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: 4/1/06

Proposed Loss Elimination Ratios

Current Loss Elimination Ratios

Percentage Change

Deductible Level			Hazard	Group			Hazard	Group		Hazard Group				
			II	III	IV	I	Ш	Ш	IV	I	II	III	IV	
\$	1,000	6.9%	6.7%	3.6%	1.2%	7.0%	6.8%	3.8%	1.2%	-1.4%	-1.5%	-5.3%	0.0%	
\$	5,000	20.1%	19.8%	14.4%	11.1%	20.3%	20.2%	14.7%	11.2%	-1.0%	-2.0%	-2.0%	-0.9%	
•	2,000													
\$	10,000	27.7%	26.3%	19.1%	15.0%	27.3%	26.8%	20.0%	15.6%	1.5%	-1.9%	-4.5%	-3.8%	

SMALL DEDUCTIBLE CREDIT FACTORS

PENNSYLVANIA

Effective:04/01/06

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)	(F)
				EXCESS				EXCESS				EXCESS	(1) AVE.	(2) P.L.R.	(3) IND.	(4)	(5) FINAL
LOSS	RATIO	INJ.	EXCESS	RATIO X	RATIO	INJ.	EXCESS	RATIO X	RATIO	INJ.	EXCESS	RATIO X	EX.	EXCL.	ELF	FLAT	ELF
LIMIT	TO AVE.	WGT.	RATIO	INJ. WT.	TO AVE.	WGT.	RATIO	INJ. WT.	TO AVE.	WGT.	RATIO	INJ. WT.	RAT.	ASSES.	1X2	FACTOR	3+4
					1				1								
Hazard Group I																	
\$1,000	0.00	0.004	0.998	0.004	0.00	0.469	0.997	0.468	0.05	0.456	0.956	0.436	0.908	0.989	0.898	0.005	0.903
\$2,000	0.00		0.996	0.004	0.01		0.990	0.464	0.11		0.909	0.415	0.883		0.873	0.005	0.878
\$5,000	0.01		0.990	0.004	0.01		0.990	0.464	0.26		0.812		0.838		0.829	0.005	0.834
\$10,000	0.02		0.981	0.004	0.03		0.970	0.455	0.53		0.677	0.309	0.768		0.760	0.005	0.765
Hazard Group II																	
\$1,000	0.00	0.008	0.998	0.008	0.00	0.517	0.998	0.516	0.05	0.396	0.956		0.903		0.893	0.005	0.898
\$2,000	0.00		0.997	0.008	0.00		0.995	0.514	0.11		0.909		0.882		0.872	0.005	0.877
\$5,000 \$10,000	0.01 0.02		0.990 0.981	0.008 0.008	0.01 0.02		0.990 0.980	0.512 0.507	0.26 0.53		0.812 0.677	0.322 0.268	0.842 0.783		0.833 0.774	0.005 0.005	0.838 0.779
\$10,000	0.02		0.961	0.006	0.02		0.960	0.507	0.53		0.677	0.200	0.763		0.774	0.005	0.779
Hazard Group III																	
\$1,000	0.00	0.019	0.999	0.019	0.00	0.660	0.998	0.659	0.05	0.274	0.956	0.262	0.940	0.989	0.930	0.005	0.935
\$2,000	0.00		0.997	0.019	0.00		0.996	0.657	0.09		0.924		0.929		0.919	0.005	0.924
\$5,000	0.01		0.990	0.019	0.01		0.990	0.653	0.23		0.830	0.227	0.899		0.889	0.005	0.894
\$10,000	0.01		0.990	0.019	0.02		0.980	0.647	0.46		0.709	0.194	0.860		0.851	0.005	0.856
						Haza	ard Group IV										
\$1,000	0.00	0.036	0.999	0.036	0.00	0.746	0.998	0.745	0.04	0.189	0.964	0.182	0.963	0.989	0.952	0.005	0.957
\$2,000	0.00		0.998	0.036	0.00		0.997	0.744	0.09		0.924	0.175	0.955		0.944	0.005	0.949
\$5,000	0.01		0.990	0.036	0.01		0.990	0.739	0.22		0.836		0.933		0.923	0.005	0.928
\$10,000	0.01		0.990	0.036	0.02		0.980	0.731	0.44		0.718	0.136	0.903		0.893	0.005	0.898
						All Hazar	d Groups Co	ombined									
							Relativities										
	HG I		HG II		HG III		HG IV			WGTD	Relativity		Relativity	to Total Per	- Claim		
LOSS	EXCESS	HG I	EXCESS		EXCESS	HG III	EXCESS	HG IV		EXCESS	,						
LIMIT	RATIO	WGT.	RATIO	WGT.	RATIO	WGT.	RATIO	WGT.		RATIO	Limit		HG I	HG II	HG III	HG IV	
¢4.000	0.000	0.056	0.002	0.474	0.040	0.274	0.060	0.006		0.000			0.0007	0.0050	* 1.0104	1.0422	
\$1,000 \$2,000	0.908 0.883	0.056 0.056	0.903 0.882	0.474 0.474	0.940 0.929	0.374 0.374	0.963 0.955	0.096 0.096		0.923 0.907	- 1.0176		0.9837 0.9735	0.9858 0.9767	* 1.0184 * 1.0243	1.0433 1.0529	
		0.056	0.882	0.474			0.955							0.9656			
\$5,000 \$10,000	0.838 0.768	0.056	0.842	0.474 0.474	0.899 0.860	0.374 0.374	0.933	0.096 0.096		0.872 0.822	1.0585 1.1229		0.9610 0.9343	0.9556	1.0310 1.0462	1.0700 1.0985	
\$10,000	0.700	0.000	0.763	0.474	0.000	0.374	0.903	0.096		0.022	1.1229		0.9343	0.9526	1.0402	1.0900	

^{*} Selected Value.

