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. The methodology for calculating excess loss factors on a per-claim basis, (the complements of which are loss elimination ratios), is shown on page 3. The bottom of page 3 shows average excess loss factors for all hazard groups combined and relativities of individual hazard groups to the total.

Page 2 applies the hazard group relativities from page 3 to the excess loss factors (per claim) indicated by the Pennsylvania loss distribution. 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. (14) - (21)). Columns (18) through (21) of page 2 show the resulting excess factors.

Page 1 shows the proposed loss elimination ratios which are the complement of the per-claim excess loss factors from page 2.

PENNSYLVANIA SMALL DEDUCTIBLE PROGRAM PROPOSED EFFECTIVE DATE: 4/1/02

Proposed Current **Loss Elimination Ratios Loss Elimination Ratios** Percentage Change Deductible Hazard Group Hazard Group Hazard Group IV Ш IV Ш IV Level Ш Ш Ш Ш 1,000 7.7% 7.5% 4.1% 2.4% 7.9% 7.6% 4.1% 2.0% -2.5% -1.3% 0.0% 20.0% \$ 5,000 23.4% 22.6% 16.8% 21.7% 16.0% 4.1% 5.0% 12.1% 13.9% 22.6% 12.4% 3.5% \$ 10,000 31.5% 30.1% 23.0% 18.5% 29.3% 6.0% 30.8% 21.7% 17.6% 2.3% 2.7% 5.1%

SMALL DEDUCTIBLE CREDIT FACTORS

PENNSYLVANIA

Effective:04/01/02

Non-Escalating Fatal Benefits -- Non-Escalating PT/Major Benefits

Excess Loss Factors Calculation

Per Claim Basis

	DEATH				P.T./MAJOR			MINOR/T.T.		(4)	(2)	(2)	(4)	(E)			
LOSS LIMIT	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.	_ (1) AVE. EX. RAT.	(2) P.L.R. EXCL. ASSES.	(3) IND. ELF 1X2	(4) FLAT FACTOR	(5) FINAL ELF 3+4
						Haza	ard Group I										
\$1,000 \$2,000 \$5,000 \$10,000	0.00 0.01 0.02 0.05	0.005	0.995 0.990 0.981 0.955	0.005 0.005 0.005 0.005	0.00 0.01 0.02 0.04	0.544	0.996 0.990 0.980 0.960	0.542 0.539 0.533 0.522	0.07 0.14 0.35 0.70	0.397	0.939 0.888 0.762 0.610	0.373 0.353 0.303 0.242	0.920 0.897 0.841 0.769	0.993	0.914 0.891 0.835 0.764	0.005 0.005 0.005 0.005	0.919 0.896 0.840 0.769
Hazard Group II																	
\$1,000 \$2,000 \$5,000 \$10,000	0.00 0.01 0.02 0.04	0.010	0.996 0.990 0.981 0.964	0.010 0.010 0.010 0.010	0.00 0.01 0.02 0.04	0.583	0.996 0.990 0.980 0.960	0.581 0.577 0.571 0.560	0.07 0.14 0.35 0.70	0.353	0.939 0.888 0.762 0.610	0.331 0.313 0.269 0.215	0.922 0.900 0.850 0.785	0.993	0.916 0.894 0.844 0.780	0.005 0.005 0.005 0.005	0.921 0.899 0.849 0.785
						Haza	ard Group III										
\$1,000 \$2,000 \$5,000 \$10,000	0.00 0.01 0.01 0.03	0.021	0.997 0.990 0.990 0.972	0.021 0.021 0.021 0.020	0.00 0.01 0.01 0.03	0.724	0.997 0.990 0.990 0.970	0.722 0.717 0.717 0.702	0.06 0.12 0.31 0.62	0.225	0.947 0.902 0.784 0.640	0.213 0.203 0.176 0.144	0.956 0.941 0.914 0.866	0.993	0.949 0.934 0.908 0.860	0.005 0.005 0.005 0.005	0.954 0.939 0.913 0.865
						Haza	ard Group IV	,									
\$1,000 \$2,000 \$5,000 \$10,000	0.00 0.00 0.01 0.02	0.036	0.998 0.995 0.990 0.981	0.036 0.036 0.036 0.035	0.00 0.00 0.01 0.02	0.807	0.998 0.995 0.990 0.980	0.805 0.803 0.799 0.791	0.06 0.12 0.29 0.59	0.139	0.947 0.902 0.795 0.652	0.132 0.125 0.111 0.091	0.973 0.964 0.946 0.917	0.993	0.966 0.957 0.939 0.911	0.005 0.005 0.005 0.005	0.971 0.962 0.944 0.916
						All Hazar	d Groups Co	ombined									
							Relativities	i									
LOSS LIMIT	HG I EXCESS RATIO	HG I WGT.	HG II EXCESS RATIO	HG II WGT.	HG III EXCESS RATIO	HG III WGT.	HG IV EXCESS RATIO	HG IV WGT.		WGTD EXCESS RATIO	Relativity 1,000 to Limit		Relativity HG I	to Total Per	- Claim HG III	HG IV	
\$1,000 \$2,000 \$5,000 \$10,000	0.920 0.897 0.841 0.769	0.003 0.003 0.003 0.003	0.922 0.900 0.850 0.785	0.542 0.542 0.542 0.542	0.956 0.941 0.914 0.866	0.438 0.438 0.438 0.438	0.973 0.964 0.946 0.917	0.017 0.017 0.017 0.017		0.938 0.919 0.880 0.823	1.0207 1.0659 1.1397		0.9808 0.9761 0.9557 0.9344	0.9829 0.9793 0.9659 0.9538	1.0192 1.0239 1.0386 1.0522	1.0373 1.0490 1.0750 1.1142	

