	41.54	3.32%	60	78	31.73	6.29%
60	53	40.82	3.48%	60	79	31.63	6.33%
60	54	40.12	3.64%	60	80	31.55	6.37%
60	55	39.45	3.80%	60	81	31.48	6.40%
60	56	38.81	3.96%	60	82	31.41	6.43%
60	57	38.21	4.12%	60	83	31.35	6.45%
60	58	37.63	4.28%	60	84	31.30	6.47%
60	59	37.08	4.44%	60	85	31.26	6.49%
60	60	36.56	4.59%	60	86	31.22	6.51%
60	61	36.07	4.74%	60	87	31.18	6.52%
60	62	35.61	4.88%	60	88	31.15	6.54%
60	63	35.19	5.02%	60	89	31.13	6.54%
60	64	34.79	5.15%	60	90	31.10	6.56%
60	65	34.42	5.28%	60	91	31.08	6.57%
60	66	34.08	5.40%	60	92	31.07	6.57%
60	67	33.77	5.51%	60	93	31.05	6.58%
60	68	33.48	5.61%	60	94	31.04	6.58%
60	69	33.22	5.71%	60	95	31.03	6.59%
60	70	32.98	5.80%	60	96	31.02	6.59%
60	71	32.76	5.88%	60	97	31.01	6.60%
60	72	32.56	5.96%	60	98	31.00	6.60%
60	73	32.38	6.03%	60	99	30.99	6.60%
60	74	32.22	6.09%	60	100	30.98	6.61%
60	75	32.08	6.15%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
61	50	42.83	3.05%	61	76	31.09	6.56%		
61	51	42.04	3.21%	61	77	30.96	6.62%		
61	52	41.27	3.37%	61	78	30.85	6.67%		
61	53	40.52	3.54%	61	79	30.75	6.71%		
61	54	39.80	3.71%	61	80	30.66	6.75%		
61	55	39.11	3.89%	61	81	30.57	6.79%		
61	56	38.44	4.06%	61	82	30.50	6.82%		
61	57	37.80	4.23%	61	83	30.44	6.85%		
61	58	37.20	4.40%	61	84	30.38	6.87%		
61	59	36.62	4.57%	61	85	30.33	6.90%		
61	60	36.07	4.74%	61	86	30.29	6.91%		
61	61	35.55	4.90%	61	87	30.25	6.93%		
61	62	35.07	5.06%	61	88	30.22	6.95%		
61	63	34.61	5.21%	61	89	30.19	6.96%		
61	64	34.19	5.36%	61	90	30.16	6.97%		
61	65	33.79	5.50%	61	91	30.14	6.98%		
61	66	33.43	5.63%	61	92	30.12	6.99%		
61	67	33.09	5.76%	61	93	30.11	7.00%		
61	68	32.77	5.88%	61	94	30.09	7.00%		
61	69	32.49	5.99%	61	95	30.08	7.01%		
61	70	32.23	6.09%	61	96	30.07	7.01%		
61	71	31.99	6.19%	61	97	30.06	7.02%		
61	72	31.77	6.28%	61	98	30.05	7.02%		
61	73	31.57	6.36%	61	99	30.04	7.03%		
61	74	31.40	6.43%	61	100	30.03	7.03%		
61	75	31.24	6.50%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
62	50	42.63	3.09%	62	76	30.26	6.93%		
62	51	41.81	3.26%	62	77	30.11	7.00%		
62	52	41.02	3.43%	62	78	29.99	7.05%		
62	53	40.25	3.61%	62	79	29.87	7.11%		
62	54	39.51	3.79%	62	80	29.77	7.15%		
62	55	38.79	3.97%	62	81	29.68	7.19%		
62	56	38.10	4.15%	62	82	29.60	7.23%		
62	57	37.43	4.34%	62	83	29.53	7.27%		
62	58	36.80	4.52%	62	84	29.47	7.29%		
62	59	36.19	4.70%	62	85	29.42	7.32%		
62	60	35.61	4.88%	62	86	29.37	7.34%		
62	61	35.07	5.06%	62	87	29.33	7.36%		
62	62	34.55	5.23%	62	88	29.29	7.38%		
62	63	34.07	5.40%	62	89	29.26	7.39%		
62	64	33.61	5.57%	62	90	29.23	7.41%		
62	65	33.19	5.72%	62	91	29.21	7.42%		
62	66	32.80	5.87%	62	92	29.18	7.43%		
62	67	32.43	6.01%	62	93	29.17	7.44%		
62	68	32.09	6.15%	62	94	29.15	7.45%		
62	69	31.78	6.27%	62	95	29.14	7.45%		
62	70	31.50	6.39%	62	96	29.12	7.46%		
62	71	31.24	6.50%	62	97	29.11	7.47%		
62	72	31.00	6.60%	62	98	29.10	7.47%		
62	73	30.79	6.69%	62	99	29.09	7.48%		
62	74	30.59	6.78%	62	100	29.09	7.48%		
62	75	30.41	6.86%						

Joint Two Life Payout Grid
 6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
 Improvement – Two Lives
 Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
63	50	42.44	3.13%	63	76	29.44	7.31%
63	51	41.61	3.30%	63	77	29.28	7.39%
63	52	40.80	3.48%	63	78	29.14	7.45%
63	53	40.01	3.66%	63	79	29.02	7.51%
63	54	39.24	3.85%	63	80	28.91	7.57%
63	55	38.50	4.04%	63	81	28.81	7.62%
63	56	37.78	4.24%	63	82	28.72	7.66%
63	57	37.09	4.43%	63	83	28.64	7.70%
63	58	36.43	4.63%	63	84	28.57	7.74%
63	59	35.79	4.83%	63	85	28.51	7.77%
63	60	35.19	5.02%	63	86	28.46	7.79%
63	61	34.61	5.21%	63	87	28.41	7.82%
63	62	34.07	5.40%	63	88	28.37	7.84%
63	63	33.55	5.59%	63	89	28.34	7.85%
63	64	33.07	5.77%	63	90	28.30	7.87%
63	65	32.62	5.94%	63	91	28.28	7.88%
63	66	32.20	6.10%	63	92	28.25	7.90%
63	67	31.80	6.26%	63	93	28.23	7.91%
63	68	31.44	6.41%	63	94	28.22	7.91%
63	69	31.10	6.56%	63	95	28.20	7.92%
63	70	30.80	6.69%	63	96	28.19	7.93%
63	71	30.51	6.82%	63	97	28.17	7.94%
63	72	30.25	6.93%	63	98	28.16	7.95%
63	73	30.02	7.04%	63	99	28.15	7.95%
63	74	29.80	7.14%	63	100	28.15	7.95%
63	75	29.61	7.23%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
64	50	42.27	3.16%	64	76	28.64	7.70%		
64	51	41.42	3.34%	64	77	28.47	7.79%		
64	52	40.59	3.53%	64	78	28.31	7.87%		
64	53	39.78	3.72%	64	79	28.17	7.94%		
64	54	39.00	3.91%	64	80	28.05	8.00%		
64	55	38.23	4.12%	64	81	27.94	8.06%		
64	56	37.49	4.32%	64	82	27.85	8.11%		
64	57	36.77	4.53%	64	83	27.76	8.16%		
64	58	36.09	4.73%	64	84	27.68	8.20%		
64	59	35.42	4.95%	64	85	27.62	8.23%		
64	60	34.79	5.15%	64	86	27.56	8.26%		
64	61	34.19	5.36%	64	87	27.51	8.29%		
64	62	33.61	5.57%	64	88	27.46	8.32%		
64	63	33.07	5.77%	64	89	27.42	8.34%		
64	64	32.56	5.96%	64	90	27.39	8.36%		
64	65	32.08	6.15%	64	91	27.36	8.37%		
64	66	31.63	6.33%	64	92	27.33	8.39%		
64	67	31.21	6.51%	64	93	27.31	8.40%		
64	68	30.82	6.68%	64	94	27.29	8.41%		
64	69	30.45	6.84%	64	95	27.27	8.42%		
64	70	30.12	6.99%	64	96	27.26	8.43%		
64	71	29.81	7.13%	64	97	27.24	8.44%		
64	72	29.53	7.27%	64	98	27.23	8.44%		
64	73	29.27	7.39%	64	99	27.22	8.45%		
64	74	29.04	7.50%	64	100	27.21	8.45%		
64	75	28.83	7.61%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
65	50	42.12	3.19%	65	76	27.86	8.10%		
65	51	41.25	3.38%	65	77	27.67	8.20%		
65	52	40.41	3.57%	65	78	27.50	8.30%		
65	53	39.58	3.77%	65	79	27.35	8.38%		
65	54	38.77	3.97%	65	80	27.21	8.45%		
65	55	37.99	4.18%	65	81	27.09	8.52%		
65	56	37.22	4.40%	65	82	26.99	8.58%		
65	57	36.48	4.61%	65	83	26.89	8.63%		
65	58	35.77	4.83%	65	84	26.81	8.68%		
65	59	35.08	5.06%	65	85	26.73	8.72%		
65	60	34.42	5.28%	65	86	26.67	8.76%		
65	61	33.79	5.50%	65	87	26.61	8.79%		
65	62	33.19	5.72%	65	88	26.56	8.82%		
65	63	32.62	5.94%	65	89	26.52	8.84%		
65	64	32.08	6.15%	65	90	26.48	8.87%		
65	65	31.57	6.36%	65	91	26.45	8.88%		
65	66	31.09	6.56%	65	92	26.42	8.90%		
65	67	30.64	6.76%	65	93	26.39	8.92%		
65	68	30.22	6.95%	65	94	26.37	8.93%		
65	69	29.83	7.12%	65	95	26.35	8.94%		
65	70	29.47	7.29%	65	96	26.34	8.95%		
65	71	29.14	7.45%	65	97	26.32	8.96%		
65	72	28.83	7.61%	65	98	26.31	8.97%		
65	73	28.55	7.75%	65	99	26.30	8.97%		
65	74	28.30	7.87%	65	100	26.29	8.98%		
65	75	28.07	7.99%						

