

PENNSYLVANIA COMPENSATION RATING BUREAU

Loss Elimination Ratios

The attached pages show the derivation of loss elimination ratios applicable to small deductible coverages.

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.

Since the Pennsylvania loss distribution did not break at \$1,000, factors derived from the general methodology which related the excess ratio for the \$1,000 limit to those at \$5,000 and \$10,000 were used to estimate the \$1,000 figure for the Pennsylvania data. The excess factors were then adjusted to reflect the inclusion of loss based assessments in Bureau loss costs (col. (6) - (9)). Columns (10) through (13) of page 3 show the resulting excess factors.

Page 1 shows the proposed loss elimination ratios which are the complement of the excess loss factors from page 3.

PENNSYLVANIA
 SMALL DEDUCTIBLE PROGRAM
 PROPOSED EFFECTIVE DATE: 4/1/08

Deductible Level	Proposed Loss Elimination Ratios				Current Loss Elimination Ratios				Percentage Change			
	Hazard Group				Hazard Group				Hazard Group			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
\$ 1,000	6.8%	5.3%	4.0%	2.8%	7.6%	7.4%	3.8%	1.5%	-10.5%	-28.4%	5.3%	86.7%
\$ 5,000	24.9%	18.5%	14.3%	9.2%	21.0%	20.6%	15.2%	12.2%	18.6%	-10.2%	-5.9%	-24.6%
\$ 10,000	32.4%	24.4%	19.3%	12.9%	28.6%	27.5%	20.0%	16.1%	13.3%	-11.3%	-3.5%	-19.9%

SMALL DEDUCTIBLE CREDIT FACTORS

PENNSYLVANIA Effective:4/1/08

Excess Loss Factors Calculation

LOSS LIMIT	DEATH				PT				PP				TT				(1) AVE. EX. RAT.	(2) P.L.R. EXCL. ASSES.	(3) IND. ELF 1X2	(4) FLAT FACTOR	(5) FINAL ELF 3+4
	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 I																					
\$1,000	0.00	0.008	0.9974	0.0080	0.00	0.034	0.9993	0.0340	0.01	0.521	0.9907	0.5161	0.08	0.315	0.922	0.2904	0.8485	0.986	0.837	0.005	0.842
\$2,000	0.01		0.9923	0.0079	0.00		0.9987	0.0340	0.02		0.9814	0.5113	0.16		0.853	0.2686	0.8218		0.810	0.005	0.815
\$5,000	0.02		0.9778	0.0078	0.00		0.9968	0.0339	0.05		0.9547	0.4974	0.40		0.691	0.2176	0.7567		0.746	0.005	0.751
\$10,000	0.05		0.9560	0.0076	0.01		0.9936	0.0338	0.09		0.9130	0.4757	0.80		0.517	0.1630	0.6801		0.671	0.005	0.676
Hazard Group II																					
\$1,000	0.00	0.007	0.9984	0.0070	0.00	0.046	0.9995	0.0460	0.01	0.593	0.9939	0.5894	0.07	0.259	0.936	0.2423	0.8847	0.986	0.872	0.005	0.877
\$2,000	0.01		0.9942	0.0070	0.00		0.9991	0.0460	0.01		0.9878	0.5858	0.13		0.877	0.2271	0.8659		0.854	0.005	0.859
\$5,000	0.02		0.9822	0.0069	0.00		0.9977	0.0459	0.03		0.9700	0.5752	0.33		0.734	0.1901	0.8181		0.807	0.005	0.812
\$10,000	0.04		0.9638	0.0067	0.00		0.9954	0.0458	0.06		0.9416	0.5584	0.66		0.571	0.1479	0.7588		0.748	0.005	0.753
Hazard Group III																					
\$1,000	0.00	0.018	0.9997	0.0180	0.00	0.074	0.9996	0.0740	0.00	0.629	0.9952	0.6260	0.07	0.218	0.934	0.2035	0.9215	0.986	0.909	0.005	0.914
\$2,000	0.01		0.9967	0.0179	0.00		0.9992	0.0739	0.01		0.9904	0.6230	0.14		0.873	0.1904	0.9052		0.893	0.005	0.898
\$5,000	0.01		0.9882	0.0178	0.00		0.9981	0.0739	0.02		0.9763	0.6141	0.34		0.727	0.1586	0.8644		0.852	0.005	0.857
\$10,000	0.03		0.9747	0.0175	0.00		0.9962	0.0737	0.05		0.9536	0.5998	0.68		0.562	0.1226	0.8136		0.802	0.005	0.807
Hazard Group IV																					
\$1,000	0.00	0.026	1.0001	0.0260	0.00	0.126	0.9998	0.1260	0.00	0.660	0.9961	0.6574	0.06	0.154	0.942	0.1451	0.9545	0.986	0.941	0.005	0.946
\$2,000	0.00		0.9977	0.0259	0.00		0.9996	0.1259	0.01		0.9922	0.6548	0.12		0.889	0.1368	0.9434		0.930	0.005	0.935
\$5,000	0.01		0.9904	0.0258	0.00		0.9989	0.1259	0.02		0.9806	0.6472	0.29		0.756	0.1164	0.9153		0.902	0.005	0.907
\$10,000	0.02		0.9790	0.0255	0.00		0.9979	0.1257	0.04		0.9619	0.6349	0.59		0.599	0.0923	0.8784		0.866	0.005	0.871

