

Montana State Retirement System																	
Sheriffs' Retirement System																	
100% Joint Life Annuity Factors with Popup																	
Member Mortality: PubS-2010 Healthy Retiree; Adjusted 105%Male/100%Female; Males Set Forward 1 year; MP-2021 - Projected to 2040																	
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040																	
Male/Female Mix: 85% Male, 15% Female																	
Interest: 7.30% per year																	
Post-Retirement COLA: 1.50% per year																	
Service Retirement																	
Age of Contingent Annuitant																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	0.9915	0.9917	0.9919	0.9921	0.9923	0.9926	0.9928	0.9930	0.9932	0.9934	0.9935	0.9937	0.9939	0.9941	0.9942	0.9944	0.9946
2	0.9909	0.9911	0.9914	0.9916	0.9918	0.9920	0.9923	0.9925	0.9927	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9941	0.9943
3	0.9902	0.9905	0.9907	0.9910	0.9912	0.9915	0.9917	0.9919	0.9922	0.9924	0.9926	0.9928	0.9930	0.9932	0.9934	0.9936	0.9938
4	0.9895	0.9898	0.9900	0.9903	0.9905	0.9908	0.9911	0.9913	0.9916	0.9918	0.9920	0.9923	0.9925	0.9927	0.9929	0.9931	0.9933
5	0.9887	0.9890	0.9893	0.9895	0.9898	0.9901	0.9904	0.9906	0.9909	0.9912	0.9914	0.9917	0.9919	0.9922	0.9924	0.9926	0.9928
6	0.9879	0.9882	0.9884	0.9887	0.9890	0.9893	0.9896	0.9899	0.9902	0.9905	0.9907	0.9910	0.9913	0.9915	0.9918	0.9920	0.9923
7	0.9870	0.9873	0.9876	0.9879	0.9882	0.9885	0.9888	0.9891	0.9894	0.9897	0.9900	0.9903	0.9906	0.9909	0.9911	0.9914	0.9917
8	0.9860	0.9863	0.9866	0.9869	0.9873	0.9876	0.9879	0.9882	0.9885	0.9889	0.9892	0.9895	0.9898	0.9901	0.9904	0.9907	0.9910
9	0.9849	0.9852	0.9856	0.9859	0.9862	0.9866	0.9869	0.9873	0.9876	0.9880	0.9883	0.9886	0.9890	0.9893	0.9896	0.9899	0.9902
10	0.9838	0.9841	0.9845	0.9848	0.9852	0.9855	0.9859	0.9863	0.9866	0.9870	0.9873	0.9877	0.9881	0.9884	0.9888	0.9891	0.9894
11	0.9826	0.9829	0.9833	0.9837	0.9840	0.9844	0.9848	0.9852	0.9856	0.9859	0.9863	0.9867	0.9871	0.9875	0.9878	0.9882	0.9885
12	0.9813	0.9817	0.9821	0.9824	0.9828	0.9832	0.9836	0.9840	0.9844	0.9848	0.9852	0.9856	0.9860	0.9864	0.9868	0.9872	0.9876
13	0.9800	0.9804	0.9807	0.9811	0.9815	0.9819	0.9824	0.9828	0.9832	0.9836	0.9840	0.9845	0.9849	0.9853	0.9857	0.9862	0.9866
14	0.9786	0.9790	0.9794	0.9798	0.9802	0.9806	0.9810	0.9815	0.9819	0.9824	0.9828	0.9833	0.9837	0.9842	0.9846	0.9850	0.9855
15	0.9771	0.9775	0.9779	0.9783	0.9787	0.9792	0.9796	0.9801	0.9805	0.9810	0.9815	0.9820	0.9824	0.9829	0.9834	0.9839	0.9843
16	0.9755	0.9760	0.9764	0.9768	0.9772	0.9777	0.9782	0.9786	0.9791	0.9796	0.9801	0.9806	0.9811	0.9816	0.9821	0.9826	0.9831
17	0.9740	0.9744	0.9748	0.9753	0.9757	0.9762	0.9767	0.9771	0.9776	0.9781	0.9787	0.9792	0.9797	0.9802	0.9808	0.9813	0.9818
18	0.9723	0.9727	0.9732	0.9736	0.9741	0.9746	0.9751	0.9756	0.9761	0.9766	0.9772	0.9777	0.9783	0.9788	0.9794	0.9799	0.9805
19	0.9706	0.9710	0.9715	0.9720	0.9724	0.9729	0.9734	0.9740	0.9745	0.9750	0.9756	0.9762	0.9767	0.9773	0.9779	0.9785	0.9791
20	0.9688	0.9692	0.9697	0.9702	0.9707	0.9712	0.9717	0.9722	0.9728	0.9733	0.9739	0.9745	0.9751	0.9757	0.9763	0.9769	0.9775
21	0.9668	0.9673	0.9678	0.9683	0.9688	0.9693	0.9698	0.9704	0.9710	0.9715	0.9721	0.9727	0.9734	0.9740	0.9746	0.9753	0.9759
22	0.9648	0.9653	0.9657	0.9663	0.9668	0.9673	0.9679	0.9684	0.9690	0.9696	0.9702	0.9708	0.9715	0.9721	0.9728	0.9735	0.9741
23	0.9626	0.9631	0.9636	0.9641	0.9646	0.9652	0.9657	0.9663	0.9669	0.9675	0.9682	0.9688	0.9695	0.9701	0.9708	0.9715	0.9722
24	0.9603	0.9608	0.9613	0.9618	0.9624	0.9629	0.9635	0.9641	0.9647	0.9653	0.9660	0.9666	0.9673	0.9680	0.9687	0.9695	0.9702
25	0.9578	0.9583	0.9589	0.9594	0.9599	0.9605	0.9611	0.9617	0.9623	0.9630	0.9637	0.9643	0.9650	0.9658	0.9665	0.9672	0.9680
26	0.9553	0.9558	0.9563	0.9568	0.9574	0.9580	0.9586	0.9592	0.9599	0.9605	0.9612	0.9619	0.9626	0.9634	0.9641	0.9649	0.9657
27	0.9526	0.9531	0.9536	0.9542	0.9547	0.9553	0.9559	0.9566	0.9572	0.9579	0.9586	0.9593	0.9601	0.9608	0.9616	0.9624	0.9632
28	0.9497	0.9502	0.9508	0.9513	0.9519	0.9525	0.9531	0.9538	0.9545	0.9551	0.9559	0.9566	0.9574	0.9581	0.9589	0.9598	0.9606
29	0.9467	0.9472	0.9478	0.9484	0.9489	0.9496	0.9502	0.9509	0.9515	0.9522	0.9530	0.9537	0.9545	0.9553	0.9561	0.9570	0.9578
30	0.9435	0.9441	0.9446	0.9452	0.9458	0.9464	0.9471	0.9478	0.9484	0.9492	0.9499	0.9507	0.9515	0.9523	0.9531	0.9540	0.9549
31	0.9402	0.9408	0.9413	0.9419	0.9425	0.9431	0.9438	0.9445	0.9452	0.9459	0.9467	0.9475	0.9483	0.9491	0.9500	0.9509	0.9518
32	0.9367	0.9372	0.9378	0.9384	0.9390	0.9397	0.9403	0.9410	0.9418	0.9425	0.9433	0.9441	0.9449	0.9457	0.9466	0.9475	0.9485
33	0.9330	0.9336	0.9341	0.9347	0.9354	0.9360	0.9367	0.9374	0.9381	0.9389	0.9397	0.9405	0.9413	0.9422	0.9431	0.9440	0.9450
34	0.9291	0.9297	0.9303	0.9309	0.9315	0.9322	0.9328	0.9336	0.9343	0.9351	0.9359	0.9367	0.9375	0.9384	0.9393	0.9403	0.9413
35	0.9250	0.9256	0.9262	0.9268	0.9274	0.9281	0.9288	0.9295	0.9303	0.9310	0.9318	0.9327	0.9335	0.9344	0.9354	0.9363	0.9373
36	0.9207	0.9212	0.9218	0.9225	0.9231	0.9238	0.9245	0.9252	0.9260	0.9268	0.9276	0.9284	0.9293	0.9302	0.9312	0.9322	0.9332
37	0.9161	0.9167	0.9173	0.9179	0.9186	0.9192	0.9200	0.9207	0.9215	0.9223	0.9231	0.9240	0.9249	0.9258	0.9267	0.9277	0.9288
38	0.9113	0.9119	0.9125	0.9131	0.9138	0.9145	0.9152	0.9159	0.9167	0.9175	0.9183	0.9192	0.9201	0.9211	0.9220	0.9231	0.9241
39	0.9062	0.9068	0.9074	0.9080	0.9087	0.9094	0.9101	0.9109	0.9117	0.9125	0.9133	0.9142	0.9151	0.9161	0.9171	0.9181	0.9192
40	0.9008	0.9014	0.9020	0.9027	0.9033	0.9040	0.9048	0.9055	0.9063	0.9071	0.9080	0.9089	0.9098	0.9108	0.9118	0.9128	0.9139
41	0.8951	0.8957	0.8963	0.8970	0.8977	0.8984	0.8991	0.8999	0.9007	0.9015	0.9024	0.9033	0.9042	0.9052	0.9062	0.9073	0.9084
42	0.8891	0.8897	0.8903	0.8910	0.8917	0.8924	0.8931	0.8939	0.8947	0.8955	0.8964	0.8973					

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Interest: 7.30% per year																	
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Service Retirement																	
Age of Contingent Annuitant	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
1	0.9947	0.9949	0.9950	0.9951	0.9953	0.9954	0.9955	0.9956	0.9958	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964	0.9965	0.9966
2	0.9944	0.9945	0.9947	0.9949	0.9950	0.9951	0.9953	0.9954	0.9955	0.9956	0.9958	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
3	0.9940	0.9942	0.9943	0.9945	0.9947	0.9948	0.9950	0.9951	0.9952	0.9954	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962
4	0.9935	0.9937	0.9939	0.9941	0.9943	0.9944	0.9946	0.9948	0.9949	0.9950	0.9952	0.9953	0.9955	0.9956	0.9957	0.9958	0.9959
5	0.9931	0.9933	0.9935	0.9937	0.9938	0.9940	0.9942	0.9944	0.9945	0.9947	0.9948	0.9950	0.9951	0.9953	0.9954	0.9955	0.9956
6	0.9925	0.9927	0.9930	0.9932	0.9934	0.9936	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952	0.9953
7	0.9919	0.9922	0.9924	0.9926	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9940	0.9942	0.9944	0.9946	0.9947	0.9949	0.9950
8	0.9913	0.9915	0.9918	0.9920	0.9923	0.9925	0.9928	0.9930	0.9932	0.9934	0.9936	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946
9	0.9905	0.9908	0.9911	0.9914	0.9917	0.9919	0.9922	0.9924	0.9926	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9940	0.9942
10	0.9897	0.9901	0.9904	0.9907	0.9910	0.9912	0.9915	0.9918	0.9920	0.9923	0.9925	0.9927	0.9930	0.9932	0.9934	0.9936	0.9939
11	0.9889	0.9892	0.9896	0.9899	0.9902	0.9905	0.9908	0.9911	0.9914	0.9916	0.9919	0.9922	0.9924	0.9926	0.9929	0.9931	0.9933
12	0.9880	0.9883	0.9887	0.9891	0.9894	0.9897	0.9901	0.9904	0.9907	0.9910	0.9912	0.9915	0.9918	0.9920	0.9923	0.9925	0.9928
13	0.9870	0.9874	0.9878	0.9882	0.9885	0.9889	0.9892	0.9896	0.9899	0.9902	0.9905	0.9908	0.9911	0.9914	0.9917	0.9919	0.9922
14	0.9859	0.9863	0.9868	0.9872	0.9876	0.9880	0.9884	0.9887	0.9891	0.9894	0.9898	0.9901	0.9904	0.9907	0.9910	0.9913	0.9916
15	0.9848	0.9852	0.9857	0.9861	0.9866	0.9870	0.9874	0.9878	0.9882	0.9886	0.9890	0.9893	0.9897	0.9900	0.9903	0.9906	0.9909
16	0.9836	0.9841	0.9846	0.9850	0.9855	0.9860	0.9864	0.9869	0.9873	0.9877	0.9881	0.9885	0.9889	0.9892	0.9896	0.9899	0.9902
17	0.9823	0.9829	0.9834	0.9839	0.9844	0.9849	0.9854	0.9859	0.9863	0.9868	0.9872	0.9876	0.9880	0.9884	0.9888	0.9892	0.9895
