

The experience and dedication you deserve

May 26, 2021

Board of Trustees of the City of Hollywood Police Officers' Retirement System 4205 Hollywood Blvd., Suite 4 Hollywood, FL 33021

Disclosures - Chapter 112.664(1)

Dear Board of Trustees:

Chapter 112.664(1), Florida Statutes require each public pension plan to submit information to the Department of Management Services within 60 days after the Board of Trustees approves the valuation report. Attached are the disclosures for the Hollywood Police Officers' Retirement System based on the October 1, 2020 actuarial valuation.

In addition to the attached information, Hollywood Police Officers' Retirement System and the City of Hollywood websites must include five years' actual and expected asset rate of return, along with investment breakdown percentages and a link to the Division of Retirement's Actuarial Summary Fact Sheet for the Retirement Fund.

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were prepared and completed by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, meet the requirements of Section 112.664(1), Florida Statutes, and Rule 60T-1.0035, Florida Administrative Code.



Board of Trustees May 26, 2021 Page 2

The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Please let us know if you have any questions.

Todil B. G

Todd B. Green, ASA, EA, FCA, MAAA

President

Enrolled Actuary No. 20-8883

Micki R. Taylor, ASA, EA, FCA, MAAA

Consulting Actuary

Enrolled Actuary No. 20-5975

Micki R. Taylor

Encs.

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City of Hollywood Police Officers' Retirement System

SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

September 30, 2019 to September 30, 2020 Information under Section 112.664(1)(a) F.S.

1. Total pension liability	
a. Service cost	\$6,546,335
b. Interest	35,005,691
c. Benefit changes	0
d. Difference between expected and actual experience	1,350,337
e. Changes of assumptions	0
f. Benefit payments	(28,673,556)
g. Contribution refunds	(314,396)
h. Net change in total pension liability	13,914,411
i. Total pension liability - beginning	\$452,065,109
j. Total pension liability - ending	\$465,979,519
Discount rate - beginning	8.00%
Discount rate - ending	8.00%
2. Plan net position	
a. Contributions - Employer	\$18,499,668
b. Contributions - State	\$1,797,433
c. Contributions - Member	2,367,863
d. Net investment income	17,035,181
e. Benefit payments	(28,673,556)
f. Contribution refunds	(314,396)
g. Administrative expense	(722,989)
h. Other	0
i. Net change in plan net position	9,989,204
j. Plan net position - beginning	\$215,913,475
k. Plan net position - ending	\$225,902,679
3. Net pension liability (asset) [1.j 2.k.]	\$240,076,840



City of Hollywood Police Officers' Retirement System

SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

September 30, 2019 to September 30, 2020 Information under Section 112.664(1)(b) F.S. (-2%)

1. Total pension liability	
a. Service cost	\$10,195,877
b. Interest	32,987,307
c. Benefit changes	0
d. Difference between expected and actual experience	3,333,910
e. Changes of assumptions	0
f. Benefit payments	(28,673,556)
g. Contribution refunds	(314,396)
h. Net change in total pension liability	17,529,142
i. Total pension liability - beginning	\$564,282,423
j. Total pension liability - ending	\$581,811,565
Discount rate - beginning	6.00%
Discount rate - ending	6.00%
2. Plan net position	
a. Contributions - Employer	\$18,499,668
b. Contributions - State	\$1,797,433
c. Contributions - Member	2,367,863
d. Net investment income	17,035,181
e. Benefit payments	(28,673,556)
f. Contribution refunds	(314,396)
g. Administrative expense	(722,989)
h. Other	0
i. Net change in plan net position	9,989,204
j. Plan net position - beginning	\$215,913,475
k. Plan net position - ending	\$225,902,679
3. Net pension liability (asset) [1.j 2.k.]	\$355,908,886



City of Hollywood Police Officers' Retirement System

SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

September 30, 2019 to September 30, 2020 Information under Section 112.664(1)(b) F.S. (+2%)

1. Total pension liability	
a. Service cost	\$4,366,145
b. Interest	36,048,145
c. Benefit changes	0
d. Difference between expected and actual experience	71,444
e. Changes of assumptions	0
f. Benefit payments	(28,673,556)
g. Contribution refunds	(314,396)
h. Net change in total pension liability	11,497,782
i. Total pension liability - beginning	\$374,975,423
j. Total pension liability - ending	\$386,473,205
Discount rate - beginning	10.00%
Discount rate - ending	10.00%
2. Plan net position	
a. Contributions - Employer	\$18,499,668
b. Contributions - State	\$1,797,433
c. Contributions - Member	2,367,863
d. Net investment income	17,035,181
e. Benefit payments	(28,673,556)
f. Contribution refunds	(314,396)
g. Administrative expense	(722,989)
h. Other	0
i. Net change in plan net position	9,989,204
j. Plan net position - beginning	\$215,913,475
k. Plan net position - ending	\$225,902,679
3. Net pension liability (asset) [1.j 2.k.]	\$160,570,526



City of Hollywood Police Officers' Retirement System Information on Projected Market Value of Assets under Florida Statutes Section 112.664(1)(c)

	October 1, 2020 Actuarial			
	Valuation	Section 112.664(1)(a) Basis	Section 112.664(1)(b) Basis	Section 112.664(1)(b) Basis
	Female Pre-Retirement: PubG.H-	Female Pre-Retirement: PubG.H-	Female Pre-Retirement: PubG.H-	Female Pre-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Employee Set Forward 1			
	year; projected generationally	year; projected generationally	year; projected generationally	year; projected generationally
	using projection scale MP-2018			
	Female Post-Retirement: PubG.H-	Female Post-Retirement: PubG.H-	Female Post-Retirement: PubG.H-	Female Post-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Healthy Retiree Set			
	Forward 1 year; projected			
	generationally using projection	generationally using projection	generationally using projection	generationally using projection
	scale MP-2018	scale MP-2018	scale MP-2018	scale MP-2018
Mortality Table - Healthy	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Below Median Employee			
	Set Forward 1 year; projected			
	generationally using projection	generationally using projection	generationally using projection	generationally using projection
	scale MP-2018	scale MP-2018	scale MP-2018	scale MP-2018
	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Below Median Healthy			
	Retiree Set Forward 1 year;			
	projected generationally using	projected generationally using	projected generationally using	projected generationally using
	projection scale MP-2018	projection scale MP-2018	projection scale MP-2018	projection scale MP-2018
	Pub-2010 80% Headcount	Pub-2010 80% Headcount	Pub-2010 80% Headcount	Pub-2010 80% Headcount
	Weighted General Disabled	Weighted General Disabled	Weighted General Disabled	Weighted General Disabled
	Retiree; 20% Headcount	Retiree; 20% Headcount	Retiree; 20% Headcount	Retiree; 20% Headcount
Mortality Table - Disabled	Weighted Safety Disabled	Weighted Safety Disabled	Weighted Safety Disabled	Weighted Safety Disabled
	Retiree; projected generationally	Retiree; projected generationally	Retiree; projected generationally	Retiree; projected generationally
	using projection scale MP-2018			
		21 3		
Discount Rate	8.00%	8.00%	6.00%	10.00%
Discount Nate	8.0070	8.0070	0.0070	10.0070
Number of Years for which the Market				
Value of Assets are adequate to sustain	10.2500	10.2500	9.1667	11.7500
expected retirement benefits				



City of Hollywood Police Officers' Retirement System Information on Contributions under Florida Statutes Section 112.664(1)(d)

