

Minnesota Workers' Compensation Insurers Association, Inc.

7701 France Avenue South Suite 450 Minneapolis, MN 55435-3203

952-897-1737 general 952-897-6495 fax

www.mwcia.org

November 6, 2018

#### **ALL ASSOCIATION MEMBERS**

Circular Letter 18-1742

#### RE: Minnesota Statistical Plan Manual — Revisions to Annuity Tables

The Minnesota Department of Commerce has approved the above filing to become effective 12:01 a.m., January 1, 2019.

The purpose of this filing is to expand and update the Annuity Tables found in Part 8 of the *Minnesota Statistical Plan Manual*. The Annuity Tables were expanded to accommodate the maximum age that Permanent Total benefits will be paid for claims with accident dates on or after October 1, 2018. Due to the passage of House File 3873, the maximum age has increased from 67 to 72 (or 5 years after the date of injury whichever is later). Also, to keep applicable Annuity Tables in line with evolving life expectancy trends, MWCIA replaced the current mortality data with the latest available 2014 United States Life Tables.

The attached Exhibit 1 through 3 illustrate all necessary changes to the *Minnesota Statistical Plan Manual*.

Please direct any questions you may concerning this item to MWCIA's Actuarial Department at (952) 897-1737, option 3, or email at actuarial@mwcia.org.

#### A NOTICE TO MEMBERSHIP:

MWCIA would like to remind our membership who have filed a Limited Power of Attorney with the Minnesota Department of Commerce that no materials referenced in this Circular Letter are required to be independently filed with the Department.

#### Exhibit 1

#### Minnesota Statistical Plan Manual

### Part 4—Reporting Instructions—Losses 5. Incurred Losses

#### Effective January 1, 2019

#### **Current Phraseology**

#### 5. Incurred Losses

- A. Incurred Indemnity Amount. Report the amount of incurred indemnity costs as of the loss valuation date. These losses consist of all paid and outstanding benefits, including compensation paid to the deceased prior to death, burial expenses, payments to the state, employers' liability losses and related expenses. Allocated loss adjustment expenses for other than employers' liability coverage must be excluded from reported incurred indemnity losses.
  - If a deductible program applies, losses are to be reported on a gross basis prior to the application of the deductible.
  - 1. **Death and Permanent Disability Claims.** The outstanding costs shall be the carrier's individual claim estimates of future payments, with the following exceptions:
    - a. The portion of the reserve for death claims where there is no surviving spouse, but a parent, brother or sister receives lifetime benefits must be calculated using Tables A, B, C or D in Part 8.
    - b. The disabled life portion of the reserve for a permanent total claim where benefits are payable for life must be calculated using Tables A or B in Part 8.
    - c. The disabled life portion of the reserve for a permanent total claim where benefits are payable until age 67 must be calculated using Tables C or D in Part 8.

#### Proposed Phraseology

#### 5. Incurred Losses

- A. Incurred Indemnity Amount. Report the amount of incurred indemnity costs as of the loss valuation date. These losses consist of all paid and outstanding benefits, including compensation paid to the deceased prior to death, burial expenses, payments to the state, employers' liability losses and related expenses. Allocated loss adjustment expenses for other than employers' liability coverage must be excluded from reported incurred indemnity losses.
  - If a deductible program applies, losses are to be reported on a gross basis prior to the application of the deductible.
  - 1. **Death and Permanent Disability Claims.** The outstanding costs shall be the carrier's individual claim estimates of future payments, with the following exceptions:
    - a. The portion of the reserve for death claims where there is no surviving spouse, but a parent, brother or sister receives lifetime benefits must be calculated using Tables A. B. C or D in Part 8.
    - b. The disabled life portion of the reserve for a permanent total claim where benefits are payable for life must be calculated using Tables A or B in Part 8.
    - c. Tables C or D in Part 8 must be used to calculate the disabled life portion of the reserve for a permanent total claim where benefits are payable until age 67, and Table E in Part 8 must be used for permanent total benefits payable until age 72.

#### Exhibit 2

#### Minnesota Statistical Plan Manual

#### Part 4—Reporting Instructions—Losses

#### 7. Injury Code (Injury Type)

Effective January 1, 2019

#### **Current Phraseology**

# B. Permanent Total Disability. Enter as permanent total each case which has been determined to constitute permanent total disability or which is defined as such under the law, or which in the judgment of the carrier, will result in permanent total disability. In general, permanent total disability includes cases involving the loss, or loss of use of both hands, both arms, both feet, both legs, or both eyes. If a lump sum settlement is made, or in the judgment of the carrier, will be received to settle future benefits, the injury code should be changed from a permanent total to a permanent partial. In establishing reserves on permanent total cases Annuity Tables A, B, C, er-D shall be used, as found in Part 8.

#### **Proposed Phraseology**

B. Permanent Total Disability. Enter as permanent total each case which has been determined to constitute permanent total disability or which is defined as such under the law, or which in the judgment of the carrier, will result in permanent total disability. In general, permanent total disability includes cases involving the loss, or loss of use of both hands, both arms, both feet, both legs, or both eyes. If a lump sum settlement is made, or in the judgment of the carrier, will be received to settle future benefits, the injury code should be changed from a permanent total to a permanent partial. In establishing reserves on permanent total cases Annuity Tables A, B, C, D or E shall be used, as found in Part 8.

#### Exhibit 3

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

Current Phraseology	Proposed Phraseology
1. Table Accidents Prior to October 1, 1992	1. Table Accidents Prior to October 1, 1992
Table A-1 Permanent Total Benefits—Male Lives Table A-2 Permanent Total Benefits—Female Lives Table A-3 Fatal Dependency Benefits—Total Population	Table A-1 Permanent Total Benefits—Male Lives Table A-2 Permanent Total Benefits—Female Lives Table A-3 Fatal Dependency Benefits—Total Population
2. Accidents Between October 1, 1992 and September 30, 1995	2. Accidents Between October 1, 1992 and September 30, 1995
Table B-1 Permanent Total Benefits—Male Lives Table B-2 Permanent Total Benefits—Female Lives Table B-3 Fatal Dependency Benefits—Total Population	Table B-1 Permanent Total Benefits—Male Lives Table B-2 Permanent Total Benefits—Female Lives Table B-3 Fatal Dependency Benefits—Total Population
3. Accidents Between October 1, 1995 and September 30, 2013	3. Accidents Between October 1, 1995 and September 30, 2013
Table C-1 Permanent Total Benefits—Male Lives Table C-2 Permanent Total Benefits—Female Lives Table C-3 Fatal Dependency Benefits—Total Population	Table C-1 Permanent Total Benefits—Male Lives Table C-2 Permanent Total Benefits—Female Lives Table C-3 Fatal Dependency Benefits—Total Population
4. Accidents on or After October 1, 2013	4. Accidents Between October 1, 2013 and September 30, 2018
Table D-1 Permanent Total Benefits—Male Lives Table D-2 Permanent Total Benefits—Female Lives Table D-3 Fatal Dependency Benefits—Total Population	Table D-1 Permanent Total Benefits—Male Lives Table D-2 Permanent Total Benefits—Female Lives
	5. Accidents on or After October 1, 2013
	Table D-3 Fatal Dependency Benefits—Total Population
	6. Accidents on or After October 1, 2018
	Table E-1 Permanent Total Benefits—Male Lives  Table E-2 Permanent Total Benefits—Female Lives

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

		Initial		1st Anniversary of Accident		2nd Anniversary of Accident		3rd and Subsequent _Accident Anniversaries	
		Escalation		Escalation		Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year	
11	11	<del>34.289</del>	12	<del>34.474</del>	13	<del>34.669</del>	14	<del>34.873</del>	
12	12	<del>33.854</del>	13	<del>34.027</del>	14	<del>34.208</del>	15	<del>34.401</del>	
13	13	<del>33.415</del>	14	<del>33.575</del>	15	<del>33.745</del>	16	<del>33.926</del>	
14	14	<del>32.973</del>	15	<del>33.122</del>	16	<del>33.280</del>	17	<del>33.448</del>	
15	15	<del>32.528</del>	16	<del>32.665</del>	17	<del>32.812</del>	18	32.968	
16	16	<del>32.081</del>	17	<del>32.206</del>	18	<del>32.340</del>	19	<del>32.483</del>	
17	17	<del>31.631</del>	18	<del>31.744</del>	19	<del>31.866</del>	20	<del>31.996</del>	
18	18	<del>31.178</del>	19	<del>31.279</del>	20	<del>31.388</del>	21	<del>31.505</del>	
19	19	<del>30.721</del>	20	<del>30.810</del>	21	<del>30.906</del>	22	<del>31.009</del>	
20	20	<del>30.262</del>	21	30.338	22	30.421	23	<del>30.509</del>	
21	21	<del>29.799</del>	22	<del>29.862</del>	23	<del>29.930</del>	24	<del>30.002</del>	
22	22	<del>29.332</del>	23	<del>29.381</del>	24	<del>29.433</del>	25	<del>29.486</del>	
23	23	<del>28.861</del>	24	<del>28.893</del>	25	<del>28.927</del>	26	<del>28.961</del>	
24	24	<del>28.383</del>	25	<del>28.397</del>	26	<del>28.412</del>	27	<del>28.427</del>	
25	25	<del>27.896</del>	26	<del>27.893</del>	27	<del>27.889</del>	28	<del>27.884</del>	
26	26	<del>27.402</del>	27	<del>27.380</del>	28	<del>27.357</del>	29	<del>27.333</del>	
27	27	<del>26.899</del>	28	<del>26.858</del>	29	<del>26.816</del>	30	<del>26.774</del>	
28	28	<del>26.387</del>	29	<del>26.328</del>	30	<del>26.268</del>	31	<del>26.207</del>	
29	29	<del>25.868</del>	30	<del>25.791</del>	31	<del>25.712</del>	32	<del>25.631</del>	
30	30	<del>25.341</del>	31	<del>25.246</del>	32	<del>25.148</del>	33	<del>25.048</del>	
31	31	<del>24.807</del>	32	<del>24.693</del>	33	<del>24.576</del>	34	<del>24.456</del>	
32	32	<del>24.264</del>	33	<del>24.132</del>	34	<del>23.995</del>	35	<del>23.856</del>	
33	33	<del>23.714</del>	34	<del>23.563</del>	35	<del>23.407</del>	36	<del>23.247</del>	
34	34	<del>23.157</del>	35	<del>22.986</del>	36	<del>22.811</del>	37	<del>22.631</del>	
35	35	<del>22.591</del>	36	<del>22.401</del>	37	<del>22.206</del>	38	<del>22.007</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	<u> </u>				2nd Anniversary of Accident		3rd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
4.4	4.4	04.005	40	04.540	40	04.700	4.4	04.040
11	11	<u>34.325</u>	12	34.512	13	34.708	14	34.912
12	12	33.891	13	<u>34.065</u>	14	34.247	15	34.439
13	13	<u>33.453</u>	14	<u>33.613</u>	15	<u>33.783</u>	16	<u>33.961</u>
14	14	<u>33.010</u>	15	<u>33.158</u>	16	<u>33.315</u>	17	<u>33.480</u>
15	15	<u>32.564</u>	16	<u>32.699</u>	17	<u>32.843</u>	18	<u>32.996</u>
16	16	32.114	17	32.237	18	32.368	19	32.508
17	17	31.661	18	31.771	19	31.890	20	32.018
18	18	31.204	19	31.303	20	31.410	21	31.525
19	19	30.745	20	30.832	21	30.926	22	31.027
20	20	30.283	21	30.357	22	30.438	23	30.525
20	20	00.200	21	<u>00.007</u>		<u>00.100</u>		00.020
21	21	<u>29.818</u>	22	29.879	23	<u>29.946</u>	24	30.016
22	22	29.349	23	29.396	24	29.447	25	29.500
23	23	28.876	24	28.908	25	28.941	26	28.976
24	24	28.396	25	28.411	26	28.428	27	28.445
25	25	27.910	26	27.908	27	27.906	28	27.905
26	26	<u>27.417</u>	27	<u>27.397</u>	28	<u>27.377</u>	29	<u>27.358</u>
27	27	<u> 26.915</u>	28	<u> 26.878</u>	29	<u>26.841</u>	30	<u>26.803</u>
28	28	<u> 26.407</u>	29	<u> 26.352</u>	30	<u>26.296</u>	31	<u>26.240</u>
29	29	<u>25.891</u>	30	<u>25.819</u>	31	<u>25.744</u>	32	<u>25.668</u>
30	30	25.368	31	25.277	32	<u>25.184</u>	33	25.089
31	31	24.838	32	24.728	33	<u>24.616</u>	34	<u>24.501</u>
32	32	24.299	33	24.171	34	24.040	35	23.904
33	33	23.753	34	23.606	35	23.455	36	23.299
33 34	33 34	23.755 23.199	3 <del>4</del> 35	23.000	36	23.455 22.862	37	<u>23.299</u> 22.686
3 <del>4</del> 35					36 37			
33	35	<u>22.637</u>	36	<u>22.451</u>	31	<u>22.260</u>	38	<u>22.064</u>