18	0.9810	0.9816	0.9822	0.9827	0.9832	0.9838	0.9843	0.9848	0.9853	0.9858	0.9863	0.9867	0.9872	0.9876	0.9880	0.9884	0.9888
19	0.9797	0.9803	0.9808	0.9814	0.9820	0.9826	0.9831	0.9837	0.9842	0.9848	0.9853	0.9858	0.9863	0.9867	0.9872	0.9876	0.9880
20	0.9782	0.9788	0.9794	0.9800	0.9807	0.9813	0.9819	0.9825	0.9830	0.9836	0.9842	0.9847	0.9852	0.9857	0.9862	0.9867	0.9872
21	0.9766	0.9772	0.9779	0.9785	0.9792	0.9798	0.9805	0.9811	0.9817	0.9824	0.9830	0.9836	0.9841	0.9847	0.9852	0.9857	0.9862
22	0.9748	0.9755	0.9762	0.9769	0.9776	0.9783	0.9790	0.9797	0.9803	0.9810	0.9816	0.9823	0.9829	0.9835	0.9841	0.9847	0.9852
23	0.9730	0.9737	0.9744	0.9751	0.9759	0.9766	0.9773	0.9781	0.9788	0.9795	0.9802	0.9809	0.9815	0.9822	0.9828	0.9835	0.9841
24	0.9709	0.9717	0.9725	0.9732	0.9740	0.9748	0.9756	0.9763	0.9771	0.9779	0.9786	0.9793	0.9801	0.9808	0.9814	0.9821	0.9828
25	0.9688	0.9696	0.9704	0.9712	0.9720	0.9728	0.9736	0.9744	0.9753	0.9761	0.9769	0.9777	0.9784	0.9792	0.9799	0.9807	0.9814
26	0.9665	0.9673	0.9681	0.9690	0.9698	0.9707	0.9716	0.9724	0.9733	0.9741	0.9750	0.9758	0.9767	0.9775	0.9783	0.9791	0.9798
27	0.9641	0.9649	0.9658	0.9667	0.9675	0.9684	0.9693	0.9703	0.9712	0.9721	0.9730	0.9739	0.9748	0.9756	0.9765	0.9773	0.9782
28	0.9615	0.9623	0.9632	0.9642	0.9651	0.9660	0.9670	0.9679	0.9689	0.9698	0.9708	0.9718	0.9727	0.9736	0.9746	0.9755	0.9764
29	0.9587	0.9596	0.9606	0.9615	0.9625	0.9635	0.9644	0.9654	0.9664	0.9675	0.9685	0.9695	0.9705	0.9715	0.9725	0.9735	0.9744
30	0.9558	0.9567	0.9577	0.9587	0.9597	0.9607	0.9617	0.9628	0.9638	0.9649	0.9660	0.9670	0.9681	0.9692	0.9702	0.9712	0.9722
31	0.9527	0.9537	0.9547	0.9557	0.9567	0.9578	0.9588	0.9599	0.9610	0.9621	0.9633	0.9644	0.9655	0.9666	0.9678	0.9689	0.9700
32	0.9494	0.9504	0.9514	0.9525	0.9535	0.9546	0.9557	0.9569	0.9580	0.9592	0.9604	0.9615	0.9627	0.9639	0.9651	0.9663	0.9675
33	0.9460	0.9470	0.9480	0.9491	0.9502	0.9513	0.9525	0.9536	0.9548	0.9560	0.9572	0.9585	0.9597	0.9610	0.9622	0.9635	0.9647
34	0.9423	0.9433	0.9444	0.9455	0.9466	0.9478	0.9489	0.9502	0.9514	0.9526	0.9539	0.9552	0.9565	0.9578	0.9591	0.9605	0.9618
35	0.9384	0.9394	0.9405	0.9416	0.9428	0.9440	0.9452	0.9465	0.9477	0.9490	0.9504	0.9517	0.9531	0.9544	0.9558	0.9572	0.9586
36	0.9342	0.9353	0.9364	0.9376	0.9388	0.9400	0.9412	0.9425	0.9438	0.9452	0.9466	0.9480	0.9494	0.9508	0.9523	0.9537	0.9552
37	0.9298	0.9309	0.9321	0.9333	0.9345	0.9357	0.9370	0.9383	0.9397	0.9411	0.9425	0.9439	0.9454	0.9469	0.9484	0.9499	0.9515
38	0.9252	0.9263	0.9275	0.9287	0.9299	0.9312	0.9325	0.9339	0.9353	0.9367	0.9381	0.9396	0.9411	0.9427	0.9443	0.9459	0.9475
39	0.9203	0.9214	0.9226	0.9238	0.9251	0.9264	0.9277	0.9291	0.9305	0.9320	0.9335	0.9350	0.9366	0.9382	0.9398	0.9415	0.9432
40	0.9150	0.9162	0.9174	0.9186	0.9199	0.9213	0.9226	0.9240	0.9255	0.9270	0.9285	0.9301	0.9317	0.9334	0.9351	0.9368	0.9385
41	0.9095	0.9107	0.9119	0.9131	0.9145	0.9158	0.9172	0.9186	0.9201	0.9217	0.9232	0.9249	0.9265	0.9282	0.9300	0.9317	0.9335
42	0.9036	0.9048	0.9060														

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Age of Contingent Annuitant																
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9971	0.9972	0.9973	0.9974	0.9974	0.9975	0.9976	0.9976	0.9977	0.9978
2	0.9965	0.9966	0.9967	0.9968	0.9968	0.9969	0.9970	0.9971	0.9972	0.9972	0.9973	0.9974	0.9975	0.9975	0.9976	0.9977
3	0.9963	0.9964	0.9965	0.9966	0.9967	0.9968	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9973	0.9974	0.9975	0.9976
4	0.9960	0.9962	0.9963	0.9964	0.9965	0.9966	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9972	0.9973	0.9974
5	0.9958	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9972
6	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971
7	0.9952	0.9953	0.9954	0.9956	0.9957	0.9958	0.9959	0.9960	0.9961	0.9963	0.9964	0.9965	0.9966	0.9967	0.9968	0.9969
8	0.9948	0.9949	0.9951	0.9952	0.9954	0.9955	0.9956	0.9958	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964	0.9965	0.9966
9	0.9944	0.9946	0.9947	0.9949	0.9950	0.9952	0.9953	0.9954	0.9956	0.9957	0.9958	0.9959	0.9960	0.9962	0.9963	0.9964
10	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952	0.9954	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961
11	0.9935	0.9937	0.9939	0.9940	0.9942	0.9944	0.9945	0.9947	0.9949	0.9950	0.9951	0.9953	0.9954	0.9955	0.9957	0.9958
12	0.9930	0.9932	0.9934	0.9936	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952	0.9954	0.9955
13	0.9924	0.9926	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9940	0.9942	0.9944	0.9945	0.9947	0.9949	0.9950	0.9952
14	0.9918	0.9921	0.9923	0.9926	0.9928	0.9930	0.9932	0.9934	0.9936	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948
15	0.9912	0.9915	0.9917	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9941	0.9943	0.9944
16	0.9905	0.9908	0.9911	0.9914	0.9917	0.9919	0.9922	0.9924	0.9927	0.9929	0.9931	0.9933	0.9935	0.9937	0.9939	0.9941
17	0.9899	0.9902	0.9905	0.9908	0.9911	0.9914	0.9917	0.9919	0.9922	0.9924	0.9927	0.9929	0.9931	0.9933	0.9935	0.9937
18	0.9892	0.9896	0.9899	0.9902	0.9906	0.9909	0.9912	0.9915	0.9917	0.9920	0.9922	0.9925	0.9927	0.9930	0.9932	0.9934
19	0.9885	0.9888	0.9892	0.9896	0.9899	0.9903	0.9906	0.9909	0.9912	0.9915	0.9918	0.9921	0.9923	0.9926	0.9928	0.9930
20	0.9876	0.9881	0.9885	0.9889	0.9893	0.9896	0.9900	0.9903	0.9907	0.9910	0.9913	0.9916	0.9919	0.9921	0.9924	0.9927
21	0.9867	0.9872	0.9877	0.9881	0.9885	0.9889	0.9893	0.9897	0.9901	0.9904	0.9907	0.9911	0.9914	0.9917	0.9920	0.9922
22	0.9857	0.9863	0.9868	0.9872	0.9877	0.9881	0.9886	0.9890	0.9894	0.9898	0.9901	0.9905	0.9908	0.9911	0.9915	0.9918
23	0.9846	0.9852	0.9857	0.9863	0.9868	0.9873	0.9877	0.9882	0.9886	0.9890	0.9894	0.9898	0.9902	0.9905	0.9909	0.9912
24	0.9834	0.9840	0.9846	0.9852	0.9857	0.9863	0.9868	0.9873	0.9878	0.9882	0.9887	0.9891	0.9895	0.9899	0.9902	0.9906
25	0.9821	0.9827	0.9834	0.9840	0.9846	0.9852	0.9858	0.9863	0.9868	0.9873	0.9878	0.9883	0.9887	0.9891	0.9895	0.9899
26	0.9806	0.9813	0.9820	0.9827	0.9834	0.9840	0.9846	0.9852	0.9858	0.9863	0.9869	0.9874	0.9879	0.9883	0.9888	0.9892
27	0.9790	0.9798	0.9805	0.9813	0.9820	0.9827	0.9834	0.9840	0.9847	0.9853	0.9858	0.9864	0.9869	0.9874	0.9879	0.9884
28	0.9772	0.9781	0.9789	0.9797	0.9805	0.9813	0.9820	0.9827	0.9834	0.9841	0.9847	0.9853	0.9859	0.9865	0.9870	0.9875
29	0.9754	0.9763	0.9772	0.9781	0.9789	0.9797	0.9805	0.9813	0.9821	0.9828	0.9835	0.9842	0.9848	0.9854	0.9860	0.9866
30	0.9733	0.9743	0.9753	0.9762	0.9771	0.9780	0.9789	0.9798	0.9806	0.9814	0.9821	0.9829	0.9836	0.9842	0.9849	0.9855
31	0.9711	0.9721	0.9732	0.9742	0.9752	0.9762	0.9771	0.9781	0.9789	0.9798	0.9806	0.9814	0.9822	0.9830	0.9837	0.9844
32	0.9686	0.9698	0.9709	0.9720	0.9731	0.9741	0.9752	0.9762	0.9771	0.9781	0.9790	0.9799	0.9807	0.9815	0.9823	0.9831
33	0.9660	0.9672	0.9684	0.9696	0.9708	0.9719	0.9730	0.9741	0.9752	0.9762	0.9772	0.9781	0.9791	0.9800	0.9808	0.9817
34	0.9631	0.9644	0.9657	0.9670	0.9682	0.9695	0.9707	0.9719	0.9730	0.9741	0.9752	0.9762	0.9773	0.9782	0.9792	0.9801
35	0.9600	0.9614	0.9628	0.9641	0.9655	0.9668	0.9681	0.9694	0.9706	0.9718	0.9730	0.9741	0.9752	0.9763	0.9773	0.9783
36	0.9566	0.9581	0.9596	0.9610	0.9625	0.9639	0.9653	0.9667	0.9680	0.9693	0.9706	0.9718	0.9730	0.9742	0.9753	0.9764
37	0.9530	0.9546	0.9561	0.9577	0.9592	0.9607	0.9622	0.9637	0.9651	0.9665	0.9679	0.9693	0.9706	0.9718	0.9731	0.9743
38	0.9491	0.9507	0.9524	0.9540	0.9556	0.9572	0.9588	0.9604	0.9620	0.9635	0.9650	0.9664	0.9678	0.9692	0.9706	0.9719
39	0.9449	0.9466	0.9483	0.9500	0.9517	0.9534	0.9551	0.9568	0.9585	0.9601	0.9617	0.9633	0.9648	0.9663	0.9678	0.9692
40	0.9403	0.9421	0.9439	0.9457	0.9475	0.9493	0.9511	0.9529	0.9547	0.9564	0.9582	0.9599	0.9615	0.9631	0.9647	0.9663
41	0.9354	0.9372	0.9391	0.9410	0.9429	0.9448	0.9467	0.9486	0.9505	0.9524	0.9542	0.9561	0.9578	0.9596	0.9613	0.9630
42	0.9301	0.9320	0.9340	0.9360	0.9380	0.9400	0.9420	0.9440	0.9460	0.9480	0.9500	0.9519	0.9538	0.9557	0.9576	0.9594
43	0.9244	0.9264	0.9285	0.9305	0.9326	0.9347	0.9368	0.9389	0.9411	0.9432	0.9453	0.9473	0.9494	0.9514	0.9534	0.9554
44	0.9184	0.9204	0.9225	0.9247	0.9268	0.9290	0.9312	0.9335	0.9357	0.9379	0.9401	0.9423	0.9445	0.9467	0.9488	0.9509
45	0.9122	0.9143	0.9165	0.9187	0.9210	0.9232	0.9255	0.9279	0.							