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
66	50	41.98	3.22%	66	76	27.10	8.52%
66	51	41.10	3.41%	66	77	26.90	8.63%
66	52	40.24	3.61%	66	78	26.71	8.74%
66	53	39.39	3.82%	66	79	26.54	8.83%
66	54	38.57	4.03%	66	80	26.39	8.92%
66	55	37.76	4.24%	66	81	26.26	9.00%
66	56	36.98	4.47%	66	82	26.14	9.07%
66	57	36.22	4.69%	66	83	26.04	9.13%
66	58	35.48	4.93%	66	84	25.94	9.19%
66	59	34.77	5.16%	66	85	25.86	9.23%
66	60	34.08	5.40%	66	86	25.79	9.28%
66	61	33.43	5.63%	66	87	25.73	9.31%
66	62	32.80	5.87%	66	88	25.67	9.35%
66	63	32.20	6.10%	66	89	25.62	9.38%
66	64	31.63	6.33%	66	90	25.58	9.40%
66	65	31.09	6.56%	66	91	25.55	9.42%
66	66	30.58	6.78%	66	92	25.51	9.45%
66	67	30.10	7.00%	66	93	25.49	9.46%
66	68	29.66	7.20%	66	94	25.46	9.48%
66	69	29.24	7.40%	66	95	25.44	9.49%
66	70	28.85	7.60%	66	96	25.42	9.50%
66	71	28.49	7.78%	66	97	25.41	9.51%
66	72	28.16	7.95%	66	98	25.39	9.52%
66	73	27.86	8.10%	66	99	25.38	9.53%
66	74	27.58	8.25%	66	100	25.37	9.53%
66	75	27.33	8.39%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
67	50	41.85	3.25%	67	76	26.37	8.93%		
67	51	40.96	3.44%	67	77	26.14	9.07%		
67	52	40.08	3.65%	67	78	25.94	9.19%		
67	53	39.23	3.86%	67	79	25.76	9.29%		
67	54	38.38	4.08%	67	80	25.59	9.40%		
67	55	37.56	4.30%	67	81	25.44	9.49%		
67	56	36.76	4.53%	67	82	25.31	9.57%		
67	57	35.97	4.77%	67	83	25.20	9.64%		
67	58	35.21	5.01%	67	84	25.10	9.70%		
67	59	34.48	5.26%	67	85	25.00	9.77%		
67	60	33.77	5.51%	67	86	24.93	9.81%		
67	61	33.09	5.76%	67	87	24.86	9.86%		
67	62	32.43	6.01%	67	88	24.79	9.90%		
67	63	31.80	6.26%	67	89	24.74	9.93%		
67	64	31.21	6.51%	67	90	24.69	9.97%		
67	65	30.64	6.76%	67	91	24.65	9.99%		
67	66	30.10	7.00%	67	92	24.62	10.01%		
67	67	29.60	7.23%	67	93	24.59	10.03%		
67	68	29.12	7.46%	67	94	24.56	10.05%		
67	69	28.68	7.68%	67	95	24.54	10.07%		
67	70	28.26	7.89%	67	96	24.52	10.08%		
67	71	27.88	8.09%	67	97	24.50	10.09%		
67	72	27.52	8.28%	67	98	24.48	10.10%		
67	73	27.19	8.47%	67	99	24.47	10.11%		
67	74	26.89	8.63%	67	100	24.46	10.12%		
67	75	26.62	8.79%						

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
68	50	41.74	3.27%	68	76	25.66	9.36%
68	51	40.84	3.47%	68	77	25.41	9.51%
68	52	39.95	3.68%	68	78	25.19	9.65%
68	53	39.07	3.90%	68	79	24.99	9.77%
68	54	38.21	4.12%	68	80	24.81	9.89%
68	55	37.37	4.35%	68	81	24.65	9.99%
68	56	36.55	4.59%	68	82	24.50	10.09%
68	57	35.75	4.84%	68	83	24.38	10.17%
68	58	34.97	5.09%	68	84	24.26	10.25%
68	59	34.22	5.35%	68	85	24.16	10.32%
68	60	33.48	5.61%	68	86	24.07	10.38%
68	61	32.77	5.88%	68	87	24.00	10.43%
68	62	32.09	6.15%	68	88	23.93	10.47%
68	63	31.44	6.41%	68	89	23.87	10.52%
68	64	30.82	6.68%	68	90	23.82	10.55%
68	65	30.22	6.95%	68	91	23.77	10.58%
68	66	29.66	7.20%	68	92	23.73	10.61%
68	67	29.12	7.46%	68	93	23.70	10.63%
68	68	28.62	7.71%	68	94	23.67	10.65%
68	69	28.15	7.95%	68	95	23.65	10.67%
68	70	27.70	8.19%	68	96	23.62	10.69%
68	71	27.29	8.41%	68	97	23.60	10.70%
68	72	26.91	8.62%	68	98	23.58	10.72%
68	73	26.56	8.82%	68	99	23.57	10.72%
68	74	26.23	9.01%	68	100	23.55	10.74%
68	75	25.93	9.19%				

Joint Two Life Payout Grid
 6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
 Improvement – Two Lives
 Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
69	50	41.64	3.29%	69	76	24.98	9.78%
69	51	40.72	3.50%	69	77	24.71	9.95%
69	52	39.82	3.71%	69	78	24.47	10.11%
69	53	38.93	3.93%	69	79	24.25	10.26%
69	54	38.06	4.16%	69	80	24.05	10.39%
69	55	37.21	4.40%	69	81	23.87	10.52%
69	56	36.37	4.65%	69	82	23.71	10.63%
69	57	35.55	4.90%	69	83	23.57	10.72%
69	58	34.75	5.17%	69	84	23.45	10.81%
69	59	33.97	5.44%	69	85	23.34	10.89%
69	60	33.22	5.71%	69	86	23.24	10.96%
69	61	32.49	5.99%	69	87	23.15	11.02%
69	62	31.78	6.27%	69	88	23.08	11.07%
69	63	31.10	6.56%	69	89	23.01	11.12%
69	64	30.45	6.84%	69	90	22.95	11.17%
69	65	29.83	7.12%	69	91	22.90	11.20%
69	66	29.24	7.40%	69	92	22.86	11.23%
69	67	28.68	7.68%	69	93	22.82	11.26%
69	68	28.15	7.95%	69	94	22.79	11.28%
69	69	27.64	8.22%	69	95	22.76	11.31%
69	70	27.17	8.48%	69	96	22.74	11.32%
69	71	26.73	8.72%	69	97	22.71	11.34%
69	72	26.32	8.96%	69	98	22.69	11.36%
69	73	25.95	9.18%	69	99	22.68	11.37%
69	74	25.59	9.40%	69	100	22.66	11.38%
69	75	25.27	9.60%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
70	50	41.54	3.32%	70	76	24.32	10.21%		
70	51	40.62	3.52%	70	77	24.03	10.41%		
70	52	39.71	3.74%	70	78	23.77	10.58%		
70	53	38.81	3.96%	70	79	23.53	10.75%		
70	54	37.93	4.20%	70	80	23.31	10.91%		
70	55	37.06	4.44%	70	81	23.12	11.04%		
70	56	36.20	4.70%	70	82	22.94	11.17%		
70	57	35.37	4.96%	70	83	22.79	11.28%		
70	58	34.55	5.23%	70	84	22.65	11.39%		
70	59	33.75	5.52%	70	85	22.53	11.48%		
70	60	32.98	5.80%	70	86	22.42	11.56%		
70	61	32.23	6.09%	70	87	22.32	11.64%		
70	62	31.50	6.39%	70	88	22.24	11.70%		
70	63	30.80	6.69%	70	89	22.17	11.75%		
70	64	30.12	6.99%	70	90	22.10	11.80%		
70	65	29.47	7.29%	70	91	22.05	11.84%		
70	66	28.85	7.60%	70	92	22.00	11.88%		
70	67	28.26	7.89%	70	93	21.96	11.91%		
70	68	27.70	8.19%	70	94	21.92	11.94%		
70	69	27.17	8.48%	70	95	21.89	11.97%		
70	70	26.68	8.75%	70	96	21.86	11.99%		
70	71	26.21	9.03%	70	97	21.84	12.01%		
70	72	25.77	9.29%	70	98	21.81	12.03%		
70	73	25.36	9.54%	70	99	21.79	12.05%		
70	74	24.99	9.77%	70	100	21.78	12.05%		
70	75	24.64	10.00%						

