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April 17, 2025

Luke Masselink, ASA, EA, MAAA Senior Actuary Washington Office of the State Actuary PO Box 40914 Olympia, WA 98504 Sent via email: luke.masselink@leg.wa.gov

Re: Projected Cash Flows for Investment Income Sensitivities from 2024 Actuarial Valuation Report

Dear Luke:

Per your request, we summarized projected WA Cares Fund investment income cash flows from our 2024 Base Scenario modeling, as well as for the two investment income sensitivities (i.e., -100bps and +100bps annually from Base Scenario) in our 2024 Actuarial Valuation Report. The information in this letter should be considered in the context of the 2024 Actuarial Valuation Report, which should be read in its entirety with this letter.

RESULTS

We attach Exhibit 1 to this letter containing the following projected information by year for state fiscal years 2025 through 2099:

- Undiscounted projected premium, benefit payments, and expenses (expressed in millions of dollars)
- Yearly net program cash flows (excluding investment income), calculated as premium less benefit payments and expenses (expressed in millions of dollars)
- Investment income and fund level at end of year under three scenarios (expressed in millions of dollars):
 - 2024 Base Scenario investment income (i.e., 4.4% in 2024 through 2038, grading down to 4.0% by 2053)
 - Investment income –100bps each year (i.e., 3.4% in 2024 through 2038, grading down to 3.0% by 2053)
 - Investment income +100bps each year (i.e., 5.4% in 2024 through 2038, grading down to 5.0% by 2053)

CAVEATS AND LIMITATIONS

This information is intended for the internal use of the Washington State Office of the State Actuary (OSA) and Washington State Department of Social and Health Services (DSHS) and it should not be distributed, in whole or in part, to any external party without the prior written permission of Milliman, subject to the following exception:

This letter shall be a public record that shall be subject to disclosure to the State Legislature and its committees, persons participating in legislative reviews and deliberations, and parties making a request pursuant to the Washington Public Records Act.

We do not intend this information to benefit any third party even if we permit the distribution of our work product to such third party.

¹ Giese, C. et al. (December 10, 2024). 2024 WA Cares Actuarial Valuation as of June 30, 2024. Milliman Report. Retrieved April 14, 2025, from https://leg.wa.gov/media/riior0zb/report01-wa-cares-actuarial-valuation-as-of-june-30-2024.pdf



Luke Masselink, ASA, EA, MAAA Washington Office of the State Actuary April 17, 2025 Page 2 of 2

This letter provides information related to cash flow projections used in the 2024 Actuarial Valuation Report provided on December 10, 2024, which should be read in its entirety with this letter. In completing this analysis, we relied on information provided by OSA, DSHS, SIB, ESD, and publicly available data. We accepted without audit but reviewed the information for general reasonableness. Our estimates may not be appropriate if this information is not accurate.

Many assumptions were used to construct the estimates in this letter. Actual results will differ from the projections in this letter. Experience should be monitored as it emerges, and corrective actions should be taken when necessary.

Milliman has developed certain models to estimate the values included in this letter. The intent of the models was to evaluate revenues and expenditures for the WA Cares Fund program. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice.

Guidelines issued by the American Academy of Actuaries require actuaries to include their professional qualifications in all actuarial communications. Chris Giese, Annie Gunnlaugsson, and Evan Pollock are members of the American Academy of Actuaries and meet the qualification standards for performing the analyses in this letter.

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Luke, please let us know if you would like to discuss further or have any other questions.