	October 1, 2020 Actuarial Valuation	Santian 112 ((4(1)(a) Basis	Santian 112 (CA(1)/h) Bania	Santian 112 (CA(1)(h) Bania
	Valuation Female Pre-Retirement: PubGH-	Section 112.664(1)(a) Basis Female Pre-Retirement: PubG.H-	Section 112.664(1)(b) Basis Female Pre-Retirement: PubG.H-	Section 112.664(1)(b) Basis Female Pre-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Employee Set Forward 1	Safety Employee Set Forward 1	Safety Employee Set Forward 1	Safety Employee Set Forward 1
	year; projected generationally	year; projected generationally	year; projected generationally	year; projected generationally
	using projection scale MP-2018		using projection scale MP-2018	using projection scale MP-2018
	Female Post-Retirement: PubG.H-			Female Post-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Healthy Retiree Set	Safety Healthy Retiree Set	Safety Healthy Retiree Set	Safety Healthy Retiree Set
	Forward 1 year; projected	Forward 1 year; projected	Forward 1 year; projected	Forward 1 year; projected
	generationally using projection	generationally using projection	generationally using projection	generationally using projection
	scale MP-2018	scale MP-2018	scale MP-2018	scale MP-2018
Mortality Table - Healthy	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubG.H-	Male Pre-Retirement: PubGH-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Below Median Employee	Safety Below Median Employee	Safety Below Median Employee	Safety Below Median Employee
	Set Forward 1 year; projected	Set Forward 1 year; projected	Set Forward 1 year; projected	Set Forward 1 year; projected
	generationally using projection	generationally using projection	generationally using projection	generationally using projection
	scale MP-2018	scale MP-2018	scale MP-2018	scale MP-2018
	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-	Male Post-Retirement: PubG.H-
	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted	2010 Headcount Weighted
	Safety Below Median Healthy	Safety Below Median Healthy	Safety Below Median Healthy	Safety Below Median Healthy
	Retiree Set Forward 1 year;	Retiree Set Forward 1 year;	Retiree Set Forward 1 year;	Retiree Set Forward 1 year;
	projected generationally using	projected generationally using	projected generationally using	projected generationally using
	projection scale MP-2018	projection scale MP-2018	projection scale MP-2018	projection scale MP-2018
	Pub-2010 80% Headcount	Pub-2010 80% Headcount	Pub-2010 80% Headcount	Pub-2010 80% Headcount
	Weighted General Disabled	Weighted General Disabled	Weighted General Disabled	Weighted General Disabled
	Retiree; 20% Headcount	Retiree; 20% Headcount	Retiree; 20% Headcount	Retiree; 20% Headcount
Mortality Table - Disabled	Weighted Safety Disabled	Weighted Safety Disabled	Weighted Safety Disabled	Weighted Safety Disabled
	Retiree; projected generationally	Retiree; projected generationally	Retiree; projected generationally	Retiree; projected generationally
	using projection scale MP-2018	using projection scale MP-2018	using projection scale MP-2018	using projection scale MP-2018
	using projection scale Wii -2016	using projection scale ivii -2016	using projection scale Wii -2016	using projection scale ivii -2016
Discount Rate	8.00%	8.00%	6.00%	10.00%
Covered Payroll	\$23,770,566	\$23,770,566	\$23,770,566	\$23,770,566
City Dollar Contributions to the Plan*	\$25,330,565	\$25,330,565	\$36,197,663	\$16,828,024
Contributions as a Percentage of Payroll	106.56%	106.56%	152.28%	70.79%



Investment Return Assumption 8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
10/1/2020	225,902,679	1,453,465	2,409,722	224,946,422
11/1/2020	224,946,422	1,447,312	2,409,722	223,984,012
12/1/2020	223,984,012	1,441,120	2,409,722	223,015,410
1/1/2021	223,015,410	1,434,888	2,409,722	222,040,576
2/1/2021	222,040,576	1,428,616	2,409,722	221,059,470
3/1/2021	221,059,470	1,422,303	2,409,722	220,072,051
4/1/2021	220,072,051	1,415,950	2,409,722	219,078,279
5/1/2021	219,078,279	1,409,556	2,409,722	218,078,113
6/1/2021	218,078,113	1,403,121	2,409,722	217,071,512
7/1/2021	217,071,512	1,396,645	2,409,722	216,058,435
8/1/2021	216,058,435	1,390,126	2,409,722	215,038,839
9/1/2021	215,038,839	1,383,566	2,409,722	214,012,683
10/1/2021	214,012,683	1,376,964	2,473,010	212,916,637
11/1/2021	212,916,637	1,369,912	2,473,010	211,813,539
12/1/2021	211,813,539	1,362,815	2,473,010	210,703,344
1/1/2022	210,703,344	1,355,672	2,473,010	209,586,006
2/1/2022	209,586,006	1,348,483	2,473,010	208,461,479
3/1/2022	208,461,479	1,341,247	2,473,010	207,329,716
4/1/2022	207,329,716	1,333,966	2,473,010	206,190,672
5/1/2022	206,190,672	1,326,637	2,473,010	205,044,299
6/1/2022	205,044,299	1,319,261	2,473,010	203,890,550
7/1/2022	203,890,550	1,311,838	2,473,010	202,729,378
8/1/2022	202,729,378	1,304,367	2,473,010	201,560,735
9/1/2022	201,560,735	1,296,848	2,473,010	200,384,573
10/1/2022	200,384,573	1,289,280	2,530,250	199,143,603
11/1/2022	199,143,603	1,281,296	2,530,250	197,894,649
12/1/2022	197,894,649	1,273,260	2,530,250	196,637,659
1/1/2023	196,637,659	1,265,173	2,530,250	195,372,582
2/1/2023	195,372,582	1,257,033	2,530,250	194,099,365
3/1/2023	194,099,365	1,248,841	2,530,250	192,817,956
4/1/2023	192,817,956	1,240,597	2,530,250	191,528,303



Investment Return Assumption

8.00%

Number of months benefits sustained 123
Number of years benefits sustained 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
5/1/2023	191,528,303	1,232,299	2,530,250	190,230,352
6/1/2023	190,230,352	1,223,948	2,530,250	188,924,050
7/1/2023	188,924,050	1,215,543	2,530,250	187,609,343
8/1/2023	187,609,343	1,207,084	2,530,250	186,286,177
9/1/2023	186,286,177	1,198,571	2,530,250	184,954,498
10/1/2023	184,954,498	1,190,003	2,585,797	183,558,704
11/1/2023	183,558,704	1,181,022	2,585,797	182,153,929
12/1/2023	182,153,929	1,171,984	2,585,797	180,740,116
1/1/2024	180,740,116	1,162,887	2,585,797	179,317,206
2/1/2024	179,317,206	1,153,732	2,585,797	177,885,141
3/1/2024	177,885,141	1,144,518	2,585,797	176,443,862
4/1/2024	176,443,862	1,135,245	2,585,797	174,993,310
5/1/2024	174,993,310	1,125,912	2,585,797	173,533,425
6/1/2024	173,533,425	1,116,519	2,585,797	172,064,147
7/1/2024	172,064,147	1,107,066	2,585,797	170,585,416
8/1/2024	170,585,416	1,097,552	2,585,797	169,097,171
9/1/2024	169,097,171	1,087,976	2,585,797	167,599,350
10/1/2024	167,599,350	1,078,339	2,700,722	165,976,967
11/1/2024	165,976,967	1,067,901	2,700,722	164,344,146
12/1/2024	164,344,146	1,057,395	2,700,722	162,700,819
1/1/2025	162,700,819	1,046,822	2,700,722	161,046,919
2/1/2025	161,046,919	1,036,181	2,700,722	159,382,378
3/1/2025	159,382,378	1,025,471	2,700,722	157,707,127
4/1/2025	157,707,127	1,014,692	2,700,722	156,021,097
5/1/2025	156,021,097	1,003,844	2,700,722	154,324,219
6/1/2025	154,324,219	992,927	2,700,722	152,616,424
7/1/2025	152,616,424	981,939	2,700,722	150,897,641
8/1/2025	150,897,641	970,880	2,700,722	149,167,799
9/1/2025	149,167,799	959,750	2,700,722	147,426,827
10/1/2025	147,426,827	948,549	2,751,558	145,623,818
11/1/2025	145,623,818	936,948	2,751,558	143,809,208



Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
12/1/2025	143,809,208	925,273	2,751,558	141,982,923
1/1/2026	141,982,923	913,522	2,751,558	140,144,887
2/1/2026	140,144,887	901,696	2,751,558	138,295,025
3/1/2026	138,295,025	889,794	2,751,558	136,433,261
4/1/2026	136,433,261	877,816	2,751,558	134,559,519
5/1/2026	134,559,519	865,760	2,751,558	132,673,721
6/1/2026	132,673,721	853,627	2,751,558	130,775,790
7/1/2026	130,775,790	841,415	2,751,558	128,865,647
8/1/2026	128,865,647	829,125	2,751,558	126,943,214
9/1/2026	126,943,214	816,756	2,751,558	125,008,412
10/1/2026	125,008,412	804,308	2,791,345	123,021,375
11/1/2026	123,021,375	791,523	2,791,345	121,021,553
12/1/2026	121,021,553	778,656	2,791,345	119,008,864
1/1/2027	119,008,864	765,707	2,791,345	116,983,226
2/1/2027	116,983,226	752,674	2,791,345	114,944,555
3/1/2027	114,944,555	739,557	2,791,345	112,892,767
4/1/2027	112,892,767	726,355	2,791,345	110,827,777
5/1/2027	110,827,777	713,069	2,791,345	108,749,501
6/1/2027	108,749,501	699,698	2,791,345	106,657,854
7/1/2027	106,657,854	686,240	2,791,345	104,552,749
8/1/2027	104,552,749	672,696	2,791,345	102,434,100
9/1/2027	102,434,100	659,064	2,791,345	100,301,819
10/1/2027	100,301,819	645,345	2,822,937	98,124,227
11/1/2027	98,124,227	631,334	2,822,937	95,932,624
12/1/2027	95,932,624	617,233	2,822,937	93,726,920
1/1/2028	93,726,920	603,042	2,822,937	91,507,025
2/1/2028	91,507,025	588,759	2,822,937	89,272,847
3/1/2028	89,272,847	574,384	2,822,937	87,024,294
4/1/2028	87,024,294	559,917	2,822,937	84,761,274
5/1/2028	84,761,274	545,357	2,822,937	82,483,694
6/1/2028	82,483,694	530,703	2,822,937	80,191,460



Investment Return Assumption

Number of months benefits sustained Number of years benefits sustained 123 10.2500

8.00%

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
7/1/2028	80,191,460	515,954	2,822,937	77,884,477
8/1/2028	77,884,477	501,111	2,822,937	75,562,651
9/1/2028	75,562,651	486,172	2,822,937	73,225,886
10/1/2028	73,225,886	471,138	2,860,800	70,836,224
11/1/2028	70,836,224	455,762	2,860,800	68,431,186
12/1/2028	68,431,186	440,288	2,860,800	66,010,674
1/1/2029	66,010,674	424,715	2,860,800	63,574,589
2/1/2029	63,574,589	409,041	2,860,800	61,122,830
3/1/2029	61,122,830	393,266	2,860,800	58,655,296
4/1/2029	58,655,296	377,390	2,860,800	56,171,886
5/1/2029	56,171,886	361,412	2,860,800	53,672,498
6/1/2029	53,672,498	345,330	2,860,800	51,157,028
7/1/2029	51,157,028	329,146	2,860,800	48,625,374
8/1/2029	48,625,374	312,857	2,860,800	46,077,431
9/1/2029	46,077,431	296,464	2,860,800	43,513,095
10/1/2029	43,513,095	279,965	2,898,570	40,894,490
11/1/2029	40,894,490	263,116	2,898,570	38,259,036
12/1/2029	38,259,036	246,160	2,898,570	35,606,626
1/1/2030	35,606,626	229,094	2,898,570	32,937,150
2/1/2030	32,937,150	211,919	2,898,570	30,250,499
3/1/2030	30,250,499	194,633	2,898,570	27,546,562
4/1/2030	27,546,562	177,235	2,898,570	24,825,227
5/1/2030	24,825,227	159,726	2,898,570	22,086,383
6/1/2030	22,086,383	142,104	2,898,570	19,329,917
7/1/2030	19,329,917	124,369	2,898,570	16,555,716
8/1/2030	16,555,716	106,520	2,898,570	13,763,666
9/1/2030	13,763,666	88,556	2,898,570	10,953,652
10/1/2030	10,953,652	70,476	2,921,583	8,102,545
11/1/2030	8,102,545	52,132	2,921,583	5,233,094
12/1/2030	5,233,094	33,670	2,921,583	2,345,181
1/1/2031	2,345,181	15,089	2,921,583	(561,313)



Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
2/1/2031	(561,313)	(3,612)	2,921,583	(3,486,508)
3/1/2031	(3,486,508)	(22,432)	2,921,583	(6,430,523)
4/1/2031	(6,430,523)	(41,374)	2,921,583	(9,393,480)
5/1/2031	(9,393,480)	(60,438)	2,921,583	(12,375,501)
6/1/2031	(12,375,501)	(79,624)	2,921,583	(15,376,708)
7/1/2031	(15,376,708)	(98,934)	2,921,583	(18,397,225)
8/1/2031	(18,397,225)	(118,368)	2,921,583	(21,437,176)
9/1/2031	(21,437,176)	(137,927)	2,921,583	(24,496,686)
10/1/2031	(24,496,686)	(157,612)	2,944,705	(27,599,003)
11/1/2031	(27,599,003)	(177,573)	2,944,705	(30,721,281)
12/1/2031	(30,721,281)	(197,662)	2,944,705	(33,863,648)
1/1/2032	(33,863,648)	(217,880)	2,944,705	(37,026,233)
2/1/2032	(37,026,233)	(238,228)	2,944,705	(40,209,166)
3/1/2032	(40,209,166)	(258,707)	2,944,705	(43,412,578)
4/1/2032	(43,412,578)	(279,318)	2,944,705	(46,636,601)
5/1/2032	(46,636,601)	(300,061)	2,944,705	(49,881,367)
6/1/2032	(49,881,367)	(320,938)	2,944,705	(53,147,010)
7/1/2032	(53,147,010)	(341,949)	2,944,705	(56,433,664)
8/1/2032	(56,433,664)	(363,096)	2,944,705	(59,741,465)
9/1/2032	(59,741,465)	(384,378)	2,944,705	(63,070,548)
10/1/2032	(63,070,548)	(405,798)	2,960,484	(66,436,830)
11/1/2032	(66,436,830)	(427,457)	2,960,484	(69,824,771)
12/1/2032	(69,824,771)	(449,255)	2,960,484	(73,234,510)
1/1/2033	(73,234,510)	(471,193)	2,960,484	(76,666,187)
2/1/2033	(76,666,187)	(493,273)	2,960,484	(80,119,944)
3/1/2033	(80,119,944)	(515,494)	2,960,484	(83,595,922)
4/1/2033	(83,595,922)	(537,859)	2,960,484	(87,094,265)
5/1/2033	(87,094,265)	(560,367)	2,960,484	(90,615,116)
6/1/2033	(90,615,116)	(583,020)	2,960,484	(94,158,620)
7/1/2033	(94,158,620)	(605,819)	2,960,484	(97,724,923)
8/1/2033	(97,724,923)	(628,765)	2,960,484	(101,314,172)



Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
10/1/2020	225,902,679	1,453,465	2,409,722	224,946,422
11/1/2020	224,946,422	1,447,312	2,409,722	223,984,012
12/1/2020	223,984,012	1,441,120	2,409,722	223,015,410
1/1/2021	223,015,410	1,434,888	2,409,722	222,040,576
2/1/2021	222,040,576	1,428,616	2,409,722	221,059,470
3/1/2021	221,059,470	1,422,303	2,409,722	220,072,051
4/1/2021	220,072,051	1,415,950	2,409,722	219,078,279
5/1/2021	219,078,279	1,409,556	2,409,722	218,078,113
6/1/2021	218,078,113	1,403,121	2,409,722	217,071,512
7/1/2021	217,071,512	1,396,645	2,409,722	216,058,435
8/1/2021	216,058,435	1,390,126	2,409,722	215,038,839
9/1/2021	215,038,839	1,383,566	2,409,722	214,012,683
10/1/2021	214,012,683	1,376,964	2,473,010	212,916,637
11/1/2021	212,916,637	1,369,912	2,473,010	211,813,539
12/1/2021	211,813,539	1,362,815	2,473,010	210,703,344
1/1/2022	210,703,344	1,355,672	2,473,010	209,586,006
2/1/2022	209,586,006	1,348,483	2,473,010	208,461,479
3/1/2022	208,461,479	1,341,247	2,473,010	207,329,716
4/1/2022	207,329,716	1,333,966	2,473,010	206,190,672
5/1/2022	206,190,672	1,326,637	2,473,010	205,044,299
6/1/2022	205,044,299	1,319,261	2,473,010	203,890,550
7/1/2022	203,890,550	1,311,838	2,473,010	202,729,378
8/1/2022	202,729,378	1,304,367	2,473,010	201,560,735
9/1/2022	201,560,735	1,296,848	2,473,010	200,384,573
10/1/2022	200,384,573	1,289,280	2,530,250	199,143,603
11/1/2022	199,143,603	1,281,296	2,530,250	197,894,649
12/1/2022	197,894,649	1,273,260	2,530,250	196,637,659
1/1/2023	196,637,659	1,265,173	2,530,250	195,372,582
2/1/2023	195,372,582	1,257,033	2,530,250	194,099,365
3/1/2023	194,099,365	1,248,841	2,530,250	192,817,956
4/1/2023	192,817,956	1,240,597	2,530,250	191,528,303



Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
5/1/2023	191,528,303	1,232,299	2,530,250	190,230,352
6/1/2023	190,230,352	1,223,948	2,530,250	188,924,050
7/1/2023	188,924,050	1,215,543	2,530,250	187,609,343
8/1/2023	187,609,343	1,207,084	2,530,250	186,286,177
9/1/2023	186,286,177	1,198,571	2,530,250	184,954,498
10/1/2023	184,954,498	1,190,003	2,585,797	183,558,704
11/1/2023	183,558,704	1,181,022	2,585,797	182,153,929
12/1/2023	182,153,929	1,171,984	2,585,797	180,740,116
1/1/2024	180,740,116	1,162,887	2,585,797	179,317,206
2/1/2024	179,317,206	1,153,732	2,585,797	177,885,141
3/1/2024	177,885,141	1,144,518	2,585,797	176,443,862
4/1/2024	176,443,862	1,135,245	2,585,797	174,993,310
5/1/2024	174,993,310	1,125,912	2,585,797	173,533,425
6/1/2024	173,533,425	1,116,519	2,585,797	172,064,147
7/1/2024	172,064,147	1,107,066	2,585,797	170,585,416
8/1/2024	170,585,416	1,097,552	2,585,797	169,097,171
9/1/2024	169,097,171	1,087,976	2,585,797	167,599,350
10/1/2024	167,599,350	1,078,339	2,700,722	165,976,967
11/1/2024	165,976,967	1,067,901	2,700,722	164,344,146
12/1/2024	164,344,146	1,057,395	2,700,722	162,700,819
1/1/2025	162,700,819	1,046,822	2,700,722	161,046,919
2/1/2025	161,046,919	1,036,181	2,700,722	159,382,378
3/1/2025	159,382,378	1,025,471	2,700,722	157,707,127
4/1/2025	157,707,127	1,014,692	2,700,722	156,021,097
5/1/2025	156,021,097	1,003,844	2,700,722	154,324,219
6/1/2025	154,324,219	992,927	2,700,722	152,616,424
7/1/2025	152,616,424	981,939	2,700,722	150,897,641
8/1/2025	150,897,641	970,880	2,700,722	149,167,799
9/1/2025	149,167,799	959,750	2,700,722	147,426,827
10/1/2025	147,426,827	948,549	2,751,558	145,623,818
11/1/2025	145,623,818	936,948	2,751,558	143,809,208



Investment Return Assumption

Number of months benefits sustained Number of years benefits sustained 123 10.2500

8.00%

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
12/1/2025	143,809,208	925,273	2,751,558	141,982,923
1/1/2026	141,982,923	913,522	2,751,558	140,144,887
2/1/2026	140,144,887	901,696	2,751,558	138,295,025
3/1/2026	138,295,025	889,794	2,751,558	136,433,261
4/1/2026	136,433,261	877,816	2,751,558	134,559,519
5/1/2026	134,559,519	865,760	2,751,558	132,673,721
6/1/2026	132,673,721	853,627	2,751,558	130,775,790
7/1/2026	130,775,790	841,415	2,751,558	128,865,647
8/1/2026	128,865,647	829,125	2,751,558	126,943,214
9/1/2026	126,943,214	816,756	2,751,558	125,008,412
10/1/2026	125,008,412	804,308	2,791,345	123,021,375
11/1/2026	123,021,375	791,523	2,791,345	121,021,553
12/1/2026	121,021,553	778,656	2,791,345	119,008,864
1/1/2027	119,008,864	765,707	2,791,345	116,983,226
2/1/2027	116,983,226	752,674	2,791,345	114,944,555
3/1/2027	114,944,555	739,557	2,791,345	112,892,767
4/1/2027	112,892,767	726,355	2,791,345	110,827,777
5/1/2027	110,827,777	713,069	2,791,345	108,749,501
6/1/2027	108,749,501	699,698	2,791,345	106,657,854
7/1/2027	106,657,854	686,240	2,791,345	104,552,749
8/1/2027	104,552,749	672,696	2,791,345	102,434,100
9/1/2027	102,434,100	659,064	2,791,345	100,301,819
10/1/2027	100,301,819	645,345	2,822,937	98,124,227
11/1/2027	98,124,227	631,334	2,822,937	95,932,624
12/1/2027	95,932,624	617,233	2,822,937	93,726,920
1/1/2028	93,726,920	603,042	2,822,937	91,507,025
2/1/2028	91,507,025	588,759	2,822,937	89,272,847
3/1/2028	89,272,847	574,384	2,822,937	87,024,294
4/1/2028	87,024,294	559,917	2,822,937	84,761,274
5/1/2028	84,761,274	545,357	2,822,937	82,483,694
6/1/2028	82,483,694	530,703	2,822,937	80,191,460