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
71	50	41.46	3.33%	71	76	23.70	10.63%
71	51	40.53	3.54%	71	77	23.38	10.86%
71	52	39.61	3.76%	71	78	23.09	11.07%
71	53	38.70	3.99%	71	79	22.83	11.25%
71	54	37.80	4.23%	71	80	22.60	11.42%
71	55	36.92	4.48%	71	81	22.38	11.59%
71	56	36.05	4.75%	71	82	22.19	11.74%
71	57	35.20	5.02%	71	83	22.02	11.87%
71	58	34.37	5.30%	71	84	21.87	11.98%
71	59	33.56	5.58%	71	85	21.73	12.09%
71	60	32.76	5.88%	71	86	21.61	12.19%
71	61	31.99	6.19%	71	87	21.51	12.27%
71	62	31.24	6.50%	71	88	21.42	12.34%
71	63	30.51	6.82%	71	89	21.33	12.41%
71	64	29.81	7.13%	71	90	21.26	12.47%
71	65	29.14	7.45%	71	91	21.20	12.52%
71	66	28.49	7.78%	71	92	21.15	12.56%
71	67	27.88	8.09%	71	93	21.10	12.60%
71	68	27.29	8.41%	71	94	21.06	12.63%
71	69	26.73	8.72%	71	95	21.03	12.66%
71	70	26.21	9.03%	71	96	20.99	12.69%
71	71	25.71	9.32%	71	97	20.97	12.71%
71	72	25.25	9.61%	71	98	20.94	12.73%
71	73	24.81	9.89%	71	99	20.92	12.75%
71	74	24.41	10.15%	71	100	20.90	12.77%
71	75	24.04	10.40%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
72	50	41.38	3.35%	72	76	23.10	11.06%		
72	51	40.44	3.56%	72	77	22.76	11.31%		
72	52	39.52	3.78%	72	78	22.45	11.54%		
72	53	38.60	4.02%	72	79	22.17	11.75%		
72	54	37.69	4.26%	72	80	21.91	11.95%		
72	55	36.80	4.52%	72	81	21.68	12.13%		
72	56	35.92	4.79%	72	82	21.47	12.30%		
72	57	35.05	5.07%	72	83	21.28	12.45%		
72	58	34.21	5.35%	72	84	21.11	12.59%		
72	59	33.37	5.65%	72	85	20.96	12.72%		
72	60	32.56	5.96%	72	86	20.83	12.83%		
72	61	31.77	6.28%	72	87	20.71	12.93%		
72	62	31.00	6.60%	72	88	20.61	13.01%		
72	63	30.25	6.93%	72	89	20.52	13.09%		
72	64	29.53	7.27%	72	90	20.44	13.16%		
72	65	28.83	7.61%	72	91	20.37	13.22%		
72	66	28.16	7.95%	72	92	20.31	13.27%		
72	67	27.52	8.28%	72	93	20.26	13.31%		
72	68	26.91	8.62%	72	94	20.22	13.35%		
72	69	26.32	8.96%	72	95	20.18	13.38%		
72	70	25.77	9.29%	72	96	20.14	13.42%		
72	71	25.25	9.61%	72	97	20.11	13.44%		
72	72	24.76	9.92%	72	98	20.08	13.47%		
72	73	24.29	10.23%	72	99	20.06	13.49%		
72	74	23.86	10.52%	72	100	20.04	13.50%		
72	75	23.47	10.79%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
73	50	41.32	3.36%	73	76	22.53	11.48%		
73	51	40.37	3.58%	73	77	22.17	11.75%		
73	52	39.43	3.81%	73	78	21.83	12.01%		
73	53	38.51	4.04%	73	79	21.53	12.25%		
73	54	37.59	4.29%	73	80	21.25	12.48%		
73	55	36.69	4.55%	73	81	20.99	12.69%		
73	56	35.80	4.82%	73	82	20.77	12.88%		
73	57	34.92	5.11%	73	83	20.56	13.05%		
73	58	34.06	5.40%	73	84	20.38	13.21%		
73	59	33.21	5.71%	73	85	20.21	13.36%		
73	60	32.38	6.03%	73	86	20.07	13.48%		
73	61	31.57	6.36%	73	87	19.94	13.59%		
73	62	30.79	6.69%	73	88	19.82	13.70%		
73	63	30.02	7.04%	73	89	19.72	13.79%		
73	64	29.27	7.39%	73	90	19.64	13.86%		
73	65	28.55	7.75%	73	91	19.56	13.93%		
73	66	27.86	8.10%	73	92	19.49	14.00%		
73	67	27.19	8.47%	73	93	19.44	14.04%		
73	68	26.56	8.82%	73	94	19.39	14.09%		
73	69	25.95	9.18%	73	95	19.34	14.14%		
73	70	25.36	9.54%	73	96	19.30	14.17%		
73	71	24.81	9.89%	73	97	19.27	14.20%		
73	72	24.29	10.23%	73	98	19.24	14.23%		
73	73	23.81	10.56%	73	99	19.21	14.26%		
73	74	23.35	10.88%	73	100	19.18	14.28%		
73	75	22.92	11.19%						

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
74	50	41.25	3.38%	74	76	21.99	11.89%
74	51	40.30	3.60%	74	77	21.60	12.20%
74	52	39.36	3.82%	74	78	21.24	12.49%
74	53	38.42	4.07%	74	79	20.92	12.75%
74	54	37.50	4.32%	74	80	20.61	13.01%
74	55	36.59	4.58%	74	81	20.34	13.24%
74	56	35.69	4.86%	74	82	20.09	13.46%
74	57	34.80	5.15%	74	83	19.87	13.66%
74	58	33.92	5.45%	74	84	19.67	13.83%
74	59	33.06	5.77%	74	85	19.49	14.00%
74	60	32.22	6.09%	74	86	19.33	14.15%
74	61	31.40	6.43%	74	87	19.18	14.28%
74	62	30.59	6.78%	74	88	19.06	14.40%
74	63	29.80	7.14%	74	89	18.95	14.50%
74	64	29.04	7.50%	74	90	18.85	14.60%
74	65	28.30	7.87%	74	91	18.77	14.67%
74	66	27.58	8.25%	74	92	18.69	14.75%
74	67	26.89	8.63%	74	93	18.63	14.81%
74	68	26.23	9.01%	74	94	18.57	14.87%
74	69	25.59	9.40%	74	95	18.52	14.91%
74	70	24.99	9.77%	74	96	18.48	14.95%
74	71	24.41	10.15%	74	97	18.44	14.99%
74	72	23.86	10.52%	74	98	18.40	15.03%
74	73	23.35	10.88%	74	99	18.37	15.06%
74	74	22.86	11.23%	74	100	18.34	15.09%
74	75	22.41	11.57%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
75	50	41.20	3.39%	75	76	21.49	12.28%		
75	51	40.24	3.61%	75	77	21.07	12.63%		
75	52	39.29	3.84%	75	78	20.69	12.94%		
75	53	38.35	4.08%	75	79	20.34	13.24%		
75	54	37.42	4.34%	75	80	20.01	13.53%		
75	55	36.50	4.61%	75	81	19.72	13.79%		
75	56	35.59	4.89%	75	82	19.45	14.04%		
75	57	34.69	5.19%	75	83	19.20	14.27%		
75	58	33.80	5.50%	75	84	18.98	14.47%		
75	59	32.93	5.82%	75	85	18.79	14.65%		
75	60	32.08	6.15%	75	86	18.61	14.83%		
75	61	31.24	6.50%	75	87	18.46	14.97%		
75	62	30.41	6.86%	75	88	18.32	15.11%		
75	63	29.61	7.23%	75	89	18.19	15.24%		
75	64	28.83	7.61%	75	90	18.09	15.34%		
75	65	28.07	7.99%	75	91	17.99	15.44%		
75	66	27.33	8.39%	75	92	17.91	15.52%		
75	67	26.62	8.79%	75	93	17.84	15.59%		
75	68	25.93	9.19%	75	94	17.78	15.65%		
75	69	25.27	9.60%	75	95	17.72	15.71%		
75	70	24.64	10.00%	75	96	17.67	15.77%		
75	71	24.04	10.40%	75	97	17.63	15.81%		
75	72	23.47	10.79%	75	98	17.59	15.85%		
75	73	22.92	11.19%	75	99	17.55	15.89%		
75	74	22.41	11.57%	75	100	17.52	15.92%		
75	75	21.93	11.94%						