Loss	Pennsylvania Excess Ratio		NCCI Per Claim Relativity to	Adjusted Pennsylvania Per Claim		Per-Occur Relativity To Per-	Pennsylvania Excess Ratio Per-Occur (5)		Relativity to Total Per - Claim							
Limitation	Per-Claim (1)		\$1,000,000 (2)	Excess Ratio (3) *		Claim (4)			HG I (6)	HG II (7)	HG III (8)	HG IV (9)				
	Implied @ 1,000															
\$1,000	0.9425	(a)	N / A *	N / A *		N / A *	N / A *		0.9808	0.9829	1.0192	1.0373				
\$5,000	0.8019	(b)	II .	"		"	"		0.9557	0.9659	1.0386	1.0750			,	
\$10,000	0.7324	(b)	"	"		"	"		0.9344	0.9538	1.0522	1.1142			,	
Loss	Pennsylvania Hazard Group Per - Claim Factors							ELF adjusted for LBA Factor =	0.9931			ELF adjusted for LBA's & Risk Load				
Limitation	HG I		HG II	HG III	HG IV		HG I	HG II	HG III	HG IV		HG I	HG II	HG III	HG IV	
İ	(10)		(11)	(12)	(13)		(14)	(15)	(16)	(17)		(18)	(19)	(20)	(21)	
	(1)*(6)		(1)*(7)	(1)*(8)	(1)*(9)		(10)*LBA	(11)*LBA	(12)*LBA	(13)*LBA		Columns (1	10)-(13) + 0.00	5 (Max Adj = 1	/2 ELF)	
\$1,000	0.9244		0.9264	0.9606	0.9777		0.9180	0.9200	0.9540	0.9710		0.923	0.925	0.959	0.976	
\$5,000	0.7664		0.7746	0.8328	0.8620		0.7611	0.7693	0.8271	0.8561		0.766	0.774	0.832	0.861	
\$10,000	0.6844		0.6986	0.7706	0.8160		0.6797	0.6938	0.7653	0.8104		0.685	0.699	0.770	0.815	

^{*} Loss elimination ratios are on a per-claim basis for values below \$100,000 and, thus, the noted columns are not relevant to this analysis

⁽a) Selected

⁽b) From the Pennsylvania Empirical Loss Distribution