

**Exhibit 11b
As Filed**

PENNSYLVANIA COMPENSATION RATING BUREAU

Retrospective Test of Trend Projections for Severity Ratios

Attached is a retrospective test of the predictive accuracy of various trend procedures. Please note that instead of using ultimate loss ratios, as in Exhibit 11a, Exhibit 11b uses ultimate severity ratios, i.e., ultimate loss ratios adjusted by dividing out the frequency component. Please note that our analysis is limited to Policy Years 1989 through 2000, the years for which frequency data is available.

Results for both indemnity and medical are shown using both linear and exponential fits. All possible combinations of from four to ten data points, which permitted a test of the projected severity ratio three years hence, were used. Our current review trends policy year 2000 3.25 years, policy year 1999 4.25 years, and policy year 1998 5.25 years. An average of those three values is then calculated.

Current estimates of policy year ultimate severity ratios are compared with predicted values based on trending through earlier years. The results are available for each of twenty-one loss development approaches - incurred and paid-to-2nd through paid-to-20th, as well as the average of the incurred and paid-to-20th methods, although the paid-to-9th, paid-to-11th, paid-to-13th, paid-to-15th, paid-to-17th and paid-to-19th approaches are not shown.

As an illustration, the incurred loss development approach generated an indemnity severity ratio of 0.8359 for policy year 1997. Fitting the loss ratios for policy years 1991 to 1994 using a straight line and projecting that to 1997 yielded a loss ratio of 0.9549 which overstates our current estimate for 1997 by 0.1190 points.

Indemnity**Actual Ultimate Severity Ratios****Including Average of Paid and Incurred**

INDEMNITY	Severity Ratios															
	Policy Year	Severity Ratio														
		(Avg Pd & Inc)	(Incur)	(Pd-2)	(Pd-3)	(Pd-4)	(Pd-5)	(Pd-6)	(Pd-7)	(Pd-8)	(Pd-10)	(Pd-12)	(Pd-14)	(Pd-16)	(Pd-18)	(Pd-20)
1989		0.7349	0.7048	0.7048	0.7048	0.7048	0.7048	0.7048	0.7048	0.7048	0.7048	0.7279	0.7394	0.7497	0.7651	
1990		0.7701	0.7385	0.7385	0.7385	0.7385	0.7385	0.7385	0.7385	0.7385	0.7385	0.7446	0.7628	0.7748	0.7856	0.8017
1991		0.8152	0.7811	0.7811	0.7811	0.7811	0.7811	0.7811	0.7811	0.7811	0.7811	0.7886	0.8079	0.8206	0.8320	0.8492
1992		0.8035	0.7753	0.7753	0.7753	0.7753	0.7753	0.7753	0.7753	0.7753	0.7661	0.7724	0.7913	0.8038	0.8149	0.8317
1993		0.8503	0.8165	0.8165	0.8165	0.8165	0.8165	0.8165	0.8165	0.8165	0.8141	0.8209	0.8410	0.8542	0.8661	0.8839
1994		0.9175	0.8735	0.8735	0.8735	0.8735	0.8735	0.8735	0.8735	0.8929	0.8858	0.8932	0.9150	0.9294	0.9423	0.9617
1995		0.9470	0.8864	0.8864	0.8864	0.8864	0.8864	0.8864	0.9197	0.9357	0.9282	0.9359	0.9589	0.9738	0.9873	1.0077
1996		0.8373	0.7652	0.7652	0.7652	0.7652	0.7652	0.8119	0.8299	0.8444	0.8376	0.8446	0.8652	0.8788	0.8911	0.9094
1997		0.9317	0.8359	0.8359	0.8359	0.8359	0.8818	0.9170	0.9375	0.9538	0.9462	0.9539	0.9774	0.9926	1.0066	1.0273
1998		0.9490	0.8604	0.8604	0.8604	0.8576	0.8907	0.9263	0.9469	0.9634	0.9557	0.9638	0.9873	1.0027	1.0169	1.0377
1999		1.0513	0.9494	0.9494	0.9518	0.9533	0.9899	1.0295	1.0526	1.0709	1.0623	1.0711	1.0973	1.1145	1.1301	1.1535
2000		1.1609	1.0357	1.0593	1.0612	1.0631	1.1040	1.1481	1.1738	1.1942	1.1847	1.1945	1.2238	1.2430	1.2602	1.2861