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
76	50	41.15	3.40%	76	76	21.01	12.68%
76	51	40.19	3.62%	76	77	20.57	13.04%
76	52	39.23	3.86%	76	78	20.17	13.39%
76	53	38.29	4.10%	76	79	19.79	13.73%
76	54	37.35	4.36%	76	80	19.44	14.04%
76	55	36.42	4.63%	76	81	19.12	14.34%
76	56	35.50	4.92%	76	82	18.83	14.62%
76	57	34.59	5.22%	76	83	18.57	14.87%
76	58	33.70	5.53%	76	84	18.33	15.10%
76	59	32.81	5.86%	76	85	18.12	15.31%
76	60	31.95	6.20%	76	86	17.92	15.51%
76	61	31.09	6.56%	76	87	17.75	15.68%
76	62	30.26	6.93%	76	88	17.60	15.84%
76	63	29.44	7.31%	76	89	17.47	15.97%
76	64	28.64	7.70%	76	90	17.35	16.10%
76	65	27.86	8.10%	76	91	17.24	16.21%
76	66	27.10	8.52%	76	92	17.15	16.31%
76	67	26.37	8.93%	76	93	17.07	16.40%
76	68	25.66	9.36%	76	94	17.00	16.47%
76	69	24.98	9.78%	76	95	16.94	16.54%
76	70	24.32	10.21%	76	96	16.89	16.59%
76	71	23.70	10.63%	76	97	16.84	16.64%
76	72	23.10	11.06%	76	98	16.79	16.70%
76	73	22.53	11.48%	76	99	16.75	16.74%
76	74	21.99	11.89%	76	100	16.72	16.77%
76	75	21.49	12.28%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
77	50	41.11	3.41%	77	76	20.57	13.04%		
77	51	40.14	3.63%	77	77	20.11	13.44%		
77	52	39.18	3.87%	77	78	19.67	13.83%		
77	53	38.23	4.12%	77	79	19.27	14.20%		
77	54	37.28	4.38%	77	80	18.90	14.55%		
77	55	36.35	4.65%	77	81	18.56	14.88%		
77	56	35.42	4.95%	77	82	18.25	15.18%		
77	57	34.51	5.25%	77	83	17.96	15.47%		
77	58	33.60	5.57%	77	84	17.71	15.72%		
77	59	32.71	5.90%	77	85	17.47	15.97%		
77	60	31.83	6.25%	77	86	17.27	16.18%		
77	61	30.96	6.62%	77	87	17.08	16.39%		
77	62	30.11	7.00%	77	88	16.91	16.57%		
77	63	29.28	7.39%	77	89	16.76	16.73%		
77	64	28.47	7.79%	77	90	16.63	16.87%		
77	65	27.67	8.20%	77	91	16.52	17.00%		
77	66	26.90	8.63%	77	92	16.42	17.11%		
77	67	26.14	9.07%	77	93	16.33	17.21%		
77	68	25.41	9.51%	77	94	16.25	17.30%		
77	69	24.71	9.95%	77	95	16.18	17.38%		
77	70	24.03	10.41%	77	96	16.12	17.45%		
77	71	23.38	10.86%	77	97	16.07	17.50%		
77	72	22.76	11.31%	77	98	16.02	17.56%		
77	73	22.17	11.75%	77	99	15.98	17.61%		
77	74	21.60	12.20%	77	100	15.94	17.65%		
77	75	21.07	12.63%						

Joint Two Life Payout Grid
 6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
 Improvement – Two Lives
 Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
78	50	41.07	3.42%	78	76	20.17	13.39%
78	51	40.10	3.64%	78	77	19.67	13.83%
78	52	39.13	3.88%	78	78	19.22	14.25%
78	53	38.17	4.13%	78	79	18.79	14.65%
78	54	37.22	4.40%	78	80	18.40	15.03%
78	55	36.28	4.68%	78	81	18.03	15.40%
78	56	35.35	4.97%	78	82	17.70	15.73%
78	57	34.43	5.28%	78	83	17.39	16.06%
78	58	33.52	5.60%	78	84	17.11	16.35%
78	59	32.61	5.94%	78	85	16.86	16.62%
78	60	31.73	6.29%	78	86	16.64	16.86%
78	61	30.85	6.67%	78	87	16.43	17.10%
78	62	29.99	7.05%	78	88	16.25	17.30%
78	63	29.14	7.45%	78	89	16.09	17.48%
78	64	28.31	7.87%	78	90	15.95	17.64%
78	65	27.50	8.30%	78	91	15.82	17.79%
78	66	26.71	8.74%	78	92	15.71	17.92%
78	67	25.94	9.19%	78	93	15.61	18.04%
78	68	25.19	9.65%	78	94	15.53	18.13%
78	69	24.47	10.11%	78	95	15.45	18.23%
78	70	23.77	10.58%	78	96	15.38	18.31%
78	71	23.09	11.07%	78	97	15.32	18.38%
78	72	22.45	11.54%	78	98	15.27	18.44%
78	73	21.83	12.01%	78	99	15.22	18.50%
78	74	21.24	12.49%	78	100	15.18	18.55%
78	75	20.69	12.94%				

Joint Two Life Payout Grid
6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality
Improvement – Two Lives
Effective January 2024

