

PENNSYLVANIA COMPENSATION RATING BUREAU

Loss Elimination Ratios

The attached pages show the derivation of loss elimination ratios applicable to small deductible coverages at the \$1,000, \$5,000 and \$10,000 levels.

The method used is very similar to that employed in the calculation of excess loss factors and also relies solely on Pennsylvania experience. Within each hazard group, excess ratios by type of injury are weighted together to derive average excess ratios as shown on Page 2.

Page 1 shows the proposed loss elimination ratios which are the complement of the excess loss factors from Page 3 and compares the proposed 2018 loss elimination ratios with the current loss elimination ratios.

PENNSYLVANIA  
SMALL DEDUCTIBLE PROGRAM  
PROPOSED EFFECTIVE DATE: 4/1/18

Deductible Level	Proposed Loss Elimination Ratios							Current Loss Elimination Ratios							Percentage Change						
	Hazard Group							Hazard Group							Hazard Group						
	A	B	C	D	E	F	G	A	B	C	D	E	F	G	A	B	C	D	E	F	G
\$ 1,000	8.7%	7.3%	6.2%	4.8%	3.6%	3.1%	3.0%	9.3%	7.8%	6.5%	5.1%	3.8%	3.4%	3.0%	-6.5%	-6.4%	-4.6%	-5.9%	-5.3%	-8.8%	0.0%
\$ 5,000	20.8%	17.4%	15.1%	12.0%	9.4%	7.9%	7.2%	22.2%	18.6%	15.8%	12.8%	9.9%	8.7%	7.4%	-6.3%	-6.5%	-4.4%	-6.3%	-5.1%	-9.2%	-2.7%
\$ 10,000	28.7%	24.1%	21.3%	17.2%	13.9%	11.7%	10.6%	30.4%	25.6%	22.1%	18.3%	14.6%	12.9%	10.9%	-5.6%	-5.9%	-3.6%	-6.0%	-4.8%	-9.3%	-2.8%

SMALL DEDUCTIBLE CREDIT FACTORS  
 PENNSYLVANIA Effective:4/1/18  
 Excess Loss Factors Calculation