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Initial		1st Anniversary Initial of Accident			iniversary ccident	3rd and Subsequent Accident Anniversaries	
Age at	Current	Escalation Deferred	Current	Escalation Deferred	Current	Escalation Deferred	Current	Escalation Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
36	36	<del>22.018</del>	37	<del>21.809</del>	38	<del>21.594</del>	39	<del>21.375</del>
37	37	<del>21.437</del>	38	<del>21.209</del>	39	<del>20.975</del>	40	<del>20.735</del>
38	38	<del>20.849</del>	39	<del>20.601</del>	40	<del>20.348</del>	41	<del>20.088</del>
39	39	<del>20.253</del>	40	<del>19.987</del>	41	<del>19.713</del>	42	<del>19.433</del>
40	40	<del>19.650</del>	41	<del>19.365</del>	42	<del>19.072</del>	43	<del>18.772</del>
41	41	<del>19.041</del>	42	<del>18.736</del>	43	<del>18.423</del>	44	<del>18.104</del>
42	42	<del>18.424</del>	43	<del>18.100</del>	44	<del>17.768</del>	45	<del>17.429</del>
43	43	<del>17.800</del>	44	<del>17.457</del>	45	<del>17.106</del>	46	<del>16.747</del>
44	44	<del>17.171</del>	45	<del>16.809</del>	46	<del>16.437</del>	47	<del>16.057</del>
45	45	<del>16.535</del>	46	<del>16.153</del>	47	<del>15.761</del>	48	<del>15.359</del>
46	46	<del>15.892</del>	47	<del>15.490</del>	48	<del>15.077</del>	49	<del>14.655</del>
47	47	<del>15.242</del>	48	<del>14.820</del>	49	<del>14.387</del>	50	<del>13.944</del>
48	48	<del>14.584</del>	49	<del>14.143</del>	50	<del>13.690</del>	51	<del>13.225</del>
49	49	<del>13.921</del>	50	<del>13.459</del>	51	<del>12.985</del>	52	<del>12.499</del>
50	50	<del>13.250</del>	51	<del>12.768</del>	52	<del>12.273</del>	53	<del>11.764</del>
51	51	<del>12.573</del>	52	<del>12.070</del>	53	<del>11.553</del>	54	<del>11.020</del>
52	52	<del>11.889</del>	53	<del>11.364</del>	54	<del>10.823</del>	55	<del>10.264</del>
53	53	<del>11.196</del>	54	<del>10.648</del>	55	<del>10.082</del>	56	<del>9.498</del>
54	54	<del>10.495</del>	55	<del>9.922</del>	56	<del>9.331</del>	57	<del>8.719</del>
55	55	9.783	56	<del>9.185</del>	57	<del>8.568</del>	58	<del>7.928</del>
56	56	<del>9.060</del>	57	<del>8.437</del>	58	<del>7.792</del>	59	<del>7.123</del>
57	57	<del>8.327</del>	58	<del>7.676</del>	59	<del>7.002</del>	60	<del>6.302</del>
58	58	<del>7.581</del>	59	<del>6.902</del>	60	<del>6.197</del>	61	<del>5.465</del>
59	59	<del>6.822</del>	60	<del>6.113</del>	61	<del>5.377</del>	62	<del>4.609</del>
60	60	<del>6.048</del>	61	<del>5.309</del>	62	<del>4.538</del>	63	<del>3.734</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Initial			1st Anniversary of Accident		niversary ccident	3rd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
36	36	22.067	37	21.861	38	21.650	39	<u>21.433</u>
37	30 37		38	21.861 21.264	39	21.030	40	21.433 20.794
37 38	3 <i>1</i> 38	<u>21.488</u>						
		<u>20.902</u>	39 40	<u>20.658</u>	40	<u>20.406</u>	41	<u>20.147</u>
39	39	<u>20.308</u>	40	<u>20.043</u>	41	<u>19.771</u>	42	<u>19.491</u>
40	40	<u>19.706</u>	41	<u>19.421</u>	42	<u>19.128</u>	43	<u>18.827</u>
41	41	19.096	42	18.791	43	18.477	44	18.155
42	42	18.478	43	18.153	44	17.819	45	17.476
43	43	17.852	44	17.507	45	17.153	46	16.789
44	44	17.219	45	16.854	46	16.479	47	16.095
45	45	16.579	46	16.194	47	15.798	48	15.393
46	46	15.932	47	15.526	48	15.111	49	14.685
40 47	40 47	15.93 <u>2</u> 15.277	47 48	14.852	40 49		50	13.970
						<u>14.416</u>		
48	48	<u>14.616</u>	49 50	<u>14.171</u>	50	<u>13.715</u>	51	<u>13.247</u>
49	49	<u>13.949</u>	50	<u>13.484</u>	51	<u>13.006</u>	52	<u>12.516</u>
50	50	<u>13.275</u>	51	<u>12.789</u>	52	<u>12.289</u>	53	<u>11.776</u>
51	51	12.594	52	12.086	53	11.564	54	11.027
52	52	11.905	53	11.375	54	10.830	55	10.269
53	53	11.207	54	10.655	55	10.086	56	9.500
54	54	10.501	55	9.926	56	9.333	57	8.721
55	55	9.787	56	9.188	57	8.569	58	7.929
56	56	0.063	57	8.438	58	7 702	59	7 100
56 57	56 57	<u>9.063</u> 8.328	57 58	<u>8.438</u> 7.677	58 59	7.792	60	7.123
						<u>7.003</u>	!!	<u>6.303</u>
58	58	<u>7.582</u>	59	<u>6.903</u>	60	<u>6.198</u>	61	<u>5.466</u>
59	59	<u>6.823</u>	60	<u>6.114</u>	61	5.378	62	4.611
60	60	<u>6.049</u>	61	<u>5.310</u>	62	<u>4.540</u>	63	<u>3.737</u>

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Initial			1st Anniversary of Accident		niversary ccident	3rd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61 62	61 62	<del>5.259</del> 4.453	62 63	4.486 3.646	63 64	<del>3.680</del> <del>2.802</del>	64 65	<del>2.838</del> <del>1.919</del>
63	63	<del>3.629</del>	64	<del>2.784</del>	65	<del>1.901</del>	66	<del>0.974</del>
64	64	<del>2.784</del>	65	<del>1.901</del>	66	<del>0.974</del>		
65	65	<del>1.901</del>	66	<del>0.974</del>				
66	66	0.974						

- + Based on 2009 U.S. Life Tables for male population
  - 3.5% annual interest rate
  - 2.0% annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-1—Male
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	lr	Initial				nniversary ccident	3rd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61 62 63 64 65 66	61 62 63 64 65 66	5.260 4.455 3.631 2.787 1.902 0.975	62 63 64 65 66	4.488 3.648 2.787 1.902 0.975	63 64 65 66	3.683 2.804 1.902 0.975	64 65 66	2.841 1.921 0.975

- + Based on 2014 U.S. Life Tables for male population
  - 3.5% annual interest rate
  - 2.0% annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Initial		1st Anniversary of Accident			nniversary ccident	3rd and Subsequent Accident Anniversaries		
		Escalation		Escalation		Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year	
11	11	<del>34.956</del>	12	<del>35.166</del>	13	<del>35.384</del>	14	<del>35.610</del>	
12	12	<del>34.532</del>	13	<del>34.728</del>	14	<del>34.931</del>	15	<del>35.143</del>	
13	13	<del>34.103</del>	14	<del>34.284</del>	15	<del>34.474</del>	16	<del>34.671</del>	
14	14	<del>33.668</del>	15	<del>33.836</del>	16	<del>34.011</del>	17	<del>34.194</del>	
15	15	<del>33.228</del>	16	<del>33.382</del>	17	33.543	18	<del>33.710</del>	
16	16	<del>32.783</del>	17	<del>32.923</del>	18	<del>33.069</del>	19	<del>33.221</del>	
17	17	<del>32.333</del>	18	<del>32.458</del>	19	<del>32.589</del>	20	<del>32.725</del>	
18	18	<del>31.878</del>	19	<del>31.988</del>	20	<del>32.102</del>	21	<del>32.222</del>	
19	19	<del>31.416</del>	20	<del>31.511</del>	21	<del>31.609</del>	22	<del>31.712</del>	
20	20	30.949	21	<del>31.027</del>	22	<del>31.109</del>	23	<del>31.195</del>	
21	21	<del>30.475</del>	22	<del>30.537</del>	23	<del>30.603</del>	24	<del>30.672</del>	
22	22	<del>29.994</del>	23	30.041	24	<del>30.090</del>	25	<del>30.141</del>	
23	23	<del>29.508</del>	24	<del>29.538</del>	25	<del>29.569</del>	26	<del>29.602</del>	
24	24	<del>29.014</del>	25	<del>29.027</del>	26	<del>29.041</del>	27	<del>29.057</del>	
25	25	<del>28.514</del>	26	<del>28.510</del>	27	<del>28.506</del>	28	<del>28.503</del>	
26	26	<del>28.007</del>	27	<del>27.985</del>	28	<del>27.963</del>	29	27.942	
27	27	<del>27.492</del>	28	<del>27.453</del>	29	<del>27.413</del>	30	<del>27.373</del>	
28	28	<del>26.971</del>	29	<del>26.913</del>	30	<del>26.855</del>	31	<del>26.796</del>	
29	29	<del>26.442</del>	30	<del>26.366</del>	31	<del>26.289</del>	32	<del>26.211</del>	
30	30	<del>25.905</del>	31	<del>25.812</del>	32	<del>25.716</del>	33	<del>25.618</del>	
31	31	<del>25.362</del>	32	<del>25.250</del>	33	<del>25.135</del>	34	<del>25.018</del>	
32	32	<del>24.811</del>	33	<del>24.680</del>	34	<del>24.546</del>	35	<del>24.409</del>	
33	33	<del>24.252</del>	34	<del>24.103</del>	35	<del>23.950</del>	36	<del>23.792</del>	
34	34	<del>23.686</del>	35	<del>23.518</del>	36	<del>23.345</del>	37	<del>23.167</del>	
35	35	<del>23.113</del>	36	<del>22.925</del>	37	<del>22.732</del>	38	<del>22.535</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

			1st Anniversary			niversary	3rd and Subsequent	
	Ir	nitial	of A	ccident	of A	ccident	Accident A	<u>Anniversaries</u>
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
11	11	<u>34.976</u>	12	<u>35.186</u>	13	<u>35.404</u>	14	<u>35.630</u>
12	12	<u>34.552</u>	13	<u>34.748</u>	14	<u>34.951</u>	15	<u>35.163</u>
13	13	<u>34.122</u>	14	<u>34.304</u>	15	<u>34.492</u>	16	<u>34.689</u>
14	14	<u>33.687</u>	15	<u>33.854</u>	16	<u>34.028</u>	17	<u>34.210</u>
15	15	<u>33.246</u>	16	<u>33.399</u>	17	<u>33.558</u>	18	<u>33.725</u>
16	16	32.800	17	32.938	18	33.083	19	33.233
17	17	32.348	18	32.472	19	32.601	20	32.736
18	18	31.891	19	32.472	20	32.001 32.113	21	32.730
19	19							
		<u>31.428</u>	20	<u>31.522</u>	21	<u>31.620</u>	22	31.722
20	20	<u>30.959</u>	21	<u>31.038</u>	22	<u>31.120</u>	23	<u>31.205</u>
21	21	30.485	22	30.547	23	30.613	24	30.682
22	22	30.004	23	30.050	24	30.099	25	30.151
23	23	29.517	24	29.547	25	29.579	26	29.612
24	24	29.023	25	29.037	26	29.051	27	29.067
25	25	28.523	26	28.519	27	28.516	28	28.514
		<u>=0.020</u>		<u>=0.0.0</u>		<u>=0.0.0</u>		<u>=0.0</u>
26	26	<u>28.016</u>	27	<u>27.995</u>	28	<u>27.974</u>	29	<u>27.953</u>
27	27	27.502	28	27.463	29	27.424	30	27.385
28	28	26.981	29	26.924	30	26.867	31	26.808
29	29	26.452	30	26.378	31	26.302	32	26.224
30	30	25.917	31	25.824	32	25.729	33	25.632
0.4	0.4	05.074	00	05.000	00	05.440		05.000
31	31	<u>25.374</u>	32	<u>25.263</u>	33	<u>25.149</u>	34	<u>25.033</u>
32	32	24.823	33	<u>24.694</u>	34	<u>24.561</u>	35	24.425
33	33	<u>24.266</u>	34	<u>24.117</u>	35	<u>23.965</u>	36	<u>23.809</u>
34	34	<u>23.700</u>	35	<u>23.533</u>	36	<u>23.361</u>	37	<u>23.185</u>
35	35	<u>23.127</u>	36	<u>22.941</u>	37	<u>22.750</u>	38	<u>22.554</u>