Trend # Years =

3

11b.1

Indemnity

Linear Fit

Trended Severity Ratios

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	0.8938	0.8643	0.8643	0.8643	0.8643	0.8643	0.8643	0.8643	0.8496	0.8637	0.8784	0.8922	0.9045	0.9232	
90-93 (4)	1996	0.9128	0.8805	0.8805	0.8805	0.8805	0.8805	0.8805	0.8805	0.8703	0.8773	0.8988	0.9130	0.9256	0.9447	
91-94 (4)	1997	1.0058	0.9549	0.9549	0.9549	0.9549	0.9549	0.9549	0.9549	0.9859	0.9747	0.9818	1.0058	1.0216	1.0358	1.0570
92-95 (4)	1998	1.1035	1.0136	1.0136	1.0136	1.0136	1.0136	1.0668	1.1060	1.0997	1.1089	1.1361	1.1536	1.1697	1.1939	
93-96 (4)	1999	0.8838	0.7720	0.7720	0.7720	0.7720	0.8467	0.8988	0.9293	0.9172	0.9249	0.9475	0.9622	0.9757	0.9958	
94-97 (4)	2000	0.8782	0.7350	0.7350	0.7350	0.8084	0.8974	0.9361	0.9478	0.9402	0.9478	0.9712	0.9862	1.0003	1.0209	
89-93 (5)	1996	0.9269	0.8933	0.8933	0.8933	0.8933	0.8933	0.8933	0.8933	0.8840	0.8963	0.9135	0.9279	0.9407	0.9601	
90-94 (5)	1997	0.9963	0.9497	0.9497	0.9497	0.9497	0.9497	0.9497	0.9730	0.9609	0.9687	0.9923	1.0080	1.0219	1.0430	
91-95 (5)	1998	1.0555	0.9810	0.9810	0.9810	0.9810	0.9810	1.0209	1.0537	1.0420	1.0499	1.0757	1.0924	1.1075	1.1303	
92-96 (5)	1999	0.9533	0.8482	0.8482	0.8482	0.8482	0.9043	0.9492	0.9817	0.9749	0.9831	1.0071	1.0228	1.0371	1.0585	
93-97 (5)	2000	0.9381	0.8008	0.8008	0.8008	0.8558	0.9308	0.9746	1.0017	0.9904	0.9984	1.0230	1.0389	1.0536	1.0753	
89-94 (6)	1997	0.9947	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9685	0.9572	0.9689	0.9889	1.0044	1.0184	1.0394	
90-95 (6)	1998	1.0452	0.9781	0.9781	0.9781	0.9781	0.9781	1.0098	1.0375	1.0249	1.0332	1.0585	1.0750	1.0899	1.1124	
91-96 (6)	1999	0.9574	0.8652	0.8652	0.8652	0.8652	0.9096	0.9480	0.9783	0.9676	0.9750	0.9989	1.0145	1.0286	1.0498	
92-97 (6)	2000	0.9805	0.8509	0.8509	0.8509	0.8946	0.9580	0.9998	1.0299	1.0222	1.0306	1.0560	1.0724	1.0875	1.1099	
89-95 (7)	1998	1.0411	0.9788	0.9788	0.9788	0.9788	0.9788	1.0049	1.0286	1.0165	1.0278	1.0501	1.0664	1.0812	1.1035	
90-96 (7)	1999	0.9728	0.8886	0.8886	0.8886	0.8886	0.9252	0.9584	0.9859	0.9740	0.9819	1.0059	1.0216	1.0359	1.0572	
91-97 (7)	2000	0.9819	0.8650	0.8650	0.8650	0.9011	0.9554	0.9937	1.0233	1.0125	1.0204	1.0454	1.0617	1.0766	1.0987	
89-96 (8)	1999	0.9858	0.9072	0.9072	0.9072	0.9072	0.9384	0.9674	0.9922	0.9804	0.9909	1.0127	1.0285	1.0428	1.0643	
90-97 (8)	2000	0.9937	0.8859	0.8859	0.8859	0.9165	0.9638	0.9986	1.0265	1.0147	1.0229	1.0480	1.0643	1.0792	1.1014	
89-97 (9)	2000	1.0047	0.9040	0.9040	0.9040	0.9305	0.9724	1.0040	1.0301	1.0181	1.0285	1.0516	1.0680	1.0830	1.1053	

11b.2

Indemnity

Linear Fit

Differences: (Actual - Trended)