LOSS LIMIT	DEATH				PT				PP				TT				MO				AVE. EX. RAT.
	RATIO TO AVE.	INJ. WGT.	EXCESS RATIO	EXCESS RATIO X INJ. WT.	RATIO TO AVE.	INJ. WGT.	EXCESS RATIO	EXCESS RATIO X INJ. WT.	RATIO TO AVE.	INJ. WGT.	EXCESS RATIO	EXCESS RATIO X INJ. WT.	RATIO TO AVE.	INJ. WGT.	EXCESS RATIO	EXCESS RATIO X INJ. WT.	RATIO TO AVE.	INJ. WGT.	EXCESS RATIO	EXCESS RATIO X INJ. WT.	
Hazard Group A																					
\$1,000	0.00	0.010	0.9977	0.0100	0.00	0.004	0.9994	0.0040	0.01	0.463	0.9918	0.4592	0.04	0.372	0.9580	0.3564		0.151	0.6055	0.0914	0.9210
\$5,000	0.01		0.9904	0.0099	0.00		0.9970	0.0040	0.04		0.9601	0.4445	0.21		0.8167	0.3038			0.2370	0.0358	0.7980
\$10,000	0.02		0.9814	0.0098	0.01		0.9940	0.0040	0.08		0.9233	0.4275	0.42		0.6889	0.2563			0.1338	0.0202	0.7178
Hazard Group B																					
\$1,000	0.00	0.011	0.9978	0.0110	0.00	0.008	0.9994	0.0080	0.01	0.561	0.9930	0.5571	0.04	0.290	0.9601	0.2784		0.130	0.6206	0.0807	0.9352
\$5,000	0.01		0.9904	0.0109	0.00		0.9973	0.0080	0.04		0.9657	0.5418	0.20		0.8246	0.2391			0.2489	0.0324	0.8322
\$10,000	0.02		0.9816	0.0108	0.01		0.9947	0.0080	0.07		0.9336	0.5238	0.40		0.7002	0.2031			0.1416	0.0184	0.7641
Hazard Group C																					
\$1,000	0.00	0.012	0.9978	0.0120	0.00	0.011	0.9995	0.0110	0.01	0.587	0.9940	0.5835	0.04	0.282	0.9621	0.2713		0.108	0.6354	0.0686	0.9464
\$5,000	0.01		0.9906	0.0119	0.00		0.9976	0.0110	0.03		0.9705	0.5697	0.19		0.8323	0.2347			0.2612	0.0282	0.8555
\$10,000	0.02		0.9819	0.0118	0.01		0.9953	0.0109	0.06		0.9427	0.5534	0.38		0.7113	0.2006			0.1498	0.0162	0.7929
Hazard Group D																					
\$1,000	0.00	0.015	0.9978	0.0150	0.00	0.019	0.9996	0.0190	0.01	0.645	0.9949	0.6417	0.04	0.242	0.9640	0.2333		0.079	0.6499	0.0513	0.9603
\$5,000	0.01		0.9909	0.0149	0.00		0.9979	0.0190	0.03		0.9747	0.6287	0.18		0.8397	0.2032			0.2740	0.0216	0.8874
\$10,000	0.02		0.9824	0.0147	0.00		0.9959	0.0189	0.05		0.9506	0.6131	0.36		0.7221	0.1747			0.1583	0.0125	0.8339
Hazard Group E																					
\$1,000	0.00	0.016	0.9979	0.0160	0.00	0.023	0.9996	0.0230	0.00	0.688	0.9956	0.6850	0.03	0.221	0.9658	0.2135		0.052	0.6641	0.0345	0.9720
\$5,000	0.01		0.9912	0.0159	0.00		0.9982	0.0230	0.02		0.9783	0.6730	0.17		0.8468	0.1871			0.2870	0.0149	0.9139
\$10,000	0.02		0.9831	0.0157	0.00		0.9965	0.0229	0.05		0.9574	0.6587	0.34		0.7327	0.1619			0.1672	0.0087	0.8679
Hazard Group F																					
\$1,000	0.00	0.034	0.9980	0.0339	0.00	0.042	0.9997	0.0420	0.00	0.694	0.9962	0.6914	0.03	0.186	0.9676	0.1800		0.044	0.6781	0.0298	0.9771
\$5,000	0.01		0.9916	0.0337	0.00		0.9985	0.0419	0.02		0.9814	0.6811	0.16		0.8536	0.1588			0.3005	0.0132	0.9287
\$10,000	0.02		0.9839	0.0335	0.00		0.9970	0.0419	0.04		0.9634	0.6686	0.32		0.7430	0.1382			0.1765	0.0078	0.8900
Hazard Group G																					
\$1,000	0.00	0.054	0.9981	0.0539	0.00	0.061	0.9997	0.0610	0.00	0.684	0.9968	0.6818	0.03	0.155	0.9692	0.1502		0.046	0.6916	0.0318	0.9787
\$5,000	0.01		0.9921	0.0536	0.00		0.9987	0.0609	0.02		0.9840	0.6731	0.15		0.8603	0.1333			0.3143	0.0145	0.9354
\$10,000	0.02		0.9848	0.0532	0.00		0.9975	0.0608	0.03		0.9685	0.6625	0.31		0.7531	0.1167			0.1862	0.0086	0.9018

Pennsylvania  
Loss Elimination Ratio Study

Loss Limitation (1)	Pennsylvania Hazard Group Per - Claim Factors							ELF adjusted for LBA's							ELF adjusted for LBA's & Risk Load						
	HG A	HG B	HG C	HG D	HG E	HG F	HG G	LBA Factor = 0.9863							HG A	HG B	HG C	HG D	HG E	HG F	HG G
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	HG A (6) (2)*LBA	HG B (7) (3)*LBA	HG C (8) (4)*LBA	HG D (9) (5)*LBA	HG E (10) (6)*LBA	HG F (11) (7)*LBA	HG G (12) (8)*LBA	(13)	(14)	(15)	(16)	(17)	(18)	(19)
															Columns (2)-(5) + 0.005 (Max Adj = 1/2 ELF)						
\$1,000	0.9210	0.9352	0.9464	0.9603	0.9720	0.9771	0.9787	0.9084	0.9224	0.9334	0.9471	0.9587	0.9637	0.9653	0.913	0.927	0.938	0.952	0.964	0.969	0.970
\$5,000	0.7980	0.8322	0.8555	0.8874	0.9139	0.9287	0.9354	0.7871	0.8208	0.8438	0.8752	0.9014	0.9160	0.9226	0.792	0.826	0.849	0.880	0.906	0.921	0.928
\$10,000	0.7178	0.7641	0.7929	0.8339	0.8679	0.8900	0.9018	0.7080	0.7536	0.7820	0.8225	0.8560	0.8778	0.8894	0.713	0.759	0.787	0.828	0.861	0.883	0.894