				M/F			
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
79	50	41.03	3.43%	79	76	19.79	13.73%
79	51	40.06	3.65%	79	77	19.27	14.20%
79	52	39.09	3.89%	79	78	18.79	14.65%
79	53	38.13	4.14%	79	79	18.34	15.09%
79	54	37.17	4.41%	79	80	17.92	15.51%
79	55	36.23	4.69%	79	81	17.54	15.90%
79	56	35.29	4.99%	79	82	17.18	16.28%
79	57	34.36	5.30%	79	83	16.85	16.63%
79	58	33.44	5.63%	79	84	16.55	16.96%
79	59	32.53	5.97%	79	85	16.28	17.26%
79	60	31.63	6.33%	79	86	16.04	17.54%
79	61	30.75	6.71%	79	87	15.82	17.79%
79	62	29.87	7.11%	79	88	15.62	18.02%
79	63	29.02	7.51%	79	89	15.45	18.23%
79	64	28.17	7.94%	79	90	15.29	18.42%
79	65	27.35	8.38%	79	91	15.15	18.59%
79	66	26.54	8.83%	79	92	15.03	18.73%
79	67	25.76	9.29%	79	93	14.92	18.87%
79	68	24.99	9.77%	79	94	14.83	18.98%
79	69	24.25	10.26%	79	95	14.74	19.09%
79	70	23.53	10.75%	79	96	14.67	19.18%
79	71	22.83	11.25%	79	97	14.60	19.27%
79	72	22.17	11.75%	79	98	14.54	19.34%
79	73	21.53	12.25%	79	99	14.49	19.41%
79	74	20.92	12.75%	79	100	14.44	19.47%
79	75	20.34	13.24%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
80	50	41.00	3.43%	80	76	19.44	14.04%		
80	51	40.02	3.66%	80	77	18.90	14.55%		
80	52	39.05	3.90%	80	78	18.40	15.03%		
80	53	38.09	4.15%	80	79	17.92	15.51%		
80	54	37.13	4.42%	80	80	17.48	15.96%		
80	55	36.18	4.71%	80	81	17.07	16.40%		
80	56	35.23	5.01%	80	82	16.69	16.81%		
80	57	34.30	5.32%	80	83	16.34	17.20%		
80	58	33.37	5.65%	80	84	16.03	17.55%		
80	59	32.46	6.00%	80	85	15.74	17.88%		
80	60	31.55	6.37%	80	86	15.47	18.20%		
80	61	30.66	6.75%	80	87	15.23	18.49%		
80	62	29.77	7.15%	80	88	15.02	18.74%		
80	63	28.91	7.57%	80	89	14.83	18.98%		
80	64	28.05	8.00%	80	90	14.66	19.19%		
80	65	27.21	8.45%	80	91	14.51	19.38%		
80	66	26.39	8.92%	80	92	14.38	19.55%		
80	67	25.59	9.40%	80	93	14.26	19.70%		
80	68	24.81	9.89%	80	94	14.16	19.83%		
80	69	24.05	10.39%	80	95	14.06	19.96%		
80	70	23.31	10.91%	80	96	13.98	20.06%		
80	71	22.60	11.42%	80	97	13.91	20.15%		
80	72	21.91	11.95%	80	98	13.84	20.25%		
80	73	21.25	12.48%	80	99	13.78	20.33%		
80	74	20.61	13.01%	80	100	13.72	20.41%		
80	75	20.01	13.53%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
81	50	40.97	3.44%	81	76	19.12	14.34%		
81	51	39.99	3.67%	81	77	18.56	14.88%		
81	52	39.02	3.91%	81	78	18.03	15.40%		
81	53	38.05	4.16%	81	79	17.54	15.90%		
81	54	37.09	4.43%	81	80	17.07	16.40%		
81	55	36.13	4.72%	81	81	16.64	16.86%		
81	56	35.18	5.02%	81	82	16.24	17.31%		
81	57	34.24	5.34%	81	83	15.87	17.73%		
81	58	33.31	5.68%	81	84	15.53	18.13%		
81	59	32.39	6.03%	81	85	15.22	18.50%		
81	60	31.48	6.40%	81	86	14.94	18.84%		
81	61	30.57	6.79%	81	87	14.68	19.17%		
81	62	29.68	7.19%	81	88	14.45	19.46%		
81	63	28.81	7.62%	81	89	14.24	19.72%		
81	64	27.94	8.06%	81	90	14.06	19.96%		
81	65	27.09	8.52%	81	91	13.90	20.17%		
81	66	26.26	9.00%	81	92	13.75	20.37%		
81	67	25.44	9.49%	81	93	13.62	20.54%		
81	68	24.65	9.99%	81	94	13.51	20.69%		
81	69	23.87	10.52%	81	95	13.41	20.82%		
81	70	23.12	11.04%	81	96	13.32	20.95%		
81	71	22.38	11.59%	81	97	13.23	21.07%		
81	72	21.68	12.13%	81	98	13.16	21.17%		
81	73	20.99	12.69%	81	99	13.09	21.26%		
81	74	20.34	13.24%	81	100	13.03	21.35%		
81	75	19.72	13.79%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
82	50	40.95	3.45%	82	76	18.83	14.62%		
82	51	39.96	3.68%	82	77	18.25	15.18%		
82	52	38.99	3.92%	82	78	17.70	15.73%		
82	53	38.01	4.18%	82	79	17.18	16.28%		
82	54	37.05	4.45%	82	80	16.69	16.81%		
82	55	36.09	4.73%	82	81	16.24	17.31%		
82	56	35.14	5.04%	82	82	15.82	17.79%		
82	57	34.19	5.36%	82	83	15.42	18.26%		
82	58	33.26	5.69%	82	84	15.06	18.70%		
82	59	32.33	6.05%	82	85	14.73	19.10%		
82	60	31.41	6.43%	82	86	14.43	19.48%		
82	61	30.50	6.82%	82	87	14.16	19.83%		
82	62	29.60	7.23%	82	88	13.91	20.15%		
82	63	28.72	7.66%	82	89	13.69	20.45%		
82	64	27.85	8.11%	82	90	13.49	20.72%		
82	65	26.99	8.58%	82	91	13.31	20.96%		
82	66	26.14	9.07%	82	92	13.16	21.17%		
82	67	25.31	9.57%	82	93	13.02	21.36%		
82	68	24.50	10.09%	82	94	12.89	21.54%		
82	69	23.71	10.63%	82	95	12.78	21.70%		
82	70	22.94	11.17%	82	96	12.68	21.84%		
82	71	22.19	11.74%	82	97	12.59	21.97%		
82	72	21.47	12.30%	82	98	12.51	22.08%		
82	73	20.77	12.88%	82	99	12.43	22.20%		
82	74	20.09	13.46%	82	100	12.37	22.29%		
82	75	19.45	14.04%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
83	50	40.93	3.45%	83	76	18.57	14.87%		
83	51	39.94	3.68%	83	77	17.96	15.47%		
83	52	38.96	3.92%	83	78	17.39	16.06%		
83	53	37.99	4.18%	83	79	16.85	16.63%		
83	54	37.02	4.45%	83	80	16.34	17.20%		
83	55	36.05	4.75%	83	81	15.87	17.73%		
83	56	35.10	5.05%	83	82	15.42	18.26%		
83	57	34.15	5.37%	83	83	15.01	18.76%		
83	58	33.21	5.71%	83	84	14.63	19.23%		
83	59	32.28	6.07%	83	85	14.28	19.67%		
83	60	31.35	6.45%	83	86	13.96	20.09%		
83	61	30.44	6.85%	83	87	13.67	20.47%		
83	62	29.53	7.27%	83	88	13.41	20.82%		
83	63	28.64	7.70%	83	89	13.17	21.15%		
83	64	27.76	8.16%	83	90	12.95	21.46%		
83	65	26.89	8.63%	83	91	12.76	21.73%		
83	66	26.04	9.13%	83	92	12.59	21.97%		
83	67	25.20	9.64%	83	93	12.44	22.19%		
83	68	24.38	10.17%	83	94	12.31	22.37%		
83	69	23.57	10.72%	83	95	12.18	22.57%		
83	70	22.79	11.28%	83	96	12.07	22.73%		
83	71	22.02	11.87%	83	97	11.97	22.88%		
83	72	21.28	12.45%	83	98	11.88	23.01%		
83	73	20.56	13.05%	83	99	11.80	23.13%		
83	74	19.87	13.66%	83	100	11.73	23.24%		
83	75	19.20	14.27%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
84	50	40.91	3.45%	84	76	18.33	15.10%		
84	51	39.92	3.69%	84	77	17.71	15.72%		
84	52	38.94	3.93%	84	78	17.11	16.35%		
84	53	37.96	4.19%	84	79	16.55	16.96%		
84	54	36.99	4.46%	84	80	16.03	17.55%		
84	55	36.02	4.76%	84	81	15.53	18.13%		
84	56	35.06	5.06%	84	82	15.06	18.70%		
84	57	34.11	5.39%	84	83	14.63	19.23%		
84	58	33.17	5.73%	84	84	14.23	19.74%		
84	59	32.23	6.09%	84	85	13.86	20.22%		
84	60	31.30	6.47%	84	86	13.52	20.67%		
84	61	30.38	6.87%	84	87	13.21	21.10%		
84	62	29.47	7.29%	84	88	12.93	21.49%		
84	63	28.57	7.74%	84	89	12.68	21.84%		
84	64	27.68	8.20%	84	90	12.45	22.17%		
84	65	26.81	8.68%	84	91	12.24	22.48%		
84	66	25.94	9.19%	84	92	12.06	22.74%		
84	67	25.10	9.70%	84	93	11.90	22.98%		
84	68	24.26	10.25%	84	94	11.75	23.21%		
84	69	23.45	10.81%	84	95	11.62	23.41%		
84	70	22.65	11.39%	84	96	11.50	23.59%		
84	71	21.87	11.98%	84	97	11.39	23.76%		
84	72	21.11	12.59%	84	98	11.29	23.92%		
84	73	20.38	13.21%	84	99	11.20	24.06%		
84	74	19.67	13.83%	84	100	11.12	24.18%		
84	75	18.98	14.47%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
85	50	40.89	3.46%	85	76	18.12	15.31%		
85	51	39.90	3.69%	85	77	17.47	15.97%		
85	52	38.92	3.93%	85	78	16.86	16.62%		
85	53	37.94	4.19%	85	79	16.28	17.26%		
85	54	36.96	4.47%	85	80	15.74	17.88%		
85	55	36.00	4.76%	85	81	15.22	18.50%		
85	56	35.03	5.07%	85	82	14.73	19.10%		
85	57	34.08	5.40%	85	83	14.28	19.67%		
85	58	33.13	5.74%	85	84	13.86	20.22%		
85	59	32.19	6.11%	85	85	13.47	20.74%		
85	60	31.26	6.49%	85	86	13.11	21.24%		
85	61	30.33	6.90%	85	87	12.79	21.68%		
85	62	29.42	7.32%	85	88	12.49	22.11%		
85	63	28.51	7.77%	85	89	12.22	22.51%		
85	64	27.62	8.23%	85	90	11.97	22.88%		
85	65	26.73	8.72%	85	91	11.75	23.21%		
85	66	25.86	9.23%	85	92	11.56	23.50%		
85	67	25.00	9.77%	85	93	11.38	23.78%		
85	68	24.16	10.32%	85	94	11.22	24.03%		
85	69	23.34	10.89%	85	95	11.08	24.25%		
85	70	22.53	11.48%	85	96	10.95	24.45%		
85	71	21.73	12.09%	85	97	10.83	24.65%		
85	72	20.96	12.72%	85	98	10.72	24.82%		
85	73	20.21	13.36%	85	99	10.62	24.99%		
85	74	19.49	14.00%	85	100	10.54	25.12%		
85	75	18.79	14.65%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
86	50	40.87	3.46%	86	76	17.92	15.51%		
86	51	39.88	3.70%	86	77	17.27	16.18%		
86	52	38.90	3.94%	86	78	16.64	16.86%		
86	53	37.92	4.20%	86	79	16.04	17.54%		
86	54	36.94	4.48%	86	80	15.47	18.20%		
86	55	35.97	4.77%	86	81	14.94	18.84%		
86	56	35.01	5.08%	86	82	14.43	19.48%		
86	57	34.05	5.41%	86	83	13.96	20.09%		
86	58	33.10	5.75%	86	84	13.52	20.67%		
86	59	32.16	6.12%	86	85	13.11	21.24%		
86	60	31.22	6.51%	86	86	12.74	21.76%		
86	61	30.29	6.91%	86	87	12.39	22.26%		
86	62	29.37	7.34%	86	88	12.08	22.71%		
86	63	28.46	7.79%	86	89	11.79	23.15%		
86	64	27.56	8.26%	86	90	11.53	23.54%		
86	65	26.67	8.76%	86	91	11.30	23.90%		
86	66	25.79	9.28%	86	92	11.09	24.23%		
86	67	24.93	9.81%	86	93	10.90	24.53%		
86	68	24.07	10.38%	86	94	10.73	24.81%		
86	69	23.24	10.96%	86	95	10.58	25.05%		
86	70	22.42	11.56%	86	96	10.44	25.28%		
86	71	21.61	12.19%	86	97	10.31	25.50%		
86	72	20.83	12.83%	86	98	10.19	25.70%		
86	73	20.07	13.48%	86	99	10.08	25.88%		
86	74	19.33	14.15%	86	100	9.98	26.05%		
86	75	18.61	14.83%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F					
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	M/F	
87	50	40.86	3.47%	87	76	17.75	15.68%		
87	51	39.87	3.70%	87	77	17.08	16.39%		
87	52	38.88	3.94%	87	78	16.43	17.10%		
87	53	37.90	4.21%	87	79	15.82	17.79%		
87	54	36.92	4.48%	87	80	15.23	18.49%		
87	55	35.95	4.78%	87	81	14.68	19.17%		
87	56	34.98	5.09%	87	82	14.16	19.83%		
87	57	34.02	5.42%	87	83	13.67	20.47%		
87	58	33.07	5.77%	87	84	13.21	21.10%		
87	59	32.12	6.13%	87	85	12.79	21.68%		
87	60	31.18	6.52%	87	86	12.39	22.26%		
87	61	30.25	6.93%	87	87	12.03	22.79%		
87	62	29.33	7.36%	87	88	11.70	23.28%		
87	63	28.41	7.82%	87	89	11.40	23.75%		
87	64	27.51	8.29%	87	90	11.12	24.18%		
87	65	26.61	8.79%	87	91	10.87	24.58%		
87	66	25.73	9.31%	87	92	10.65	24.94%		
87	67	24.86	9.86%	87	93	10.45	25.27%		
87	68	24.00	10.43%	87	94	10.27	25.56%		
87	69	23.15	11.02%	87	95	10.10	25.85%		
87	70	22.32	11.64%	87	96	9.95	26.10%		
87	71	21.51	12.27%	87	97	9.82	26.33%		
87	72	20.71	12.93%	87	98	9.69	26.55%		
87	73	19.94	13.59%	87	99	9.57	26.76%		
87	74	19.18	14.28%	87	100	9.46	26.95%		
87	75	18.46	14.97%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F				M/F	
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout		
88	50	40.85	3.47%	88	76	17.60	15.84%		
88	51	39.86	3.70%	88	77	16.91	16.57%		
88	52	38.87	3.95%	88	78	16.25	17.30%		
88	53	37.88	4.21%	88	79	15.62	18.02%		
88	54	36.90	4.49%	88	80	15.02	18.74%		
88	55	35.93	4.78%	88	81	14.45	19.46%		
88	56	34.96	5.10%	88	82	13.91	20.15%		
88	57	34.00	5.43%	88	83	13.41	20.82%		
88	58	33.05	5.77%	88	84	12.93	21.49%		
88	59	32.10	6.14%	88	85	12.49	22.11%		
88	60	31.15	6.54%	88	86	12.08	22.71%		
88	61	30.22	6.95%	88	87	11.70	23.28%		
88	62	29.29	7.38%	88	88	11.35	23.82%		
88	63	28.37	7.84%	88	89	11.03	24.33%		
88	64	27.46	8.32%	88	90	10.74	24.79%		
88	65	26.56	8.82%	88	91	10.48	25.22%		
88	66	25.67	9.35%	88	92	10.25	25.60%		
88	67	24.79	9.90%	88	93	10.03	25.97%		
88	68	23.93	10.47%	88	94	9.84	26.29%		
88	69	23.08	11.07%	88	95	9.67	26.59%		
88	70	22.24	11.70%	88	96	9.50	26.88%		
88	71	21.42	12.34%	88	97	9.35	27.15%		
88	72	20.61	13.01%	88	98	9.22	27.38%		
88	73	19.82	13.70%	88	99	9.09	27.61%		
88	74	19.06	14.40%	88	100	8.98	27.81%		
88	75	18.32	15.11%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
89	50	40.84	3.47%	89	76	17.47	15.97%
89	51	39.84	3.71%	89	77	16.76	16.73%
89	52	38.85	3.95%	89	78	16.09	17.48%
89	53	37.87	4.21%	89	79	15.45	18.23%
89	54	36.89	4.49%	89	80	14.83	18.98%
89	55	35.91	4.79%	89	81	14.24	19.72%
89	56	34.94	5.10%	89	82	13.69	20.45%
89	57	33.98	5.43%	89	83	13.17	21.15%
89	58	33.02	5.78%	89	84	12.68	21.84%
89	59	32.07	6.15%	89	85	12.22	22.51%
89	60	31.13	6.54%	89	86	11.79	23.15%
89	61	30.19	6.96%	89	87	11.40	23.75%
89	62	29.26	7.39%	89	88	11.03	24.33%
89	63	28.34	7.85%	89	89	10.70	24.86%
89	64	27.42	8.34%	89	90	10.40	25.35%
89	65	26.52	8.84%	89	91	10.12	25.82%
89	66	25.62	9.38%	89	92	9.87	26.24%
89	67	24.74	9.93%	89	93	9.65	26.62%
89	68	23.87	10.52%	89	94	9.44	26.99%
89	69	23.01	11.12%	89	95	9.26	27.31%
89	70	22.17	11.75%	89	96	9.09	27.61%
89	71	21.33	12.41%	89	97	8.93	27.90%
89	72	20.52	13.09%	89	98	8.78	28.18%
89	73	19.72	13.79%	89	99	8.64	28.44%
89	74	18.95	14.50%	89	100	8.52	28.66%
89	75	18.19	15.24%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
90	50	40.83	3.47%	90	76	17.35	16.10%
90	51	39.83	3.71%	90	77	16.63	16.87%
90	52	38.84	3.96%	90	78	15.95	17.64%
90	53	37.86	4.22%	90	79	15.29	18.42%
90	54	36.88	4.50%	90	80	14.66	19.19%
90	55	35.90	4.79%	90	81	14.06	19.96%
90	56	34.93	5.11%	90	82	13.49	20.72%
90	57	33.96	5.44%	90	83	12.95	21.46%
90	58	33.00	5.79%	90	84	12.45	22.17%
90	59	32.05	6.16%	90	85	11.97	22.88%
90	60	31.10	6.56%	90	86	11.53	23.54%
90	61	30.16	6.97%	90	87	11.12	24.18%
90	62	29.23	7.41%	90	88	10.74	24.79%
90	63	28.30	7.87%	90	89	10.40	25.35%
90	64	27.39	8.36%	90	90	10.08	25.88%
90	65	26.48	8.87%	90	91	9.79	26.38%
90	66	25.58	9.40%	90	92	9.53	26.83%
90	67	24.69	9.97%	90	93	9.29	27.25%
90	68	23.82	10.55%	90	94	9.08	27.63%
90	69	22.95	11.17%	90	95	8.88	27.99%
90	70	22.10	11.80%	90	96	8.70	28.32%
90	71	21.26	12.47%	90	97	8.53	28.64%
90	72	20.44	13.16%	90	98	8.37	28.94%
90	73	19.64	13.86%	90	99	8.23	29.21%
90	74	18.85	14.60%	90	100	8.09	29.48%
90	75	18.09	15.34%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F				M/F	
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout	First Age	Second Age
91	50	40.82	3.48%	91	76	17.24	16.21%		
91	51	39.83	3.71%	91	77	16.52	17.00%		
91	52	38.83	3.96%	91	78	15.82	17.79%		
91	53	37.85	4.22%	91	79	15.15	18.59%		
91	54	36.86	4.50%	91	80	14.51	19.38%		
91	55	35.89	4.80%	91	81	13.90	20.17%		
91	56	34.91	5.11%	91	82	13.31	20.96%		
91	57	33.95	5.44%	91	83	12.76	21.73%		
91	58	32.99	5.80%	91	84	12.24	22.48%		
91	59	32.03	6.17%	91	85	11.75	23.21%		
91	60	31.08	6.57%	91	86	11.30	23.90%		
91	61	30.14	6.98%	91	87	10.87	24.58%		
91	62	29.21	7.42%	91	88	10.48	25.22%		
91	63	28.28	7.88%	91	89	10.12	25.82%		
91	64	27.36	8.37%	91	90	9.79	26.38%		
91	65	26.45	8.88%	91	91	9.49	26.90%		
91	66	25.55	9.42%	91	92	9.22	27.38%		
91	67	24.65	9.99%	91	93	8.97	27.83%		
91	68	23.77	10.58%	91	94	8.75	28.23%		
91	69	22.90	11.20%	91	95	8.54	28.62%		
91	70	22.05	11.84%	91	96	8.35	28.98%		
91	71	21.20	12.52%	91	97	8.17	29.32%		
91	72	20.37	13.22%	91	98	8.00	29.65%		
91	73	19.56	13.93%	91	99	7.84	29.96%		
91	74	18.77	14.67%	91	100	7.70	30.24%		
91	75	17.99	15.44%						