<sup>+</sup> Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Ir	Initial		1st Anniversary of Accident		2nd Anniversary of Accident		3rd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation	_	Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year	
36	36	<del>22.531</del>	37	<del>22.325</del>	38	<del>22.112</del>	39	<del>21.894</del>	
37	37	<del>21.943</del>	38	<del>21.716</del>	39	<del>21.484</del>	40	<del>21.245</del>	
38	38	<del>21.346</del>	39	<del>21.101</del>	40	<del>20.848</del>	41	<del>20.589</del>	
39	39	<del>20.743</del>	40	<del>20.477</del>	41	20.204	42	<del>19.924</del>	
40	40	<del>20.131</del>	41	<del>19.846</del>	42	<del>19.553</del>	43	<del>19.252</del>	
41	41	<del>19.513</del>	42	<del>19.207</del>	43	<del>18.894</del>	44	<del>18.572</del>	
42	42	<del>18.886</del>	43	<del>18.561</del>	44	<del>18.227</del>	45	<del>17.885</del>	
43	43	<del>18.253</del>	44	<del>17.908</del>	45	<del>17.553</del>	46	<del>17.189</del>	
44	44	<del>17.612</del>	45	<del>17.247</del>	46	<del>16.871</del>	47	<del>16.485</del>	
45	45	16.964	46	<del>16.578</del>	47	<del>16.181</del>	48	<del>15.772</del>	
46	46	<del>16.309</del>	47	<del>15.901</del>	48	<del>15.482</del>	49	<del>15.050</del>	
47	47	<del>15.645</del>	48	<del>15.216</del>	49	<del>14.774</del>	50	<del>14.319</del>	
48	48	<del>14.973</del>	49	<del>14.522</del>	50	<del>14.057</del>	51	<del>13.579</del>	
49	49	<del>14.293</del>	50	<del>13.819</del>	51	<del>13.332</del>	52	<del>12.829</del>	
50	50	<del>13.604</del>	51	<del>13.108</del>	52	<del>12.596</del>	53	<del>12.069</del>	
51	51	<del>12.907</del>	52	<del>12.387</del>	53	<del>11.851</del>	54	11.297	
52	52	<del>12.200</del>	53	<del>11.657</del>	54	<del>11.095</del>	55	<del>10.514</del>	
53	53	11.484	54	<del>10.915</del>	55	<del>10.327</del>	56	9.719	
54	54	<del>10.757</del>	55	<del>10.163</del>	56	<del>9.548</del>	57	8.911	
55	55	<del>10.019</del>	56	9.398	57	<del>8.756</del>	58	8.090	
56	56	<del>9.269</del>	57	<del>8.622</del>	58	<del>7.951</del>	59	<del>7.257</del>	
57	57	<del>8.508</del>	58	<del>7.833</del>	59	<del>7.133</del>	60	6.409	
58	58	<del>7.734</del>	59	<del>7.031</del>	60	<del>6.303</del>	61	<del>5.547</del>	
59	59	<del>6.949</del>	60	<del>6.217</del>	61	<del>5.458</del>	62	4 <del>.670</del>	
60	60	<del>6.150</del>	61	<del>5.388</del>	62	4 <del>.597</del>	63	<del>3.776</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Initial					2nd Anniversary of Accident		3rd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year	
36	36	22.547	37	22.342	38	<u>22.131</u>	39	21.914	
37	37	<u>21.960</u>	38	<u>21.735</u>	39	<u>21.504</u>	40	<u>21.266</u>	
38	38	<u>21.364</u>	39	<u>21.120</u>	40	<u>20.869</u>	41	<u>20.610</u>	
39	39	20.762	40	20.497	41	20.225	42	19.946	
40	40	20.151	41	19.867	42	19.574	43	19.273	
41	41	19.533	42	<u>19.228</u>	43	<u>18.914</u>	44	<u>18.591</u>	
42	42	18.907	43	18.581	44	18.246	45	17.901	
43	43	18.272	44	17.926	45	17.569	46	17.203	
44	44	17.630	45	17.263	46	16.884	47	16.495	
45	45	16.980	46	16.591	47	16.191	48	15.779	
46	46	16.322	47	<u>15.911</u>	48	<u>15.489</u>	49	<u>15.055</u>	
47	47	15.655	48	15.223	49	14.779	50	14.323	
48	48	14.980	49	14.527	50	14.061	51	13.581	
49	49	14.298	50	13.823	51	13.334	52	12.830	
50	50	13.608	51	13.110	52	12.598	53	12.069	
51	51	12.909	52	12.388	53	11.851	54	11.297	
52	52	12.201	53	11.657	54	11.095	55	10.515	
53	53	11.484	54	10.915	55	10.328	56	9.721	
54	54	10.757	55	10.163	56	9.549	57	8.915	
55	55	10.019	56	9.400	57	8.759	58	8.096	
56	56	9.271	57	8.625	58	7.956	59	7.263	
57	57	8.511	58	7.838	59	7.140	60	6.416	
58	58	7.740	59	7.038	60	6.309	61	5.554	
59	59	6.955	60	6.223	61	5.464	62	4.675	
60	60	6.157	61	5.394	62	4.603	63	3.780	

<sup>+</sup> Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	Ir	Initial		1st Anniversary of Accident		2nd Anniversary of Accident		3rd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year	
61	61	5.338	62	4.545	63	3.721	64	2.863	
62	62	<del>4.511</del>	63	<del>3.685</del>	64	<del>2.826</del>	65	<del>1.931</del>	
63	63	<del>3.668</del>	64	<del>2.808</del>	65	<del>1.912</del>	66	<del>0.977</del>	
64	64	<del>2.808</del>	65	<del>1.912</del>	66	<del>0.977</del>			
65	65	<del>1.912</del>	66	<del>0.977</del>					
66	66	<del>0.977</del>							

- + Based on 2009 U.S. Life Tables for female population
  - 3.5% annual interest rate
  - 2.0% annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table C-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 1995 through September 30, 2013

	lr	nitial		niversary ccident		niversary ccident		Subsequent Anniversaries
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61	61	5.344	62	4.550	63	3.725	64	2.866
62	62	4.516	63	3.689	64	2.829	65	1.932
63	63	<u>3.672</u>	64	<u>2.811</u>	65	<u>1.914</u>	66	<u>0.978</u>
64	64	<u>2.811</u>	65	<u>1.914</u>	66	<u>0.978</u>		
65 66	65 66	1.914 0.978	66	0.978				

- + Based on 2014 U.S. Life Tables for female population
  - 3.5% annual interest rate
  - 2.0% annual escalation beginning on fourth anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

	lı	nitial		niversary ccident		nniversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
0	0	<del>43.000</del>	1	<del>43.770</del>	2	<del>44.303</del>	3	<del>44.849</del>
1	1	42.968	2	43.472	3	43.989	4	44.520
2	2	<del>42.676</del>	3	43.164	4	4 <del>3.667</del>	5	44.185
3	3	42.373	4	42.848	5	43.338	6	43.844
4	4	4 <del>2.064</del>	5	42.526	6	43.003	7	43.497
5	5	41.748	6	<del>42.198</del>	7	4 <del>2.663</del>	8	<del>43.145</del>
6	6	<del>41.426</del>	7	<del>41.865</del>	8	<del>42.318</del>	9	<del>42.786</del>
7	7	<del>41.100</del>	8	<del>41.526</del>	9	<del>41.967</del>	10	<del>42.422</del>
8	8	40.768	9	<del>41.182</del>	10	<del>41.610</del>	11	<del>42.052</del>
9	9	<del>40.430</del>	10	<del>40.832</del>	11	<del>41.247</del>	12	<del>41.677</del>
10	10	<del>40.087</del>	11	<del>40.476</del>	12	<del>40.879</del>	13	<del>41.298</del>
11	11	<del>39.739</del>	12	<del>40.116</del>	13	<del>40.508</del>	14	<del>40.916</del>
12	12	<del>39.385</del>	13	<del>39.751</del>	14	<del>40.133</del>	15	4 <del>0.532</del>
13	13	<del>39.028</del>	14	<del>39.384</del>	15	<del>39.756</del>	16	<del>40.146</del>
14	14	<del>38.668</del>	15	<del>39.015</del>	16	<del>39.378</del>	17	<del>39.757</del>
4.5	45	00.000	40	00.040	47	00.007	40	00.005
15	15	<del>38.306</del>	16	<del>38.643</del>	17	38.997	18	<del>39.365</del>
16	16	<del>37.942</del>	17	<del>38.270</del>	18	<del>38.613</del>	19	<del>38.971</del>
17	17	<del>37.575</del>	18	<del>37.894</del>	19	<del>38.226</del>	20	<del>38.574</del>
18	18	<del>37.206</del>	19	<del>37.515</del>	20	<del>37.837</del>	21	<del>38.174</del>
19	19	<del>36.835</del>	20	<del>37.133</del>	21	<del>37.444</del>	22	<del>37.770</del>
20	20	36.461	21	36.748	22	<del>37.049</del>	23	<del>37.362</del>
21	21	<del>36.083</del>	22	<del>36.360</del>	23	<del>36.649</del>	24	<del>36.949</del>
22	22	<del>35.703</del>	23	<del>35.968</del>	24	<del>36.244</del>	25	<del>36.530</del>
23	23	<del>35.319</del>	24	<del>35.571</del>	25	<del>35.833</del>	26	<del>36.104</del>
24	24	34.929	25	<del>35.168</del>	26	<del>35.415</del>	27	<del>35.671</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### Minnesota Statistical Plan Manual

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	lr	nitial		niversary ccident		nniversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
0	0	<u>43.141</u>	1	<u>43.893</u>	2	<u>44.428</u>	3	44.977
1	1	43.088	2	<u>43.595</u>	3	<u>44.115</u>	4	44.650
2 3	2	42.796	3	43.288	4	43.793	5	44.316
3	3	42.495	4	42.973	5	43.466	6	43.977
4	4	42.186	5	42.652	6	43.134	7	43.631
								<u> </u>
5	5	<u>41.871</u>	6	42.326	7	<u>42.795</u>	8	43.281
6	6	41.552	7	41.994	8	42.451	9	42.924
7	7	41.226	8	41.657	9	42.102	10	42.562
8	8	40.896	9	41.314	10	41.747	11	42.194
9	9	40.560	10	40.966	11	41.386	12	41.821
10	10	<u>40.219</u>	11	<u>40.613</u>	12	<u>41.021</u>	13	<u>41.444</u>
11	11	<u>39.872</u>	12	<u>40.254</u>	13	<u>40.651</u>	14	<u>41.063</u>
12	12	39.521	13	39.891	14	40.277	15	40.679
13	13	39.165	14	39.525	15	39.901	16	40.292
14	14	38.806	15	39.156	16	39.521	17	39.902
								<u> </u>
15	15	<u>38.444</u>	16	<u>38.784</u>	17	<u>39.139</u>	18	39.509
16	16	38.079	17	38.409	18	38.753	19	39.114
17	17	37.712	18	38.031	19	38.366	20	38.716
18	18	37.342	19	37.652	20	37.976	21	38.315
19	19	36.969	20	37.269	21	37.583	22	37.912
20	20	<u>36.594</u>	21	<u>36.884</u>	22	<u>37.188</u>	23	<u>37.505</u>
21	21	36.217	22	36.497	23	36.789	24	37.093
22	22	35.837	23	<u>36.105</u>	24	36.385	25	36.675
23	23	35.453	24	35.709	25	35.975	26	36.252
24	24	35.065	25	35.308	26	35.560	27	35.822