CM

Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
7/1/2028	80,191,460	515,954	2,822,937	77,884,477
8/1/2028	77,884,477	501,111	2,822,937	75,562,651
9/1/2028	75,562,651	486,172	2,822,937	73,225,886
10/1/2028	73,225,886	471,138	2,860,800	70,836,224
11/1/2028	70,836,224	455,762	2,860,800	68,431,186
12/1/2028	68,431,186	440,288	2,860,800	66,010,674
1/1/2029	66,010,674	424,715	2,860,800	63,574,589
2/1/2029	63,574,589	409,041	2,860,800	61,122,830
3/1/2029	61,122,830	393,266	2,860,800	58,655,296
4/1/2029	58,655,296	377,390	2,860,800	56,171,886
5/1/2029	56,171,886	361,412	2,860,800	53,672,498
6/1/2029	53,672,498	345,330	2,860,800	51,157,028
7/1/2029	51,157,028	329,146	2,860,800	48,625,374
8/1/2029	48,625,374	312,857	2,860,800	46,077,431
9/1/2029	46,077,431	296,464	2,860,800	43,513,095
10/1/2029	43,513,095	279,965	2,898,570	40,894,490
11/1/2029	40,894,490	263,116	2,898,570	38,259,036
12/1/2029	38,259,036	246,160	2,898,570	35,606,626
1/1/2030	35,606,626	229,094	2,898,570	32,937,150
2/1/2030	32,937,150	211,919	2,898,570	30,250,499
3/1/2030	30,250,499	194,633	2,898,570	27,546,562
4/1/2030	27,546,562	177,235	2,898,570	24,825,227
5/1/2030	24,825,227	159,726	2,898,570	22,086,383
6/1/2030	22,086,383	142,104	2,898,570	19,329,917
7/1/2030	19,329,917	124,369	2,898,570	16,555,716
8/1/2030	16,555,716	106,520	2,898,570	13,763,666
9/1/2030	13,763,666	88,556	2,898,570	10,953,652
10/1/2030	10,953,652	70,476	2,921,583	8,102,545
11/1/2030	8,102,545	52,132	2,921,583	5,233,094
12/1/2030	5,233,094	33,670	2,921,583	2,345,181
1/1/2031	2,345,181	15,089	2,921,583	(561,313)



Investment Return Assumption

8.00%

Number of months benefits sustained Number of years benefits sustained 123 10.2500

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
2/1/2031	(561,313)	(3,612)	2,921,583	(3,486,508)
3/1/2031	(3,486,508)	(22,432)	2,921,583	(6,430,523)
4/1/2031	(6,430,523)	(41,374)	2,921,583	(9,393,480)
5/1/2031	(9,393,480)	(60,438)	2,921,583	(12,375,501)
6/1/2031	(12,375,501)	(79,624)	2,921,583	(15,376,708)
7/1/2031	(15,376,708)	(98,934)	2,921,583	(18,397,225)
8/1/2031	(18,397,225)	(118,368)	2,921,583	(21,437,176)
9/1/2031	(21,437,176)	(137,927)	2,921,583	(24,496,686)
10/1/2031	(24,496,686)	(157,612)	2,944,705	(27,599,003)
11/1/2031	(27,599,003)	(177,573)	2,944,705	(30,721,281)
12/1/2031	(30,721,281)	(197,662)	2,944,705	(33,863,648)
1/1/2032	(33,863,648)	(217,880)	2,944,705	(37,026,233)
2/1/2032	(37,026,233)	(238,228)	2,944,705	(40,209,166)
3/1/2032	(40,209,166)	(258,707)	2,944,705	(43,412,578)
4/1/2032	(43,412,578)	(279,318)	2,944,705	(46,636,601)
5/1/2032	(46,636,601)	(300,061)	2,944,705	(49,881,367)
6/1/2032	(49,881,367)	(320,938)	2,944,705	(53,147,010)
7/1/2032	(53,147,010)	(341,949)	2,944,705	(56,433,664)
8/1/2032	(56,433,664)	(363,096)	2,944,705	(59,741,465)
9/1/2032	(59,741,465)	(384,378)	2,944,705	(63,070,548)
10/1/2032	(63,070,548)	(405,798)	2,960,484	(66,436,830)
11/1/2032	(66,436,830)	(427,457)	2,960,484	(69,824,771)
12/1/2032	(69,824,771)	(449,255)	2,960,484	(73,234,510)
1/1/2033	(73,234,510)	(471,193)	2,960,484	(76,666,187)
2/1/2033	(76,666,187)	(493,273)	2,960,484	(80,119,944)
3/1/2033	(80,119,944)	(515,494)	2,960,484	(83,595,922)



Investment Return Assumption

6.00%

Number of months benefits sustained Number of years benefits sustained 110 9.1667

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
10/1/2020	225,902,679	1,099,593	2,409,722	224,592,550
11/1/2020	224,592,550	1,093,216	2,409,722	223,276,044
12/1/2020	223,276,044	1,086,807	2,409,722	221,953,129
1/1/2021	221,953,129	1,080,368	2,409,722	220,623,775
2/1/2021	220,623,775	1,073,897	2,409,722	219,287,950
3/1/2021	219,287,950	1,067,395	2,409,722	217,945,623
4/1/2021	217,945,623	1,060,861	2,409,722	216,596,762
5/1/2021	216,596,762	1,054,296	2,409,722	215,241,336
6/1/2021	215,241,336	1,047,698	2,409,722	213,879,312
7/1/2021	213,879,312	1,041,068	2,409,722	212,510,658
8/1/2021	212,510,658	1,034,406	2,409,722	211,135,342
9/1/2021	211,135,342	1,027,712	2,409,722	209,753,332
10/1/2021	209,753,332	1,020,985	2,473,010	208,301,307
11/1/2021	208,301,307	1,013,917	2,473,010	206,842,214
12/1/2021	206,842,214	1,006,815	2,473,010	205,376,019
1/1/2022	205,376,019	999,678	2,473,010	203,902,687
2/1/2022	203,902,687	992,507	2,473,010	202,422,184
3/1/2022	202,422,184	985,300	2,473,010	200,934,474
4/1/2022	200,934,474	978,059	2,473,010	199,439,523
5/1/2022	199,439,523	970,782	2,473,010	197,937,295
6/1/2022	197,937,295	963,470	2,473,010	196,427,755
7/1/2022	196,427,755	956,122	2,473,010	194,910,867
8/1/2022	194,910,867	948,739	2,473,010	193,386,596
9/1/2022	193,386,596	941,319	2,473,010	191,854,905
10/1/2022	191,854,905	933,863	2,530,250	190,258,518
11/1/2022	190,258,518	926,093	2,530,250	188,654,361
12/1/2022	188,654,361	918,285	2,530,250	187,042,396
1/1/2023	187,042,396	910,438	2,530,250	185,422,584
2/1/2023	185,422,584	902,554	2,530,250	183,794,888
3/1/2023	183,794,888	894,631	2,530,250	182,159,269
4/1/2023	182,159,269	886,669	2,530,250	180,515,688



Investment Return Assumption

6.00%

Number of months benefits sustained Number of years benefits sustained 110 9.1667