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
92	50	40.81	3.48%	92	76	17.15	16.31%
92	51	39.82	3.71%	92	77	16.42	17.11%
92	52	38.83	3.96%	92	78	15.71	17.92%
92	53	37.84	4.22%	92	79	15.03	18.73%
92	54	36.85	4.50%	92	80	14.38	19.55%
92	55	35.88	4.80%	92	81	13.75	20.37%
92	56	34.90	5.12%	92	82	13.16	21.17%
92	57	33.94	5.45%	92	83	12.59	21.97%
92	58	32.97	5.80%	92	84	12.06	22.74%
92	59	32.02	6.17%	92	85	11.56	23.50%
92	60	31.07	6.57%	92	86	11.09	24.23%
92	61	30.12	6.99%	92	87	10.65	24.94%
92	62	29.18	7.43%	92	88	10.25	25.60%
92	63	28.25	7.90%	92	89	9.87	26.24%
92	64	27.33	8.39%	92	90	9.53	26.83%
92	65	26.42	8.90%	92	91	9.22	27.38%
92	66	25.51	9.45%	92	92	8.93	27.90%
92	67	24.62	10.01%	92	93	8.68	28.36%
92	68	23.73	10.61%	92	94	8.44	28.81%
92	69	22.86	11.23%	92	95	8.22	29.23%
92	70	22.00	11.88%	92	96	8.02	29.61%
92	71	21.15	12.56%	92	97	7.83	29.98%
92	72	20.31	13.27%	92	98	7.66	30.32%
92	73	19.49	14.00%	92	99	7.49	30.65%
92	74	18.69	14.75%	92	100	7.34	30.96%
92	75	17.91	15.52%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
93	50	40.81	3.48%	93	76	17.07	16.40%
93	51	39.81	3.71%	93	77	16.33	17.21%
93	52	38.82	3.96%	93	78	15.61	18.04%
93	53	37.83	4.22%	93	79	14.92	18.87%
93	54	36.85	4.50%	93	80	14.26	19.70%
93	55	35.87	4.80%	93	81	13.62	20.54%
93	56	34.89	5.12%	93	82	13.02	21.36%
93	57	33.92	5.45%	93	83	12.44	22.19%
93	58	32.96	5.81%	93	84	11.90	22.98%
93	59	32.00	6.18%	93	85	11.38	23.78%
93	60	31.05	6.58%	93	86	10.90	24.53%
93	61	30.11	7.00%	93	87	10.45	25.27%
93	62	29.17	7.44%	93	88	10.03	25.97%
93	63	28.23	7.91%	93	89	9.65	26.62%
93	64	27.31	8.40%	93	90	9.29	27.25%
93	65	26.39	8.92%	93	91	8.97	27.83%
93	66	25.49	9.46%	93	92	8.68	28.36%
93	67	24.59	10.03%	93	93	8.41	28.87%
93	68	23.70	10.63%	93	94	8.16	29.34%
93	69	22.82	11.26%	93	95	7.94	29.77%
93	70	21.96	11.91%	93	96	7.73	30.18%
93	71	21.10	12.60%	93	97	7.53	30.57%
93	72	20.26	13.31%	93	98	7.34	30.96%
93	73	19.44	14.04%	93	99	7.17	31.30%
93	74	18.63	14.81%	93	100	7.01	31.63%
93	75	17.84	15.59%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
94	50	40.80	3.48%	94	76	17.00	16.47%
94	51	39.81	3.71%	94	77	16.25	17.30%
94	52	38.81	3.96%	94	78	15.53	18.13%
94	53	37.82	4.23%	94	79	14.83	18.98%
94	54	36.84	4.51%	94	80	14.16	19.83%
94	55	35.86	4.81%	94	81	13.51	20.69%
94	56	34.88	5.12%	94	82	12.89	21.54%
94	57	33.91	5.46%	94	83	12.31	22.37%
94	58	32.95	5.81%	94	84	11.75	23.21%
94	59	31.99	6.19%	94	85	11.22	24.03%
94	60	31.04	6.58%	94	86	10.73	24.81%
94	61	30.09	7.00%	94	87	10.27	25.56%
94	62	29.15	7.45%	94	88	9.84	26.29%
94	63	28.22	7.91%	94	89	9.44	26.99%
94	64	27.29	8.41%	94	90	9.08	27.63%
94	65	26.37	8.93%	94	91	8.75	28.23%
94	66	25.46	9.48%	94	92	8.44	28.81%
94	67	24.56	10.05%	94	93	8.16	29.34%
94	68	23.67	10.65%	94	94	7.91	29.82%
94	69	22.79	11.28%	94	95	7.67	30.30%
94	70	21.92	11.94%	94	96	7.45	30.73%
94	71	21.06	12.63%	94	97	7.25	31.14%
94	72	20.22	13.35%	94	98	7.05	31.55%
94	73	19.39	14.09%	94	99	6.87	31.92%
94	74	18.57	14.87%	94	100	6.70	32.28%
94	75	17.78	15.65%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
95	50	40.80	3.48%	95	76	16.94	16.54%
95	51	39.80	3.71%	95	77	16.18	17.38%
95	52	38.81	3.96%	95	78	15.45	18.23%
95	53	37.82	4.23%	95	79	14.74	19.09%
95	54	36.83	4.51%	95	80	14.06	19.96%
95	55	35.85	4.81%	95	81	13.41	20.82%
95	56	34.88	5.12%	95	82	12.78	21.70%
95	57	33.90	5.46%	95	83	12.18	22.57%
95	58	32.94	5.81%	95	84	11.62	23.41%
95	59	31.98	6.19%	95	85	11.08	24.25%
95	60	31.03	6.59%	95	86	10.58	25.05%
95	61	30.08	7.01%	95	87	10.10	25.85%
95	62	29.14	7.45%	95	88	9.67	26.59%
95	63	28.20	7.92%	95	89	9.26	27.31%
95	64	27.27	8.42%	95	90	8.88	27.99%
95	65	26.35	8.94%	95	91	8.54	28.62%
95	66	25.44	9.49%	95	92	8.22	29.23%
95	67	24.54	10.07%	95	93	7.94	29.77%
95	68	23.65	10.67%	95	94	7.67	30.30%
95	69	22.76	11.31%	95	95	7.43	30.77%
95	70	21.89	11.97%	95	96	7.20	31.24%
95	71	21.03	12.66%	95	97	6.98	31.69%
95	72	20.18	13.38%	95	98	6.78	32.11%
95	73	19.34	14.14%	95	99	6.59	32.51%
95	74	18.52	14.91%	95	100	6.41	32.90%
95	75	17.72	15.71%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
96	50	40.80	3.48%	96	76	16.89	16.59%
96	51	39.80	3.71%	96	77	16.12	17.45%
96	52	38.80	3.97%	96	78	15.38	18.31%
96	53	37.81	4.23%	96	79	14.67	19.18%
96	54	36.83	4.51%	96	80	13.98	20.06%
96	55	35.84	4.81%	96	81	13.32	20.95%
96	56	34.87	5.13%	96	82	12.68	21.84%
96	57	33.90	5.46%	96	83	12.07	22.73%
96	58	32.93	5.82%	96	84	11.50	23.59%
96	59	31.97	6.20%	96	85	10.95	24.45%
96	60	31.02	6.59%	96	86	10.44	25.28%
96	61	30.07	7.01%	96	87	9.95	26.10%
96	62	29.12	7.46%	96	88	9.50	26.88%
96	63	28.19	7.93%	96	89	9.09	27.61%
96	64	27.26	8.43%	96	90	8.70	28.32%
96	65	26.34	8.95%	96	91	8.35	28.98%
96	66	25.42	9.50%	96	92	8.02	29.61%
96	67	24.52	10.08%	96	93	7.73	30.18%
96	68	23.62	10.69%	96	94	7.45	30.73%
96	69	22.74	11.32%	96	95	7.20	31.24%
96	70	21.86	11.99%	96	96	6.96	31.73%
96	71	20.99	12.69%	96	97	6.74	32.19%
96	72	20.14	13.42%	96	98	6.53	32.64%
96	73	19.30	14.17%	96	99	6.33	33.07%
96	74	18.48	14.95%	96	100	6.14	33.48%
96	75	17.67	15.77%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