Montana State Retirement System																	
Sheriffs' Retirement System																	
100% Joint Life Annuity Factors with Popup																	
Member Mortality: PubS-2010 Healthy Retiree; Adjusted 105%Male/100%Female; Males Set Forward 1 year; MP-2021 - Projected to 2040																	
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040																	
Male/Female Mix: 85% Male, 15% Female																	
Interest: 7.30% per year																	
Post-Retirement COLA: 1.50% per year																	
Service Retirement																	
Age of Contingent Annuitant																	
	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	
1	0.9979	0.9980	0.9980	0.9981	0.9981	0.9982	0.9983	0.9983	0.9984	0.9984	0.9985	0.9986	0.9986	0.9987	0.9987	0.9988	0.9988
2	0.9978	0.9979	0.9979	0.9980	0.9981	0.9981	0.9982	0.9983	0.9983	0.9984	0.9985	0.9985	0.9986	0.9986	0.9987	0.9988	0.9988
3	0.9977	0.9978	0.9978	0.9979	0.9980	0.9980	0.9981	0.9982	0.9983	0.9983	0.9984	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988
4	0.9976	0.9976	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981	0.9981	0.9982	0.9983	0.9984	0.9984	0.9985	0.9986	0.9986	0.9987
5	0.9974	0.9975	0.9976	0.9976	0.9977	0.9978	0.9979	0.9980	0.9980	0.9981	0.9982	0.9982	0.9983	0.9984	0.9985	0.9985	0.9986
6	0.9972	0.9973	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9980	0.9980	0.9981	0.9982	0.9983	0.9983	0.9984	0.9984
7	0.9970	0.9971	0.9972	0.9973	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9980	0.9981	0.9981	0.9982	0.9983	0.9983
8	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9982
9	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974	0.9975	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9980
10	0.9963	0.9964	0.9965	0.9966	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9973	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979
11	0.9960	0.9962	0.9963	0.9964	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974	0.9975	0.9976	0.9976
12	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974	0.9974
13	0.9954	0.9956	0.9957	0.9958	0.9959	0.9961	0.9962	0.9963	0.9964	0.9965	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9972
14	0.9951	0.9952	0.9954	0.9955	0.9957	0.9958	0.9959	0.9960	0.9962	0.9963	0.9964	0.9965	0.9966	0.9968	0.9969	0.9970	0.9970
15	0.9948	0.9949	0.9951	0.9952	0.9954	0.9955	0.9956	0.9958	0.9959	0.9960	0.9962	0.9963	0.9964	0.9965	0.9966	0.9968	0.9968
16	0.9944	0.9946	0.9947	0.9949	0.9951	0.9952	0.9954	0.9955	0.9956	0.9958	0.9959	0.9960	0.9962	0.9963	0.9964	0.9965	0.9965
17	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9953	0.9954	0.9956	0.9957	0.9958	0.9960	0.9961	0.9962	0.9964	0.9964
18	0.9938	0.9940	0.9942	0.9944	0.9945	0.9947	0.9949	0.9950	0.9952	0.9954	0.9955	0.9957	0.9958	0.9959	0.9961	0.9962	0.9962
19	0.9935	0.9937	0.9939	0.9941	0.9943	0.9945	0.9947	0.9948	0.9950	0.9952	0.9953	0.9955	0.9956	0.9958	0.9959	0.9961	0.9961
20	0.9931	0.9934	0.9936	0.9938	0.9940	0.9942	0.9944	0.9946	0.9948	0.9949	0.9951	0.9953	0.9955	0.9956	0.9958	0.9959	0.9959
21	0.9928	0.9930	0.9932	0.9935	0.9937	0.9939	0.9941	0.9943	0.9945	0.9947	0.9949	0.9951	0.9953	0.9954	0.9956	0.9958	0.9958
22	0.9923	0.9926	0.9929	0.9931	0.9933	0.9936	0.9938	0.9940	0.9942	0.9944	0.9946	0.9948	0.9950	0.9952	0.9954	0.9956	0.9956
23	0.9918	0.9921	0.9924	0.9927	0.9930	0.9932	0.9935	0.9937	0.9939	0.9941	0.9944	0.9946	0.9948	0.9950	0.9952	0.9954	0.9954
24	0.9913	0.9916	0.9919	0.9922	0.9925	0.9928	0.9931	0.9933	0.9936	0.9938	0.9940	0.9943	0.9945	0.9947	0.9949	0.9951	0.9951
25	0.9907	0.9910	0.9914	0.9917	0.9920	0.9923	0.9926	0.9929	0.9932	0.9934	0.9937	0.9939	0.9942	0.9944	0.9946	0.9948	0.9948
26	0.9900	0.9904	0.9908	0.9911	0.9915	0.9918	0.9921	0.9924	0.9927	0.9930	0.9933	0.9935	0.9938	0.9941	0.9943	0.9945	0.9945
27	0.9893	0.9897	0.9901	0.9905	0.9909	0.9913	0.9916	0.9919	0.9923	0.9926	0.9929	0.9932	0.9934	0.9937	0.9940	0.9942	0.9942
28	0.9885	0.9890	0.9894	0.9899	0.9903	0.9907	0.9910	0.9914	0.9918	0.9921	0.9924	0.9927	0.9930	0.9933	0.9936	0.9939	0.9939
29	0.9877	0.9882	0.9887	0.9891	0.9896	0.9900	0.9904	0.9908	0.9912	0.9916	0.9919	0.9923	0.9926	0.9929	0.9932	0.9935	0.9935
30	0.9867	0.9873	0.9878	0.9883	0.9888	0.9893	0.9897	0.9902	0.9906	0.9910	0.9914	0.9918	0.9921	0.9925	0.9928	0.9931	0.9931
31	0.9857	0.9863	0.9869	0.9874	0.9880	0.9885	0.9890	0.9895	0.9899	0.9904	0.9908	0.9912	0.9916	0.9920	0.9923	0.9927	0.9927
32	0.9845	0.9852	0.9858	0.9864	0.9870	0.9876	0.9882	0.9887	0.9892	0.9897	0.9902	0.9906	0.9910	0.9914	0.9918	0.9922	0.9922
33	0.9832	0.9840	0.9847	0.9854	0.9860	0.9866	0.9872	0.9878	0.9884	0.9889	0.9894	0.9899	0.9904	0.9908	0.9913	0.9917	0.9917
34	0.9818	0.9826	0.9834	0.9841	0.9849	0.9856	0.9862	0.9869	0.9875	0.9881	0.9886	0.9892	0.9897	0.9902	0.9906	0.9911	0.9911
35	0.9802	0.9811	0.9820	0.9828	0.9836	0.9844	0.9851	0.9858	0.9865	0.9871	0.9877	0.9883	0.9889	0.9894	0.9900	0.9905	0.9905
36	0.9785	0.9795	0.9804	0.9813	0.9822	0.9830	0.9838	0.9846	0.9853	0.9860	0.9867	0.9874	0.9880	0.9886	0.9892	0.9897	0.9897
37	0.9765	0.9776	0.9786	0.9796	0.9806	0.9815	0.9824	0.9832	0.9841	0.9848	0.9856	0.9863	0.9870	0.9876	0.9883	0.9889	0.9889
38	0.9744	0.9755	0.9767	0.9778	0.9788	0.9798	0.9808	0.9817	0.9826	0.9835	0.9843	0.9851	0.9859	0.9866	0.9873	0.9879	0.9879
39	0.9719	0.9732	0.9745	0.9757	0.9768	0.9779	0.9790	0.9800	0.9810	0.9820	0.9829	0.9837	0.9846	0.9854	0.9861	0.9869	0.9869
40	0.9692	0.9706	0.9720	0.9733	0.9746	0.9758	0.9770	0.9781	0.9792	0.9802	0.9812	0.9822	0.9831	0.9840	0.9848	0.9856	0.9856
41	0.9662	0.9678	0.9692	0.9707	0.9721	0.9734	0.9747	0.9759	0.9771	0.9783	0.9794	0.9804	0.9814	0.9824	0.9833	0.9842	0.9842
42	0.9629	0.9646	0.9662	0.9677	0.9693	0.9707	0.9721	0.9735	0.9748	0.9761							

Montana State Retirement System																
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Male/Female Mix: 85% Male, 15% Female																
Interest: 7.30% per year																
Post-Retirement COLA: 1.50% per year																
Service Retirement																
Age of Contingent Annuitant																
	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
1	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9992	0.9993	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995
2	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995
3	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995
4	0.9987	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995
5	0.9987	0.9987	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994	0.9995
6	0.9986	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994
7	0.9985	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994
8	0.9983	0.9984	0.9985	0.9986	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991	0.9992	0.9992	0.9993	0.9993
9	0.9982	0.9982	0.9983	0.9984	0.9985	0.9986	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992
10	0.9980	0.9981	0.9982	0.9983	0.9983	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989	0.9990	0.9990	0.9991	0.9992
11	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990
12	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9985	0.9986	0.9987	0.9988	0.9989	0.9989
13	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9986	0.9987	0.9988
14	0.9972	0.9973	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987
15	0.9970	0.9971	0.9972	0.9973	0.9974	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9983	0.9984	0.9985
16	0.9968	0.9969	0.9970	0.9971	0.9973	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984
17	0.9966	0.9968	0.9969	0.9970	0.9971	0.9972	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982	0.9983
18	0.9965	0.9966	0.9968	0.9969	0.9970	0.9971	0.9973	0.9974	0.9975	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981	0.9982
19	0.9964	0.9965	0.9966	0.9968	0.9969	0.9970	0.9972	0.9973	0.9974	0.9975	0.9976	0.9978	0.9979	0.9980	0.9981	0.9982
20	0.9962	0.9964	0.9965	0.9967	0.9968	0.9969	0.9971	0.9972	0.9973	0.9974	0.9976	0.9977	0.9978	0.9979	0.9980	0.9981
21	0.9961	0.9962	0.9964	0.9965	0.9967	0.9968	0.9970	0.9971	0.9972	0.9974	0.9975	0.9976	0.9977	0.9979	0.9980	0.9981
22	0.9959	0.9961	0.9962	0.9964	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974	0.9975	0.9976	0.9978	0.9979	0.9980
23	0.9957	0.9959	0.9961	0.9962	0.9964	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974	0.9975	0.9977	0.9978	0.9979
24	0.9955	0.9957	0.9959	0.9960	0.9962	0.9964	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974	0.9976	0.9977	0.9978
25	0.9952	0.9954	0.9956	0.9958	0.9960	0.9962	0.9963	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974	0.9976	0.9977
26	0.9950	0.9952	0.9954	0.9956	0.9958	0.9960	0.9961	0.9963	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974	0.9976
27	0.9947	0.9949	0.9951	0.9953	0.9956	0.9958	0.9959	0.9961	0.9963	0.9965	0.9967	0.9968	0.9970	0.9971	0.9973	0.9974
28	0.9944	0.9946	0.9949	0.9951	0.9953	0.9955	0.9957	0.9959	0.9961	0.9963	0.9965	0.9967	0.9968	0.9970	0.9972	0.9973
29	0.9941	0.9943	0.9946	0.9948	0.9951	0.9953	0.9955	0.9957	0.9959	0.9961	0.9963	0.9965	0.9967	0.9969	0.9970	0.9972
30	0.9937	0.9940	0.9943	0.9946	0.9948	0.9951	0.9953	0.9955	0.9957	0.9960	0.9962	0.9964	0.9965	0.9967	0.9969	0.9971
31	0.9933	0.9937	0.9940	0.9942	0.9945	0.9948	0.9950	0.9953	0.9955	0.9957	0.9960	0.9962	0.9964	0.9966	0.9968	0.9969
32	0.9929	0.9933	0.9936	0.9939	0.9942	0.9945	0.9948	0.9950	0.9953	0.9955	0.9958	0.9960	0.9962	0.9964	0.9966	0.9968
33	0.9925	0.9928	0.9932	0.9935	0.9939	0.9942	0.9945	0.9948	0.9950	0.9953	0.9955	0.9958	0.9960	0.9962	0.9965	0.9967
34	0.9920	0.9924	0.9927	0.9931	0.9935	0.9938	0.9941	0.9944	0.9947	0.9950	0.9953	0.9956	0.9958	0.9961	0.9963	0.9965
35	0.9914	0.9918	0.9923	0.9927	0.9930	0.9934	0.9938	0.9941	0.9944	0.9947	0.9950	0.9953	0.9956	0.9958	0.9961	0.9963
36	0.9908	0.9912	0.9917	0.9921	0.9926	0.9930	0.9934	0.9937	0.9941	0.9944	0.9947	0.9950	0.9953	0.9956	0.9959	0.9961
37	0.9900	0.9905	0.9911	0.9915	0.9920	0.9924	0.9929	0.9933	0.9937	0.9940	0.9944	0.9947	0.9950	0.9953	0.9956	0.9959
38	0.9892	0.9898	0.9903	0.9909	0.9914	0.9919	0.9923	0.9928	0.9932	0.9936	0.9940	0.9943	0.9947	0.9950	0.9953	0.9956
39	0.9882	0.9889	0.9895	0.9901	0.9906	0.9912	0.9917	0.9922	0.9926	0.9931	0.9935	0.9939	0.9943	0.9947	0.9950	0.9953
40	0.9872	0.9879	0.9885	0.9892	0.9898	0.9904	0.9910	0.9915	0.9920	0.9925	0.9929	0.9934	0.9938	0.9942	0.9946	0.9949
41	0.9859	0.9867	0.9874	0.9881	0.9888	0.9895	0.9901	0.9907	0.9912	0.9918	0.9923	0.9928	0.9932	0.9937	0.9941	0.9945
42	0.9845	0.9853	0.9862	0.9869	0.9877	0.9884	0.9891	0.9897	0.9904	0.9909	0.9915	0.9920	0.9925	0.9930	0.9935	0.9939
43	0.9828	0.9838	0.9847	0.9856	0.9864	0.9872	0.9879	0.9886	0.9893	0.9900	0.9906	0.9912	0.9917	0.9923	0.9928	0.9932
44	0.9810	0.9820	0.9830	0.9840	0.9849	0.9857	0.9866	0.9874	0.9881	0.9888	0.					