Sincerely,

Christopher J. Giese, FSA, MAAA Principal and Consulting Actuary

CJG/mb

Attachment



EXHIBIT

April 17, 2025 Milliman

			Projected Cash Flows (Undiscounted) - 2024 Base Scenario vs. Investment Income Sensitivities 2024 Base Scenario Investment Income -100bps							Investment	Incomo : 400
					Yearly Net	2024 base Scenario		investment income - roopps		Investment Income +100bps	
ate Fiscal Year	Description	Premium	Benefit Payments	Expenses	Program Cash Flows ¹	Investment Income	Fund Level (End of Year)	Investment Income	Fund Level (End of Year)	Investment Income	Fund Level of Year
2025	Jul 24-Jun 25	\$1,337	\$0	\$47	\$1,290	\$69	\$2,659	\$54	\$2,644	\$83	\$2,674
2026	Jul 25-Jun 26	\$1,416	\$0	\$50	\$1,366	\$132	\$4,157	\$101	\$4,112	\$162	\$4,202
2027	Jul 26-Jun 27	\$1,506	\$1,809	\$116	(\$419)	\$167	\$3,905	\$128	\$3,821	\$207	\$3,990
2028	Jul 27-Jun 28	\$1,609	\$551	\$76	\$982	\$188	\$5,075	\$143	\$4,946	\$235	\$5,207
2029	Jul 28-Jun 29	\$1,730	\$588	\$81	\$1,061	\$233	\$6,370	\$176	\$6,183	\$293	\$6,561
2030	Jul 29-Jun 30	\$1,850	\$627	\$87	\$1,136	\$291	\$7,797	\$219	\$7,538	\$366	\$8,064
2031	Jul 30-Jun 31	\$1,971	\$731	\$95	\$1,146	\$353	\$9,295	\$264	\$8,948	\$446	\$9,655
2032	Jul 31-Jun 32	\$2,099	\$807	\$102	\$1,190	\$418	\$10,903	\$312	\$10,450	\$532	\$11,37
2033	Jul 32-Jun 33	\$2,237	\$892 \$981	\$110 \$118	\$1,236 \$1,279	\$489 \$565	\$12,628	\$363 \$418	\$12,049	\$624 \$724	\$13,23 \$15,24
2034	Jul 33-Jun 34	\$2,377		\$118 \$125		\$505 \$645	\$14,472	\$418 \$475	\$13,746	\$72 4 \$831	
2035	Jul 34-Jun 35 Jul 35-Jun 36	\$2,502 \$2,632	\$1,070 \$1,179	\$125 \$133	\$1,307 \$1.320	\$730	\$16,423 \$18,473	\$475 \$535	\$15,528 \$17,383	\$945	\$17,376 \$19.64
2037	Jul 36-Jun 37	\$2,767	\$1,179	\$142	\$1,330	\$819	\$20,622	\$598	\$19,310	\$1,066	\$22,03
2038	Jul 37-Jun 38	\$2,910	\$1,422	\$152	\$1,337	\$913	\$22.872	\$663	\$21.310	\$1,194	\$24.56
2039	Jul 38-Jun 39	\$3.061	\$1.557	\$162	\$1,342	\$1.011	\$25.225	\$730	\$23,382	\$1,329	\$27.23
2040	Jul 39-Jun 40	\$3,215	\$1,704	\$172	\$1,340	\$1,108	\$27,673	\$795	\$25,502	\$1,465	\$30,04
2041	Jul 40-Jun 41	\$3,376	\$1.863	\$183	\$1,330	\$1,207	\$30.211	\$860	\$27,708	\$1,606	\$32.98
2042	Jul 41-Jun 42	\$3,545	\$2,028	\$195	\$1,322	\$1,308	\$32,841	\$925	\$29,955	\$1,753	\$36,05
2043	Jul 42-Jun 43	\$3,721	\$2,223	\$208	\$1,290	\$1,412	\$35.542	\$991	\$32,236	\$1,904	\$39.25
2044	Jul 43-Jun 44	\$3,904	\$2,430	\$222	\$1,252	\$1,517	\$38,311	\$1,057	\$34,545	\$2,061	\$42,56
2045	Jul 44-Jun 45	\$4,095	\$2,652	\$236	\$1,207	\$1,623	\$41,142	\$1,122	\$36,875	\$2,221	\$45,99
2046	Jul 45-Jun 46	\$4,292	\$2,886	\$251	\$1,155	\$1,731	\$44,027	\$1,187	\$39,217	\$2,386	\$49,53
2047	Jul 46-Jun 47	\$4,496	\$3,136	\$267	\$1,092	\$1,839	\$46,959	\$1,251	\$41,561	\$2,555	\$53,18