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### Minnesota Statistical Plan Manual

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

#### **Table C-3—Total Population**

## Annuity Table + Lifetime Fatal Dependency Benefits \* Accidents From October 1, 1995 through September 30, 2013

	lı	nitial		niversary ccident		nniversary .ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
25	25	34.534	26	<del>34.758</del>	27	<del>34.991</del>	28	<del>35.232</del>
26	26	<del>34.133</del>	27	<del>34.343</del>	28	<del>34.560</del>	29	<del>34.786</del>
27	27	<del>33.725</del>	28	<del>33.920</del>	29	<del>34.124</del>	30	<del>34.335</del>
28	28	<del>33.311</del>	29	<del>33.492</del>	30	<del>33.681</del>	31	<del>33.877</del>
29	29	<del>32.891</del>	30	<del>33.058</del>	31	<del>33.232</del>	32	<del>33.414</del>
30	30	<del>32.466</del>	31	<del>32.619</del>	32	<del>32.778</del>	33	<del>32.944</del>
31	31	<del>32.035</del>	32	<del>32.173</del>	33	<del>32.318</del>	34	<del>32.469</del>
32	32	<del>31.598</del>	33	<del>31.722</del>	34	<del>31.852</del>	35	<del>31.988</del>
33	33	<del>31.156</del>	34	<del>31.265</del>	35	<del>31.380</del>	36	<del>31.501</del>
34	34	<del>30.708</del>	35	30.803	36	30.903	37	<del>31.009</del>
35	35	<del>30.254</del>	36	<del>30.335</del>	37	<del>30.420</del>	38	<del>30.512</del>
36	36	<del>29.796</del>	37	<del>29.862</del>	38	<del>29.933</del>	39	<del>30.010</del>
37	37	<del>29.332</del>	38	<del>29.384</del>	39	<del>29.440</del>	40	<del>29.503</del>
38	38	<del>28.863</del>	39	<del>28.901</del>	40	<del>28.944</del>	41	<del>28.992</del>
39	39	<del>28.390</del>	40	<del>28.414</del>	41	<del>28.442</del>	42	<del>28.477</del>
40	40	<del>27.912</del>	41	<del>27.923</del>	42	<del>27.937</del>	43	<del>27.958</del>
41	41	<del>27.431</del>	42	<del>27.427</del>	43	<del>27.429</del>	44	<del>27.437</del>
42	42	<del>26.945</del>	43	<del>26.929</del>	44	<del>26.918</del>	45	<del>26.913</del>
43	43	<del>26.457</del>	44	<del>26.428</del>	45	<del>26.405</del>	46	<del>26.387</del>
44	44	<del>25.966</del>	45	<del>25.925</del>	46	<del>25.889</del>	47	<del>25.857</del>
45	45	<del>25.472</del>	46	<del>25.419</del>	47	<del>25.370</del>	48	<del>25.325</del>
46	46	<del>24.976</del>	47	<del>24.910</del>	48	<del>24.848</del>	49	<del>24.792</del>
47	47	<del>24.477</del>	48	<del>24.399</del>	49	<del>24.325</del>	50	<del>24.257</del>
48	48	<del>23.976</del>	49	<del>23.886</del>	50	<del>23.800</del>	51	<del>23.721</del>
49	49	<del>23.473</del>	50	<del>23.371</del>	51	<del>23.275</del>	52	<del>23.185</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	lr	nitial		niversary ccident		nniversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
25	25	34.671	26	34.901	27	35.139	28	<u>35.388</u>
26	26	34.272	27	34.488	28	34.713	29	34.947
27	27	33.868	28	34.070	29	34.281	30	34.500
28	28	33.458	29	33.647	30	33.843	31	34.048
29	29	33.043	30	33.217	31	33.400	32	33.590
30	30	32.622	31	32.783	32	32.951	33	33.126
31	31	32.196	32	32.342	33	32.496	34	32.656
32	32	31.764	33	31.896	34	32.035	35	32.180
33	33	31.327	34	31.444	35	31.568	36	31.698
34	34	30.884	35	30.987	36	31.096	37	31.211
35	35	<u>30.435</u>	36	30.524	37	<u>30.618</u>	38	30.718
36	36	29.981	37	30.056	38	30.135	39	30.220
37	37	29.522	38	29.582	39	29.647	40	29.717
38	38	29.058	39	29.103	40	29.153	41	29.208
39	39	28.588	40	28.619	41	28.654	42	28.694
40	40	28.114	41	28.130	42	28.151	43	28.176
41	41	27.635	42	27.637	43	27.643	44	27.654
42	42	27.151	43	27.139	44	27.131	45	27.128
43	43	26.662	44	26.637	45	26.615	46	26.598
44	44	26.170	45	26.131	46	26.096	47	26.066
45	45	25.675	46	25.622	47	25.574	48	25.531
46	46	25.175	47	25.110	48	25.050	49	24.996
47	47	24.674	48	24.597	49	24.525	50	24.459
48	48	24.170	49	24.082	50	23.999	51	23.922
49	49	23.665	50	23.566	51	23.472	52	23.383

<sup>+</sup> Based on 20<u>14</u> U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	lr	nitial		niversary ccident		nniversary ccident		Subsequent Inniversaries
		Escalation		Escalation	<u> </u>	Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
50	50	<del>22.969</del>	51	<del>22.857</del>	52	<del>22.749</del>	53	<del>22.647</del>
51	51	<del>22.464</del>	52	<del>22.341</del>	53	<del>22.222</del>	54	<del>22.106</del>
52	52	<del>21.958</del>	53	<del>21.824</del>	54	<del>21.692</del>	55	<del>21.564</del>
53	53	<del>21.451</del>	54	<del>21.305</del>	55	<del>21.160</del>	56	<del>21.019</del>
54	54	<del>20.942</del>	55	<del>20.783</del>	56	<del>20.626</del>	57	<del>20.471</del>
55	55	20.431	56	<del>20.259</del>	57	20.089	58	<del>19.922</del>
56	56	<del>19.917</del>	57	<del>19.733</del>	58	<del>19.551</del>	59	<del>19.372</del>
57	57	<del>19.401</del>	58	<del>19.205</del>	59	<del>19.011</del>	60	<del>18.821</del>
58	58	<del>18.884</del>	59	<del>18.676</del>	60	<del>18.471</del>	61	<del>18.269</del>
59	59	<del>18.365</del>	60	<del>18.146</del>	61	<del>17.930</del>	62	<del>17.716</del>
60	60	<del>17.846</del>	61	<del>17.616</del>	62	<del>17.388</del>	63	<del>17.163</del>
61	61	<del>17.325</del>	62	<del>17.085</del>	63	<del>16.846</del>	64	<del>16.611</del>
62	62	<del>16.805</del>	63	<del>16.553</del>	64	<del>16.304</del>	65	<del>16.059</del>
63	63	<del>16.283</del>	64	<del>16.022</del>	65	<del>15.763</del>	66	<del>15.510</del>
64	64	<del>15.762</del>	65	<del>15.491</del>	66	<del>15.225</del>	67	<del>14.964</del>
65	65	<del>15.242</del>	66	<del>14.963</del>	67	<del>14.689</del>	68	<del>14.421</del>
66	66	<del>14.725</del>	67	<del>14.439</del>	68	<del>14.158</del>	69	<del>13.882</del>
67	67	<del>14.210</del>	68	<del>13.917</del>	69	<del>13.629</del>	70	<del>13.344</del>
68	68	<del>13.699</del>	69	<del>13.399</del>	70	<del>13.101</del>	71	<del>12.809</del>
69	69	<del>13.190</del>	70	<del>12.882</del>	71	<del>12.576</del>	72	<del>12.277</del>
70	70	<del>12.683</del>	71	<del>12.367</del>	72	<del>12.056</del>	73	<del>11.750</del>
71	71	<del>12.178</del>	72	<del>11.856</del>	73	<del>11.539</del>	74	<del>11.230</del>
72	72	<del>11.677</del>	73	<del>11.350</del>	74	<del>11.029</del>	75	<del>10.718</del>
73	73	<del>11.181</del>	74	<del>10.850</del>	75	<del>10.527</del>	76	<del>10.211</del>
74	74	<del>10.690</del>	75	<del>10.357</del>	76	<del>10.030</del>	77	9.711

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	In	nitial		niversary ccident		niversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
50	50	23.160	51	23.050	52	22.944	53	22.843
51	51	22.653	52	22.532	53	22.414	54	22.302
52	52	22.145	53	22.013	54	21.884	55	21.761
53	53	21.636	54	21.493	55	21.353	56	21.219
54	54	21.127	55	20.972	56	20.823	57	20.677
55	55	20.617	56	20.452	57	20.291	58	20.135
56	56	20.106	57	19.931	58	19.759	59	19.590
57	57	19.595	58	19.409	59	19.225	60	19.045
58	58	19.084	59	18.886	60	18.690	61	18.497
59	59	18.571	60	18.361	61	18.154	62	17.949
60	60	18.057	61	17.836	62	<u>17.617</u>	63	<u>17.400</u>
61	61	17.541	62	17.309	63	17.078	64	16.849
62	62	17.024	63	16.781	64	16.538	65	16.297
63	63	16.507	64	16.251	65	15.996	66	15.742
64	64	15.987	65	15.720	66	15.453	67	15.186
65	65	15.467	66	15.187	67	14.908	68	14.630
66	66	14.944	67	14.653	68	14.362	69	14.075
67	67	14.420	68	14.118	69	13.818	70	13.523
68	68	13.896	69	13.584	70	13.277	71	12.976
69	69	13.372	70	13.054	71	12.741	72	12.435
70	70	12.852	71	12.528	72	12.211	73	11.900
71	71	12.337	72	12.008	73	11.686	74	11.371
72	72	11.827	73	11.494	74	11.167	75	10.847
73	73	11.322	74	10.985	75	10.654	76	10.328
74	74	10.823	75	10.481	76	10.145	77	9.816

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	Ir	nitial		niversary ccident		niversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
75	75	<del>10.207</del>	76	<del>9.870</del>	77	<del>9.540</del>	78	<del>9.220</del>
76	76	9.729	77	9.389	78	9.058	79	<del>8.740</del>
77	77	<del>9.258</del>	78	<del>8.917</del>	79	<del>8.587</del>	80	<del>8.270</del>
78	78	8.794	79	<del>8.455</del>	80	<del>8.127</del>	81	<del>7.811</del>
79	79	8.341	80	8.003	81	<del>7.676</del>	82	7.361
80	80	<del>7.898</del>	81	<del>7.562</del>	82	<del>7.236</del>	83	<del>6.925</del>
81	81	<del>7.465</del>	82	<del>7.129</del>	83	6.808	84	<del>6.504</del>
82	82	<del>7.040</del>	83	<del>6.710</del>	84	<del>6.395</del>	85	<del>6.097</del>
83	83	<del>6.629</del>	84	<del>6.305</del>	85	<del>5.996</del>	86	<del>5.713</del>
84	84	<del>6.231</del>	85	<del>5.913</del>	86	<del>5.619</del>	87	<del>5.347</del>
85	85	<del>5.846</del>	86	<del>5.543</del>	87	<del>5.261</del>	88	<del>5.001</del>
86	86	<del>5.483</del>	87	<del>5.192</del>	88	<del>4.921</del>	89	<del>4.674</del>
87	87	<del>5.137</del>	88	4 <del>.858</del>	89	4 <del>.600</del>	90	4 <del>.365</del>
88	88	<del>4.809</del>	89	<del>4.543</del>	90	4 <del>.298</del>	91	<del>4.076</del>
89	89	4.499	90	4.246	91	4.014	92	3.805
90	90	<del>4.207</del>	91	<del>3.967</del>	92	<del>3.748</del>	93	<del>3.551</del>
91	91	3.933	92	<del>3.706</del>	93	3.499	94	<del>3.316</del>
92	92	<del>3.676</del>	93	<del>3.462</del>	94	<del>3.268</del>	95	<del>3.097</del>
93	93	<del>3.435</del>	94	3.234	95	3.053	96	<del>2.893</del>
94	94	<del>3.211</del>	95	<del>3.023</del>	96	<del>2.854</del>	97	<del>2.705</del>
95	95	3.003	96	<del>2.827</del>	97	<del>2.668</del>	98	<del>2.530</del>
96	96	<del>2.809</del>	97	<del>2.645</del>	98	<del>2.497</del>	99	<del>2.366</del>
97	97	<del>2.630</del>	98	<del>2.476</del>	99	<del>2.336</del>	100	2.212
98	98	<del>2.463</del>	99	<del>2.318</del>	100	<del>2.185</del>	101	<del>2.067</del>
99	99	<del>2.307</del>	100	<del>2.168</del>	101	2.042	102	<del>1.932</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