Montana State Retirement System																
Sheriffs' Retirement System																
100% Joint Life Annuity Factors with Popup																
Member Mortality: PubS-2010 Healthy Retiree; Adjusted 105%Male/100%Female; Males Set Forward 1 year; MP-2021 - Projected to 2040																
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040																
Male/Female Mix: 85% Male, 15% Female																
Interest: 7.30% per year																
Post-Retirement COLA: 1.50% per year																
Service Retirement																
Age of Contingent Annuitant		86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
A g e o f M e m b e r	1	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
	2	0.9995	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998
	3	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998	0.9998
	4	0.9995	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998	0.9998
	5	0.9995	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998	0.9998
	6	0.9995	0.9995	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998	0.9998
	7	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998
	8	0.9994	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998	0.9998	0.9998
	9	0.9994	0.9994	0.9994	0.9995	0.9995	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998	0.9998
	10	0.9993	0.9993	0.9994	0.9994	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997	0.9997	0.9998
M e m b e r	11	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9997	0.9997	0.9997
	12	0.9991	0.9991	0.9992	0.9992	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995	0.9996	0.9996	0.9996	0.9997	0.9997
	13	0.9989	0.9990	0.9991	0.9991	0.9992	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995	0.9996	0.9996	0.9996
	14	0.9988	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995	0.9995	0.9996
	15	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994	0.9994	0.9995
	16	0.9986	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993	0.9994	0.9994
	17	0.9985	0.9986	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9992	0.9992	0.9993	0.9993	0.9993
	18	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993	0.9993
	19	0.9984	0.9985	0.9985	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9992	0.9992	0.9993	0.9993
	20	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993
M e m b e r	21	0.9983	0.9984	0.9985	0.9986	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992	0.9993
	22	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991	0.9992	0.9992	0.9993
	23	0.9981	0.9983	0.9984	0.9985	0.9985	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990	0.9991	0.9991	0.9992	0.9992
	24	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989	0.9990	0.9990	0.9991	0.9991	0.9992
	25	0.9979	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989	0.9990	0.9990	0.9991	0.9991
	26	0.9978	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990	0.9991
	27	0.9977	0.9978	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988	0.9989	0.9990	0.9990
	28	0.9976	0.9977	0.9979	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9989	0.9989	0.9990
	29	0.9975	0.9976	0.9978	0.9979	0.9980	0.9981	0.9983	0.9984	0.9985	0.9986	0.9986	0.9987	0.9988	0.9989	0.9989
	30	0.9974	0.9975	0.9977	0.9978	0.9979	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9987	0.9988	0.9989
A g e o f M e m b e r	31	0.9973	0.9974	0.9976	0.9977	0.9978	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9988	0.9988
	32	0.9972	0.9973	0.9975	0.9976	0.9978	0.9979	0.9980	0.9981	0.9982	0.9984	0.9985	0.9985	0.9986	0.9987	0.9988
	33	0.9970	0.9972	0.9974	0.9975	0.9977	0.9978	0.9979	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987	0.9987
	34	0.9969	0.9971	0.9972	0.9974	0.9976	0.9977	0.9978	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987
	35	0.9967	0.9969	0.9971	0.9973	0.9975	0.9976	0.9978	0.9979	0.9980	0.9982	0.9983	0.9984	0.9985	0.9986	0.9987
	36	0.9966	0.9968	0.9970	0.9972	0.9974	0.9975	0.9977	0.9978	0.9980	0.9981	0.9982	0.9983	0.9984	0.9985	0.9986
	37	0.9964	0.9966	0.9968	0.9970	0.9972	0.9974	0.9976	0.9977	0.9979	0.9980	0.9981	0.9983	0.9984	0.9985	0.9986
	38	0.9962	0.9964	0.9967	0.9969	0.9971	0.9973	0.9975	0.9976	0.9978	0.9979	0.9981	0.9982	0.9983	0.9984	0.9985
	39	0.9959	0.9962	0.9964	0.9967	0.9969	0.9971	0.9973	0.9975	0.9977	0.9978	0.9980	0.9981	0.9982	0.9983	0.9985
	40	0.9956	0.9959	0.9962	0.9964	0.9967	0.9969	0.9971	0.9973	0.9975	0.9977	0.9978	0.9980	0.9981	0.9983	0.9984
A g e o f M e m b e r	41	0.9952	0.9955	0.9958	0.9961	0.9964	0.9966	0.9969	0.9971	0.9973	0.9975	0.9977	0.9978	0.9980	0.9981	0.9982
	42	0.9947	0.9950	0.9954	0.9957	0.9960	0.9963	0.9965	0.9968	0.9970	0.9972	0.9974	0.9976	0.9978	0.9979	0.9981
	43	0.9941	0.9945	0.9948	0.9952	0.9955	0.9958	0.9961	0.9964	0.9966	0.9969	0.9971	0.9973	0.9975	0.9976	0.9978
	44	0.9933	0.9938	0.9942	0.9946	0.9949	0.9952	0.9955	0.9958	0.9961	0.9964	0.9966	0.9968	0.9970	0.9972	0.9974
	45	0.9928	0.9933	0.9937	0.9941	0.9945	0.9949	0.9952	0.9955	0.9958	0.9961	0.9964	0.9966	0.9968	0.9970	0.9972
	46	0.9922	0.9927	0.9932	0.9937	0.9941	0.9945	0.9949	0.9952	0.9955	0.9958	0.9961	0.9964	0.9966	0.9968	0.9970
	47	0.9916	0.9921													

Montana State Retirement System
Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Age of Contingent Annuitant	1	0.9842	0.9844	0.9847	0.9850	0.9852	0.9855	0.9858	0.9860	0.9863	0.9865	0.9868	0.9871	0.9873	0.9876	0.9878	0.9880	0.9883
	2	0.9831	0.9834	0.9837	0.9840	0.9842	0.9845	0.9848	0.9851	0.9853	0.9856	0.9859	0.9862	0.9864	0.9867	0.9870	0.9872	0.9875
	3	0.9820	0.9823	0.9825	0.9828	0.9831	0.9834	0.9837	0.9840	0.9843	0.9846	0.9849	0.9852	0.9855	0.9857	0.9860	0.9863	0.9866
	4	0.9807	0.9810	0.9813	0.9816	0.9819	0.9822	0.9826	0.9829	0.9832	0.9835	0.9838	0.9841	0.9844	0.9847	0.9850	0.9853	0.9856
	5	0.9794	0.9797	0.9800	0.9803	0.9806	0.9810	0.9813	0.9816	0.9820	0.9823	0.9826	0.9829	0.9833	0.9836	0.9839	0.9842	0.9845
	6	0.9780	0.9783	0.9786	0.9789	0.9793	0.9796	0.9800	0.9803	0.9806	0.9810	0.9813	0.9817	0.9820	0.9824	0.9827	0.9830	0.9834
	7	0.9765	0.9768	0.9771	0.9775	0.9778	0.9781	0.9785	0.9789	0.9792	0.9796	0.9800	0.9803	0.9807	0.9810	0.9814	0.9818	0.9821
	8	0.9749	0.9752	0.9755	0.9759	0.9762	0.9766	0.9770	0.9773	0.9777	0.9781	0.9785	0.9789	0.9793	0.9796	0.9800	0.9804	0.9808
	9	0.9731	0.9735	0.9738	0.9742	0.9746	0.9749	0.9753	0.9757	0.9761	0.9765	0.9769	0.9773	0.9777	0.9781	0.9785	0.9789	0.9793
	10	0.9713	0.9716	0.9720	0.9724	0.9728	0.9732	0.9736	0.9739	0.9744	0.9748	0.9752	0.9756	0.9761	0.9765	0.9769	0.9773	0.9778
	11	0.9693	0.9697	0.9701	0.9705	0.9709	0.9713	0.9717	0.9721	0.9725	0.9729	0.9734	0.9738	0.9743	0.9747	0.9752	0.9756	0.9761
	12	0.9673	0.9677	0.9680	0.9684	0.9689	0.9693	0.9697	0.9701	0.9706	0.9710	0.9715	0.9719	0.9724	0.9729	0.9733	0.9738	0.9743
	13	0.9651	0.9655	0.9659	0.9663	0.9667	0.9672	0.9676	0.9680	0.9685	0.9690	0.9694	0.9699	0.9704	0.9709	0.9714	0.9719	0.9724
	14	0.9628	0.9632	0.9636	0.9640	0.9645	0.9649	0.9654	0.9658	0.9663	0.9668	0.9673	0.9677	0.9683	0.9688	0.9693	0.9698	0.9704
	15	0.9603	0.9608	0.9612	0.9616	0.9621	0.9625	0.9630	0.9635	0.9640	0.9645	0.9650	0.9655	0.9660	0.9665	0.9671	0.9676	0.9682
	16	0.9578	0.9583	0.9587	0.9591	0.9596	0.9601	0.9606	0.9611	0.9616	0.9621	0.9626	0.9631	0.9637	0.9642	0.9648	0.9654	0.9659
	17	0.9552	0.9557	0.9561	0.9566	0.9570	0.9575	0.9580	0.9585	0.9591	0.9596	0.9601	0.9607	0.9612	0.9618	0.9624	0.9630	0.9636
	18	0.9531	0.9535	0.9540	0.9544	0.9549	0.9554	0.9559	0.9565	0.9570	0.9576	0.9581	0.9587	0.9593	0.9599	0.9605	0.9611	0.9617
	19	0.9509	0.9514	0.9518	0.9523	0.9528	0.9533	0.9539	0.9544	0.9550	0.9555	0.9561	0.9567	0.9573	0.9579	0.9585	0.9592	0.9599
	20	0.9487	0.9492	0.9496	0.9501	0.9506	0.9512	0.9517	0.9522	0.9528	0.9534	0.9540	0.9546	0.9552	0.9559	0.9565	0.9572	0.9579
	21	0.9463	0.9468	0.9473	0.9478	0.9483	0.9489	0.9494	0.9500	0.9506	0.9512	0.9518	0.9524	0.9530	0.9537	0.9544	0.9551	0.9558
	22	0.9438	0.9443	0.9448	0.9453	0.9459	0.9464	0.9470	0.9475	0.9481	0.9488	0.9494	0.9500	0.9507	0.9514	0.9521	0.9528	0.9536
	23	0.9412	0.9417	0.9422	0.9427	0.9432	0.9438	0.9444	0.9450	0.9456	0.9462	0.9469	0.9475	0.9482	0.9489	0.9496	0.9504	0.9512
	24	0.9384	0.9389	0.9394	0.9399	0.9405	0.9410	0.9416	0.9422	0.9429	0.9435	0.9442	0.9448	0.9456	0.9463	0.9470	0.9478	0.9486
25	0.9354	0.9359	0.9365	0.9370	0.9376	0.9381	0.9387	0.9394	0.9400	0.9406	0.9413	0.9420	0.9427	0.9435	0.9442	0.9450	0.9459	
26	0.9324	0.9329	0.9334	0.9340	0.9345	0.9351	0.9357	0.9364	0.9370	0.9377	0.9384	0.9391	0.9398	0.9406	0.9414	0.9422	0.9430	
