

Denver Employees Retirement Plan
Purchase of Service Cost Factor

Tier 2 - 1.5% Benefit Multiplier (Hired on or after January 1, 2010 and before July 1, 2011)

Age at Purchase	Service at Time of Purchase																								
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
25	6.90%	7.03%	6.83%																						
26	7.18%	6.96%	6.76%	6.59%																					
27	7.47%	7.24%	7.04%	6.86%	6.69%																				
28	7.77%	7.54%	7.32%	7.14%	6.96%	6.81%																			
29	8.09%	7.84%	7.62%	7.42%	7.24%	7.09%	6.96%																		
30	8.41%	8.16%	7.93%	7.72%	7.54%	7.38%	7.24%	7.13%																	
31	8.76%	8.49%	8.25%	8.04%	7.84%	7.68%	7.54%	7.42%	7.32%																
32	9.11%	8.83%	8.58%	8.36%	8.16%	7.99%	7.84%	7.72%	7.61%	7.51%															
33	9.48%	9.19%	8.93%	8.70%	8.49%	8.31%	8.16%	8.03%	7.92%	7.82%	7.74%														
34	9.86%	9.56%	9.29%	9.05%	8.84%	8.65%	8.49%	8.36%	8.24%	8.14%	8.05%	7.97%													
35	10.26%	9.95%	9.66%	9.41%	9.19%	9.00%	8.84%	8.69%	8.58%	8.46%	8.37%	8.29%	8.24%												
36	10.67%	10.35%	10.06%	9.80%	9.56%	9.36%	9.19%	9.04%	8.92%	8.81%	8.71%	8.63%	8.56%	8.52%											
37	11.11%	10.77%	10.46%	10.19%	9.95%	9.74%	9.56%	9.41%	9.29%	9.16%	9.06%	8.98%	8.91%	8.86%	8.83%										
38	11.55%	11.21%	10.89%	10.61%	10.36%	10.14%	9.95%	9.79%	9.66%	9.54%	9.43%	9.34%	9.27%	9.22%	9.19%	9.16%									
39	12.00%	11.65%	11.33%	11.04%	10.78%	10.54%	10.36%	10.19%	10.05%	9.92%	9.81%	9.72%	9.65%	9.59%	9.56%	9.53%	9.51%								
40	12.45%	12.10%	11.78%	11.49%	11.21%	10.97%	10.77%	10.61%	10.46%	10.33%	10.21%	10.11%	10.04%	9.99%	9.94%	9.91%	9.89%	9.87%							
41	12.32%	12.56%	12.24%	11.94%	11.66%	11.42%	11.21%	11.04%	10.89%	10.74%	10.63%	10.52%	10.45%	10.39%	10.35%	10.31%	10.29%	10.27%	10.26%						
42	12.78%	12.43%	12.71%	12.41%	12.13%	11.89%	11.66%	11.49%	11.33%	11.19%	11.06%	10.95%	10.87%	10.81%	10.77%	10.74%	10.71%	10.69%	10.69%	10.69%	10.69%				
43	12.63%	12.89%	12.56%	12.88%	12.61%	12.36%	12.14%	11.95%	11.79%	11.64%	11.51%	11.40%	11.31%	11.25%	11.21%	11.17%	11.14%	11.13%	11.11%	11.11%	11.11%				
44	13.09%	12.74%	13.04%	12.74%	13.09%	12.84%	12.63%	12.44%	12.26%	12.11%	11.98%	11.86%	11.78%	11.71%	11.66%	11.63%	11.60%	11.58%	11.57%	11.57%	11.57%				
45	12.93%	13.21%	12.89%	13.21%	12.94%	13.33%	13.12%	12.94%	12.76%	12.61%	12.46%	12.34%	12.26%	12.19%	12.14%	12.10%	12.07%	12.05%	12.04%	12.04%	12.04%				
46	13.38%	13.04%	13.36%	13.06%	13.43%	13.19%	13.62%	13.44%	13.28%	13.12%	12.97%	12.85%	12.76%	12.69%	12.64%	12.59%	12.56%	12.54%	12.54%	12.54%	12.54%				
47	13.20%	13.50%	13.19%	13.54%	13.27%	13.68%	13.48%	13.96%	13.80%	13.64%	13.51%	13.38%	13.28%	13.21%	13.15%	13.11%	13.08%	13.06%	13.05%	13.05%	13.05%				
48	13.64%	13.32%	13.66%	13.38%	13.76%	13.52%	13.99%	13.81%	14.34%	14.19%	14.05%	13.92%	13.82%	13.75%	13.69%	13.65%	13.61%	13.59%	13.59%	13.59%	13.59%				
49	13.45%	13.76%	13.48%	13.84%	13.59%	14.02%	13.82%	14.33%	14.18%	14.73%	14.60%	14.49%	14.39%	14.31%	14.26%	14.21%	14.18%	14.15%	14.14%	14.14%	14.14%				
50	13.87%	13.57%	13.93%	13.66%	14.07%	13.85%	14.34%	14.16%	14.71%	14.57%	15.17%	15.06%	14.98%	14.91%	14.84%	14.80%	14.76%	14.74%	14.73%	14.73%	14.73%				
51	13.66%	14.00%	13.74%	14.12%	13.89%	14.34%	14.16%	14.69%	14.55%	15.13%	15.01%	15.65%	15.57%	15.51%	15.46%	15.41%	15.37%	15.35%	15.34%	15.34%	15.34%				
52	14.06%	13.79%	14.16%	13.93%	14.36%	14.16%	14.66%	14.51%	15.09%	14.96%	15.58%	15.48%	16.18%	16.13%	16.09%	16.05%	16.01%	15.99%	15.97%	15.97%	15.97%				
53	13.84%	14.20%	13.95%	14.36%	14.16%	14.64%	14.47%	15.03%	14.91%	15.52%	15.41%	16.08%	16.01%	16.76%	16.74%	16.71%	16.68%	16.66%	16.64%	16.64%	16.64%				
54	14.23%	13.97%	14.37%	14.16%	14.61%	14.44%	14.97%	14.84%	15.44%	15.34%	15.99%	15.90%	16.63%	16.59%	17.39%	17.38%	17.36%	17.35%	17.34%	17.34%	17.34%				
55	13.99%	14.36%	14.14%	14.58%	14.39%	14.89%	14.76%	15.35%	15.25%	15.89%	15.80%	16.50%	16.44%	17.23%	17.21%	17.21%	18.06%	18.06%	18.06%	18.06%	18.06%				