	lr	nitial		niversary ccident		iniversary ccident		Subsequent Anniversaries
		Escalation		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	4 Years	Age	3 Years	Age	2 Years	Age	1 Year
75	75	10.329	76	9.983	77	9.643	78	9.313
76	76	9.840	77	9.490	78	9.150	79	8.821
77	77	9.357	78	9.007	79	8.667	80	8.341
78	78	8.882	79	8.533	80	8.196	81	7.875
79	79	8.418	80	8.072	81	7.739	82	7.421
80	80	7.965	81	7.623	82	7.294	83	6.979
81	81	7.525	82	7.186	83	6.860	84	6.552
82	82	7.096	83	6.761	84	6.442	85	6.141
83	83	6.679	84	6.351	85	6.039	86	5.746
84	84	6.276	85	5.956	86	5.652	87	5.370
85	85	5.888	86	5.575	87	5.283	88	5.015
86	86	5.514	87	5.214	88	4.934	89	4.679
87	87	5.159	88	4.871	89	4.605	90	4.363
88	88	4.822	89	4.548	90	4.295	91	4.066
89	89	4.504	90	4.243	91	4.004	92	3.789
90	90	4.205	91	3.958	92	3.732	93	3.530
91	91	3.924	92	3.691	93	3.478	94	3.290
92	92	3.661	93	3.441	94	3.243	95	3.067
93	93	3.415	94	3.210	95	3.024	96	2.860
94	94	3.187	95	2.994	96	2.821	97	2.669
95	95	2.975	96	2.795	97	2.634	98	2.492
96	96	2.778	97	2.611	98	2.460	99	2.327
97	97	2.596	98	2.439	99	2.297	100	2.171
98	98	2.427	99	2.280	100	2.144	101	2.025
99	99	2.269	100	2.129	101	2.002	102	1.889

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

	lr	nitial		niversary ccident		nniversary ccident		Subsequent Anniversaries
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
100 101 102 103 104	100 101 102 103 104	2.159 2.020 1.891 1.769 1.651	101 102 103 104 105	2.028 1.898 1.774 1.655 1.542	102 103 104 105 106	1.910 1.785 1.664 1.550 1.436	103 104 105 106 107	1.805 1.682 1.565 1.450 1.310
105 106 107 108 109 110	105 106 107 108 109 110	1.539 1.428 1.294 1.134 0.924 0.472	106 107 108 109 110	1.430 1.295 1.134 0.924 0.472	107 108 109 110	1.299 1.136 0.924 0.472	108 109 110	1.144 0.928 0.472

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

	Ir	nitial		niversary ccident		niversary ccident	II .	Subsequent Anniversaries
Age at Accident	Current Age	Escalation Deferred 4 Years	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
100 101 102 103 104	100 101 102 103 104	2.120 1.981 1.850 1.727 1.612	101 102 103 104 105	1.988 1.856 1.732 1.616 1.507	102 103 104 105 106	1.868 1.742 1.624 1.514 1.406	103 104 105 106 107	1.761 1.641 1.530 1.419 1.304
105 106 107 108 109 110	105 106 107 108 109 110	1.504 1.398 1.288 1.144 0.897 0.482	106 107 108 109 110	1.400 1.289 1.144 0.897 0.482	107 108 109 110	1.293 1.146 0.897 0.482	108 109 110	1.154 0.901 0.482

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>2.0%</sup> annual escalation beginning on fourth anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-1—Male Annuity Table + Permanent Total Benefits Accidents On or After October 1, 2013

	ı	nitial		nniversary Accident		Subsequent Anniversaries
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
11	11	43.360	12	43.864	13	44.388
12	12	<del>42.643</del>	13	<del>43.124</del>	14	4 <del>3.626</del>
13	13	<del>41.924</del>	14	<del>42.384</del>	15	<del>42.866</del>
14	14	<del>41.206</del>	15	<del>41.646</del>	16	<del>42.107</del>
15	15	<del>40.489</del>	16	40.909	17	<del>41.349</del>
16	16	<del>39.774</del>	17	<del>40.174</del>	18	<del>40.593</del>
17	17	<del>39.060</del>	18	<del>39.439</del>	19	<del>39.837</del>
18	18	<del>38.346</del>	19	<del>38.705</del>	20	<del>39.081</del>
19	19	<del>37.634</del>	20	<del>37.972</del>	21	<del>38.327</del>
20	20	<del>36.922</del>	21	<del>37.239</del>	22	<del>37.572</del>
21	21	<del>36.211</del>	22	<del>36.506</del>	23	<del>36.816</del>
22	22	<del>35.499</del>	23	<del>35.772</del>	24	<del>36.056</del>
23	23	<del>34.787</del>	24	<del>35.035</del>	25	<del>35.292</del>
24	24	<del>34.071</del>	25	<del>34.292</del>	26	<del>34.521</del>
25	25	<del>33.350</del>	26	<del>33.545</del>	27	<del>33.746</del>
26	26	<del>32.624</del>	27	<del>32.792</del>	28	<del>32.965</del>
27	27	<del>31.893</del>	28	<del>32.034</del>	29	<del>32.180</del>
28	28	<del>31.157</del>	29	<del>31.272</del>	30	31.391
29	29	<del>30.417</del>	30	<del>30.506</del>	31	<del>30.598</del>
30	30	<del>29.673</del>	31	<del>29.736</del>	32	<del>29.802</del>
31	31	<del>28.926</del>	32	<del>28.962</del>	33	<del>29.001</del>
32	32	<del>28.175</del>	33	<del>28.185</del>	34	<del>28.197</del>
33	33	<del>27.420</del>	34	<del>27.404</del>	35	<del>27.389</del>
34	34	<del>26.662</del>	35	<del>26.620</del>	36	<del>26.578</del>
35	35	<del>25.901</del>	36	<del>25.832</del>	37	<del>25.764</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-1—Male
Annuity Table +
Permanent Total Benefits

Accidents From October 1, 2013 through September 30, 2018

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year	
11	11	43.413	12	43.920	13	44.446	
12	12	42.697	13	43.180	14	43.683	
13	13	41.979	14	42.440	15	42.921	
14	14	41.260	15	41.699	16	42.158	
15	15	40.541	16	40.959	17	41.396	
16	16	39.822	17	40.219	18	40.634	
17	17	39.104	18	39.479	19	39.874	
18	18	38.386	19	38.741	20	39.115	
19	19	37.669	20	38.005	21	38.358	
20	20	36.954	21	37.269	22	37.600	
21	21	36.240	22	36.534	23	36.842	
22	22	35.526	23	35.797	24	36.081	
23	23	34.811	24	35.058	25	35.316	
24	24	34.093	25	34.316	26	34.547	
25	25	33.372	26	33.569	27	33.773	
26	26	32.647	27	32.818	28	32.996	
27	27	31.919	28	32.064	29	32.215	
28	28	31.186	29	31.306	30	31.431	
29	29	30.450	30	30.544	31	30.642	
30	30	29.710	31	29.779	32	29.850	
31	31	28.967	32	29.009	33	29.054	
32	32	28.221	33	28.236	34	28.254	
33	33	27.470	34	27.460	35	27.450	
34	34	26.716	35	26.679	36	26.642	
35	35	25.958	36	<u>25.894</u>	37	25.830	

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-1—Male
Annuity Table +
Permanent Total Benefits
Accidents On or After October 1, 2013

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
36	36	<del>25.136</del>	37	<del>25.042</del>	38	<del>24.947</del>
37	37	<del>24.369</del>	38	<del>24.249</del>	39	<del>24.127</del>
38	38	<del>23.599</del>	39	<del>23.453</del>	40	<del>23.305</del>
		<del>23.099</del> <del>22.826</del>	40	<del>23.453</del> <del>22.655</del>	41	
39	39					<del>22.481</del>
40	40	<del>22.051</del>	41	<del>21.855</del>	42	<del>21.655</del>
41	41	<del>21.275</del>	42	<del>21.053</del>	43	<del>20.828</del>
42	42	<del>20.496</del>	43	<del>20.250</del>	44	<del>20.000</del>
43	43	<del>19.717</del>	44	<del>19.446</del>	45	<del>19.171</del>
44	44	<del>18.936</del>	45	<del>18.641</del>	46	<del>18.341</del>
45	45	<del>18.155</del>	46	<del>17.835</del>	47	<del>17.509</del>
40	40	47.070	47	47.007	40	40.075
46	46	<del>17.372</del>	47	<del>17.027</del>	48	<del>16.675</del>
47	47	<del>16.587</del>	48	<del>16.218</del>	49	<del>15.841</del>
48	48	<del>15.802</del>	49	<del>15.408</del>	50	<del>15.006</del>
49	49	<del>15.015</del>	50	<del>14.597</del>	51	<del>14.170</del>
50	50	<del>14.228</del>	51	<del>13.786</del>	52	<del>13.333</del>
51	51	<del>13.440</del>	52	<del>12.973</del>	53	<del>12.493</del>
52	52	<del>12.651</del>	53	<del>12.158</del>	54	<del>11.650</del>
53	53	<del>11.859</del>	54	<del>11.339</del>	55	<del>10.803</del>
54	54	<del>11.065</del>	55	<del>10.517</del>	56	<del>9.951</del>
55	55	<del>10.266</del>	56	9.690	57	9.094
33	33	10.200	30	<del>3.030</del>	J 77	0.004
56	56	<del>9.463</del>	57	<del>8.858</del>	58	8 <del>.231</del>
57	57	<del>8.656</del>	58	<del>8.020</del>	59	<del>7.361</del>
58	58	<del>7.842</del>	59	<del>7.175</del>	60	<del>6.483</del>
59	59	<del>7.022</del>	60	<del>6.323</del>	61	<del>5.596</del>
60	60	<del>6.194</del>	61	<del>5.461</del>	62	<del>4.698</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Exhibit 3 Continued**

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

#### Effective January 1, 2019

#### Table D-1—Male Annuity Table + Permanent Total Benefits Accidents From October 1, 2013 through September 30, 2018

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
36	36	25.196	37	25.106	38	25.015
37	37	24.431	38	24.315	39	24.196
38	38	23.663	39	23.520	40	23.375
39	39	22.891	40	22.722	41	22.550
40	40	<u>22.891</u> <u>22.117</u>	41	<u>22.722</u> <u>21.921</u>	42	<u>22.330</u> <u>21.722</u>
41	41	21.339	42	21.118	43	20.891
42	42	20.559	43	20.312	44	20.059
43	43	19.776	44	19.503	45	19.225
44	44	18.991	45	18.693	46	18.389
45	45	18.205	46	17.882	47	17.551
46	46	17.417	47	17.069	48	16.713
47	47	16.628	48	16.255	49	15.874
48	48	15.837	49	15.440	50	15.034
49	49	15.046	50	14.625	51	14.193
50	50	14.255	51	13.809	52	13.351
51	51	13.462	52	12.990	53	12.505
52	52	12.668	53	12.170	54	11.658
53	53	11.871	54	11.347	55	10.807
54	54	11.072	55	10.521	56	9.954
55	55	10.271	56	9.692	57	9.096
56	56	9.466	57	8.859	58	8.232
57	57	8.657	58	8.021	59	7.362
58	58	7.843	59	7.176	60	6.484
59	59	7.023	60	6.323	61	5.597
60	60	6.195	61	5.462	62	4.700

Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-1—Male Annuity Table + Permanent Total Benefits Accidents On or After October 1, 2013

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61	61	<del>5.358</del>	62	4 <del>.589</del>	63	<del>3.788</del>
62	62	4 <del>.511</del>	63	<del>3.706</del>	64	<del>2.866</del>
63	63	<del>3.654</del>	64	<del>2.811</del>	65	<del>1.928</del>
64	64	<del>2.784</del>	65	<del>1.901</del>	66	<del>0.974</del>
65	65	<del>1.901</del>	66	<del>0.974</del>		
66	66	<del>0.974</del>				

<sup>+</sup> Based on 2009 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-1—Male
Annuity Table +
Permanent Total Benefits
Accidents From October 1, 2013 through September 30, 2018