27	0.9292	0.9297	0.9303	0.9308	0.9314	0.9320	0.9326	0.9333	0.9339	0.9346	0.9353	0.9360	0.9368	0.9376	0.9384	0.9392	0.9401	
28	0.9259	0.9264	0.9270	0.9275	0.9281	0.9287	0.9294	0.9300	0.9307	0.9314	0.9321	0.9329	0.9336	0.9344	0.9352	0.9361	0.9370	
29	0.9225	0.9230	0.9236	0.9241	0.9247	0.9254	0.9260	0.9267	0.9273	0.9281	0.9288	0.9296	0.9303	0.9312	0.9320	0.9329	0.9338	
30	0.9189	0.9195	0.9200	0.9206	0.9212	0.9218	0.9225	0.9232	0.9239	0.9246	0.9253	0.9261	0.9269	0.9277	0.9286	0.9295	0.9304	
31	0.9152	0.9158	0.9164	0.9169	0.9175	0.9182	0.9188	0.9195	0.9202	0.9210	0.9217	0.9225	0.9233	0.9242	0.9250	0.9260	0.9269	
32	0.9114	0.9120	0.9125	0.9131	0.9137	0.9144	0.9150	0.9157	0.9165	0.9172	0.9180	0.9188	0.9196	0.9205	0.9214	0.9223	0.9233	
33	0.9074	0.9079	0.9085	0.9091	0.9097	0.9104	0.9111	0.9118	0.9125	0.9133	0.9140	0.9149	0.9157	0.9166	0.9175	0.9184	0.9194	
34	0.9032	0.9038	0.9043	0.9049	0.9056	0.9062	0.9069	0.9076	0.9084	0.9091	0.9099	0.9107	0.9116	0.9125	0.9134	0.9144	0.9154	
35	0.8988	0.8994	0.9000	0.9006	0.9012	0.9019	0.9025	0.9033	0.9040	0.9048	0.9056	0.9064	0.9073	0.9082	0.9091	0.9101	0.9111	
36	0.8942	0.8948	0.8954	0.8960	0.8966	0.8973	0.8980	0.8987	0.8994	0.9002	0.9010	0.9019	0.9028	0.9037	0.9046	0.9056	0.9067	
37	0.8894	0.8899	0.8905	0.8911	0.8918	0.8925	0.8932	0.8939	0.8946	0.8954	0.8963	0.8971	0.8980	0.8989	0.8999	0.9009	0.9020	
38	0.8843	0.8849	0.8854	0.8861	0.8867	0.8874	0.8881	0.8888	0.8896	0.8904	0.8912	0.8921	0.8930	0.8939	0.8949	0.8959	0.8970	
39	0.8789	0.8795	0.8801	0.8807	0.8814	0.8821	0.8828	0.8835	0.8843	0.8851	0.8859	0.8868	0.8877	0.8887	0.8896	0.8907	0.8918	
40	0.8733	0.8739	0.8745	0.8751	0.8758	0.8764	0.8771	0.8779	0.8787	0.8795	0.8803	0.8812	0.8821	0.8831	0.8841	0.8851	0.8862	
41	0.8673	0.8679	0.8685	0.8692	0.8698	0.8705	0.8712	0.8720	0.8727	0.8736	0.8744	0.8753	0.8762	0.8772	0.8782	0.8793	0.8804	
42	0.8611	0.8617	0.8623	0.8629	0.8636	0.8643	0.8650	0.8657	0.8665	0.8673	0.8682	0.8691	0.8700	0.8710	0.8720	0.8731	0.8742	
43	0.8545	0.8551	0.8557	0.8563	0.8570	0.8577	0.8584	0.8591	0.8599	0.8608	0.8616	0.8625	0.8635	0.8644	0.8655			

Montana State Retirement System
Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Age	1	0.9885	0.9888	0.9890	0.9892	0.9895	0.9897	0.9899	0.9902	0.9904	0.9906	0.9908	0.9910	0.9912	0.9913	0.9915	0.9916	0.9917
	2	0.9877	0.9880	0.9882	0.9885	0.9887	0.9890	0.9892	0.9895	0.9897	0.9899	0.9902	0.9904	0.9906	0.9908	0.9910	0.9911	0.9912
	3	0.9869	0.9871	0.9874	0.9877	0.9879	0.9882	0.9884	0.9887	0.9889	0.9892	0.9894	0.9897	0.9899	0.9902	0.9904	0.9905	0.9907
	4	0.9859	0.9862	0.9865	0.9868	0.9870	0.9873	0.9876	0.9879	0.9881	0.9884	0.9886	0.9889	0.9892	0.9894	0.9897	0.9899	0.9900
	5	0.9848	0.9852	0.9855	0.9858	0.9861	0.9864	0.9867	0.9869	0.9872	0.9875	0.9878	0.9881	0.9883	0.9886	0.9889	0.9891	0.9894
	6	0.9837	0.9840	0.9844	0.9847	0.9850	0.9853	0.9856	0.9859	0.9862	0.9865	0.9868	0.9871	0.9874	0.9877	0.9880	0.9883	0.9885
	7	0.9825	0.9828	0.9832	0.9835	0.9839	0.9842	0.9845	0.9849	0.9852	0.9855	0.9858	0.9861	0.9864	0.9868	0.9871	0.9873	0.9876
	8	0.9812	0.9815	0.9819	0.9823	0.9826	0.9830	0.9834	0.9837	0.9841	0.9844	0.9847	0.9851	0.9854	0.9857	0.9860	0.9863	0.9867
	9	0.9797	0.9801	0.9805	0.9809	0.9813	0.9817	0.9821	0.9824	0.9828	0.9832	0.9835	0.9839	0.9842	0.9846	0.9849	0.9853	0.9856
	10	0.9782	0.9786	0.9790	0.9795	0.9799	0.9803	0.9807	0.9811	0.9815	0.9819	0.9823	0.9826	0.9830	0.9834	0.9837	0.9841	0.9844
Age	11	0.9765	0.9770	0.9774	0.9779	0.9783	0.9788	0.9792	0.9796	0.9800	0.9805	0.9809	0.9813	0.9817	0.9821	0.9824	0.9828	0.9832
	12	0.9748	0.9753	0.9757	0.9762	0.9767	0.9772	0.9776	0.9781	0.9785	0.9789	0.9794	0.9798	0.9802	0.9807	0.9811	0.9815	0.9819
	13	0.9729	0.9734	0.9739	0.9744	0.9749	0.9754	0.9759	0.9764	0.9769	0.9773	0.9778	0.9782	0.9787	0.9791	0.9796	0.9800	0.9804
	14	0.9709	0.9714	0.9720	0.9725	0.9730	0.9735	0.9741	0.9746	0.9751	0.9756	0.9761	0.9766	0.9771	0.9775	0.9780	0.9785	0.9789
	15	0.9688	0.9693	0.9699	0.9705	0.9710	0.9716	0.9721	0.9727	0.9732	0.9737	0.9743	0.9748	0.9753	0.9758	0.9763	0.9768	0.9773
	16	0.9665	0.9671	0.9677	0.9683	0.9689	0.9695	0.9701	0.9707	0.9712	0.9718	0.9724	0.9729	0.9735	0.9740	0.9745	0.9751	0.9756
	17	0.9642	0.9648	0.9655	0.9661	0.9667	0.9673	0.9679	0.9686	0.9692	0.9698	0.9704	0.9710	0.9715	0.9721	0.9727	0.9732	0.9738
	18	0.9624	0.9630	0.9637	0.9643	0.9650	0.9657	0.9663	0.9670	0.9676	0.9683	0.9689	0.9695	0.9701	0.9708	0.9714	0.9720	0.9725
	19	0.9605	0.9612	0.9619	0.9626	0.9633	0.9640	0.9647	0.9654	0.9661	0.9667	0.9674	0.9681	0.9687	0.9694	0.9700	0.9707	0.9713
	20	0.9586	0.9593	0.9600	0.9608	0.9615	0.9622	0.9630	0.9637	0.9644	0.9651	0.9658	0.9666	0.9673	0.9680	0.9686	0.9693	0.9700
Age	21	0.9565	0.9573	0.9580	0.9588	0.9596	0.9603	0.9611	0.9619	0.9626	0.9634	0.9642	0.9649	0.9657	0.9664	0.9671	0.9679	0.9686
	22	0.9543	0.9551	0.9559	0.9567	0.9575	0.9583	0.9591	0.9599	0.9607	0.9615	0.9623	0.9631	0.9639	0.9647	0.9655	0.9663	0.9670
	23	0.9520	0.9528	0.9536	0.9544	0.9552	0.9561	0.9569	0.9578	0.9586	0.9595	0.9603	0.9612	0.9620	0.9629	0.9637	0.9645	0.9653
	24	0.9494	0.9502	0.9511	0.9519	0.9528	0.9537	0.9546	0.9555	0.9564	0.9573	0.9582	0.9591	0.9600	0.9608	0.9617	0.9626	0.9634
	25	0.9467	0.9476	0.9485	0.9493	0.9502	0.9512	0.9521	0.9530	0.9540	0.9549	0.9559	0.9568	0.9577	0.9587	0.9596	0.9605	0.9614
	26	0.9439	0.9448	0.9457	0.9466	0.9476	0.9485	0.9495	0.9505	0.9514	0.9524	0.9534	0.9544	0.9554	0.9564	0.9574	0.9584	0.9593
	27	0.9410	0.9419	0.9428	0.9438	0.9447	0.9457	0.9467	0.9478	0.9488	0.9498	0.9509	0.9519	0.9530	0.9540	0.9550	0.9561	0.9571
	28	0.9379	0.9389	0.9398	0.9408	0.9418	0.9428	0.9439	0.9449	0.9460	0.9471	0.9482	0.9493	0.9504	0.9515	0.9526	0.9537	0.9548
	29	0.9347	0.9357	0.9367	0.9377	0.9387	0.9398	0.9409	0.9420	0.9431	0.9442	0.9453	0.9465	0.9476	0.9488	0.9500	0.9511	0.9523
	30	0.9314	0.9324	0.9334	0.9344	0.9355	0.9366	0.9377	0.9388	0.9400	0.9412	0.9424	0.9436	0.9448	0.9460	0.9472	0.9484	0.9496
Age	31	0.9279	0.9289	0.9300	0.9310	0.9321	0.9332	0.9344	0.9356	0.9368	0.9380	0.9392	0.9405	0.9417	0.9430	0.9443	0.9456	0.9468
	32	0.9243	0.9253	0.9264	0.9275	0.9286	0.9297	0.9309	0.9321	0.9334	0.9346	0.9359	0.9372	0.9385	0.9398	0.9412	0.9425	0.9439
	33	0.9204	0.9215	0.9226	0.9237	0.9249	0.9260	0.9273	0.9285	0.9298	0.9311	0.9324	0.9337	0.9351	0.9365	0.9379	0.9393	0.9407
	34	0.9164	0.9175	0.9186	0.9198	0.9209	0.9222	0.9234	0.9247	0.9260	0.9273	0.9287	0.9301	0.9315	0.9329	0.9344	0.9359	0.9374
	35	0.9122	0.9133	0.9144	0.9156	0.9168	0.9180	0.9193	0.9206	0.9220	0.9234	0.9248	0.9262	0.9277	0.9292	0.9307	0.9322	0.9338
	36	0.9078	0.9089	0.9100	0.9112	0.9124	0.9137	0.9150	0.9164	0.9177	0.9191	0.9206	0.9221	0.9236	0.9251	0.9267	0.9283	0.9299
	37	0.9031	0.9042	0.9054	0.9066	0.9078	0.9091	0.9105	0.9118	0.9132	0.9147	0.9162	0.9177	0.9193	0.9209	0.9225	0.9241	0.9258
	38	0.8981	0.8993	0.9004	0.9017	0.9030	0.9043	0.9056	0.9070	0.9085	0.9100	0.9115	0.9130	0.9147	0.9163	0.9180	0.9197	0.9214
	39	0.8929	0.8940	0.8953	0.8965	0.8978	0.8991	0.9005	0.9019	0.9034	0.9049	0.9065	0.9081	0.9097	0.9114	0.9132	0.9149	0.9167
	40	0.8874	0.8885	0.8898	0.8910	0.8923	0.8937	0.8951	0.8966	0.8981	0.8996	0.9012	0.9028	0.9045	0.9063	0.9080	0.9098	0.9117
Age	41	0.8815	0.8827	0.8839	0.8852	0.8866	0.8879	0.8894	0.8908	0.8924	0.8939	0.8956	0.8972	0.8990	0.9007	0.9026	0.9044	0.9063
	42	0.8753	0.8766	0.8778	0.8791	0.8804	0.8818	0.8833	0.8848	0.8863	0.8879	0.8896	0.8913	0.8931	0.8949	0.8967	0.8986	0.9006
	43	0.8688	0.8700	0.8713	0.8726	0.8740	0.8754	0.8769	0.8784	0.8800	0.8816	0.8833	0.8850	0.8868	0.8886	0.8905	0.8925	0.8945
	44	0.8620	0.8632	0.8645	0.8658													

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Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Age of Contingent Annuitant	1	0.9918	0.9920	0.9920	0.9921	0.9922	0.9923	0.9924	0.9924	0.9925	0.9925	0.9928	0.9930	0.9931	0.9933	0.9935	0.9936	0.9938
	2	0.9914	0.9915	0.9916	0.9917	0.9918	0.9919	0.9919	0.9920	0.9921	0.9921	0.9924	0.9926	0.9928	0.9930	0.9931	0.9933	0.9935
	3	0.9908	0.9909	0.9911	0.9912	0.9913	0.9914	0.9915	0.9915	0.9916	0.9917	0.9920	0.9922	0.9924	0.9926	0.9927	0.9930	0.9932
	4	0.9902	0.9903	0.9905	0.9906	0.9907	0.9908	0.9909	0.9910	0.9911	0.9912	0.9915	0.9917	0.9919	0.9921	0.9923	0.9925	0.9927
	5	0.9895	0.9897	0.9898	0.9900	0.9901	0.9902	0.9903	0.9904	0.9905	0.9906	0.9909	0.9911	0.9914	0.9916	0.9918	0.9920	0.9923
	6	0.9888	0.9889	0.9891	0.9893	0.9894	0.9896	0.9897	0.9898	0.9899	0.9900	0.9903	0.9906	0.9908	0.9910	0.9913	0.9915	0.9918