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)	
89-92 (4)	1995	0.0532	0.0221	0.0221	0.0221	0.0221	0.0221	0.0554	0.0714	0.0786	0.0722	0.0805	0.0816	0.0829	0.0845		
90-93 (4)	1996	-0.0755	-0.1153	-0.1153	-0.1153	-0.1153	-0.1153	-0.0686	-0.0506	-0.0361	-0.0327	-0.0327	-0.0336	-0.0342	-0.0345	-0.0353	
91-94 (4)	1997	-0.0741	-0.1190	-0.1190	-0.1190	-0.1190	-0.1190	-0.0731	-0.0379	-0.0174	-0.0321	-0.0285	-0.0279	-0.0283	-0.0290	-0.0292	-0.0297
92-95 (4)	1998	-0.1545	-0.1532	-0.1532	-0.1532	-0.1560	-0.1229	-0.0873	-0.1199	-0.1426	-0.1440	-0.1451	-0.1488	-0.1509	-0.1528	-0.1562	
93-96 (4)	1999	0.1676	0.1775	0.1775	0.1799	0.1814	0.2180	0.1828	0.1538	0.1416	0.1451	0.1462	0.1498	0.1523	0.1544	0.1577	
94-97 (4)	2000	0.2827	0.3007	0.3243	0.3262	0.3281	0.2956	0.2507	0.2377	0.2464	0.2445	0.2467	0.2526	0.2568	0.2599	0.2652	
89-93 (5)	1996	-0.0896	-0.1281	-0.1281	-0.1281	-0.1281	-0.1281	-0.0814	-0.0634	-0.0489	-0.0464	-0.0517	-0.0483	-0.0491	-0.0496	-0.0507	
90-94 (5)	1997	-0.0646	-0.1138	-0.1138	-0.1138	-0.1138	-0.0679	-0.0327	-0.0122	-0.0192	-0.0147	-0.0148	-0.0149	-0.0154	-0.0153	-0.0157	
91-95 (5)	1998	-0.1065	-0.1206	-0.1206	-0.1206	-0.1234	-0.0903	-0.0547	-0.0740	-0.0903	-0.0863	-0.0861	-0.0884	-0.0897	-0.0906	-0.0926	
92-96 (5)	1999	0.0980	0.1012	0.1012	0.1036	0.1051	0.1417	0.1252	0.1034	0.0892	0.0874	0.0880	0.0902	0.0917	0.0930	0.0950	
93-97 (5)	2000	0.2228	0.2350	0.2586	0.2605	0.2624	0.2482	0.2173	0.1992	0.1925	0.1943	0.1961	0.2008	0.2041	0.2066	0.2108	
89-94 (6)	1997	-0.0630	-0.1141	-0.1141	-0.1141	-0.1141	-0.0682	-0.0330	-0.0125	-0.0147	-0.0110	-0.0150	-0.0115	-0.0118	-0.0118	-0.0121	
90-95 (6)	1998	-0.0962	-0.1177	-0.1177	-0.1177	-0.1205	-0.0874	-0.0518	-0.0629	-0.0741	-0.0692	-0.0694	-0.0712	-0.0723	-0.0730	-0.0747	
91-96 (6)	1999	0.0939	0.0842	0.0842	0.0866	0.0881	0.1247	0.1199	0.1046	0.0926	0.0947	0.0961	0.0984	0.1000	0.1015	0.1037	
92-97 (6)	2000	0.1804	0.1848	0.2084	0.2103	0.2122	0.2094	0.1901	0.1740	0.1643	0.1625	0.1639	0.1678	0.1706	0.1727	0.1762	
89-95 (7)	1998	-0.0921	-0.1184	-0.1184	-0.1184	-0.1212	-0.0881	-0.0525	-0.0580	-0.0652	-0.0608	-0.0640	-0.0628	-0.0637	-0.0643	-0.0658	
90-96 (7)	1999	0.0785	0.0608	0.0608	0.0632	0.0647	0.1013	0.1043	0.0942	0.0850	0.0883	0.0892	0.0914	0.0929	0.0942	0.0963	
91-97 (7)	2000	0.1790	0.1707	0.1943	0.1962	0.1981	0.2029	0.1927	0.1801	0.1709	0.1722	0.1742	0.1784	0.1813	0.1836	0.1874	
89-96 (8)	1999	0.0655	0.0422	0.0422	0.0446	0.0461	0.0827	0.0911	0.0852	0.0787	0.0819	0.0802	0.0846	0.0860	0.0873	0.0892	
90-97 (8)	2000	0.1672	0.1498	0.1734	0.1753	0.1772	0.1875	0.1843	0.1752	0.1677	0.1700	0.1717	0.1758	0.1787	0.1810	0.1847	
89-97 (9)	2000	0.1562	0.1317	0.1553	0.1572	0.1591	0.1735	0.1757	0.1698	0.1641	0.1666	0.1660	0.1722	0.1750	0.1772	0.1808	

Indemnity

Exponential Fit

Trended Loss Ratios

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Incur)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	0.9030	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8574	0.8732	0.8866	0.9006	0.9129	0.9319
90-93 (4)	1996	0.9191	0.8872	0.8872	0.8872	0.8872	0.8872	0.8872	0.8872	0.8872	0.8757	0.8828	0.9045	0.9187	0.9314	0.9506
91-94 (4)	1997	1.0174	0.9650	0.9650	0.9650	0.9650	0.9650	0.9650	0.9650	0.9995	0.9871	0.9941	1.0183	1.0343	1.0487	1.0701
92-95 (4)	1998	1.1339	1.0334	1.0334	1.0334	1.0334	1.0334	1.0334	1.0963	1.1444	1.1390	1.1485	1.1768	1.1949	1.2115	1.2366
93-96 (4)	1999	0.8811	0.7691	0.7691	0.7691	0.7691	0.8456	0.8986	0.9310	0.9183	0.9260	0.9486	0.9634	0.9769	0.9970	
94-97 (4)	2000	0.8764	0.7399	0.7399	0.7399	0.7399	0.8060	0.8944	0.9340	0.9454	0.9378	0.9453	0.9687	0.9837	0.9977	1.0182
89-93 (5)	1996	0.9382	0.9048	0.9048	0.9048	0.9048	0.9048	0.9048	0.9048	0.8941	0.9078	0.9240	0.9385	0.9515	0.9711	
90-94 (5)	1997	1.0097	0.9622	0.9622	0.9622	0.9622	0.9622	0.9622	0.9879	0.9742	0.9820	1.0060	1.0218	1.0360	1.0573	
91-95 (5)	1998	1.0736	0.9941	0.9941	0.9941	0.9941	0.9941	0.9941	1.0391	1.0772	1.0641	1.0719	1.0982	1.1152	1.1307	1.1540
92-96 (5)	1999	0.9562	0.8452	0.8452	0.8452	0.8452	0.9075	0.9560	0.9923	0.9859	0.9942	1.0185	1.0343	1.0488	1.0704	
93-97 (5)	2000	0.9375	0.7995	0.7995	0.7995	0.7995	0.8524	0.9313	0.9783	1.0078	0.9956	1.0037	1.0284	1.0443	1.0591	1.0809
89-94 (6)	1997	1.0121	0.9666	0.9666	0.9666	0.9666	0.9666	0.9666	0.9870	0.9739	0.9871	1.0062	1.0220	1.0362	1.0575	
90-95 (6)	1998	1.0646	0.9938	0.9938	0.9938	0.9938	0.9938	0.9938	1.0293	1.0611	1.0465	1.0549	1.0808	1.0976	1.1128	1.1358
91-96 (6)	1999	0.9607	0.8633	0.8633	0.8633	0.8633	0.9134	0.9548	0.9885	0.9769	0.9843	1.0083	1.0240	1.0384	1.0597	
92-97 (6)	2000	0.9858	0.8500	0.8500	0.8500	0.8500	0.8944	0.9642	1.0106	1.0447	1.0373	1.0458	1.0715	1.0881	1.1035	1.1262
89-95 (7)	1998	1.0641	0.9984	0.9984	0.9984	0.9984	0.9984	0.9984	1.0277	1.0549	1.0406	1.0536	1.0751	1.0918	1.1069	1.1298
90-96 (7)	1999	0.9803	0.8904	0.8904	0.8904	0.8904	0.9328	0.9692	1.0000	0.9868	0.9947	1.0190	1.0349	1.0493	1.0710	
91-97 (7)	2000	0.9875	0.8647	0.8647	0.8647	0.9017	0.9619	1.0043	1.0377	1.0260	1.0338	1.0592	1.0756	1.0908	1.1132	
89-96 (8)	1999	0.9984	0.9140	0.9140	0.9140	0.9140	0.9140	0.9508	0.9832	1.0113	0.9977	1.0094	1.0306	1.0467	1.0613	1.0832
90-97 (8)	2000	1.0031	0.8884	0.8884	0.8884	0.8884	0.9207	0.9741	1.0130	1.0448	1.0315	1.0397	1.0652	1.0818	1.0970	1.1196
89-97 (9)	2000	1.0192	0.9108	0.9108	0.9108	0.9108	0.9394	0.9875	1.0233	1.0532	1.0394	1.0509	1.0737	1.0903	1.1056	1.1284