Initia		nitial	1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61	61	<u>5.359</u>	62	4.591	63	<u>3.791</u>
62	62	<u>4.513</u>	63	<u>3.709</u>	64	<u>2.868</u>
63	63	<u>3.656</u>	64	<u>2.813</u>	65	<u>1.930</u>
64	64	<u>2.787</u>	65	<u>1.902</u>	66	<u>0.975</u>
65	65	1.902	66	0.975		
66	66	0.975				

<sup>+</sup> Based on 20<u>14</u> U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents On or After October 1, 2013

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
11	11	<del>44.350</del>	12	44.889	13	<del>45.448</del>
12	12	4 <del>3.638</del>	13	<del>44.153</del>	14	44.688
13	13	<del>42.923</del>	14	<del>43.415</del>	15	<del>43.926</del>
14	14	4 <del>2.207</del>	15	4 <del>2.675</del>	16	4 <del>3.162</del>
15	15	41.488	16	41.933	17	42.396
16	16	40.768	17	<del>41.190</del>	18	41.628
17	17	<del>40.046</del>	18	<del>40.444</del>	19	<del>40.857</del>
18	18	<del>39.322</del>	19	<del>39.696</del>	20	<del>40.083</del>
19	19	<del>38.596</del>	20	<del>38.944</del>	21	<del>39.306</del>
20	20	<del>37.866</del>	21	<del>38.190</del>	22	<del>38.526</del>
21	21	<del>37.134</del>	22	<del>37.432</del>	23	<del>37.743</del>
22	22	<del>36.398</del>	23	<del>36.672</del>	24	<del>36.956</del>
23	23	<del>35.660</del>	24	<del>35.908</del>	25	<del>36.166</del>
24	24	<del>34.919</del>	25	<del>35.142</del>	26	<del>35.373</del>
25	25	<del>34.174</del>	26	<del>34.371</del>	27	<del>34.576</del>
26	26	<del>33.427</del>	27	<del>33.598</del>	28	<del>33.776</del>
27	27	<del>32.675</del>	28	<del>32.821</del>	29	<del>32.972</del>
28	28	<del>31.921</del>	29	<del>32.040</del>	30	<del>32.165</del>
29	29	<del>31.163</del>	30	<del>31.257</del>	31	<del>31.354</del>
30	30	<del>30.402</del>	31	<del>30.469</del>	32	<del>30.540</del>
31	31	<del>29.638</del>	32	<del>29.679</del>	33	<del>29.723</del>
32	32	<del>28.871</del>	33	<del>28.886</del>	34	<del>28.903</del>
33	33	<del>28.101</del>	34	<del>28.089</del>	35	<del>28.079</del>
34	34	<del>27.328</del>	35	<del>27.290</del>	36	<del>27.253</del>
35	35	<del>26.551</del>	36	<del>26.487</del>	37	<del>26.423</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Exhibit 3 Continued**

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female Annuity Table + Permanent Total Benefits \* Accidents From October 1, 2013 through September 30, 2018

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
11	11	44.378	12	<u>44.918</u>	13	45.478
12	12	43.666	13	44.916 44.182	14	45.476 44.717
	13					
13		<u>42.951</u>	14	<u>43.443</u>	15	43.953
14	14	42.234	15	<u>42.701</u>	16	43.187
15	15	<u>41.514</u>	16	<u>41.958</u>	17	<u>42.419</u>
16	16	40.792	17	41.212	18	41.648
17	17	40.068	18	40.464	19	40.875
18	18	39.341	19	39.713	20	40.100
19	19	38.613	20	38.960	21	39.322
20	20	37.882	21	38.205	22	38.541
						<u></u>
21	21	37.149	22	<u>37.447</u>	23	37.757
22	22	36.413	23	36.686	24	36.970
23	23	35.674	24	35.922	25	36.180
24	24	34.932	25	<u>35.155</u>	26	35.387
25	25	34.188	26	34.385	27	34.591
26	26	<u>33.440</u>	27	<u>33.612</u>	28	<u>33.791</u>
27	27	<u>32.689</u>	28	<u>32.835</u>	29	<u>32.987</u>
28	28	31.935	29	32.055	30	32.181
29	29	31.178	30	31.272	31	31.371
30	30	30.418	31	30.486	32	30.558
31	31	<u>29.654</u>	32	<u>29.696</u>	33	<u>29.741</u>
32	32	28.888	33	<u>28.904</u>	34	<u>28.922</u>
33	33	<u>28.118</u>	34	<u>28.108</u>	35	28.099
34	34	27.345	35	27.309	36	27.273
35	35	26.570	36	26.508	37	26.445

Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents On or After October 1, 2013

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
36	36	<del>25.772</del>	37	<del>25.682</del>	38	<del>25.591</del>
37	37	<del>24.990</del>	38	<del>24.874</del>	39	<del>24.756</del>
38	38	<del>24.206</del>	39	<del>24.063</del>	40	<del>23.918</del>
39	39	<del>23.419</del>	40	<del>23.250</del>	41	<del>23.078</del>
40	40	<del>22.629</del>	41	<del>22.435</del>	42	<del>22.236</del>
41	41	<del>21.838</del>	42	<del>21.617</del>	43	<del>21.392</del>
42	42	<del>21.044</del>	43	<del>20.798</del>	44	<del>20.546</del>
43	43	<del>20.248</del>	44	<del>19.976</del>	45	<del>19.699</del>
44	44	<del>19.451</del>	45	<del>19.153</del>	46	<del>18.849</del>
45	45	<del>18.652</del>	46	<del>18.328</del>	47	<del>17.996</del>
46	46	<del>17.851</del>	47	<del>17.501</del>	48	<del>17.142</del>
47	47	<del>17.047</del>	48	<del>16.671</del>	49	<del>16.284</del>
48	48	<del>16.241</del>	49	<del>15.838</del>	50	<del>15.424</del>
49	49	<del>15.433</del>	50	<del>15.003</del>	51	<del>14.561</del>
50	50	<del>14.622</del>	51	<del>14.165</del>	52	<del>13.695</del>
51	51	<del>13.809</del>	52	<del>13.325</del>	53	<del>12.825</del>
52	52	<del>12.993</del>	53	<del>12.480</del>	54	<del>11.951</del>
53	53	<del>12.173</del>	54	<del>11.632</del>	55	<del>11.072</del>
54	54	<del>11.349</del>	55	<del>10.778</del>	56	<del>10.188</del>
55	55	<del>10.520</del>	56	<del>9.919</del>	57	<del>9.298</del>
56	56	<del>9.687</del>	57	<del>9.056</del>	58	<del>8.402</del>
57	57	<del>8.848</del>	58	<del>8.186</del>	59	<del>7.502</del>
58	58	<del>8.004</del>	59	<del>7.312</del>	60	<del>6.595</del>
59	59	<del>7.155</del>	60	<del>6.431</del>	61	<del>5.681</del>
60	60	<del>6.300</del>	61	<del>5.544</del>	62	<del>4.760</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

#### **Exhibit 3 Continued**

#### **Minnesota Statistical Plan Manual**

#### Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female Annuity Table + Permanent Total Benefits \* Accidents From October 1, 2013 through September 30, 2018

	Initial		1st Anniversary Initial of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
36	36	25.792	37	25.703	38	<u>25.614</u>
37	37	25.011	38	24.896	39	24.780
38	38	24.227	39	24.087	40	23.943
39	39	23.441	40	23.274	41	23.103
40	40	22.653	41	22.459	42	22.261
41	41	21.861	42	21.641	43	<u>21.416</u>
42	42	21.067	43	20.821	44	20.568
43	43	20.270	44	19.997	45	19.717
44	44	19.471	45	19.172	46	18.864
45	45	18.669	46	18.343	47	18.008
46	46	<u>17.865</u>	47	<u>17.512</u>	48	<u>17.150</u>
47	47	<u>17.058</u>	48	16.679	49	<u>16.290</u>
48	48	16.250	49	15.844	50	15.428
49	49	<u>15.439</u>	50	15.008	51	14.564
50	50	14.627	51	<u>14.168</u>	52	13.697
51	51	42.040	52	13.326	53	10.006
51 52	51 52	<u>13.812</u>	52 53		53	<u>12.826</u>
		<u>12.994</u>		<u>12.481</u>		<u>11.951</u>
53 54	53	<u>12.173</u>	54	<u>11.632</u>	55	<u>11.073</u>
54 55	54 55	<u>11.349</u>	55 50	<u>10.779</u>	56	<u>10.190</u>
55	55	<u>10.521</u>	56	<u>9.921</u>	57	9.302
56	56	9.688	57	<u>9.059</u>	58	<u>8.408</u>
57	57	<u>8.851</u>	58	<u>8.192</u>	59	<u>7.509</u>
58	58	<u>8.009</u>	59	<u>7.318</u>	60	<u>6.602</u>
59	59	<u>7.161</u>	60	<u>6.438</u>	61	<u>5.688</u>
60	60	<u>6.307</u>	61	<u>5.551</u>	62	<u>4.766</u>

Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

### **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents On or After October 1, 2013

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61	61	<del>5.439</del>	62	4 <del>.650</del>	63	<del>3.830</del>
62	62	<del>4.570</del>	63	<del>3.747</del>	64	<del>2.891</del>
63	63	<del>3.694</del>	64	<del>2.835</del>	65	<del>1.940</del>
64	64	<del>2.808</del>	65	<del>1.912</del>	66	<del>0.977</del>
65	65	<del>1.912</del>	66	<del>0.977</del>		
66	66	<del>0.977</del>				

- + Based on 2009 U.S. Life Tables for female population
  - 3.5% annual interest rate
  - 3.0% annual escalation beginning on third anniversary of accident

Benefits terminate at age 67 (note: statute allows benefits to continue beyond age 67 if presumption of retirement is successfully rebutted)

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

Effective January 1, 2019

Table D-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents From October 1, 2013 through September 30, 2018

Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year	
61	5.445	62	4.655	63	3.834	
62	4.576	63	3.751	64	2.894	
63		64		65	1.942	
64	2.811	65		66	0.978	
65	1.914	66				
66	0.978					
	Current Age 61 62 63 64 65	Escalation Current Deferred Age 3 Years  61 5.445 62 4.576 63 3.698 64 2.811 65 1.914	Current Age         Deferred 3 Years         Current Age           61         5.445 62         62           62         4.576 63         63           63         3.698 64         64           64         2.811 65         65           65         1.914 66         66	Current Age         Deferred Deferred Syears         Current Deferred Deferred Deferred Syears           61         5.445 62 4.655 62 62 63 3.751 63 63 63 64 64 64 65 64 65 65 65 65 65 65 65 65 65 65 65 65 65	Current Age         Deferred 3 Years         Current Age         Escalation Current Deferred Age         Current Age         Current Age         Current Age         Current Age         Current Age         Current Age         Age         Current Age         Age <th< td=""></th<>	

- + Based on 2014 U.S. Life Tables for female population
  - 3.5% annual interest rate
  - 3.0% annual escalation beginning on third anniversary of accident

Benefits terminate at age 67 (note: statute allows benefits to continue beyond age 67 if presumption of retirement is successfully rebutted)