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
5/1/2023	180,515,688	878,669	2,530,250	178,864,107
6/1/2023	178,864,107	870,630	2,530,250	177,204,487
7/1/2023	177,204,487	862,552	2,530,250	175,536,789
8/1/2023	175,536,789	854,434	2,530,250	173,860,973
9/1/2023	173,860,973	846,277	2,530,250	172,177,000
10/1/2023	172,177,000	838,080	2,585,797	170,429,283
11/1/2023	170,429,283	829,573	2,585,797	168,673,059
12/1/2023	168,673,059	821,025	2,585,797	166,908,287
1/1/2024	166,908,287	812,435	2,585,797	165,134,925
2/1/2024	165,134,925	803,803	2,585,797	163,352,931
3/1/2024	163,352,931	795,129	2,585,797	161,562,263
4/1/2024	161,562,263	786,412	2,585,797	159,762,878
5/1/2024	159,762,878	777,654	2,585,797	157,954,735
6/1/2024	157,954,735	768,853	2,585,797	156,137,791
7/1/2024	156,137,791	760,009	2,585,797	154,312,003
8/1/2024	154,312,003	751,121	2,585,797	152,477,327
9/1/2024	152,477,327	742,191	2,585,797	150,633,721
10/1/2024	150,633,721	733,217	2,700,722	148,666,216
11/1/2024	148,666,216	723,640	2,700,722	146,689,134
12/1/2024	146,689,134	714,017	2,700,722	144,702,429
1/1/2025	144,702,429	704,346	2,700,722	142,706,053
2/1/2025	142,706,053	694,629	2,700,722	140,699,960
3/1/2025	140,699,960	684,864	2,700,722	138,684,102
4/1/2025	138,684,102	675,052	2,700,722	136,658,432
5/1/2025	136,658,432	665,192	2,700,722	134,622,902
6/1/2025	134,622,902	655,284	2,700,722	132,577,464
7/1/2025	132,577,464	645,328	2,700,722	130,522,070
8/1/2025	130,522,070	635,323	2,700,722	128,456,671
9/1/2025	128,456,671	625,269	2,700,722	126,381,218
10/1/2025	126,381,218	615,167	2,751,558	124,244,827
11/1/2025	124,244,827	604,768	2,751,558	122,098,037



Investment Return Assumption

6.00%

Number of months benefits sustained Number of years benefits sustained 110 9.1667

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
12/1/2025	122,098,037	594,318	2,751,558	119,940,797
1/1/2026	119,940,797	583,818	2,751,558	117,773,057
2/1/2026	117,773,057	573,266	2,751,558	115,594,765
3/1/2026	115,594,765	562,663	2,751,558	113,405,870
4/1/2026	113,405,870	552,009	2,751,558	111,206,321
5/1/2026	111,206,321	541,302	2,751,558	108,996,065
6/1/2026	108,996,065	530,544	2,751,558	106,775,051
7/1/2026	106,775,051	519,733	2,751,558	104,543,226
8/1/2026	104,543,226	508,869	2,751,558	102,300,537
9/1/2026	102,300,537	497,953	2,751,558	100,046,932
10/1/2026	100,046,932	486,984	2,791,345	97,742,571
11/1/2026	97,742,571	475,767	2,791,345	95,426,993
12/1/2026	95,426,993	464,496	2,791,345	93,100,144
1/1/2027	93,100,144	453,170	2,791,345	90,761,969
2/1/2027	90,761,969	441,788	2,791,345	88,412,412
3/1/2027	88,412,412	430,352	2,791,345	86,051,419
4/1/2027	86,051,419	418,860	2,791,345	83,678,934
5/1/2027	83,678,934	407,311	2,791,345	81,294,900
6/1/2027	81,294,900	395,707	2,791,345	78,899,262
7/1/2027	78,899,262	384,046	2,791,345	76,491,963
8/1/2027	76,491,963	372,328	2,791,345	74,072,946
9/1/2027	74,072,946	360,554	2,791,345	71,642,155
10/1/2027	71,642,155	348,722	2,822,937	69,167,940
11/1/2027	69,167,940	336,678	2,822,937	66,681,681
12/1/2027	66,681,681	324,576	2,822,937	64,183,320
1/1/2028	64,183,320	312,416	2,822,937	61,672,799
2/1/2028	61,672,799	300,195	2,822,937	59,150,057
3/1/2028	59,150,057	287,916	2,822,937	56,615,036
4/1/2028	56,615,036	275,577	2,822,937	54,067,676
5/1/2028	54,067,676	263,177	2,822,937	51,507,916
6/1/2028	51,507,916	250,717	2,822,937	48,935,696



Investment Return Assumption

6.00%

Number of months benefits sustained Number of years benefits sustained 110 9.1667

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
7/1/2028	48,935,696	238,197	2,822,937	46,350,956
8/1/2028	46,350,956	225,616	2,822,937	43,753,635
9/1/2028	43,753,635	212,973	2,822,937	41,143,671
10/1/2028	41,143,671	200,269	2,860,800	38,483,140
11/1/2028	38,483,140	187,319	2,860,800	35,809,659
12/1/2028	35,809,659	174,305	2,860,800	33,123,164
1/1/2029	33,123,164	161,229	2,860,800	30,423,593
2/1/2029	30,423,593	148,088	2,860,800	27,710,881
3/1/2029	27,710,881	134,884	2,860,800	24,984,965
4/1/2029	24,984,965	121,616	2,860,800	22,245,781
5/1/2029	22,245,781	108,282	2,860,800	19,493,263
6/1/2029	19,493,263	94,884	2,860,800	16,727,347
7/1/2029	16,727,347	81,421	2,860,800	13,947,968
8/1/2029	13,947,968	67,892	2,860,800	11,155,060
9/1/2029	11,155,060	54,298	2,860,800	8,348,558
10/1/2029	8,348,558	40,637	2,898,570	5,490,625
11/1/2029	5,490,625	26,726	2,898,570	2,618,781
12/1/2029	2,618,781	12,747	2,898,570	(267,042)
1/1/2030	(267,042)	(1,300)	2,898,570	(3,166,912)
2/1/2030	(3,166,912)	(15,415)	2,898,570	(6,080,897)
3/1/2030	(6,080,897)	(29,599)	2,898,570	(9,009,066)
4/1/2030	(9,009,066)	(43,852)	2,898,570	(11,951,488)
5/1/2030	(11,951,488)	(58,174)	2,898,570	(14,908,232)
6/1/2030	(14,908,232)	(72,567)	2,898,570	(17,879,369)
7/1/2030	(17,879,369)	(87,029)	2,898,570	(20,864,968)
8/1/2030	(20,864,968)	(101,561)	2,898,570	(23,865,099)
9/1/2030	(23,865,099)	(116,165)	2,898,570	(26,879,834)
10/1/2030	(26,879,834)	(130,839)	2,921,583	(29,932,256)
11/1/2030	(29,932,256)	(145,697)	2,921,583	(32,999,536)
12/1/2030	(32,999,536)	(160,627)	2,921,583	(36,081,746)
1/1/2031	(36,081,746)	(175,630)	2,921,583	(39,178,959)



Investment Return Assumption

6.00%

Number of months benefits sustained Number of years benefits sustained 110 9.1667