Indemnity

Exponential Fit

Differences: (Actual - Trended)

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)	
89-92 (4)	1995	0.0440	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0457	0.0617	0.0708	0.0627	0.0723	0.0732	0.0744	0.0758	
90-93 (4)	1996	-0.0818	-0.1220	-0.1220	-0.1220	-0.1220	-0.1220	-0.0753	-0.0573	-0.0428	-0.0381	-0.0382	-0.0393	-0.0399	-0.0403	-0.0412	
91-94 (4)	1997	-0.0857	-0.1291	-0.1291	-0.1291	-0.1291	-0.1291	-0.0832	-0.0480	-0.0275	-0.0457	-0.0409	-0.0402	-0.0409	-0.0417	-0.0421	-0.0428
92-95 (4)	1998	-0.1849	-0.1730	-0.1730	-0.1730	-0.1758	-0.1427	-0.1071	-0.1494	-0.1810	-0.1833	-0.1847	-0.1895	-0.1922	-0.1946	-0.1989	
93-96 (4)	1999	0.1702	0.1803	0.1803	0.1827	0.1842	0.2208	0.1839	0.1540	0.1399	0.1440	0.1451	0.1487	0.1511	0.1532	0.1565	
94-97 (4)	2000	0.2845	0.2958	0.3194	0.3213	0.3232	0.2980	0.2537	0.2398	0.2488	0.2469	0.2492	0.2551	0.2593	0.2625	0.2679	
89-93 (5)	1996	-0.1009	-0.1396	-0.1396	-0.1396	-0.1396	-0.1396	-0.0929	-0.0749	-0.0604	-0.0565	-0.0632	-0.0588	-0.0597	-0.0604	-0.0617	
90-94 (5)	1997	-0.0780	-0.1263	-0.1263	-0.1263	-0.1263	-0.0804	-0.0452	-0.0247	-0.0341	-0.0280	-0.0281	-0.0286	-0.0292	-0.0294	-0.0300	
91-95 (5)	1998	-0.1246	-0.1337	-0.1337	-0.1337	-0.1365	-0.1034	-0.0678	-0.0922	-0.1138	-0.1084	-0.1081	-0.1109	-0.1125	-0.1138	-0.1163	
92-96 (5)	1999	0.0951	0.1042	0.1042	0.1066	0.1081	0.1447	0.1220	0.0966	0.0786	0.0764	0.0769	0.0788	0.0802	0.0813	0.0831	
93-97 (5)	2000	0.2234	0.2362	0.2598	0.2617	0.2636	0.2516	0.2168	0.1955	0.1864	0.1891	0.1908	0.1954	0.1987	0.2011	0.2052	
89-94 (6)	1997	-0.0804	-0.1307	-0.1307	-0.1307	-0.1307	-0.0848	-0.0496	-0.0291	-0.0332	-0.0277	-0.0332	-0.0288	-0.0294	-0.0296	-0.0302	
90-95 (6)	1998	-0.1156	-0.1334	-0.1334	-0.1334	-0.1362	-0.1031	-0.0675	-0.0824	-0.0977	-0.0908	-0.0911	-0.0935	-0.0949	-0.0959	-0.0981	
91-96 (6)	1999	0.0906	0.0861	0.0861	0.0885	0.0900	0.1266	0.1161	0.0978	0.0824	0.0854	0.0868	0.0890	0.0905	0.0917	0.0938	
92-97 (6)	2000	0.1751	0.1857	0.2093	0.2112	0.2131	0.2096	0.1839	0.1632	0.1495	0.1474	0.1487	0.1523	0.1549	0.1567	0.1599	
89-95 (7)	1998	-0.1151	-0.1380	-0.1380	-0.1380	-0.1408	-0.1077	-0.0721	-0.0808	-0.0915	-0.0849	-0.0898	-0.0878	-0.0891	-0.0900	-0.0921	
90-96 (7)	1999	0.0710	0.0590	0.0590	0.0614	0.0629	0.0995	0.0967	0.0834	0.0709	0.0755	0.0764	0.0783	0.0796	0.0808	0.0825	
91-97 (7)	2000	0.1734	0.1710	0.1946	0.1965	0.1984	0.2023	0.1862	0.1695	0.1565	0.1587	0.1607	0.1646	0.1674	0.1694	0.1729	
89-96 (8)	1999	0.0529	0.0354	0.0354	0.0378	0.0393	0.0759	0.0787	0.0694	0.0596	0.0646	0.0617	0.0667	0.0678	0.0688	0.0703	
90-97 (8)	2000	0.1578	0.1473	0.1709	0.1728	0.1747	0.1833	0.1740	0.1608	0.1494	0.1532	0.1548	0.1586	0.1612	0.1632	0.1665	
89-97 (9)	2000	0.1417	0.1249	0.1485	0.1504	0.1523	0.1646	0.1606	0.1505	0.1410	0.1453	0.1436	0.1501	0.1527	0.1546	0.1577	