### **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation	<u> </u>	Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	3 Years	Age	2 Years	Age	1 Year	
0	0	<del>60.276</del>	1	<del>61.765</del>	2	<del>62.935</del>	
1	1	<del>60.022</del>	2	<del>61.131</del>	2 3	<del>62.270</del>	
2		<del>59.407</del>	3	<del>60.485</del>	4	<del>61.598</del>	
3	2 3	<del>58.780</del>	4	<del>59.832</del>	5	<del>60.919</del>	
4	4	<del>58.146</del>	5	<del>59.173</del>	6	<del>60.236</del>	
5	5	<del>57.506</del>	6	<del>58.510</del>	7	<del>59.549</del>	
6	6	<del>56.862</del>	7	<del>57.843</del>	8	<del>58.858</del>	
7	7	<del>56.215</del>	8	<del>57.172</del>	9	<del>58.162</del>	
8		<del>55.563</del>	9	<del>56.497</del>	10	<del>57.462</del>	
9	8 9	<del>54.907</del>	10	<del>55.817</del>	11	<del>56.758</del>	
10	10	<del>54.248</del>	11	<del>55.134</del>	12	<del>56.051</del>	
11	11	<del>53.584</del>	12	<del>54.447</del>	13	<del>55.343</del>	
12	12	<del>52.918</del>	13	<del>53.760</del>	14	<del>54.634</del>	
13	13	<del>52.250</del>	14	<del>53.072</del>	15	<del>53.927</del>	
14	14	<del>51.582</del>	15	<del>52.385</del>	16	<del>53.221</del>	
15	15	<del>50.916</del>	16	<del>51.699</del>	17	<del>52.516</del>	
16	16	<del>50.250</del>	17	<del>51.015</del>	18	<del>51.811</del>	
17	17	<del>49.585</del>	18	<del>50.331</del>	19	<del>51.107</del>	
18	18	4 <del>8.921</del>	19	49.64 <del>7</del>	20	<del>50.402</del>	
19	19	4 <del>8.257</del>	20	<del>48.963</del>	21	<del>49.698</del>	
20	20	4 <del>7.593</del>	21	4 <del>8.279</del>	22	48.993	
21	21	<del>46.929</del>	22	4 <del>7.595</del>	23	<del>48.287</del>	
22	22	4 <del>6.265</del>	23	<del>46.910</del>	24	4 <del>7.579</del>	
23	23	4 <del>5.599</del>	24	<del>46.222</del>	25	<del>46.866</del>	
24	24	44. <del>932</del>	25	4 <del>5.530</del>	26	4 <del>6.149</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
0	0	<u>60.550</u>	1	<u>62.016</u>	2	<u>63.193</u>
1	1	60.266	2	61.381	2 3	62.528
2	2	59.650	3	60.735		61.855
3	2 3	59.022	4	60.082	4 5 6	61.177
4	4	58.388	5	59.424	6	60.495
5	5	57.750	6	58.762	7	59.809
6	6	<del>57.107</del>	7	58.095	8	59.118
7	7	<del>56.460</del>	8	<del>57.425</del>	9	58.423
8		55.809	9	56.750	10	57.725
9	8 9	<u>55.154</u>	10	56.072	11	57.022
10	10	<u>54.495</u>	11	<u>55.390</u>	12	<u>56.317</u>
11	11	53.833	12	54.705	13	55.609
12	12	<u>53.168</u>	13	<u>54.018</u>	14	54.901
13	13	52.501	14	53.330	15	54.192
14	14	51.833	15	52.642	16	53.483
15	15	51.165	16	<u>51.954</u>	17	<u>52.775</u>
16	16	50.497	17	51.266	18	52.066
17	17	49.829	18	50.579	19	<u>51.359</u>
18	18	49.162	19	49.892	20	50.653
19	19	48.495	20	49.206	21	49.947
20	20	47.829	21	48.521	22	<u>49.241</u>
21	21	47.164	22	<del>47.835</del>	23	48.534
22	22	46.498	23	47.149	24	47.826
23	23	45.832	24	46.461	25	47.114
24	24	45.164	25	45.770	26	46.399

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

### **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year	
25	25	<del>44.260</del>	26	44.834	27	<del>45.429</del>	
26	26	<del>43.584</del>	27	44.134	28	<del>44.704</del>	
27	27	<del>42.905</del>	28	<del>43.431</del>	29	<del>43.976</del>	
28	28	<del>42.222</del>	29	<del>42.724</del>	30	<del>43.245</del>	
29	29	41.536	30	42.014	31	<del>42.511</del>	
30	30	<del>40.846</del>	31	41.301	32	41.774	
31	31	<del>40.155</del>	32	<del>40.586</del>	33	<del>41.035</del>	
32	32	<del>39.460</del>	33	<del>39.868</del>	34	<del>40.293</del>	
33	33	<del>38.763</del>	34	<del>39.148</del>	35	<del>39.548</del>	
34	34	<del>38.064</del>	35	<del>38.425</del>	36	<del>38.802</del>	
35	35	<del>37.362</del>	36	<del>37.700</del>	37	<del>38.054</del>	
36	36	<del>36.659</del>	37	<del>36.974</del>	38	<del>37.305</del>	
37	37	<del>35.954</del>	38	<del>36.247</del>	39	<del>36.55</del> 4	
38	38	<del>35.247</del>	39	<del>35.518</del>	40	<del>35.804</del>	
39	39	<del>34.540</del>	40	<del>34.790</del>	41	<del>35.053</del>	
40	40	<del>33.832</del>	41	<del>34.061</del>	42	<del>34.303</del>	
41	41	<del>33.125</del>	42	<del>33.332</del>	43	<del>33.55</del> 4	
42	42	<del>32.418</del>	43	<del>32.605</del>	44	<del>32.806</del>	
43	43	<del>31.711</del>	44	<del>31.879</del>	45	<del>32.061</del>	
44	44	<del>31.007</del>	45	<del>31.156</del>	46	<del>31.318</del>	
45	45	<del>30.305</del>	46	<del>30.435</del>	47	<del>30.577</del>	
46	46	<del>29.604</del>	47	<del>29.715</del>	48	<del>29.837</del>	
47	47	<del>28.905</del>	48	<del>28.997</del>	49	<del>29.101</del>	
48	48	<del>28.209</del>	49	<del>28.282</del>	50	<del>28.369</del>	
49	49	<del>27.515</del>	50	<del>27.571</del>	51	<del>27.641</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	3 Years	Age	2 Years	Age	1 Year	
25	25	<u>44.493</u>	26	<u>45.076</u>	27	<u>45.681</u>	
26	26	43.820	27	44.379	28	44.961	
27	27	43.143	28	43.680	29	44.237	
28	28	42.464	29	42.977	30	43.511	
29	29	41.782	30	42.272	31	42.781	
30	30	41.097	31	41.564	32	42.049	
31	31	40.410	32	40.853	33	41.315	
32	32	39.720	33	40.140	34	40.577	
33	33	39.027	34	39.424	35	39.837	
34	34	38.332	35	38.706	36	39.095	
35	35	<u>37.635</u>	36	<u>37.985</u>	37	<u>38.351</u>	
36	36	36.935	37	37.263	38	37.606	
37	37	36.234	38	36.539	39	36.858	
38	38	<u>35.531</u>	39	<u>35.813</u>	40	36.109	
39	39	34.826	40	35.086	41	35.359	
40	40	34.121	41	34.358	42	34.609	
41	41	33.414	42	33.629	43	33.858	
42	42	32.706	43	32.900	44	33.107	
43	43	31.998	44	32.171	45	32.357	
44	44	31.290	45	31.443	46	31.608	
45	45	30.583	46	30.716	47	30.860	
46	46	29.877	47	29.990	48	30.116	
47	47	29.173	48	29.267	49	29.376	
48	48	28.471	49	28.549	50	28.640	
49	49	27.773	50	27.834	51	<u>27.908</u>	

<sup>+</sup> Based on 20<u>14</u> U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	3 Years	Age	2 Years	Age	1 Year	
50	50	<del>26.824</del>	51	<del>26.865</del>	52	<del>26.917</del>	
51	51	<del>26.138</del>	52	<del>26.162</del>	53	<del>26.197</del>	
52	52	<del>25.456</del>	53	<del>25.462</del>	54	<del>25.479</del>	
53	53	24.777	54	<del>24.765</del>	55	<del>24.763</del>	
54	54	<del>24.100</del>	55	<del>24.071</del>	56	<del>24.050</del>	
55	55	<del>23.425</del>	56	<del>23.378</del>	57	<del>23.339</del>	
56	56	<del>22.753</del>	57	<del>22.688</del>	58	<del>22.632</del>	
57	57	<del>22.083</del>	58	<del>22.001</del>	59	<del>21.928</del>	
58	58	<del>21.416</del>	59	<del>21.318</del>	60	<del>21.228</del>	
59	59	<del>20.752</del>	60	<del>20.638</del>	61	<del>20.532</del>	
60	60	<del>20.093</del>	61	<del>19.962</del>	62	<del>19.841</del>	
61	61	<del>20.033</del> <del>19.437</del>	62	<del>19.302</del> <del>19.291</del>	63	<del>19.041</del> <del>19.154</del>	
62	62	<del>18.785</del>	63	<del>19.291</del> <del>18.624</del>	64	<del>19.104</del> <del>18.472</del>	
63					1		
64	63	<del>18.138</del>	64 65	<del>17.963</del>	65 66	<del>17.797</del>	
04	64	<del>17.495</del>	00	<del>17.307</del>	00	<del>17.129</del>	
65	65	<del>16.858</del>	66	<del>16.658</del>	67	<del>16.469</del>	
66	66	<del>16.228</del>	67	<del>16.018</del>	68	<del>15.818</del>	
67	67	<del>15.607</del>	68	<del>15.386</del>	69	<del>15.175</del>	
68	68	<del>14.993</del>	69	<del>14.762</del>	70	<del>14.539</del>	
69	69	<del>14.387</del>	70	<del>14.143</del>	71	<del>13.909</del>	
70	70	<del>13.787</del>	71	<del>13.532</del>	72	<del>13.288</del>	
71	70 71	<del>13.193</del>	72	<del>12.930</del>	73	<del>12.677</del>	
72	72	<del>12.608</del>	73	<del>12.336</del>	74	<del>12.077</del> <del>12.077</del>	
73	72 73	<del>12.032</del>	73 74	<del>12.330</del> <del>11.754</del>	75	<del>12.077</del> <del>11.490</del>	
73 74	73 74	<del>12.032</del> <del>11.466</del>	74 75	<del>11.754</del> <del>11.183</del>	75 76	<del>11.490</del> <del>10.913</del>	
14	14	<del>11.400</del>	10	<del>11.103</del>	/O	<del>10.813</del>	

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			nniversary Accident	2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
50	50	27.079	51	27.123	52	27.179
51	51	26.389	52	26.416	53	26.454
52	52	25.703	53	25.712	54	25.734
53	53	25.019	54	25.013	55	25.018
54	54	<u>24.340</u>	55	<u>24.318</u>	56	24.307
55	55	23.665	56	23.627	57	23.600
56	56	22.995	57	22.941	58	22.897
57	57	22.329	58	22.259	59	22.198
58	58	21.667	59	21.580	60	21.503
59	59	21.008	60	20.905	61	20.810
60	60	20.352	61	20.232	62	20.121
61	61	19.699	62	19.564	63	19.436
62	62	19.050	63	18.899	64	18.755
63	63	18.404	64	18.237	65	18.076
64	64	17.761	65	17.578	66	17.400
65	65	17.121	66	16.922	67	16.727
66	66	16.484	67	16.269	68	16.059
67	67	15.850	68	15.620	69	15.397
68	68	15.220	69	14.977	70	14.743
69	69	14.596	70	14.342	71	14.099
70	70	13.979	71	13.717	72	13.467
71	71	13.373	72	13.103	73	12.846
72	72	12.776	73	12.500	74	12.235
73	73	12.191	74	11.907	75	11.634
74	74	11.614	75	11.323	76	11.042

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

### **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

Effective January 1, 2019

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
75	75	<del>10.912</del>	76	<del>10.623</del>	77	<del>10.347</del>
76	76	<del>10.368</del>	77	<del>10.074</del>	78	<del>9.794</del>
77	77	9.834	78	<del>9.537</del>	79	<del>9.256</del>
78	78	<del>9.313</del>	79	<del>9.015</del>	80	8.734
79	79	8.80 <del>6</del>	80	<del>8.507</del>	81	8.225
80	80	<del>8.313</del>	81	<del>8.014</del>	82	<del>7.731</del>
81	81	<del>7.834</del>	82	<del>7.534</del>	83	<del>7.254</del>
82	82	<del>7.367</del>	83	<del>7.070</del>	84	<del>6.795</del>
83	83	<del>6.917</del>	84	<del>6.624</del>	85	<del>6.354</del>
84	84	6.483	85	6.196	86	<del>5.939</del>
85	85	<del>6.067</del>	86	<del>5.793</del>	87	<del>5.546</del>
86	86	<del>5.675</del>	87	<del>5.412</del>	88	<del>5.175</del>
87	87	<del>5.304</del>	88	<del>5.051</del>	89	<del>4.826</del>
88	88	4.954	89	4 <del>.712</del>	90	4.499
89	89	<del>4.624</del>	90	4.394	91	4 <del>.192</del>
90	90	4.315	91	4.096	92	<del>3.906</del>
91	91	4.025	92	<del>3.818</del>	93	<del>3.640</del>
92	92	<del>3.754</del>	93	<del>3.560</del>	94	3.392
93	93	<del>3.502</del>	94	<del>3.319</del>	95	<del>3.163</del>
94	94	<del>3.268</del>	95	<del>3.097</del>	96	<del>2.951</del>
95	95	<del>3.051</del>	96	<del>2.890</del>	97	<del>2.755</del>
96	96	<del>2.850</del>	97	<del>2.700</del>	98	<del>2.573</del>
97	97	<del>2.664</del>	98	<del>2.523</del>	99	<del>2.404</del>
98	98	<del>2.491</del>	99	<del>2.358</del>	100	2.244
99	99	<del>2.330</del>	100	<del>2.203</del>	101	<del>2.095</del>