Pennsylvania Loss Elimination Ratio Study

Pennsylvania Excess Ratio		Excess		NCCI Per Claim Relativity to	Adjusted Pennsylvania Per Claim		Per-Occur Relativity To Per-	Pennsylvania Excess Ratio			Relativity to Total Per - Claim					
Per-Claim		\$1,000,000	Excess Ratio		Claim	Per-Occur		HG I	HG II	HG III	HG IV					
(1)		(2)	(3)		(4)	(5) *		(6)	(7)	(8)	(9)					
plied @ 1,000																
		N / A *	N / A *													
	(b)	"	"													
0.7773	(b)	"	ч		"	"		0.9343	0.9526	1.0462	1.0985					
Pennsylvania Hazard Group Per - Claim Factors							•		ELF	ELF adjusted for LBA's & Risk Load						
ПС І		нс п	нс ш	HC IV		ЦС І			ЦС IV		ЦС І	ПС П	ПС III	HG IV		
_						_					_			(21)		
									, ,		` '	, ,	. ,			
(1) (0)		(1) (1)	(1) (0)	(1) (9)		(10) LBA	(II) LBA	(12) LBA	(13) LBA		Columns (10)-(13) + 0.00	5 (Max Auj = 1	/2 ELF)		
0.9365		0.9385	0.9695	0.9932		0.9262	0.9282	0.9588	0.9823		0.931	0.933	0.964	0.988		
0.8025		0.8063	0.8609	0.8935		0.7937	0.7974	0.8514	0.8837		0.799	0.802	0.856	0.889		
0.7262		0.7405	0.8132	0.8539		0.7182	0.7324	0.8043	0.8445		0.723	0.737	0.809	0.850		
	Excess Ratio Per-Claim (1) plied @ 1,000	Excess Ratio Per-Claim (1) plied @ 1,000	Excess Per Claim Ratio Relativity to Per-Claim \$1,000,000 (1) (2) * plied @ 1,000 0.9520 (a) N / A * 0.8350 (b) " 0.7773 (b) " Pennsylvania Hazard Group HG I HG II (10) (11) (1)*(6) (1)*(7) 0.9365 0.9385 0.8025 0.8063	Excess Per Claim Pennsylvania Ratio Relativity to Per Claim Per-Claim \$1,000,000 Excess Ratio (1) (2) (3) * plied @ 1,000 0.9520 (a) N / A * N / A * 0.8350 (b) " " 0.7773 (b) " " Pennsylvania Hazard Group Per - Claim Factor HG I HG II HG III (10) (11) (12) (1)*(6) (1)*(7) (1)*(8) 0.9365 0.9385 0.9695 0.8025 0.8063 0.8609	Excess Per Claim Pennsylvania Ratio Relativity to Per Claim Per-Claim \$1,000,000 Excess Ratio (1) (2) (3) * Period @ 1,000 0.9520 (a) N/A* N/A* 0.8350 (b) " " 0.77773 (b) " " Pennsylvania Hazard Group Per - Claim Factors HG I HG II HG III HG III HG IV (10) (11) (12) (13) (1)*(6) (1)*(7) (1)*(8) (1)*(9) 0.9365 0.9385 0.9695 0.9932 0.8025 0.8063 0.8609 0.8935	Excess Per Claim Pennsylvania Relativity Ratio Relativity to Per Claim To Per- Per-Claim \$1,000,000 Excess Ratio Claim (1) (2) (3) (4) * Pplied @ 1,000 0.9520 (a) N / A * N / A * N / A * N / A * 0.8350 (b) " " " " " Pennsylvania Hazard Group Per - Claim Factors HG I HG II HG III HG IV (10) (11) (12) (13) (1)*(6) (1)*(7) (1)*(8) (1)*(9) 0.9365 0.9385 0.9695 0.9932 0.8025 0.8063 0.8609 0.8935	Excess	Excess	Excess Per Claim Pennsylvania Relativity Excess Ratio Relativity to Per Claim To Per Ratio Per-Claim Per-Claim Per-Claim Per-Claim Per-Claim Per-Cccur HG I	Excess Per Claim Pennsylvania Relativity Excess Relativity to To Ratio Relativity to Per Claim To Per Ratio	Excess Per Claim Pennsylvania Relativity Excess Relativity to Total Per - Claim Per - Claim To Per - Ratio Per - Claim Penclaim S1,000,000 Excess Ratio Claim Per - Occur HG I HG II HG III	Excess Per Claim Pennsylvania Relativity Excess Relativity to Total Per - Claim	Excess Per Claim Pennsylvania Relativity Excess Relativity to Total Per - Claim	Excess Per Claim Pennsylvania Relativity Excess Relativity to Total Per - Claim To Per Ratio Relativity to Per Claim To Per Ratio Relativity to Total Per - Claim Per Claim Per Cocur HG HG HG HG HG HG HG H		

^{*} 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