Medical**Actual Ultimate Severity Ratios****Including Average of Paid and Incurred**

MEDICAL	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity	Severity
	Policy	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
	Year	(Avg Pd & Inc)	(Incur)	(Pd-2)	(Pd-3)	(Pd-4)	(Pd-5)	(Pd-6)	(Pd-7)	(Pd-8)	(Pd-10)	(Pd-12)	(Pd-14)	(Pd-16)	(Pd-18)
1989	0.4399	0.4318	0.4318	0.4318	0.4318	0.4318	0.4318	0.4318	0.4318	0.4318	0.4318	0.4340	0.4508	0.4423	0.4480
1990	0.4854	0.4731	0.4731	0.4731	0.4731	0.4731	0.4731	0.4731	0.4731	0.4731	0.4762	0.4821	0.5007	0.4912	0.4977
1991	0.5503	0.5390	0.5390	0.5390	0.5390	0.5390	0.5390	0.5390	0.5390	0.5375	0.5441	0.5652	0.5544	0.5617	
1992	0.5800	0.5713	0.5713	0.5713	0.5713	0.5713	0.5713	0.5713	0.5713	0.5623	0.5633	0.5702	0.5924	0.5811	0.5886
1993	0.6101	0.5982	0.5982	0.5982	0.5982	0.5982	0.5982	0.5982	0.5982	0.5940	0.5951	0.6025	0.6258	0.6139	0.6219
1994	0.6605	0.6491	0.6491	0.6491	0.6491	0.6491	0.6491	0.6491	0.6464	0.6416	0.6428	0.6508	0.6759	0.6632	0.6719
1995	0.7390	0.7278	0.7278	0.7278	0.7278	0.7278	0.7278	0.7210	0.7215	0.7163	0.7175	0.7265	0.7546	0.7403	0.7500
1996	0.7577	0.7559	0.7559	0.7559	0.7559	0.7559	0.7320	0.7303	0.7309	0.7256	0.7269	0.7359	0.7643	0.7498	0.7596
1997	0.8647	0.8624	0.8624	0.8624	0.8624	0.8495	0.8357	0.8336	0.8344	0.8284	0.8297	0.8400	0.8725	0.8560	0.8673
1998	0.9290	0.9473	0.9473	0.9473	0.9016	0.8920	0.8774	0.8755	0.8762	0.8699	0.8714	0.8822	0.9163	0.8989	0.9107
1999	0.9817	0.9936	0.9936	0.9857	0.9604	0.9502	0.9348	0.9326	0.9333	0.9265	0.9280	0.9397	0.9760	0.9575	0.9701
2000	1.0971	1.1095	1.1176	1.1026	1.0743	1.0628	1.0455	1.0431	1.0438	1.0364	1.0381	1.0509	1.0916	1.0709	1.0850