				M/F				M/F
First Age	Second Age	Life Expectancy	Payout		First Age	Second Age	Life Expectancy	Payout
97	50	40.79	3.48%		97	76	16.84	16.64%
97	51	39.79	3.72%		97	77	16.07	17.50%
97	52	38.80	3.97%		97	78	15.32	18.38%
97	53	37.81	4.23%		97	79	14.60	19.27%
97	54	36.82	4.51%		97	80	13.91	20.15%
97	55	35.84	4.81%		97	81	13.23	21.07%
97	56	34.86	5.13%		97	82	12.59	21.97%
97	57	33.89	5.46%		97	83	11.97	22.88%
97	58	32.92	5.82%		97	84	11.39	23.76%
97	59	31.96	6.20%		97	85	10.83	24.65%
97	60	31.01	6.60%		97	86	10.31	25.50%
97	61	30.06	7.02%		97	87	9.82	26.33%
97	62	29.11	7.47%		97	88	9.35	27.15%
97	63	28.17	7.94%		97	89	8.93	27.90%
97	64	27.24	8.44%		97	90	8.53	28.64%
97	65	26.32	8.96%		97	91	8.17	29.32%
97	66	25.41	9.51%		97	92	7.83	29.98%
97	67	24.50	10.09%		97	93	7.53	30.57%
97	68	23.60	10.70%		97	94	7.25	31.14%
97	69	22.71	11.34%		97	95	6.98	31.69%
97	70	21.84	12.01%		97	96	6.74	32.19%
97	71	20.97	12.71%		97	97	6.51	32.68%
97	72	20.11	13.44%		97	98	6.29	33.15%
97	73	19.27	14.20%		97	99	6.07	33.63%
97	74	18.44	14.99%		97	100	5.88	34.05%
97	75	17.63	15.81%					