2048	Jul 47-Jun 48	\$4,707	\$3,403	\$284	\$1,020	\$1,948	\$49,927	\$1,314	\$43,895	\$2,727	\$56,92
2049	Jul 48-Jun 49	\$4,927	\$3,688	\$302	\$938	\$2,056	\$52,921	\$1,375	\$46,208	\$2,902	\$60,76
2050	Jul 49-Jun 50	\$5,155	\$3,989	\$320	\$846	\$2,164	\$55,930	\$1,434	\$48,488	\$3,080	\$64,69
2051	Jul 50-Jun 51	\$5,391	\$4,308	\$339	\$743	\$2,270	\$58,944	\$1,491	\$50,722	\$3,260	\$68,69
2052	Jul 51-Jun 52	\$5,635	\$4,645	\$360	\$631	\$2,376	\$61,950	\$1,545	\$52,897	\$3,442	\$72,77
2053	Jul 52-Jun 53	\$5,887	\$5,000	\$381	\$507	\$2,479	\$64,936	\$1,596	\$55,000	\$3,625	\$76,90
2054	Jul 53-Jun 54	\$6,149	\$5,370	\$403	\$375	\$2,580	\$67,891	\$1,644	\$57,019	\$3,809	\$81,08
2055	Jul 54-Jun 55	\$6,417	\$5,757	\$426	\$234	\$2,691	\$70,817	\$1,699	\$58,953	\$4,009	\$85,32
2056	Jul 55-Jun 56	\$6,694	\$6,160	\$450	\$84	\$2,806	\$73,707	\$1,756	\$60,793	\$4,216	\$89,63
2057	Jul 56-Jun 57	\$6,978	\$6,579	\$474	(\$75)	\$2,919	\$76,550	\$1,809	\$62,527	\$4,427	\$93,98
2058	Jul 57-Jun 58	\$7,271	\$7,016	\$500	(\$245)	\$3,030	\$79,335	\$1,860	\$64,142	\$4,640	\$98,37
2059	Jul 58-Jun 59	\$7,574	\$7,471	\$527	(\$424)	\$3,138	\$82,049	\$1,906	\$65,624	\$4,854	\$102,80
2060	Jul 59-Jun 60	\$7,929	\$7,942	\$555	(\$568)	\$3,244	\$84,725	\$1,950	\$67,006	\$5,072	\$107,3
2061	Jul 60-Jun 61	\$8,295	\$8,429	\$585	(\$719)	\$3,349	\$87,354	\$1,990	\$68,277	\$5,292	\$111,88
2062	Jul 61-Jun 62	\$8,672	\$8,934	\$616	(\$879)	\$3,451	\$89,927	\$2,026	\$69,424	\$5,516	\$116,52
2063 2064	Jul 62-Jun 63	\$9,062	\$9,456	\$648 \$681	(\$1,043)	\$3,551	\$92,435	\$2,059	\$70,440	\$5,743	\$121,22
2064	Jul 63-Jun 64 Jul 64-Jun 65	\$9,464 \$9,879	\$9,995 \$10,551	\$681 \$715	(\$1,212) (\$1,387)	\$3,649 \$3,744	\$94,872 \$97,229	\$2,088 \$2.113	\$71,317 \$72.042	\$5,973 \$6,206	\$125,98 \$130.80
2065	Jul 65-Jun 66	\$10,306	\$11,125	\$750	(\$1,569)	\$3,835	\$97,229	\$2,133	\$72,606	\$6,442	\$135,67
2066	Jul 66-Jun 67	\$10,306	\$11,715	\$750 \$786	(\$1,755)	\$3,033	\$99,495 \$101.663	\$2,133 \$2.148	\$72,000	\$6,680	\$140,59
2068	Jul 67-Jun 68	\$10,740	\$12.327	\$823	(\$1,755)	\$4.007	\$103,720	\$2,140	\$73,000	\$6,921	\$145.56
2069	Jul 68-Jun 69	\$11,667	\$12,956	\$862	(\$1,550)	\$4,007	\$105,656	\$2,163	\$73,200	\$7,164	\$150,58
2070	Jul 69-Jun 70	\$12,147	\$12,930	\$901	(\$2,150)	\$4,000	\$107,650	\$2,162	\$73,027	\$7,104	\$155,63
2071	Jul 70-Jun 71	\$12,642	\$14,264	\$942	(\$2,563)	\$4,230	\$109,127	\$2,155	\$72,618	\$7,656	\$160,72
2072	Jul 71-Jun 72	\$13,150	\$14,204	\$983	(\$2,773)	\$4,294	\$110,648	\$2,141	\$72,010	\$7,905	\$165.86
2072	Jul 72-Jun 73	\$13,670	\$15,631	\$1,026	(\$2,987)	\$4,352	\$112,013	\$2,120	\$71,119	\$8,155	\$171,02
2074	Jul 73-Jun 74	\$14.205	\$16.338	\$1,069	(\$3,202)	\$4,404	\$113.215	\$2.093	\$70,010	\$8.408	\$176.23