Trend # Years =

3

11b.6

**Medical
Linear Fit**

Trended Severity Ratios

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	0.7322	0.7218	0.7218	0.7218	0.7218	0.7218	0.7218	0.7218	0.7074	0.7073	0.7194	0.7475	0.7331	0.7426	
90-93 (4)	1996	0.7382	0.7288	0.7288	0.7288	0.7288	0.7288	0.7288	0.7288	0.7158	0.7152	0.7240	0.7522	0.7378	0.7473	
91-94 (4)	1997	0.7625	0.7501	0.7501	0.7501	0.7501	0.7501	0.7501	0.7458	0.7370	0.7411	0.7505	0.7793	0.7648	0.7748	
92-95 (4)	1998	0.8847	0.8708	0.8708	0.8708	0.8708	0.8708	0.8599	0.8588	0.8579	0.8593	0.8702	0.9037	0.8867	0.8985	
93-96 (4)	1999	0.9264	0.9311	0.9311	0.9311	0.9311	0.8928	0.8853	0.8872	0.8807	0.8821	0.8931	0.9275	0.9100	0.9219	
94-97 (4)	2000	1.0396	1.0494	1.0494	1.0494	1.0288	0.9899	0.9868	0.9913	0.9843	0.9858	0.9980	1.0366	1.0169	1.0303	
89-93 (5)	1996	0.7506	0.7382	0.7382	0.7382	0.7382	0.7382	0.7382	0.7268	0.7276	0.7391	0.7678	0.7531	0.7629		
90-94 (5)	1997	0.7823	0.7717	0.7717	0.7717	0.7717	0.7717	0.7717	0.7685	0.7580	0.7584	0.7678	0.7975	0.7825	0.7927	
91-95 (5)	1998	0.8569	0.8448	0.8448	0.8448	0.8448	0.8448	0.8366	0.8353	0.8276	0.8310	0.8415	0.8739	0.8575	0.8688	
92-96 (5)	1999	0.9116	0.9099	0.9099	0.9099	0.9099	0.8812	0.8744	0.8749	0.8724	0.8739	0.8849	0.9189	0.9016	0.9135	
93-97 (5)	2000	1.0296	1.0363	1.0363	1.0363	1.0208	0.9875	0.9824	0.9847	0.9776	0.9791	0.9912	1.0295	1.0100	1.0234	
89-94 (6)	1997	0.7911	0.7785	0.7785	0.7785	0.7785	0.7785	0.7785	0.7760	0.7658	0.7670	0.7785	0.8086	0.7933	0.8037	
90-95 (6)	1998	0.8602	0.8493	0.8493	0.8493	0.8493	0.8493	0.8493	0.8429	0.8416	0.8322	0.8330	0.8434	0.8760	0.8595	0.8707
91-96 (6)	1999	0.8954	0.8924	0.8924	0.8924	0.8924	0.8924	0.8697	0.8637	0.8637	0.8565	0.8595	0.8703	0.9038	0.8868	0.8984
92-97 (6)	2000	1.0076	1.0095	1.0095	1.0095	1.0095	0.9973	0.9689	0.9636	0.9649	0.9609	0.9624	0.9744	1.0120	0.9929	1.0061
89-95 (7)	1998	0.8609	0.8484	0.8484	0.8484	0.8484	0.8484	0.8484	0.8431	0.8420	0.8323	0.8337	0.8457	0.8784	0.8618	0.8731
90-96 (7)	1999	0.8993	0.8957	0.8957	0.8957	0.8957	0.8957	0.8769	0.8717	0.8715	0.8627	0.8638	0.8746	0.9084	0.8912	0.9028
91-97 (7)	2000	0.9862	0.9867	0.9867	0.9867	0.9867	0.9766	0.9521	0.9471	0.9478	0.9404	0.9432	0.9549	0.9918	0.9731	0.9859
89-96 (8)	1999	0.9010	0.8950	0.8950	0.8950	0.8950	0.8950	0.8791	0.8745	0.8742	0.8650	0.8665	0.8786	0.9125	0.8953	0.9070
90-97 (8)	2000	0.9825	0.9822	0.9822	0.9822	0.9822	0.9736	0.9521	0.9474	0.9479	0.9391	0.9404	0.9521	0.9889	0.9702	0.9829
89-97 (9)	2000	0.9789	0.9762	0.9762	0.9762	0.9762	0.9688	0.9498	0.9454	0.9457	0.9365	0.9381	0.9509	0.9877	0.9690	0.9817

**Medical
Linear Fit**

Differences: (Actual - Trended)

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	0.0068	0.0060	0.0060	0.0060	0.0060	0.0060	-0.0008	-0.0003	0.0089	0.0102	0.0071	0.0071	0.0072	0.0074	
90-93 (4)	1996	0.0195	0.0271	0.0271	0.0271	0.0271	0.0271	0.0032	0.0015	0.0021	0.0098	0.0117	0.0119	0.0121	0.0120	0.0124
91-94 (4)	1997	0.1022	0.1123	0.1123	0.1123	0.1123	0.0994	0.0856	0.0835	0.0886	0.0914	0.0886	0.0895	0.0932	0.0912	0.0925
92-95 (4)	1998	0.0443	0.0765	0.0765	0.0765	0.0308	0.0212	0.0066	0.0156	0.0174	0.0120	0.0121	0.0120	0.0126	0.0122	0.0122
93-96 (4)	1999	0.0553	0.0625	0.0625	0.0546	0.0293	0.0191	0.0420	0.0473	0.0461	0.0458	0.0459	0.0466	0.0485	0.0475	0.0482
94-97 (4)	2000	0.0575	0.0601	0.0682	0.0532	0.0249	0.0340	0.0556	0.0563	0.0525	0.0521	0.0523	0.0529	0.0550	0.0540	0.0547
89-93 (5)	1996	0.0071	0.0177	0.0177	0.0177	0.0177	0.0177	-0.0062	-0.0079	-0.0073	-0.0012	-0.0007	-0.0032	-0.0035	-0.0033	-0.0033
90-94 (5)	1997	0.0824	0.0907	0.0907	0.0907	0.0907	0.0778	0.0640	0.0619	0.0659	0.0704	0.0713	0.0722	0.0750	0.0735	0.0746
91-95 (5)	1998	0.0721	0.1025	0.1025	0.1025	0.0568	0.0472	0.0326	0.0389	0.0409	0.0423	0.0404	0.0407	0.0424	0.0414	0.0419
92-96 (5)	1999	0.0701	0.0837	0.0837	0.0758	0.0505	0.0403	0.0536	0.0582	0.0584	0.0541	0.0541	0.0548	0.0571	0.0559	0.0567
93-97 (5)	2000	0.0675	0.0732	0.0813	0.0663	0.0380	0.0420	0.0580	0.0607	0.0591	0.0588	0.0591	0.0597	0.0621	0.0609	0.0616
89-94 (6)	1997	0.0736	0.0839	0.0839	0.0839	0.0839	0.0710	0.0572	0.0551	0.0584	0.0626	0.0627	0.0615	0.0639	0.0627	0.0636
90-95 (6)	1998	0.0688	0.0980	0.0980	0.0980	0.0523	0.0427	0.0281	0.0326	0.0346	0.0377	0.0384	0.0388	0.0403	0.0394	0.0400
91-96 (6)	1999	0.0863	0.1012	0.1012	0.0933	0.0680	0.0578	0.0651	0.0689	0.0696	0.0700	0.0685	0.0694	0.0722	0.0707	0.0717
92-97 (6)	2000	0.0895	0.1000	0.1081	0.0931	0.0648	0.0655	0.0766	0.0795	0.0789	0.0755	0.0757	0.0765	0.0796	0.0780	0.0789
89-95 (7)	1998	0.0681	0.0989	0.0989	0.0989	0.0532	0.0436	0.0290	0.0324	0.0343	0.0376	0.0377	0.0365	0.0379	0.0371	0.0376
90-96 (7)	1999	0.0824	0.0979	0.0979	0.0900	0.0647	0.0545	0.0579	0.0609	0.0618	0.0638	0.0642	0.0651	0.0676	0.0663	0.0673
91-97 (7)	2000	0.1109	0.1228	0.1309	0.1159	0.0876	0.0862	0.0934	0.0960	0.0960	0.0949	0.0960	0.0998	0.0978	0.0991	
89-96 (8)	1999	0.0807	0.0986	0.0986	0.0907	0.0654	0.0552	0.0557	0.0581	0.0591	0.0615	0.0615	0.0611	0.0635	0.0622	0.0631
90-97 (8)	2000	0.1146	0.1273	0.1354	0.1204	0.0921	0.0892	0.0934	0.0957	0.0959	0.0973	0.0977	0.0988	0.1027	0.1007	0.1021
89-97 (9)	2000	0.1182	0.1333	0.1414	0.1264	0.0981	0.0940	0.0957	0.0977	0.0981	0.0999	0.1000	0.1000	0.1039	0.1019	0.1033