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
98	50	40.79	3.48%	98	76	16.79	16.70%
98	51	39.79	3.72%	98	77	16.02	17.56%
98	52	38.79	3.97%	98	78	15.27	18.44%
98	53	37.80	4.23%	98	79	14.54	19.34%
98	54	36.82	4.51%	98	80	13.84	20.25%
98	55	35.83	4.81%	98	81	13.16	21.17%
98	56	34.86	5.13%	98	82	12.51	22.08%
98	57	33.88	5.47%	98	83	11.88	23.01%
98	58	32.92	5.82%	98	84	11.29	23.92%
98	59	31.95	6.20%	98	85	10.72	24.82%
98	60	31.00	6.60%	98	86	10.19	25.70%
98	61	30.05	7.02%	98	87	9.69	26.55%
98	62	29.10	7.47%	98	88	9.22	27.38%
98	63	28.16	7.95%	98	89	8.78	28.18%
98	64	27.23	8.44%	98	90	8.37	28.94%
98	65	26.31	8.97%	98	91	8.00	29.65%
98	66	25.39	9.52%	98	92	7.66	30.32%
98	67	24.48	10.10%	98	93	7.34	30.96%
98	68	23.58	10.72%	98	94	7.05	31.55%
98	69	22.69	11.36%	98	95	6.78	32.11%
98	70	21.81	12.03%	98	96	6.53	32.64%
98	71	20.94	12.73%	98	97	6.29	33.15%
98	72	20.08	13.47%	98	98	6.05	33.68%
98	73	19.24	14.23%	98	99	5.83	34.17%
98	74	18.40	15.03%	98	100	5.63	34.61%
98	75	17.59	15.85%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
99	50	40.79	3.48%	99	76	16.75	16.74%
99	51	39.79	3.72%	99	77	15.98	17.61%
99	52	38.79	3.97%	99	78	15.22	18.50%
99	53	37.80	4.23%	99	79	14.49	19.41%
99	54	36.81	4.52%	99	80	13.78	20.33%
99	55	35.83	4.81%	99	81	13.09	21.26%
99	56	34.85	5.13%	99	82	12.43	22.20%
99	57	33.88	5.47%	99	83	11.80	23.13%
99	58	32.91	5.83%	99	84	11.20	24.06%
99	59	31.95	6.20%	99	85	10.62	24.99%
99	60	30.99	6.60%	99	86	10.08	25.88%
99	61	30.04	7.03%	99	87	9.57	26.76%
99	62	29.09	7.48%	99	88	9.09	27.61%
99	63	28.15	7.95%	99	89	8.64	28.44%
99	64	27.22	8.45%	99	90	8.23	29.21%
99	65	26.30	8.97%	99	91	7.84	29.96%
99	66	25.38	9.53%	99	92	7.49	30.65%
99	67	24.47	10.11%	99	93	7.17	31.30%
99	68	23.57	10.72%	99	94	6.87	31.92%
99	69	22.68	11.37%	99	95	6.59	32.51%
99	70	21.79	12.05%	99	96	6.33	33.07%
99	71	20.92	12.75%	99	97	6.07	33.63%
99	72	20.06	13.49%	99	98	5.83	34.17%
99	73	19.21	14.26%	99	99	5.60	34.68%
99	74	18.37	15.06%	99	100	5.39	35.16%
99	75	17.55	15.89%				

Joint Two Life Payout Grid

6.75% Discount Rate; 2012 Individual Annuitant Mortality (IAM) with 1% Mortality Improvement – Two Lives
Effective January 2024

			M/F				M/F
First Age	Second Age	Life Expectancy	Payout	First Age	Second Age	Life Expectancy	Payout
100	50	40.78	3.48%	100	76	16.72	16.77%
100	51	39.78	3.72%	100	77	15.94	17.65%
100	52	38.79	3.97%	100	78	15.18	18.55%
100	53	37.80	4.23%	100	79	14.44	19.47%
100	54	36.81	4.52%	100	80	13.72	20.41%
100	55	35.82	4.82%	100	81	13.03	21.35%
100	56	34.85	5.13%	100	82	12.37	22.29%
100	57	33.87	5.47%	100	83	11.73	23.24%
100	58	32.90	5.83%	100	84	11.12	24.18%
100	59	31.94	6.21%	100	85	10.54	25.12%
100	60	30.98	6.61%	100	86	9.98	26.05%
100	61	30.03	7.03%	100	87	9.46	26.95%
100	62	29.09	7.48%	100	88	8.98	27.81%
100	63	28.15	7.95%	100	89	8.52	28.66%
100	64	27.21	8.45%	100	90	8.09	29.48%
100	65	26.29	8.98%	100	91	7.70	30.24%
100	66	25.37	9.53%	100	92	7.34	30.96%
100	67	24.46	10.12%	100	93	7.01	31.63%
100	68	23.55	10.74%	100	94	6.70	32.28%
100	69	22.66	11.38%	100	95	6.41	32.90%
100	70	21.78	12.05%	100	96	6.14	33.48%
100	71	20.90	12.77%	100	97	5.88	34.05%
100	72	20.04	13.50%	100	98	5.63	34.61%
100	73	19.18	14.28%	100	99	5.39	35.16%
100	74	18.34	15.09%	100	100	5.17	35.67%
100	75	17.52	15.92%				