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
2/1/2031	(39,178,959)	(190,706)	2,921,583	(42,291,248)
3/1/2031	(42,291,248)	(205,855)	2,921,583	(45,418,686)
4/1/2031	(45,418,686)	(221,078)	2,921,583	(48,561,347)
5/1/2031	(48,561,347)	(236,375)	2,921,583	(51,719,305)
6/1/2031	(51,719,305)	(251,746)	2,921,583	(54,892,634)
7/1/2031	(54,892,634)	(267,193)	2,921,583	(58,081,410)
8/1/2031	(58,081,410)	(282,714)	2,921,583	(61,285,707)
9/1/2031	(61,285,707)	(298,311)	2,921,583	(64,505,601)
10/1/2031	(64,505,601)	(313,984)	2,944,705	(67,764,290)
11/1/2031	(67,764,290)	(329,846)	2,944,705	(71,038,841)
12/1/2031	(71,038,841)	(345,785)	2,944,705	(74,329,331)



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
10/1/2020	225,902,679	1,801,380	2,409,722	225,294,337
11/1/2020	225,294,337	1,796,529	2,409,722	224,681,144
12/1/2020	224,681,144	1,791,639	2,409,722	224,063,061
1/1/2021	224,063,061	1,786,710	2,409,722	223,440,049
2/1/2021	223,440,049	1,781,742	2,409,722	222,812,069
3/1/2021	222,812,069	1,776,735	2,409,722	222,179,082
4/1/2021	222,179,082	1,771,687	2,409,722	221,541,047
5/1/2021	221,541,047	1,766,599	2,409,722	220,897,924
6/1/2021	220,897,924	1,761,471	2,409,722	220,249,673
7/1/2021	220,249,673	1,756,302	2,409,722	219,596,253
8/1/2021	219,596,253	1,751,091	2,409,722	218,937,622
9/1/2021	218,937,622	1,745,839	2,409,722	218,273,739
10/1/2021	218,273,739	1,740,545	2,473,010	217,541,274
11/1/2021	217,541,274	1,734,705	2,473,010	216,802,969
12/1/2021	216,802,969	1,728,817	2,473,010	216,058,776
1/1/2022	216,058,776	1,722,883	2,473,010	215,308,649
2/1/2022	215,308,649	1,716,901	2,473,010	214,552,540
3/1/2022	214,552,540	1,710,872	2,473,010	213,790,402
4/1/2022	213,790,402	1,704,795	2,473,010	213,022,187
5/1/2022	213,022,187	1,698,669	2,473,010	212,247,846
6/1/2022	212,247,846	1,692,494	2,473,010	211,467,330
7/1/2022	211,467,330	1,686,270	2,473,010	210,680,590
8/1/2022	210,680,590	1,679,997	2,473,010	209,887,577
9/1/2022	209,887,577	1,673,673	2,473,010	209,088,240
10/1/2022	209,088,240	1,667,299	2,530,250	208,225,289
11/1/2022	208,225,289	1,660,418	2,530,250	207,355,457
12/1/2022	207,355,457	1,653,482	2,530,250	206,478,689
1/1/2023	206,478,689	1,646,490	2,530,250	205,594,929
2/1/2023	205,594,929	1,639,443	2,530,250	204,704,122
3/1/2023	204,704,122	1,632,339	2,530,250	203,806,211
4/1/2023	203,806,211	1,625,179	2,530,250	202,901,140



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
5/1/2023	202,901,140	1,617,962	2,530,250	201,988,852
6/1/2023	201,988,852	1,610,687	2,530,250	201,069,289
7/1/2023	201,069,289	1,603,355	2,530,250	200,142,394
8/1/2023	200,142,394	1,595,964	2,530,250	199,208,108
9/1/2023	199,208,108	1,588,513	2,530,250	198,266,371
10/1/2023	198,266,371	1,581,004	2,585,797	197,261,578
11/1/2023	197,261,578	1,572,992	2,585,797	196,248,773
12/1/2023	196,248,773	1,564,915	2,585,797	195,227,891
1/1/2024	195,227,891	1,556,775	2,585,797	194,198,869
2/1/2024	194,198,869	1,548,569	2,585,797	193,161,641
3/1/2024	193,161,641	1,540,298	2,585,797	192,116,142
4/1/2024	192,116,142	1,531,961	2,585,797	191,062,306
5/1/2024	191,062,306	1,523,558	2,585,797	190,000,067
6/1/2024	190,000,067	1,515,087	2,585,797	188,929,357
7/1/2024	188,929,357	1,506,549	2,585,797	187,850,109
8/1/2024	187,850,109	1,497,943	2,585,797	186,762,255
9/1/2024	186,762,255	1,489,268	2,585,797	185,665,726
10/1/2024	185,665,726	1,480,525	2,700,722	184,445,529
11/1/2024	184,445,529	1,470,795	2,700,722	183,215,602
12/1/2024	183,215,602	1,460,987	2,700,722	181,975,867
1/1/2025	181,975,867	1,451,101	2,700,722	180,726,246
2/1/2025	180,726,246	1,441,136	2,700,722	179,466,660
3/1/2025	179,466,660	1,431,092	2,700,722	178,197,030
4/1/2025	178,197,030	1,420,968	2,700,722	176,917,276
5/1/2025	176,917,276	1,410,763	2,700,722	175,627,317
6/1/2025	175,627,317	1,400,477	2,700,722	174,327,072
7/1/2025	174,327,072	1,390,109	2,700,722	173,016,459
8/1/2025	173,016,459	1,379,658	2,700,722	171,695,395
9/1/2025	171,695,395	1,369,123	2,700,722	170,363,796
10/1/2025	170,363,796	1,358,505	2,751,558	168,970,743
11/1/2025	168,970,743	1,347,396	2,751,558	167,566,581



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
12/1/2025	167,566,581	1,336,199	2,751,558	166,151,222
1/1/2026	166,151,222	1,324,913	2,751,558	164,724,577
2/1/2026	164,724,577	1,313,537	2,751,558	163,286,556
3/1/2026	163,286,556	1,302,070	2,751,558	161,837,068
4/1/2026	161,837,068	1,290,512	2,751,558	160,376,022
5/1/2026	160,376,022	1,278,861	2,751,558	158,903,325
6/1/2026	158,903,325	1,267,117	2,751,558	157,418,884
7/1/2026	157,418,884	1,255,280	2,751,558	155,922,606
8/1/2026	155,922,606	1,243,349	2,751,558	154,414,397
9/1/2026	154,414,397	1,231,322	2,751,558	152,894,161
10/1/2026	152,894,161	1,219,200	2,791,345	151,322,016
11/1/2026	151,322,016	1,206,663	2,791,345	149,737,334
12/1/2026	149,737,334	1,194,027	2,791,345	148,140,016
1/1/2027	148,140,016	1,181,289	2,791,345	146,529,960
2/1/2027	146,529,960	1,168,450	2,791,345	144,907,065
3/1/2027	144,907,065	1,155,509	2,791,345	143,271,229
4/1/2027	143,271,229	1,142,465	2,791,345	141,622,349
5/1/2027	141,622,349	1,129,316	2,791,345	139,960,320
6/1/2027	139,960,320	1,116,063	2,791,345	138,285,038
7/1/2027	138,285,038	1,102,704	2,791,345	136,596,397
8/1/2027	136,596,397	1,089,239	2,791,345	134,894,291
9/1/2027	134,894,291	1,075,666	2,791,345	133,178,612
10/1/2027	133,178,612	1,061,985	2,822,937	131,417,660
11/1/2027	131,417,660	1,047,943	2,822,937	129,642,666
12/1/2027	129,642,666	1,033,789	2,822,937	127,853,518
1/1/2028	127,853,518	1,019,522	2,822,937	126,050,103
2/1/2028	126,050,103	1,005,141	2,822,937	124,232,307
3/1/2028	124,232,307	990,646	2,822,937	122,400,016
4/1/2028	122,400,016	976,035	2,822,937	120,553,114
5/1/2028	120,553,114	961,307	2,822,937	118,691,484
6/1/2028	118,691,484	946,463	2,822,937	116,815,010