	7	0.9879	0.9882	0.9883	0.9885	0.9887	0.9888	0.9890	0.9891	0.9892	0.9893	0.9897	0.9899	0.9902	0.9904	0.9907	0.9909	0.9912
	8	0.9870	0.9873	0.9876	0.9877	0.9879	0.9881	0.9882	0.9884	0.9885	0.9886	0.9890	0.9892	0.9895	0.9898	0.9900	0.9903	0.9906
	9	0.9859	0.9862	0.9865	0.9869	0.9870	0.9872	0.9874	0.9875	0.9877	0.9878	0.9882	0.9885	0.9887	0.9890	0.9893	0.9896	0.9899
	10	0.9848	0.9851	0.9855	0.9858	0.9861	0.9863	0.9865	0.9867	0.9868	0.9870	0.9874	0.9877	0.9879	0.9882	0.9885	0.9888	0.9891
	11	0.9836	0.9839	0.9843	0.9846	0.9850	0.9853	0.9855	0.9857	0.9859	0.9861	0.9865	0.9868	0.9871	0.9874	0.9877	0.9880	0.9883
	12	0.9823	0.9826	0.9830	0.9834	0.9838	0.9841	0.9845	0.9847	0.9849	0.9851	0.9855	0.9858	0.9861	0.9865	0.9868	0.9871	0.9874
	13	0.9809	0.9813	0.9817	0.9821	0.9825	0.9828	0.9832	0.9836	0.9838	0.9840	0.9844	0.9848	0.9851	0.9855	0.9858	0.9861	0.9865
	14	0.9793	0.9798	0.9802	0.9806	0.9811	0.9815	0.9819	0.9823	0.9827	0.9828	0.9833	0.9837	0.9840	0.9844	0.9848	0.9851	0.9855
	15	0.9777	0.9782	0.9787	0.9791	0.9796	0.9800	0.9804	0.9809	0.9813	0.9817	0.9821	0.9825	0.9829	0.9833	0.9837	0.9840	0.9844
	16	0.9761	0.9766	0.9771	0.9775	0.9780	0.9785	0.9789	0.9794	0.9798	0.9803	0.9807	0.9811	0.9815	0.9819	0.9823	0.9827	0.9831
	17	0.9743	0.9749	0.9754	0.9759	0.9764	0.9769	0.9774	0.9778	0.9783	0.9788	0.9792	0.9797	0.9801	0.9805	0.9810	0.9814	0.9818
	18	0.9731	0.9737	0.9742	0.9748	0.9753	0.9758	0.9764	0.9769	0.9774	0.9779	0.9783	0.9788	0.9793	0.9797	0.9802	0.9806	0.9811
	19	0.9719	0.9725	0.9731	0.9737	0.9743	0.9748	0.9754	0.9759	0.9765	0.9770	0.9775	0.9780	0.9785	0.9790	0.9794	0.9799	0.9804
	20	0.9706	0.9713	0.9719	0.9725	0.9732	0.9738	0.9743	0.9749	0.9755	0.9760	0.9766	0.9771	0.9776	0.9782	0.9787	0.9792	0.9797
	21	0.9693	0.9700	0.9706	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9762	0.9767	0.9773	0.9778	0.9784	0.9789
	22	0.9678	0.9685	0.9692	0.9699	0.9706	0.9713	0.9720	0.9726	0.9733	0.9739	0.9745	0.9751	0.9757	0.9763	0.9769	0.9775	0.9780
	23	0.9661	0.9669	0.9677	0.9684	0.9692	0.9699	0.9706	0.9713	0.9720	0.9727	0.9733	0.9740	0.9746	0.9752	0.9759	0.9765	0.9770
	24	0.9643	0.9651	0.9660	0.9668	0.9676	0.9683	0.9691	0.9699	0.9706	0.9713	0.9720	0.9727	0.9734	0.9741	0.9747	0.9754	0.9760
25	0.9624	0.9632	0.9641	0.9650	0.9658	0.9667	0.9675	0.9683	0.9691	0.9699	0.9706	0.9713	0.9721	0.9728	0.9735	0.9742	0.9748	
26	0.9603	0.9613	0.9622	0.9631	0.9640	0.9649	0.9658	0.9667	0.9675	0.9683	0.9691	0.9699	0.9707	0.9715	0.9722	0.9729	0.9736	
27	0.9581	0.9592	0.9602	0.9611	0.9621	0.9631	0.9640	0.9649	0.9658	0.9667	0.9676	0.9684	0.9692	0.9701	0.9708	0.9716	0.9724	
28	0.9558	0.9569	0.9580	0.9590	0.9601	0.9611	0.9621	0.9631	0.9640	0.9650	0.9659	0.9668	0.9677	0.9686	0.9694	0.9703	0.9711	
29	0.9534	0.9546	0.9557	0.9568	0.9579	0.9590	0.9601	0.9611	0.9622	0.9632	0.9642	0.9651	0.9661	0.9670	0.9679	0.9688	0.9697	
30	0.9509	0.9521	0.9533	0.9545	0.9556	0.9568	0.9579	0.9591	0.9602	0.9612	0.9623	0.9633	0.9644	0.9654	0.9663	0.9673	0.9682	
31	0.9481	0.9494	0.9507	0.9519	0.9532	0.9544	0.9556	0.9568	0.9580	0.9592	0.9603	0.9614	0.9625	0.9636	0.9646	0.9657	0.9667	
32	0.9452	0.9466	0.9479	0.9493	0.9506	0.9519	0.9532	0.9545	0.9557	0.9570	0.9582	0.9594	0.9606	0.9617	0.9628	0.9639	0.9650	
33	0.9421	0.9436	0.9450	0.9464	0.9478	0.9492	0.9506	0.9520	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.9609	0.9621	0.9632	
34	0.9388	0.9403	0.9418	0.9433	0.9448	0.9463	0.9478	0.9492	0.9506	0.9521	0.9534	0.9548	0.9562	0.9575	0.9588	0.9601	0.9613	
35	0.9353	0.9369	0.9385	0.9400	0.9416	0.9432	0.9447	0.9463	0.9478	0.9493	0.9508	0.9522	0.9537	0.9551	0.9565	0.9578	0.9592	
36	0.9315	0.9332	0.9348	0.9365	0.9381	0.9398	0.9414	0.9431	0.9447	0.9463	0.9479	0.9494	0.9510	0.9525	0.9540	0.9554	0.9569	
37	0.9275	0.9292	0.9309	0.9327	0.9344	0.9362	0.9379	0.9396	0.9413	0.9430	0.9447	0.9464	0.9480	0.9497	0.9512	0.9528	0.9544	
38	0.9232	0.9250	0.9268	0.9286	0.9304	0.9322	0.9341	0.9359	0.9377	0.9395	0.9413	0.9431	0.9448	0.9466	0.9483	0.9499	0.9516	
39	0.9185	0.9204	0.9223	0.9242	0.9261	0.9280	0.9299	0.9318	0.9338	0.9357	0.9376	0.9394	0.9413	0.9432	0.9450	0.9468	0.9485	
40	0.9136	0.9155	0.9175	0.9194	0.9214	0.9234	0.9254	0.9275	0.9295	0.9315	0.9335	0.9355	0.9375	0.9394	0.9414	0.9433	0.9452	
41	0.9083	0.9103	0.9123	0.9143	0.9164	0.9185	0.9206	0.9227	0.9248	0.9270	0.9291	0.9312	0.9333	0.9354	0.9374	0.9395	0.9415	
42	0.9026	0.9047	0.9067	0.9089	0.9110	0.9132	0.9154	0.9176	0.9198	0.9220	0.9243	0.9265	0.9287	0.9309	0.9331	0.9353	0.9375	
43	0.8966	0.8987	0.9008	0.9030	0.9052	0.9075	0.9098	0.9121	0.9144	0.9167	0.9191	0.9214	0.9238	0.9261	0.9284	0.9308	0.9331	
44	0.8901	0.8923	0.8945	0.8967	0.8990	0.9014	0.9037	0.9061	0.9086	0.9110	0.9134	0.9159	0.9184	0.9209	0.9233	0.9258	0.9282	
45	0.8833	0.8855	0.8877	0.8901	0.8924	0.8948	0.8973	0.8998	0.9023	0.9048	0.9074	0.9100	0.9126	0.9152	0.9178	0.9204	0.9230	
46	0.8760	0.8783	0.8806	0.8830	0.8854	0.8879	0.8904	0.8930	0.8956	0.8982	0.9009	0.9036	0.9063	0.9090	0.9118	0.9145	0.9172	
47	0.8683	0.8706	0.8730	0.8754	0.8779	0.8805	0.8831	0.8857	0.8884	0.8912	0.8939	0.8967	0.8995	0.9024	0.9053	0.9082	0.9111	
48	0.8603	0.8626	0.8650	0.8675	0.8700	0.8726	0.8753	0.8780	0.8808	0.8836	0.8865	0.8894	0.8923	0.8953	0.8983	0.9014	0.9044	
49	0.8518	0.8541	0.8566	0.8591	0.8617	0.8644	0.8671	0.8699	0.8727	0.8756	0.8786	0.8816	0.8847	0.8878	0.8909	0.8941		

Montana State Retirement System
Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Age	1	0.9940	0.9941	0.9942	0.9943	0.9944	0.9945	0.9946	0.9946	0.9947	0.9947	0.9946	0.9946	0.9946	0.9945	0.9944	0.9943	0.9942
	2	0.9937	0.9938	0.9940	0.9941	0.9942	0.9943	0.9944	0.9945	0.9945	0.9946	0.9946	0.9946	0.9945	0.9945	0.9944	0.9943	0.9943
	3	0.9933	0.9935	0.9937	0.9938	0.9940	0.9941	0.9942	0.9943	0.9944	0.9944	0.9944	0.9944	0.9945	0.9945	0.9944	0.9943	0.9943
	4	0.9929	0.9931	0.9933	0.9935	0.9937	0.9938	0.9939	0.9940	0.9941	0.9942	0.9943	0.9943	0.9943	0.9943	0.9943	0.9943	0.9942
	5	0.9925	0.9927	0.9929	0.9931	0.9933	0.9935	0.9936	0.9937	0.9939	0.9940	0.9941	0.9941	0.9942	0.9942	0.9942	0.9942	0.9942
	6	0.9920	0.9922	0.9924	0.9927	0.9929	0.9931	0.9932	0.9934	0.9935	0.9937	0.9938	0.9939	0.9940	0.9940	0.9941	0.9941	0.9941
	7	0.9914	0.9917	0.9919	0.9922	0.9924	0.9926	0.9928	0.9930	0.9932	0.9933	0.9935	0.9936	0.9937	0.9938	0.9939	0.9939	0.9940
	8	0.9908	0.9911	0.9914	0.9916	0.9918	0.9921	0.9923	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9935	0.9936	0.9937	0.9938
	9	0.9902	0.9904	0.9907	0.9910	0.9912	0.9915	0.9917	0.9920	0.9922	0.9924	0.9926	0.9928	0.9930	0.9931	0.9933	0.9934	0.9935
	10	0.9894	0.9897	0.9900	0.9903	0.9906	0.9909	0.9911	0.9914	0.9916	0.9919	0.9921	0.9923	0.9925	0.9927	0.9929	0.9931	0.9932
Age	11	0.9886	0.9889	0.9892	0.9895	0.9898	0.9901	0.9904	0.9907	0.9910	0.9913	0.9915	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929
	12	0.9878	0.9881	0.9884	0.9887	0.9891	0.9894	0.9897	0.9900	0.9903	0.9906	0.9909	0.9911	0.9914	0.9917	0.9919	0.9922	0.9924
	13	0.9868	0.9872	0.9875	0.9879	0.9882	0.9885	0.9889	0.9892	0.9895	0.9898	0.9901	0.9905	0.9908	0.9911	0.9914	0.9916	0.9919
	14	0.9858	0.9862	0.9866	0.9869	0.9873	0.9876	0.9880	0.9883	0.9887	0.9890	0.9893	0.9897	0.9900	0.9904	0.9907	0.9910	0.9913
	15	0.9848	0.9852	0.9855	0.9859	0.9863	0.9866	0.9870	0.9874	0.9877	0.9881	0.9885	0.9888	0.9892	0.9896	0.9899	0.9903	0.9907
	16	0.9835	0.9839	0.9843	0.9847	0.9851	0.9855	0.9859	0.9862	0.9866	0.9870	0.9874	0.9878	0.9881	0.9885	0.9889	0.9893	0.9897
	17	0.9822	0.9826	0.9831	0.9835	0.9839	0.9843	0.9847	0.9851	0.9855	0.9859	0.9863	0.9866	0.9870	0.9874	0.9878	0.9882	0.9886
	18	0.9815	0.9819	0.9824	0.9828	0.9832	0.9836	0.9841	0.9845	0.9849	0.9853	0.9857	0.9861	0.9865	0.9869	0.9873	0.9877	0.9882
	19	0.9808	0.9813	0.9818	0.9822	0.9826	0.9831	0.9835	0.9839	0.9844	0.9848	0.9852	0.9857	0.9861	0.9865	0.9869	0.9874	0.9878
	20	0.9801	0.9806	0.9811	0.9816	0.9820	0.9825	0.9830	0.9834	0.9839	0.9843	0.9848	0.9852	0.9856	0.9861	0.9865	0.9869	0.9874
Age	21	0.9794	0.9799	0.9804	0.9809	0.9814	0.9819	0.9824	0.9828	0.9833	0.9838	0.9842	0.9847	0.9851	0.9856	0.9861	0.9865	0.9870
	22	0.9786	0.9791	0.9796	0.9802	0.9807	0.9812	0.9817	0.9822	0.9827	0.9832	0.9836	0.9841	0.9846	0.9851	0.9856	0.9860	0.9865
	23	0.9776	0.9782	0.9788	0.9793	0.9799	0.9804	0.9809	0.9815	0.9820	0.9825	0.9830	0.9835	0.9840	0.9845	0.9850	0.9855	0.9860
	24	0.9766	0.9772	0.9778	0.9784	0.9790	0.9795	0.9801	0.9807	0.9812	0.9817	0.9823	0.9828	0.9833	0.9838	0.9844	0.9849	0.9854