All Hazard Groups Combined

Relativities

LOSS LIMIT	HG I		HG II		HG III		HG IV		WGTD EXCESS RATIO	Relativity to Total Per - Claim			
	EXCESS RATIO	HG I WGT.	EXCESS RATIO	HG II WGT.	EXCESS RATIO	HG III WGT.	EXCESS RATIO	HG IV WGT.		HG I	HG II	HG III	HG IV
\$1,000	0.8485	0.0430	0.8847	0.4520	0.9215	0.4010	0.9545	0.1040	0.9052	0.9374	0.9774	1.0180	1.0545
\$2,000	0.8218	0.0430	0.8659	0.4520	0.9052	0.4010	0.9434	0.1040	0.8878	0.9257	0.9753	1.0196	1.0626
\$5,000	0.7567	0.0430	0.8181	0.4520	0.8644	0.4010	0.9153	0.1040	0.8441	0.8965	0.9692	1.0240	1.0844
\$10,000	0.6801	0.0430	0.7588	0.4520	0.8136	0.4010	0.8784	0.1040	0.7898	0.8611	0.9607	1.0301	1.1122

Pennsylvania
Loss Elimination Ratio Study

Loss Limitation	Pennsylvania Excess Ratio	
	(1)	
	Implied @ 1,000	
\$1,000	0.9623	(a)
\$2,000	0.8878	(b)
\$5,000	0.8442	(b)
\$10,000	0.7900	(b)

Loss Limitation	Pennsylvania Hazard Group Per - Claim Factors				ELF adjusted for LBA's LBA Factor = 0.986				ELF adjusted for LBA's & Risk Load			
	HG I	HG II	HG III	HG IV	HG I	HG II	HG III	HG IV	HG I	HG II	HG III	HG IV
	(2)	(3)	(4)	(5)	(6) (2)*LBA	(7) (3)*LBA	(8) (4)*LBA	(9) (5)*LBA	(10)	(11)	(12)	(13)
	Columns (2)-(5) + 0.005 (Max Adj = 1/2 ELF)											
\$1,000	0.9401	0.9549	0.9681	0.9810	0.9269	0.9415	0.9545	0.9673	0.932	0.947	0.960	0.972
\$5,000	0.7567	0.8213	0.8644	0.9153	0.7461	0.8098	0.8523	0.9025	0.751	0.815	0.857	0.908
\$10,000	0.6801	0.7617	0.8136	0.8784	0.6706	0.7511	0.8022	0.8661	0.676	0.756	0.807	0.871

- (a) Selected
- (b) From the Pennsylvania Empirical Loss Distribution