2075	Jul 74-Jun 75	\$14,755	\$17,059	\$1,114	(\$3,418)	\$4,449	\$114,246	\$2,058	\$68,650	\$8,663	\$181,47
2076	Jul 75-Jun 76	\$15,322	\$17,796	\$1,159	(\$3,633)	\$4,488	\$115,101	\$2,016	\$67,033	\$8,919	\$186,76
2077	Jul 76-Jun 77	\$15,903	\$18,547	\$1,206	(\$3,849)	\$4,520	\$115,771	\$1,966	\$65,150	\$9,177	\$192,09
2078	Jul 77-Jun 78	\$16,500	\$19,313	\$1,253	(\$4,067)	\$4,544	\$116,249	\$1,908	\$62,991	\$9,438	\$197,46
2079	Jul 78-Jun 79	\$17,116	\$20,094	\$1,302	(\$4,280)	\$4,561	\$116,529	\$1,843	\$60,554	\$9,700	\$202,88
2080	Jul 79-Jun 80	\$17,751	\$20,888	\$1,352	(\$4,489)	\$4,570	\$116,609	\$1,768	\$57,833	\$9,965	\$208,36
2081	Jul 80-Jun 81	\$18,410	\$21,698	\$1,404	(\$4,692)	\$4,571	\$116,488	\$1,686	\$54,826	\$10,233	\$213,90
2082	Jul 81-Jun 82	\$19,090	\$22,524	\$1,457	(\$4,891)	\$4,564	\$116,161	\$1,595	\$51,530	\$10,505	\$219,5
2083	Jul 82-Jun 83	\$19,795	\$23,367	\$1,511	(\$5,082)	\$4,549	\$115,628	\$1,495	\$47,943	\$10,780	\$225,2
2084	Jul 83-Jun 84	\$20,526	\$24,226	\$1,566	(\$5,267)	\$4,526	\$114,887	\$1,387	\$44,063	\$11,059	\$231,0
2085	Jul 84-Jun 85	\$21,283	\$25,102	\$1,623	(\$5,443)	\$4,495	\$113,939	\$1,270	\$39,890	\$11,343	\$236,90
2086	Jul 85-Jun 86	\$22,068	\$25,996	\$1,682	(\$5,611)	\$4,456	\$112,784	\$1,144	\$35,424	\$11,632	\$242,92
2087	Jul 86-Jun 87	\$22,881	\$26,909	\$1,743	(\$5,770)	\$4,408	\$111,422	\$1,010	\$30,664	\$11,928	\$249,08
2088	Jul 87-Jun 88	\$23,725	\$27,841	\$1,805	(\$5,921)	\$4,353	\$109,854	\$867	\$25,611	\$12,230	\$255,39
2089	Jul 88-Jun 89	\$24,603	\$28,792	\$1,869	(\$6,058)	\$4,289	\$108,086	\$716	\$20,269	\$12,540	\$261,87
2090	Jul 89-Jun 90	\$25,515	\$29,764	\$1,935	(\$6,184)	\$4,218	\$106,120	\$556	\$14,641	\$12,859	\$268,55
2091	Jul 90-Jun 91	\$26,463	\$30,737	\$2,002	(\$6,276)	\$4,139	\$103,983	\$388	\$8,752	\$13,188	\$275,46
2092	Jul 91-Jun 92	\$27,447	\$31,749	\$2,072	(\$6,374)	\$4,054	\$101,663	\$211	\$2,590	\$13,528	\$282,6
2093	Jul 92-Jun 93	\$28,468	\$32,781	\$2,144	(\$6,456)	\$3,961	\$99,168	\$27	Account depleted	\$13,880	\$290,04
2094	Jul 93-Jun 94	\$29,528	\$33,815	\$2,217	(\$6,504)	\$3,862	\$96,525	Account depleted	Account depleted	\$14,247	\$297,78
2095	Jul 94-Jun 95	\$30,625	\$34,889	\$2,293	(\$6,557)	\$3,757	\$93,725	Account depleted	Account depleted	\$14,629	\$305,85
2096	Jul 95-Jun 96	\$31,794	\$35,980	\$2,372	(\$6,559)	\$3,646	\$90,812	Account depleted	Account depleted	\$15,028	\$314,32
2097	Jul 96-Jun 97	\$33,004	\$37,085	\$2,453	(\$6,534)	\$3,531	\$87,809	Account depleted	Account depleted	\$15,447	\$323,23
2098	Jul 97-Jun 98	\$34,258	\$38,205	\$2,536	(\$6,483)	\$3,412	\$84,739	Account depleted	Account depleted	\$15,888	\$332,64
2099	Jul 98-Jun 99	\$35,555	\$39,344	\$2,621	(\$6,411)	\$3,292	\$81,619	Account depleted	Account depleted	\$16,354	\$342,58

4/17/2025 Milliman