	25	0.9755	0.9761	0.9768	0.9774	0.9780	0.9786	0.9792	0.9798	0.9804	0.9809	0.9815	0.9821	0.9826	0.9831	0.9837	0.9842	0.9847
	26	0.9744	0.9750	0.9757	0.9764	0.9770	0.9777	0.9783	0.9789	0.9795	0.9801	0.9807	0.9813	0.9819	0.9824	0.9830	0.9835	0.9841
	27	0.9731	0.9739	0.9746	0.9753	0.9760	0.9767	0.9774	0.9780	0.9787	0.9793	0.9799	0.9805	0.9811	0.9817	0.9823	0.9829	0.9835
	28	0.9719	0.9727	0.9734	0.9742	0.9749	0.9757	0.9764	0.9771	0.9777	0.9784	0.9791	0.9797	0.9804	0.9810	0.9816	0.9822	0.9828
	29	0.9706	0.9714	0.9722	0.9730	0.9738	0.9746	0.9754	0.9761	0.9768	0.9775	0.9782	0.9789	0.9796	0.9802	0.9809	0.9815	0.9822
	30	0.9692	0.9701	0.9709	0.9718	0.9726	0.9735	0.9743	0.9751	0.9758	0.9766	0.9773	0.9781	0.9788	0.9795	0.9802	0.9808	0.9815
Age	31	0.9677	0.9686	0.9696	0.9705	0.9714	0.9723	0.9732	0.9740	0.9748	0.9756	0.9764	0.9772	0.9780	0.9787	0.9794	0.9801	0.9808
	32	0.9661	0.9671	0.9681	0.9691	0.9701	0.9710	0.9720	0.9729	0.9738	0.9746	0.9755	0.9763	0.9771	0.9779	0.9787	0.9794	0.9801
	33	0.9644	0.9655	0.9666	0.9676	0.9687	0.9697	0.9707	0.9717	0.9726	0.9735	0.9744	0.9753	0.9762	0.9770	0.9778	0.9786	0.9794
	34	0.9625	0.9637	0.9649	0.9660	0.9671	0.9682	0.9693	0.9703	0.9713	0.9723	0.9733	0.9743	0.9752	0.9761	0.9769	0.9778	0.9786
	35	0.9605	0.9618	0.9630	0.9643	0.9655	0.9666	0.9678	0.9689	0.9700	0.9710	0.9721	0.9731	0.9741	0.9750	0.9760	0.9769	0.9778
	36	0.9583	0.9597	0.9610	0.9623	0.9636	0.9649	0.9661	0.9673	0.9685	0.9696	0.9707	0.9718	0.9729	0.9739	0.9749	0.9759	0.9769
	37	0.9559	0.9574	0.9588	0.9602	0.9616	0.9630	0.9643	0.9656	0.9668	0.9681	0.9693	0.9704	0.9716	0.9727	0.9738	0.9748	0.9758
	38	0.9532	0.9548	0.9564	0.9579	0.9594	0.9608	0.9623	0.9637	0.9650	0.9663	0.9676	0.9689	0.9701	0.9713	0.9725	0.9736	0.9747
	39	0.9503	0.9520	0.9537	0.9553	0.9569	0.9585	0.9600	0.9615	0.9630	0.9644	0.9658	0.9671	0.9685	0.9698	0.9710	0.9722	0.9734
	40	0.9471	0.9489	0.9507	0.9525	0.9542	0.9559	0.9575	0.9591	0.9607	0.9623	0.9638	0.9652	0.9666	0.9680	0.9694	0.9707	0.9720
Age	41	0.9435	0.9455	0.9474	0.9493	0.9512	0.9530	0.9548	0.9565	0.9582	0.9598	0.9615	0.9630	0.9646	0.9661	0.9675	0.9689	0.9703
	42	0.9396	0.9417	0.9438	0.9458	0.9478	0.9498	0.9517	0.9535	0.9554	0.9572	0.9589	0.9606	0.9623	0.9639	0.9654	0.9670	0.9685
	43	0.9353	0.9376	0.9398	0.9420	0.9441	0.9462	0.9483	0.9503	0.9522	0.9542	0.9561	0.9579	0.9597	0.9614	0.9631	0.9648	0.9664
	44	0.9306	0.9330	0.9354	0.9377	0.9400	0.9423	0.9445	0.9467	0.9488	0.9508	0.9529	0.9549	0.9568	0.9587	0.9605	0.9623	0.9640
	45	0.9255	0.9281	0.9306	0.9331	0.9355	0.9380	0.9403	0.9427	0.9449	0.9472	0.9494	0.9515	0.9536	0.9556	0.9576	0.9595	0.9614
	46	0.9200	0.9227	0.9254	0.9280	0.9306	0.9332	0.9358	0.9383	0.9407	0.9431	0.9455	0.9478	0.9500	0.9522	0.9543	0.9564	0.9584
	47	0.9139	0.9168	0.9197	0.9225	0.9253	0.9280	0.9308	0.9334	0.9361	0.9387	0.9412	0.9437	0.9461	0.9484	0.9507	0.9530	0.9552
	48	0.9074	0.9105	0.9135	0.9165	0.9195	0.9224	0.9253	0.9282	0.9310	0.9338	0.9365	0.9391	0.9417	0.9443	0.9468	0.9492	0.9516
	49	0.9004	0.9036	0.9068	0.9100	0.9132	0.9163	0.9194	0.9225	0.9255	0.9284	0.9314	0.9342	0.9370	0.9398	0.9424	0.9451	0.9476
	50	0.8930																

Montana State Retirement System
Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
A	1	0.9941	0.9939	0.9937	0.9936	0.9934	0.9932	0.9930	0.9928	0.9926	0.9924	0.9922	0.9920	0.9918	0.9916	0.9914	0.9912	0.9911
	2	0.9941	0.9940	0.9939	0.9937	0.9936	0.9934	0.9932	0.9930	0.9928	0.9926	0.9924	0.9922	0.9920	0.9918	0.9916	0.9914	0.9912
	3	0.9942	0.9941	0.9940	0.9938	0.9937	0.9935	0.9934	0.9932	0.9930	0.9928	0.9926	0.9924	0.9922	0.9919	0.9917	0.9915	0.9914
	4	0.9942	0.9941	0.9940	0.9939	0.9938	0.9936	0.9935	0.9933	0.9932	0.9930	0.9928	0.9926	0.9924	0.9921	0.9919	0.9917	0.9915
	5	0.9942	0.9941	0.9941	0.9940	0.9939	0.9938	0.9936	0.9935	0.9933	0.9932	0.9930	0.9928	0.9926	0.9924	0.9922	0.9920	0.9918
	6	0.9941	0.9941	0.9940	0.9940	0.9939	0.9939	0.9938	0.9936	0.9935	0.9934	0.9932	0.9930	0.9929	0.9927	0.9924	0.9922	0.9920
	7	0.9940	0.9940	0.9940	0.9940	0.9940	0.9939	0.9939	0.9938	0.9937	0.9936	0.9934	0.9933	0.9931	0.9929	0.9927	0.9925	0.9923
	8	0.9938	0.9939	0.9939	0.9940	0.9940	0.9940	0.9939	0.9939	0.9938	0.9937	0.9936	0.9935	0.9934	0.9932	0.9931	0.9929	0.9927
	9	0.9936	0.9937	0.9938	0.9939	0.9939	0.9940	0.9940	0.9940	0.9940	0.9939	0.9938	0.9938	0.9937	0.9935	0.9934	0.9933	0.9931
	10	0.9934	0.9935	0.9936	0.9937	0.9938	0.9939	0.9940	0.9940	0.9941	0.9941	0.9940	0.9940	0.9940	0.9939	0.9939	0.9938	0.9937
g	11	0.9930	0.9932	0.9934	0.9935	0.9937	0.9938	0.9939	0.9940	0.9941	0.9942	0.9942	0.9942	0.9942	0.9942	0.9941	0.9941	0.9940
	12	0.9927	0.9929	0.9931	0.9933	0.9935	0.9937	0.9938	0.9940	0.9941	0.9942	0.9943	0.9944	0.9945	0.9945	0.9945	0.9945	0.9945
	13	0.9922	0.9925	0.9927	0.9930	0.9932	0.9934	0.9937	0.9939	0.9941	0.9943	0.9944	0.9946	0.9947	0.9948	0.9949	0.9950	0.9951
	14	0.9916	0.9920	0.9923	0.9926	0.9929	0.9932	0.9934	0.9937	0.9940	0.9942	0.9945	0.9947	0.9949	0.9951	0.9953	0.9955	0.9956
	15	0.9910	0.9914	0.9918	0.9921	0.9925	0.9928	0.9931	0.9935	0.9938	0.9941	0.9945	0.9948	0.9951	0.9954	0.9957	0.9959	0.9962
	16	0.9900	0.9904	0.9908	0.9912	0.9915	0.9919	0.9922	0.9926	0.9929	0.9933	0.9936	0.9940	0.9943	0.9946	0.9949	0.9952	0.9955
	17	0.9890	0.9894	0.9898	0.9902	0.9905	0.9909	0.9913	0.9917	0.9920	0.9924	0.9927	0.9931	0.9934	0.9937	0.9941	0.9944	0.9947
	18	0.9886	0.9890	0.9894	0.9898	0.9902	0.9905	0.9909	0.9913	0.9917	0.9921	0.9924	0.9928	0.9931	0.9935	0.9938	0.9941	0.9944
	19	0.9882	0.9886	0.9890	0.9894	0.9898	0.9902	0.9906	0.9910	0.9914	0.9918	0.9922	0.9926	0.9929	0.9933	0.9936	0.9940	0.9943
	20	0.9878	0.9882	0.9887	0.9891	0.9895	0.9899	0.9904	0.9908	0.9912	0.9916	0.9920	0.9924	0.9927	0.9931	0.9934	0.9938	0.9941
o	21	0.9874	0.9879	0.9883	0.9887	0.9892	0.9896	0.9901	0.9905	0.9909	0.9913	0.9917	0.9921	0.9925	0.9929	0.9933	0.9936	0.9940
	22	0.9870	0.9874	0.9879	0.9883	0.9888	0.9892	0.9897	0.9901	0.9906	0.9910	0.9914	0.9918	0.9922	0.9926	0.9930	0.9934	0.9938
	23	0.9864	0.9869	0.9874	0.9879	0.9883	0.9888	0.9893	0.9897	0.9902	0.9906	0.9911	0.9915	0.9919	0.9923	0.9927	0.9931	0.9935
	24	0.9859	0.9864	0.9869	0.9874	0.9878	0.9883	0.9888	0.9893	0.9897	0.9902	0.9907	0.9911	0.9915	0.9920	0.9924	0.9928	0.9932
	25	0.9853	0.9858	0.9863	0.9868	0.9873	0.9878	0.9883	0.9888	0.9893	0.9897	0.9902	0.9907	0.9911	0.9916	0.9920	0.9924	0.9928
	26	0.9846	0.9852	0.9857	0.9862	0.9868	0.9873	0.9878	0.9883	0.9888	0.9893	0.9898	0.9903	0.9907	0.9912	0.9916	0.9921	0.9925
	27	0.9840	0.9846	0.9851	0.9857	0.9862	0.9868	0.9873	0.9878	0.9883	0.9888	0.9893	0.9898	0.9903	0.9908	0.9913	0.9917	0.9921
	28	0.9834	0.9840	0.9846	0.9851	0.9857	0.9862	0.9868	0.9873	0.9879	0.9884	0.9889	0.9894	0.9899	0.9904	0.9909	0.9914	0.9918
	29	0.9828	0.9834	0.9840	0.9846	0.9852	0.9857	0.9863	0.9869	0.9874	0.9880	0.9885	0.9890	0.9895	0.9901	0.9905	0.9910	0.9915
	30	0.9822	0.9828	0.9834	0.9840	0.9846	0.9852	0.9858	0.9864	0.9870	0.9876	0.9881	0.9886	0.9892	0.9897	0.9902	0.9907	0.9912
M	31	0.9815	0.9822	0.9829	0.9835	0.9841	0.9848	0.9854	0.9860	0.9866	0.9871	0.9877	0.9883	0.9888	0.9894	0.9899	0.9904	0.9909
	32	0.9809	0.9816	0.9823	0.9829	0.9836	0.9843	0.9849	0.9855	0.9862	0.9868	0.9873	0.9879	0.9885	0.9890	0.9896	0.9901	0.9906
	33	0.9802	0.9809	0.9817	0.9824	0.9831	0.9838	0.9844	0.9851	0.9857	0.9864	0.9870	0.9876	0.9882	0.9887	0.9893	0.9898	0.9903
	34	0.9795	0.9802	0.9810	0.9818	0.9825	0.9832	0.9839	0.9846	0.9853	0.9860	0.9866	0.9872	0.9878	0.9884	0.9890	0.9895	0.9901
	35	0.9787	0.9795	0.9803	0.9811	0.9819	0.9827	0.9834	0.9841	0.9848	0.9855	0.9862	0.9868	0.9875	0.9881	0.9887	0.9893	0.9898
	36	0.9778	0.9787	0.9796	0.9804	0.9813	0.9821	0.9828	0.9836	0.9844	0.9851	0.9858	0.9865	0.9871	0.9878	0.9884	0.9890	0.9895
	37	0.9768	0.9778	0.9787	0.9797	0.9805	0.9814	0.9822	0.9830	0.9838	0.9846	0.9853	0.9860	0.9867	0.9874	0.9880	0.9887	0.9893
	38	0.9758	0.9768	0.9778	0.9788	0.9797	0.9806	0.9815	0.9824	0.9832	0.9840	0.9848	0.9856	0.9863	0.9870	0.9877	0.9883	0.9890
	39	0.9746	0.9757	0.9768	0.9778	0.9788	0.9798	0.9807	0.9817	0.9826	0.9834	0.9842	0.9850	0.9858	0.9866	0.9873	0.9880	0.9886
	40	0.9732	0.9744	0.9756	0.9767	0.9778	0.9788	0.9799	0.9808	0.9818	0.9827	0.9836	0.9844	0.9853	0.9861	0.9868	0.9875	0.9882
e	41	0.9716	0.9729	0.9742	0.9754	0.9766	0.9777	0.9788	0.9799	0.9809	0.9819	0.9828	0.9837	0.9846	0.9855	0.9863	0.9870	0.9878
	42	0.9699	0.9713	0.9726	0.9740	0.9752	0.9765	0.9776	0.9788	0.9799	0.9809	0.9820	0.9829	0.9839	0.9848	0.9856	0.9864	0.9872
	43	0.9679	0.9694	0.9709	0.9723	0.9737	0.9750	0.9763	0.9775	0.9787	0.9798	0.9809	0.9820	0.9830	0.9840	0.9849	0.9858	0.9866