Medical

Exponential Fit

Trended Loss Ratios

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	0.7852	0.7750	0.7750	0.7750	0.7750	0.7750	0.7750	0.7750	0.7555	0.7552	0.7705	0.8006	0.7851	0.7954	
90-93 (4)	1996	0.7731	0.7656	0.7656	0.7656	0.7656	0.7656	0.7656	0.7656	0.7486	0.7468	0.7561	0.7855	0.7705	0.7803	
91-94 (4)	1997	0.7838	0.7716	0.7716	0.7716	0.7716	0.7716	0.7716	0.7716	0.7664	0.7560	0.7613	0.7710	0.8005	0.7857	0.7959
92-95 (4)	1998	0.9266	0.9118	0.9118	0.9118	0.9118	0.9118	0.9118	0.8982	0.8966	0.8985	0.9000	0.9115	0.9465	0.9288	0.9412
93-96 (4)	1999	0.9713	0.9817	0.9817	0.9817	0.9817	0.9817	0.9325	0.9229	0.9254	0.9185	0.9200	0.9314	0.9673	0.9490	0.9614
94-97 (4)	2000	1.0941	1.1120	1.1120	1.1120	1.1120	1.0855	1.0339	1.0300	1.0368	1.0296	1.0310	1.0437	1.0842	1.0635	1.0775
89-93 (5)	1996	0.8026	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7747	0.7754	0.7895	0.8202	0.8045	0.8149	
90-94 (5)	1997	0.8227	0.8138	0.8138	0.8138	0.8138	0.8138	0.8138	0.8097	0.7960	0.7956	0.8056	0.8367	0.8210	0.8316	
91-95 (5)	1998	0.8951	0.8832	0.8832	0.8832	0.8832	0.8832	0.8832	0.8733	0.8715	0.8624	0.8670	0.8781	0.9118	0.8948	0.9065
92-96 (5)	1999	0.9573	0.9583	0.9583	0.9583	0.9583	0.9583	0.9220	0.9134	0.9140	0.9136	0.9151	0.9267	0.9622	0.9441	0.9566
93-97 (5)	2000	1.0948	1.1092	1.1092	1.1092	1.1092	1.0893	1.0444	1.0376	1.0408	1.0332	1.0347	1.0475	1.0880	1.0674	1.0816
89-94 (6)	1997	0.8490	0.8364	0.8364	0.8364	0.8364	0.8364	0.8364	0.8331	0.8193	0.8205	0.8344	0.8667	0.8503	0.8614	
90-95 (6)	1998	0.9154	0.9063	0.9063	0.9063	0.9063	0.9063	0.9063	0.8982	0.8964	0.8839	0.8841	0.8952	0.9298	0.9123	0.9242
91-96 (6)	1999	0.9413	0.9409	0.9409	0.9409	0.9409	0.9409	0.9126	0.9051	0.9050	0.8967	0.9008	0.9122	0.9473	0.9295	0.9416
92-97 (6)	2000	1.0730	1.0796	1.0796	1.0796	1.0796	1.0642	1.0265	1.0194	1.0211	1.0191	1.0206	1.0334	1.0732	1.0530	1.0670
89-95 (7)	1998	0.9332	0.9211	0.9211	0.9211	0.9211	0.9211	0.9211	0.9143	0.9126	0.8993	0.9008	0.9154	0.9508	0.9328	0.9450
90-96 (7)	1999	0.9621	0.9623	0.9623	0.9623	0.9623	0.9623	0.9383	0.9316	0.9312	0.9197	0.9204	0.9319	0.9679	0.9496	0.9620
91-97 (7)	2000	1.0508	1.0557	1.0557	1.0557	1.0557	1.0433	1.0112	1.0045	1.0054	0.9970	1.0008	1.0134	1.0524	1.0326	1.0463
89-96 (8)	1999	0.9818	0.9782	0.9782	0.9782	0.9782	0.9782	0.9575	0.9514	0.9508	0.9382	0.9398	0.9545	0.9913	0.9725	0.9853
90-97 (8)	2000	1.0634	1.0686	1.0686	1.0686	1.0686	1.0579	1.0294	1.0230	1.0235	1.0120	1.0128	1.0255	1.0651	1.0450	1.0587
89-97 (9)	2000	1.0781	1.0795	1.0795	1.0795	1.0795	1.0701	1.0445	1.0385	1.0387	1.0259	1.0276	1.0432	1.0834	1.0629	1.0770