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
7/1/2028	116,815,010	931,499	2,822,937	114,923,572
8/1/2028	114,923,572	916,417	2,822,937	113,017,052
9/1/2028	113,017,052	901,214	2,822,937	111,095,329
10/1/2028	111,095,329	885,890	2,860,800	109,120,419
11/1/2028	109,120,419	870,142	2,860,800	107,129,761
12/1/2028	107,129,761	854,268	2,860,800	105,123,229
1/1/2029	105,123,229	838,267	2,860,800	103,100,696
2/1/2029	103,100,696	822,139	2,860,800	101,062,035
3/1/2029	101,062,035	805,883	2,860,800	99,007,118
4/1/2029	99,007,118	789,497	2,860,800	96,935,815
5/1/2029	96,935,815	772,980	2,860,800	94,847,995
6/1/2029	94,847,995	756,331	2,860,800	92,743,526
7/1/2029	92,743,526	739,550	2,860,800	90,622,276
8/1/2029	90,622,276	722,635	2,860,800	88,484,111
9/1/2029	88,484,111	705,585	2,860,800	86,328,896
10/1/2029	86,328,896	688,399	2,898,570	84,118,725
11/1/2029	84,118,725	670,775	2,898,570	81,890,930
12/1/2029	81,890,930	653,010	2,898,570	79,645,370
1/1/2030	79,645,370	635,103	2,898,570	77,381,903
2/1/2030	77,381,903	617,054	2,898,570	75,100,387
3/1/2030	75,100,387	598,861	2,898,570	72,800,678
4/1/2030	72,800,678	580,523	2,898,570	70,482,631
5/1/2030	70,482,631	562,038	2,898,570	68,146,099
6/1/2030	68,146,099	543,407	2,898,570	65,790,936
7/1/2030	65,790,936	524,626	2,898,570	63,416,992
8/1/2030	63,416,992	505,696	2,898,570	61,024,118
9/1/2030	61,024,118	486,615	2,898,570	58,612,163
10/1/2030	58,612,163	467,382	2,921,583	56,157,962
11/1/2030	56,157,962	447,811	2,921,583	53,684,190
12/1/2030	53,684,190	428,085	2,921,583	51,190,692
1/1/2031	51,190,692	408,202	2,921,583	48,677,311



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
2/1/2031	48,677,311	388,160	2,921,583	46,143,888
3/1/2031	46,143,888	367,958	2,921,583	43,590,263
4/1/2031	43,590,263	347,595	2,921,583	41,016,275
5/1/2031	41,016,275	327,070	2,921,583	38,421,762
6/1/2031	38,421,762	306,381	2,921,583	35,806,560
7/1/2031	35,806,560	285,527	2,921,583	33,170,504
8/1/2031	33,170,504	264,506	2,921,583	30,513,427
9/1/2031	30,513,427	243,318	2,921,583	27,835,162
10/1/2031	27,835,162	221,961	2,944,705	25,112,418
11/1/2031	25,112,418	200,250	2,944,705	22,367,963
12/1/2031	22,367,963	178,365	2,944,705	19,601,623
1/1/2032	19,601,623	156,306	2,944,705	16,813,224
2/1/2032	16,813,224	134,071	2,944,705	14,002,590
3/1/2032	14,002,590	111,659	2,944,705	11,169,544
4/1/2032	11,169,544	89,068	2,944,705	8,313,907
5/1/2032	8,313,907	66,296	2,944,705	5,435,498
6/1/2032	5,435,498	43,343	2,944,705	2,534,136
7/1/2032	2,534,136	20,208	2,944,705	(390,361)
8/1/2032	(390,361)	(3,113)	2,944,705	(3,338,179)
9/1/2032	(3,338,179)	(26,619)	2,944,705	(6,309,503)
10/1/2032	(6,309,503)	(50,313)	2,960,484	(9,320,300)
11/1/2032	(9,320,300)	(74,321)	2,960,484	(12,355,105)
12/1/2032	(12,355,105)	(98,521)	2,960,484	(15,414,110)
1/1/2033	(15,414,110)	(122,914)	2,960,484	(18,497,508)
2/1/2033	(18,497,508)	(147,502)	2,960,484	(21,605,494)
3/1/2033	(21,605,494)	(172,285)	2,960,484	(24,738,263)
4/1/2033	(24,738,263)	(197,266)	2,960,484	(27,896,013)
5/1/2033	(27,896,013)	(222,447)	2,960,484	(31,078,944)
6/1/2033	(31,078,944)	(247,828)	2,960,484	(34,287,256)
7/1/2033	(34,287,256)	(273,411)	2,960,484	(37,521,151)
8/1/2033	(37,521,151)	(299,199)	2,960,484	(40,780,834)



Investment Return Assumption

10.00%

Number of months benefits sustained Number of years benefits sustained 141 11.75

	Market Value of Assets		Expected Benefit	Market Value of Assets
Date	Beginning of Month	Interest	Payments	End of Month
9/1/2033	(40,780,834)	(325,192)	2,960,484	(44,066,510)
10/1/2033	(44,066,510)	(351,393)	2,968,415	(47,386,318)
11/1/2033	(47,386,318)	(377,865)	2,968,415	(50,732,598)
12/1/2033	(50,732,598)	(404,549)	2,968,415	(54,105,562)
1/1/2034	(54,105,562)	(431,445)	2,968,415	(57,505,422)
2/1/2034	(57,505,422)	(458,556)	2,968,415	(60,932,393)
3/1/2034	(60,932,393)	(485,883)	2,968,415	(64,386,691)
4/1/2034	(64,386,691)	(513,429)	2,968,415	(67,868,535)
5/1/2034	(67,868,535)	(541,193)	2,968,415	(71,378,143)
6/1/2034	(71,378,143)	(569,179)	2,968,415	(74,915,737)
7/1/2034	(74,915,737)	(597,389)	2,968,415	(78,481,541)
8/1/2034	(78,481,541)	(625,823)	2,968,415	(82,075,779)
9/1/2034	(82,075,779)	(654,484)	2,968,415	(85,698,678)
10/1/2034	(85,698,678)	(683,373)	2,969,073	(89,351,124)
11/1/2034	(89,351,124)	(712,498)	2,969,073	(93,032,695)
12/1/2034	(93,032,695)	(741,856)	2,969,073	(96,743,624)
1/1/2035	(96,743,624)	(771,447)	2,969,073	(100,484,144)
2/1/2035	(100,484,144)	(801,275)	2,969,073	(104,254,492)
3/1/2035	(104,254,492)	(831,340)	2,969,073	(108,054,905)
4/1/2035	(108,054,905)	(861,645)	2,969,073	(111,885,623)
5/1/2035	(111,885,623)	(892,192)	2,969,073	(115,746,888)
6/1/2035	(115,746,888)	(922,982)	2,969,073	(119,638,943)
7/1/2035	(119,638,943)	(954,018)	2,969,073	(123,562,034)
8/1/2035	(123,562,034)	(985,301)	2,969,073	(127,516,408)
9/1/2035	(127,516,408)	(1,016,834)	2,969,073	(131,502,315)
10/1/2035	(131,502,315)	(1,048,618)	2,968,676	(135,519,609)