	44	0.9657	0.9673	0.9689	0.9704	0.9719	0.9733	0.9747	0.9761	0.9773	0.9786	0.9798	0.9809	0.9820	0.9830	0.9840	0.9850	0.9859
	45	0.9632	0.9649	0.9667	0.9683	0.9699	0.9715	0.9730	0.9744	0.9758	0.9771	0.9784	0.9796	0.9808	0.9819	0.9830	0.9840	0.9850
	46	0.9604	0.9623	0.9641	0.9659	0.9677	0.9694	0.9710	0.9725	0.9740	0.9755	0.9769	0.9782	0.9795	0.9807	0.9819	0.9830	0.9840
	47	0.9573	0.9593	0.9613	0.9633	0.9652	0.9670	0.9687	0.9704	0.9721	0.9736	0.9751	0.9766	0.9780	0.9793	0.9806	0.9818	0.9829
	48	0.9538	0.9561	0.9582	0.9603	0.9624	0.9643	0.9662	0.9681	0.9698	0.9716	0.9732	0.9748	0.9763	0.9777	0.9791	0.9804	0.9816
	49	0.9501	0.9525	0.9548	0.9571	0.9593	0.9614	0.9635	0.9655	0.9674	0.9692	0.9710	0.9727	0.9744	0.9759	0.9774	0.9788	0.9802
	50	0.9459																

Montana State Retirement System
Sheriffs' Retirement System
100% Joint Life Annuity Factors with Popup
Member Mortality: PubS-2010 Disabled Retiree; Males Set Forward 1 year, MP-2021 - Projected to 2021
Contingent Mortality: PubS-2010 Contingent Survivor proj to 2021; Males Set Forward 1 year; MP-2021 - Proj to 2040
Male/Female Mix: 85% Male, 15% Female
Interest: 7.30% per year
Post-Retirement COLA: 1.50% per year
Disability Retirement

Age of Contingent Annuitant		86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
A	1	0.9909	0.9908	0.9907	0.9905	0.9904	0.9904	0.9904	0.9904	0.9905	0.9906	0.9908	0.9910	0.9913	0.9917	0.9920
	2	0.9911	0.9909	0.9908	0.9906	0.9905	0.9904	0.9904	0.9904	0.9905	0.9906	0.9908	0.9911	0.9914	0.9917	0.9920
	3	0.9912	0.9910	0.9909	0.9907	0.9905	0.9905	0.9904	0.9905	0.9906	0.9907	0.9909	0.9911	0.9914	0.9917	0.9921
	4	0.9913	0.9912	0.9910	0.9908	0.9906	0.9905	0.9905	0.9905	0.9906	0.9907	0.9909	0.9911	0.9914	0.9917	0.9921
	5	0.9915	0.9913	0.9911	0.9909	0.9907	0.9906	0.9906	0.9906	0.9906	0.9907	0.9909	0.9911	0.9914	0.9917	0.9921
	6	0.9918	0.9916	0.9914	0.9911	0.9909	0.9908	0.9907	0.9907	0.9907	0.9908	0.9910	0.9912	0.9914	0.9917	0.9921
	7	0.9921	0.9919	0.9916	0.9914	0.9912	0.9910	0.9909	0.9908	0.9909	0.9909	0.9910	0.9912	0.9915	0.9918	0.9921
	8	0.9925	0.9923	0.9920	0.9917	0.9915	0.9913	0.9912	0.9911	0.9911	0.9911	0.9912	0.9914	0.9916	0.9919	0.9922
	9	0.9929	0.9927	0.9925	0.9922	0.9919	0.9917	0.9915	0.9914	0.9914	0.9913	0.9914	0.9915	0.9917	0.9920	0.9923
	10	0.9934	0.9932	0.9930	0.9927	0.9925	0.9922	0.9921	0.9919	0.9918	0.9918	0.9918	0.9919	0.9920	0.9922	0.9925
g	11	0.9939	0.9938	0.9936	0.9934	0.9931	0.9929	0.9927	0.9926	0.9925	0.9924	0.9924	0.9924	0.9925	0.9926	0.9928
	12	0.9945	0.9945	0.9944	0.9942	0.9940	0.9938	0.9937	0.9935	0.9934	0.9933	0.9932	0.9932	0.9933	0.9934	0.9935
	13	0.9951	0.9952	0.9952	0.9951	0.9950	0.9949	0.9948	0.9947	0.9946	0.9945	0.9945	0.9944	0.9944	0.9945	0.9946
	14	0.9958	0.9959	0.9960	0.9961	0.9961	0.9961	0.9961	0.9961	0.9962	0.9961	0.9961	0.9962	0.9962	0.9962	0.9963
	15	0.9965	0.9967	0.9969	0.9972	0.9974	0.9976	0.9978	0.9979	0.9981	0.9983	0.9984	0.9985	0.9987	0.9988	0.9989
	16	0.9957	0.9960	0.9963	0.9965	0.9967	0.9969	0.9972	0.9974	0.9975	0.9977	0.9979	0.9980	0.9982	0.9983	0.9984
	17	0.9950	0.9952	0.9955	0.9957	0.9960	0.9962	0.9964	0.9966	0.9968	0.9970	0.9972	0.9974	0.9975	0.9977	0.9978
	18	0.9947	0.9950	0.9953	0.9955	0.9958	0.9960	0.9963	0.9965	0.9967	0.9969	0.9971	0.9972	0.9974	0.9975	0.9977
	19	0.9946	0.9949	0.9952	0.9954	0.9957	0.9959	0.9962	0.9964	0.9966	0.9968	0.9970	0.9972	0.9973	0.9975	0.9976
	20	0.9944	0.9948	0.9950	0.9953	0.9956	0.9959	0.9961	0.9963	0.9965	0.9967	0.9969	0.9971	0.9973	0.9975	0.9976
o	21	0.9943	0.9946	0.9949	0.9952	0.9955	0.9958	0.9960	0.9962	0.9965	0.9967	0.9969	0.9971	0.9973	0.9974	0.9976
	22	0.9941	0.9944	0.9948	0.9951	0.9954	0.9956	0.9959	0.9961	0.9964	0.9966	0.9968	0.9970	0.9972	0.9974	0.9975
	23	0.9939	0.9942	0.9945	0.9949	0.9952	0.9955	0.9957	0.9960	0.9962	0.9965	0.9967	0.9969	0.9971	0.9973	0.9974
	24	0.9936	0.9939	0.9943	0.9946	0.9949	0.9952	0.9955	0.9958	0.9961	0.9963	0.9965	0.9968	0.9970	0.9971	0.9973
	25	0.9932	0.9936	0.9940	0.9943	0.9947	0.9950	0.9953	0.9956	0.9958	0.9961	0.9963	0.9966	0.9968	0.9970	0.9972
	26	0.9929	0.9933	0.9937	0.9940	0.9944	0.9947	0.9950	0.9953	0.9956	0.9959	0.9961	0.9964	0.9966	0.9968	0.9970
	27	0.9926	0.9930	0.9934	0.9937	0.9941	0.9945	0.9948	0.9951	0.9954	0.9957	0.9959	0.9962	0.9964	0.9966	0.9968
	28	0.9922	0.9927	0.9931	0.9935	0.9938	0.9942	0.9945	0.9949	0.9952	0.9955	0.9957	0.9960	0.9962	0.9965	0.9967
	29	0.9919	0.9924	0.9928	0.9932	0.9936	0.9939	0.9943	0.9946	0.9950	0.9953	0.9955	0.9958	0.9961	0.9963	0.9965
	30	0.9916	0.9921	0.9925	0.9929	0.9933	0.9937	0.9941	0.9944	0.9947	0.9951	0.9954	0.9956	0.9959	0.9961	0.9964
M	31	0.9914	0.9918	0.9923	0.9927	0.9931	0.9935	0.9939	0.9942	0.9946	0.9949	0.9952	0.9955	0.9957	0.9960	0.9962
	32	0.9911	0.9916	0.9920	0.9925	0.9929	0.9933	0.9937	0.9940	0.9944	0.9947	0.9950	0.9953	0.9956	0.9959	0.9961
	33	0.9909	0.9913	0.9918	0.9923	0.9927	0.9931	0.9935	0.9939	0.9942	0.9946	0.9949	0.9952	0.9955	0.9957	0.9960
	34	0.9906	0.9911	0.9916	0.9920	0.9925	0.9929	0.9933	0.9937	0.9941	0.9944	0.9947	0.9951	0.9953	0.9956	0.9959
	35	0.9904	0.9909	0.9914	0.9918	0.9923	0.9927	0.9931	0.9935	0.9939	0.9943	0.9946	0.9949	0.9952	0.9955	0.9958
	36	0.9901	0.9906	0.9911	0.9916	0.9921	0.9925	0.9930	0.9934	0.9938	0.9941	0.9945	0.9948	0.9951	0.9954	0.9957
	37	0.9898	0.9904	0.9909	0.9914	0.9919	0.9924	0.9928	0.9932	0.9936	0.9940	0.9943	0.9947	0.9950	0.9953	0.9956
	38	0.9896	0.9901	0.9907	0.9912	0.9917	0.9922	0.9926	0.9931	0.9935	0.9939	0.9942	0.9946	0.9949	0.9952	0.9955
	39	0.9892	0.9898	0.9904	0.9910	0.9915	0.9920	0.9924	0.9929	0.9933	0.9937	0.9941	0.9944	0.9948	0.9951	0.9954
	40	0.9889	0.9895	0.9901	0.9907	0.9912	0.9917	0.9922	0.9927	0.9931	0.9935	0.9939	0.9943	0.9946	0.9950	0.9953
e	41	0.9885	0.9891	0.9898	0.9904	0.9909	0.9915	0.9920	0.9925	0.9929	0.9933	0.9938	0.9941	0.9945	0.9948	0.9951
	42	0.9880	0.9887	0.9894	0.9900	0.9906	0.9912	0.9917	0.9922	0.9927	0.9931	0.9936	0.9939	0.9943	0.9947	0.9950
	43	0.9874	0.9882	0.9889	0.9895	0.9902	0.9908	0.9913	0.9919	0.9924	0.9929	0.9933	0.9937	0.9941	0.9945	0.9948
	44	0.9867	0.9875	0.9883	0.9890	0.9897	0.9903	0.9909	0.9915	0.9920	0.9925	0.9930	0.9934	0.9939	0.9942	0.9946
	45	0.9859	0.9868	0.9876	0.9884	0.9891	0.9898	0.9904	0.9910	0.9916	0.9921	0.9926	0.9931	0.9936	0.9940	0.9943
	46	0.9850	0.9859	0.9868	0.9877	0.9884	0.9892	0.9899	0.9905	0.9911	0.9917	0.9922	0.9927	0.9932	0.9936	0.9940
	47	0.9840	0.9850	0.9859	0.9868	0.9877	0.9885	0.9892	0.9899	0.9906	0.9912	0.9917	0.9923	0.9928	0.9932	0.9937
	48	0.9828	0.9839	0.9849	0.9859	0.9868	0.9877	0.9885	0.9892	0.9899	0.9906	0.9912	0.9918	0.9923	0.9928	0.9932
	49	0.9814	0.9826	0.9838	0.9848	0.9858	0.9867	0.9876	0.9884	0.9892	0.9899	0.9906	0.9912	0.9918	0.9923	0.9928
	50	0.9799	0.9812	0.9825	0.9836	0.9847	0.9857	0.9867	0.9876	0.9884	0.9892	0.9899	0.9906	0.9912	0.9918	0.9923
f	51	0.9782	0.9796	0.9810	0.9822	0.9834	0.9845	0.9856	0.9865	0.9874	0.9883	0.9891	0.9898	0.9905	0.9911	0.9917
	52	0.9763	0.9778	0.9793	0.9806	0.9819	0.9831	0.9843	0.9853	0.9863	0.9873	0.9881	0.9889	0.9897	0.9904	0.9910
	53	0.9741	0.9757	0.9773	0.9788	0.9803	0.9816	0.9828	0.9840	0.9851	0.9861	0.9870	0.9879	0.9887	0.9895	0.9902
	54	0.9716	0.9734	0.9752	0.9768	0.9784	0.9798	0.9812	0.9824	0.9836	0.9847	0.9858	0.9867	0.9876	0.9885	0.9892
	55	0.9689	0.9709	0.9728	0.9746	0.9762	0.9778	0.9793	0.9807	0.9820	0.9832	0.9844	0.9854	0.9864	0.9873	0.9881
	56	0.9659	0.9681	0.9701	0.9721	0.9739	0.9756	0.9772	0.9788	0.9802	0.9815	0.9828	0.9839	0.9850	0.9860	0.9869
	57	0.9627	0.9651	0.9673	0.9694	0.9714	0.9733	0.9750	0.9767	0.9782	0.9797	0.9810	0.9823	0.9835	0.9846	0.9856
	58	0.9593	0.9619	0.9643	0.9666	0.9687	0.9707	0.9726	0.9744	0.9761	0.9777	0.9792	0.9806	0.9818	0.9830	0.9841
	59	0.9558	0.9585	0.9611	0.9636	0.9659	0.9681	0.9701	0.9721	0.9739	0.9756	0.9772	0.9787	0.9801	0.9814	0.9826
	60	0.9520	0.9549	0.9577	0.9604	0.9629	0.9653	0.9675	0.9696	0.9716	0.9734	0.9752	0.9768	0.9783	0.9797	0.9810
A	61	0.9480	0.9512	0.9542	0.9571	0.9598	0.9623	0.9647	0.9670	0.9691	0.9711	0.9730	0.9748	0.9764	0.9779	0.9793
	62	0.9437	0.9472	0.9504	0.9536	0.9565	0.9592	0.9618	0.9643	0.9666	0.9687	0.9708	0.9727	0.9744	0.9761	0.9776
	63	0.9391	0.9429	0.9465	0.9498	0.9530	0.9560	0.9588	0.9614	0.9639	0.9662	0.9684	0.9705	0.9724	0.9741	0.9758
	64	0.9342	0.9383	0.9421	0.9458	0.9492	0.9524	0.9555	0.9583	0.9610	0.9635	0.9659	0.9681	0.9702	0.9721	0.9738
	65	0.9288	0.9332	0.9374	0.9414	0.9451	0.9486	0.9519	0.9550	0.9579	0.9606	0.9632	0.9656	0.9678	0.9699	0.9718