Medical

Exponential Fit

Differences: (Actual - Trended)

Years Used (# Yrs)	3 Yr Trend To	Severity Ratio (Avg Pd & Inc)	Severity Ratio (Incur)	Severity Ratio (Pd-2)	Severity Ratio (Pd-3)	Severity Ratio (Pd-4)	Severity Ratio (Pd-5)	Severity Ratio (Pd-6)	Severity Ratio (Pd-7)	Severity Ratio (Pd-8)	Severity Ratio (Pd-10)	Severity Ratio (Pd-12)	Severity Ratio (Pd-14)	Severity Ratio (Pd-16)	Severity Ratio (Pd-18)	Severity Ratio (Pd-20)
89-92 (4)	1995	-0.0462	-0.0472	-0.0472	-0.0472	-0.0472	-0.0472	-0.0472	-0.0540	-0.0535	-0.0392	-0.0377	-0.0440	-0.0460	-0.0448	-0.0454
90-93 (4)	1996	-0.0154	-0.0097	-0.0097	-0.0097	-0.0097	-0.0097	-0.0336	-0.0353	-0.0347	-0.0230	-0.0199	-0.0202	-0.0212	-0.0207	-0.0207
91-94 (4)	1997	0.0809	0.0908	0.0908	0.0908	0.0779	0.0641	0.0620	0.0680	0.0724	0.0684	0.0690	0.0720	0.0703	0.0714	
92-95 (4)	1998	0.0024	0.0355	0.0355	0.0355	-0.0102	-0.0198	-0.0344	-0.0227	-0.0204	-0.0286	-0.0286	-0.0293	-0.0302	-0.0299	-0.0305
93-96 (4)	1999	0.0104	0.0119	0.0119	0.0040	-0.0213	-0.0315	0.0023	0.0097	0.0079	0.0080	0.0080	0.0083	0.0087	0.0085	0.0087
94-97 (4)	2000	0.0030	-0.0025	0.0056	-0.0094	-0.0377	-0.0227	0.0116	0.0131	0.0070	0.0068	0.0071	0.0072	0.0074	0.0074	0.0075
89-93 (5)	1996	-0.0449	-0.0341	-0.0341	-0.0341	-0.0341	-0.0341	-0.0580	-0.0597	-0.0591	-0.0491	-0.0485	-0.0536	-0.0559	-0.0547	-0.0553
90-94 (5)	1997	0.0420	0.0486	0.0486	0.0486	0.0486	0.0357	0.0219	0.0198	0.0247	0.0324	0.0341	0.0344	0.0358	0.0350	0.0357
91-95 (5)	1998	0.0339	0.0641	0.0641	0.0641	0.0184	0.0088	-0.0058	0.0022	0.0047	0.0075	0.0044	0.0041	0.0045	0.0041	0.0042
92-96 (5)	1999	0.0244	0.0353	0.0353	0.0274	0.0021	-0.0081	0.0128	0.0192	0.0193	0.0129	0.0129	0.0130	0.0138	0.0134	0.0135
93-97 (5)	2000	0.0023	0.0003	0.0084	-0.0066	-0.0349	-0.0265	0.0011	0.0055	0.0030	0.0032	0.0034	0.0034	0.0036	0.0035	0.0034
89-94 (6)	1997	0.0157	0.0260	0.0260	0.0260	0.0260	0.0131	-0.0007	-0.0028	0.0013	0.0091	0.0092	0.0056	0.0058	0.0057	0.0059
90-95 (6)	1998	0.0136	0.0410	0.0410	0.0410	-0.0047	-0.0143	-0.0289	-0.0227	-0.0202	-0.0140	-0.0127	-0.0130	-0.0135	-0.0134	-0.0135
91-96 (6)	1999	0.0404	0.0527	0.0527	0.0448	0.0195	0.0093	0.0222	0.0275	0.0283	0.0298	0.0272	0.0275	0.0287	0.0280	0.0285
92-97 (6)	2000	0.0241	0.0299	0.0380	0.0230	-0.0053	-0.0014	0.0190	0.0237	0.0227	0.0173	0.0175	0.0175	0.0184	0.0179	0.0180
89-95 (7)	1998	-0.0042	0.0262	0.0262	0.0262	-0.0195	-0.0291	-0.0437	-0.0388	-0.0364	-0.0294	-0.0294	-0.0332	-0.0345	-0.0339	-0.0343
90-96 (7)	1999	0.0196	0.0313	0.0313	0.0234	-0.0019	-0.0121	-0.0035	0.0010	0.0021	0.0068	0.0076	0.0078	0.0081	0.0079	0.0081
91-97 (7)	2000	0.0463	0.0538	0.0619	0.0469	0.0186	0.0195	0.0343	0.0386	0.0384	0.0394	0.0373	0.0375	0.0392	0.0383	0.0387
89-96 (8)	1999	-0.0001	0.0154	0.0154	0.0075	-0.0178	-0.0280	-0.0227	-0.0188	-0.0175	-0.0117	-0.0118	-0.0148	-0.0153	-0.0150	-0.0152
90-97 (8)	2000	0.0337	0.0409	0.0490	0.0340	0.0057	0.0049	0.0161	0.0201	0.0203	0.0244	0.0253	0.0254	0.0265	0.0259	0.0263
89-97 (9)	2000	0.0190	0.0300	0.0381	0.0231	-0.0052	-0.0073	0.0010	0.0046	0.0051	0.0105	0.0105	0.0077	0.0082	0.0080	0.0080

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