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

### **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

### Effective January 1, 2019

	Initial			1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
		Escalation	-	Escalation		Escalation	
Age at	Current	Deferred	Current	Deferred	Current	Deferred	
Accident	Age	3 Years	Age	2 Years	Age	1 Year	
75	75	<u>11.048</u>	76	<u>10.749</u>	77	<u>10.462</u>	
76	76	10.490	77	10.186	78	9.896	
77	77	9.943	78	9.636	79	9.344	
78	78	9.409	79	9.100	80	<u>8.811</u>	
79	79	8.889	80	8.582	81	8.294	
80	80	8.386	81	8.081	82	7.794	
81	81	7.898	82	7.595	83	7.310	
82	82	7.427	83	7.125	84	6.845	
83	83	6.970	84	6.673	85	6.400	
84	84	<u>6.531</u>	85	<u>6.241</u>	86	<u>5.973</u>	
85	85	6.111	86	5.827	87	<u>5.570</u>	
86	86	<u>5.708</u>	87	5.435	88	<u>5.189</u>	
87	87	5.327	88	5.065	89	4.831	
88	88	4.967	89	4.717	90	4.495	
89	89	4.629	90	4.391	91	4.181	
90	90	4.311	91	4.086	92	3.889	
91	91	4.015	92	3.802	93	3.617	
92	92	3.738	93	3.538	94	3.365	
93	93	3.481	94	3.293	95	3.132	
94	94	3.242	95	3.066	96	2.917	
95	95	3.021	96	2.857	97	2.718	
96	96	2.817	97	2.664	98	2.534	
97	97	2.629	98	2.485	99	2.363	
98	98	2.454	99	2.318	100	2.202	
99	99	2.291	100	2.162	101	2.052	

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
	' <u>'</u>	Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
100	100	<del>2.178</del>	101	<del>2.057</del>	102	<del>1.956</del>
101	101	<del>2.036</del>	102	<del>1.922</del>	103	<del>1.825</del>
102	102	<del>1.904</del>	103	<del>1.795</del>	104	<del>1.699</del>
103	103	<del>1.779</del>	104	<del>1.672</del>	105	<del>1.579</del>
104	104	<del>1.658</del>	105	<del>1.556</del>	106	<del>1.461</del>
105	105	<del>1.545</del>	106	<del>1.440</del>	107	<del>1.319</del>
106	106	<del>1.431</del>	107	<del>1.302</del>	108	<del>1.149</del>
107	107	<del>1.296</del>	108	<del>1.137</del>	109	<del>0.930</del>
108	108	<del>1.134</del>	109	<del>0.924</del>	110	<del>0.472</del>
109	109	<del>0.924</del>	110	<del>0.472</del>		
110	110	<del>0.472</del>				

<sup>+</sup> Based on 2009 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

	Initial		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
	\ <u>-</u>	Escalation		Escalation		Escalation
Age at	Current	Deferred	Current	Deferred	Current	Deferred
Accident	Age	3 Years	Age	2 Years	Age	1 Year
100	100	<u>2.138</u>	101	<u>2.016</u>	102	1.912
101	101	1.996	102	1.879	103	1.780
102	102	<u>1.862</u>	103	<u>1.751</u>	104	<u>1.658</u>
103	103	1.737	104	1.632	105	1.543
104	104	1.619	105	1.520	106	1.430
105	105	<u>1.510</u>	106	<u>1.410</u>	107	<u>1.312</u>
106	106	<u>1.402</u>	107	<u>1.296</u>	108	<u>1.159</u>
107	107	1.290	108	1.147	109	0.903
108	108	1.144	109	0.897	110	0.482
109	109	0.897	110	0.482		
110	110	0.482				

<sup>+</sup> Based on 2014 U.S. Life Tables for total population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> This table is to be used for Lifetime Fatal Dependency Benefits only in cases where there is no surviving spouse or children, but there is a dependent parent or sibling eligible for lifetime benefits.

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

Table E-1—Male
Annuity Table +
Permanent Total Benefits\*
Accidents On or After October 1, 2018

	<u>Initial</u>		<u>1st Anniversary</u> <u>of Accident</u>		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	<u>Current</u> <u>Age</u>	Escalation <u>Deferred</u> <u>1 Year</u>
11	11	46.035	12	46.633	13	47.255
12	12	45.331	13	45.907	14	46.506
13	13	44.626	14	45.180	15	45.758
14	14	43.920	15	44.454	16	45.010
15	15	43.215	16	43.728	17	44.263
16	16	42.510	17	43.003	18	43.517
17	17	41.806	18	42.278	19	42.773
18	18	41.103	19	41.556	20	42.031
19	19	40.402	20	40.836	21	41.291
20	20	39.702	21	40.117	22	40.551
21	21	39.004	22	39.398	23	39.810
22	22	38.307	23	38.680	24	39.068
23	23	37.609	24	37.958	25	38.321
24	24	36.909	25	37.234	26	37.571
25	25	36.205	26	36.505	27	36.817
26	26	35.498	27	35.773	28	36.058
27	27	34.787	28	35.037	29	35.297
28	28	34.073	29	34.297	30	34.532
29	29	33.355	30	33.554	31	33.763
30	30	32.633	31	32.808	32	32.991
31	31	31.909	32	32.059	33	32.215
32	32	31.181	33	31.305	34	31.435
33	33	30.450	34	30.548	35	30.652
34	34	29.715	35	29.788	36	29.865
35	35	28.976	36	29.023	37	29.074

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

Table E-1—Male
Annuity Table +
Permanent Total Benefits\*
Accidents On or After October 1, 2018

	<u>Initial</u>		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation <u>Deferred</u> <u>2 Years</u>	Current Age	Escalation Deferred 1 Year
36	36	28.234	37	28.256	38	28.281
37	37	27.489	38	27.486	39	27.485
38	38	26.742	39	26.713	40	26.686
39	39	25.991	40	25.937	41	25.884
40	40	25.238	41	25.159	42	25.080
41	41	24.482	42	24.378	43	24.274
42	42	23.724	43	23.596	44	23.467
43	43	22.965	44	22.812	45	22.659
44	44	22.204	45	22.028	46	21.851
45	45	21.442	46	21.243	47	21.042
46	46	20.680	47	20.457	48	20.233
47	47	19.918	48	19.673	49	19.426
48	48	19.156	49	18.889	50	18.620
49	49	18.395	50	18.106	51	17.815
50	50	17.635	51	17.325	52	17.010
51	51	16.876	52	16.543	53	16.204
52	52	16.117	53	15.761	54	15.399
53	53	15.358	54	14.979	55	14.594
54	54	14.599	55	14.198	56	13.789
55	55	13.840	56	13.416	57	12.982
56	56	13.081	57	12.633	58	12.174
57	57	12.320	58	11.848	59	11.362
58	58	11.558	59	11.060	60	10.546
59	59	10.793	60	10.268	61	9.726
60	60	10.024	61	9.471	62	8.900

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

Table E-1—Male
Annuity Table +
Permanent Total Benefits\*
Accidents On or After October 1, 2018

	<u>Initial</u>		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation <u>Deferred</u> <u>3 Years</u>	Current Age	Escalation <u>Deferred</u> 2 Years	Current Age	Escalation <u>Deferred</u> <u>1 Year</u>
61 62 63 64 65	61 62 63 64 65	9.251 8.473 7.688 6.895 6.092	62 63 64 65 66	8.670 7.861 7.045 6.218 5.380	63 64 65 66 67	8.068 7.227 6.375 5.512 4.636
66 67 68 69 70 71	66 67 68 69 70 71	5.279 4.453 3.614 2.760 1.888 0.971	67 68 69 70 71	4.530 3.665 2.786 1.888 0.971	68 69 70 71	3.746 2.840 1.916 0.971

<sup>+</sup> Based on 2014 U.S. Life Tables for male population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

## Effective January 1, 2019

<u>Table E-2—Female</u>
<u>Annuity Table +</u>
<u>Permanent Total Benefits \*</u>
<u>Accidents On or After October 1, 2018</u>

	<u>Initial</u>		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
11	11	47.317	12	47.960	13	48.626
12	12	46.619	13	47.238	14	47.880
13	13	45.919	14	46.514	15	47.133
14	14	45.216	15	45.788	16	46.383
15	15	44.511	16	45.060	17	45.631
16	16	43.804	17	44.330	18	44.877
17	17	43.095	18	43.598	19	44.120
18	18	42.385	19	42.864	20	43.362
19	19	41.672	20	42.127	21	42.601
20	20	40.957	21	41.389	22	41.837
21	21	40.239	22	40.647	23	41.071
22	22	39.520	23	39.903	24	40.302
23	23	38.797	24	39.157	25	39.530
24	24	38.072	25	38.407	26	38.754
25	25	37.345	26	37.654	27	37.976
26	26	36.614	27	36.899	28	37.195
27	27	35.880	28	36.140	29	36.410
28	28	35.144	29	35.378	30	35.622
29	29	34.404	30	34.613	31	34.831
30	30	33.661	31	33.846	32	34.038
31	31	32.916	32	33.075	33	33.241
32	32	32.168	33	32.301	34	32.441
33	33	31.417	34	31.525	35	31.638
34	34	30.663	35	30.745	36	30.833
35	35	29.906	36	29.964	37	30.025

<sup>+</sup> Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin

## **Minnesota Statistical Plan Manual**

## Part 8 — Annuity Tables

## Effective January 1, 2019

<u>Table E-2—Female</u>
<u>Annuity Table +</u>
<u>Permanent Total Benefits \*</u>
Accidents On or After October 1, 2018

	<u>Initial</u>		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
36	36	29.147	37	29.180	38	29.216
37	37	28.386	38	28.393	39	28.403
38	38	27.623	39	27.605	40	27.589
39	39	26.857	40	26.814	41	26.772
40	40	26.089	41	26.021	42	25.952
41	41	25.319	42	25.225	43	25.131
42	42	24.547	43	24.428	44	24.308
43	43	23.772	44	23.628	45	23.482
44	44	22.996	45	22.827	46	22.655
45	45	22.218	46	22.024	47	21.826
46	46	21.438	47	21.219	48	20.995
47	47	20.657	48	20.412	49	20.164
48	48	19.874	49	19.606	50	19.333
49	49	19.091	50	18.798	51	18.500
50	50	18.307	51	17.990	52	17.665
51	51	17.522	52	17.179	53	16.829
52	52	16.735	53	16.367	54	15.990
53	53	15.947	54	15.553	55	15.149
54	54	15.156	55	14.737	56	14.306
55	55	14.364	56	13.918	57	13.459
56	56	13.568	57	13.096	58	12.609
57	57	12.770	58	12.271	59	11.755
58	58	11.969	59	11.441	60	10.896
59	59	11.164	60	10.607	61	10.032
60	60	10.354	61	9.768	62	9.162

<sup>+</sup> Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin

## **Minnesota Statistical Plan Manual**

# Part 8 — Annuity Tables

Effective January 1, 2019

Table E-2—Female
Annuity Table +
Permanent Total Benefits \*
Accidents On or After October 1, 2018

	<u>Initial</u>		1st Anniversary of Accident		2nd and Subsequent Accident Anniversaries	
Age at Accident	Current Age	Escalation Deferred 3 Years	Current Age	Escalation Deferred 2 Years	Current Age	Escalation Deferred 1 Year
61 62 63 64 65	61 62 63 64 65	9.540 8.720 7.895 7.064 6.226	62 63 64 65 66	8.924 8.074 7.218 6.355 5.485	63 64 65 66 67	8.287 7.405 6.517 5.620 4.714
66 67 68 69 70 71	66 67 68 69 70 71	5.381 4.527 3.664 2.790 1.903 0.975	67 68 69 70 71	4.606 3.716 2.816 1.903 0.975	68 69 70 71	3.799 2.871 1.931 0.975

<sup>+</sup> Based on 2014 U.S. Life Tables for female population

<sup>3.5%</sup> annual interest rate

<sup>3.0%</sup> annual escalation beginning on third anniversary of accident

<sup>\*</sup> Benefits terminate at the later of age 72 or five years from when Permanent Total benefit payments begin