Assumptions:

7.25% discount rate

2018 salary increase assumptions based on service

Form of benefit is a life annuity

1.5% benefit multiplier

Factor applied to current annual Highest Average Salary (HAS)

Mortality

50/50 blend of the RP-2014 Combined Mortality Table for males with a multiplier of 110% projected with the Ultimate rates from MP-2018, fully generational from 2014, based on attained age in 2022 and the RP-2014 Combined Mortality Table for females with a multiplier of 105% projected with the Ultimate rates from MP-2018, fully generational from 2014, based on attained age in 2022



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Age at Purchase	Service at Time of Purchase																			
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
56	14.37%	14.13%	14.54%	14.35%	14.83%	14.68%	15.24%	15.14%	15.77%	15.69%	16.37%	16.31%	17.07%	17.04%	17.89%	17.89%	17.89%	17.89%	17.89%	17.89%
57	14.11%	14.51%	14.30%	14.76%	14.60%	15.12%	15.01%	15.63%	15.56%	16.23%	16.16%	16.90%	16.87%	17.69%	17.69%	17.69%	17.69%	17.69%	17.69%	17.69%
58	14.47%	14.26%	14.70%	14.51%	15.02%	14.89%	15.48%	15.40%	16.06%	16.01%	16.73%	16.69%	17.49%	17.49%	17.49%	17.49%	17.49%	17.49%	17.49%	17.49%
59	14.20%	14.62%	14.44%	14.93%	14.77%	15.32%	15.24%	15.88%	15.84%	16.54%	16.51%	17.28%	17.28%	17.28%	17.28%	17.28%	17.28%	17.28%	17.28%	17.28%
60	14.53%	14.35%	14.81%	14.66%	15.19%	15.07%	15.69%	15.64%	16.34%	16.31%	17.06%	17.06%	17.06%	17.06%	17.06%	17.06%	17.06%	17.06%	17.06%	17.06%
61	14.83%	14.69%	14.54%	15.05%	14.93%	15.51%	15.44%	16.11%	16.09%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%
62	15.10%	14.99%	14.89%	14.77%	15.33%	15.24%	15.89%	15.85%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%	16.58%
63	15.35%	15.28%	15.21%	15.14%	15.05%	15.66%	15.62%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%	16.32%
64	15.58%	15.54%	15.50%	15.46%	15.43%	15.38%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%	16.05%
65	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%	15.77%
66	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%	15.49%
67	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%	15.18%
68	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%	14.86%
69	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%	14.54%
70	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%	14.21%
71	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%	13.86%
72	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%	13.50%
73	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%	13.13%
74	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%
75	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%	12.36%
76	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%	11.97%
77	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%	11.56%
78	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%	11.15%
79	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%	10.73%
80	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%	10.30%

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