

**Exhibit 7  
As Filed**

PENNSYLVANIA COMPENSATION RATING BUREAU

Tail Factors for Loss Development

The PCRB collects financial loss development data for separate policy years beginning with policy year 1978 and continuing forward to the most recent policy period. For policy years prior to 1978, a single aggregate line of experience is reported for all older policy years combined.

Beginning with collection of financial data valued as of 12/31/99, the PCRB has advanced by one year the earliest policy year reported from 1978 to 1979 as of 12/31/99, 1980 as of 12/31/00 and 1981 as of 12/31/01. Thus, the 1998 vs. 1999 valuations in the tail factor calculation will use policy year 1979 as the earliest separate policy year and an aggregate line of experience for policy years 1978 and prior. The 1999 vs. 2000 valuations in the tail factor calculation will use policy year 1980 as the earliest separate policy year and an aggregate line of experience for policy years 1979 and prior. The 2000 vs. 2001 valuations in the tail factor calculation will use policy year 1981 as the earliest separate policy year and an aggregate line of experience for policy years 1980 and prior. The 2001 vs. 2002 valuations in the tail factor calculation will use policy year 1982 as the earliest separate policy year and an aggregate line of experience for policy years 1981 and prior. The following discussion focuses on data with an earliest available policy year of 1978. The discussion for data starting with policy years 1979, 1980 and 1981 would, however, be analogous.

Prior to 1995, the PCRB has computed incurred loss development for maturities older than policy year 1978 (i.e., the pre-1978 “tail”) by comparing the total amount of dollar development in incurred losses occurring in a given calendar year to the incurred loss reported for policy year 1978 at the beginning of that same calendar period.

As part of the Insurance Department’s examination of the Bureau, the actuarial firm retained to perform portions of that review commented that the PCRB’s approach effectively assumed that each policy year prior to 1978 had the same amount of ultimate losses as did policy year 1978. Since policy year losses have tended to increase from year to year in response to benefit and price changes, changes in employment volume and other features affecting loss trends, this assumption was noted as understating the true tail in the PCRB’s loss development analysis. The contractor recommended that for future filings the PCRB add a growth adjustment to its tail factor calculation.

In response to this recommendation the PCRB changed its derivation of tail factors for its 12/1/95 filing. That approach, used again for this filing, is applied separately for indemnity and medical loss experience and for each calendar year of experience, and outlined as follows:

1. A starting policy year loss amount based on the average reported incurred loss for policy years 1978-1980 was computed.
2. An annual loss inflation factor was selected based on observed changes in incurred losses by policy year for the older policy years having separate experience data reported.
3. A historical series of estimated incurred losses by policy year beginning with policy year 1977 was computed using the starting point from #1 and the selected inflation factor from #2.
4. A calendar year loss development factor was selected for policy year 1977 based on observed developments for the oldest years with actual separate experience available.
5. A rate of decline in calendar year loss development factors by policy year was then computed such that when the resulting series of loss development factors was applied to the historical series of estimated incurred losses in #3, the total implied dollar amount of loss development for the calendar year balanced to the observed amount of development on policy years prior to 1978.
6. The "tail factor" applicable to maturities prior to policy year 1978 based on that calendar year of experience was then computed as the cumulative product of the series of loss development factors constructed in #5.

In general, this approach produced policy year incurred losses and loss development factors such that measurable development terminated for policy years in the mid- to early 1930's. Because the amount of calendar year development observed for policy years prior to 1978 varied considerably from year to year, some variations in the application of the initial selected loss development factor were necessary (i.e., whether the initial selection was applied to 1,2 or 3 prior policy years before beginning the application of the selected rate of decline in loss development). In addition, the selected rates of decline in loss development factors vary from calendar year to calendar year in order to achieve the desired balance with observed calendar year development.

Recognizing the volatility of observed calendar year development for policy years prior to 1978 in the aggregate, the PCRB elected to use an experience period comprising four calendar years of loss development in computing indicated tail factors for this filing.

A summary exhibit on page 1 presents results of both the previous and revised approaches to the derivation of tail development factors. Finally, averages computed using both two-year and four-year calculations are presented for comparison purposes. Following the summary page, eight exhibits presenting the derivation of indicated tail factors using the procedure outlined above are attached (four for indemnity and four for medical). These exhibits are numbered as pages 2 through 9 respectively.

## SUMMARY OF LOSS DEVELOPMENT TAIL FACTOR CALCULATIONS

VALUATION	MATURITY	INDEMNITY		MEDICAL	
		Traditional Approach *	Indicated Factor	Traditional Approach *	Indicated Factor
02V03	20TH TO ULT.	0.9988	0.9987	1.0769	1.1073
01V02	20TH TO ULT.	1.0130	1.0137	1.1246	1.1426
00V01	20TH TO ULT.	0.9901	0.9881	1.0878	1.1096
99V00	20TH TO ULT.	1.0166	1.0205	1.0844	1.1029
AVERAGE OF LATEST 2 VALUATIONS		1.0059	1.0062	1.1008	1.1250
AVERAGE OF LATEST 4 VALUATIONS		1.0046	1.0053	1.0934	1.1156

\* I.e. for 02V03 = Incurred Loss @ 12/31/03 - Incurred Loss @ 12/31/02 for policy years prior to 1983  
                                  Incurred Loss @ 12/31/02 for policy year 1983

**Indemnity: 02v03**

Latest 12/31 Prior to 1983 Incurred	3,137,333,100	
Next Latest 12/31 Prior to 1983 Incurred	3,137,835,703	1 Policy Yr 1982 Incurred = Average of 1983, 1984, 1985, reduced by PY Deflation ^ 2
CY Development of Prior Yrs	-502,603	2 PY 1981 & Prior = Subsequent Yr x PY Deflation
Next Latest PY 1983 Incurred	411,401,835	3 1982 Development Selected Based on Observed 1983, 1984, 1985
# of 1983 Yrs in Prior Data	7.63	4 PY 1981 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0
Selected Decrement, Development Factor	0.75	
Selected Average PY Deflation Factor	0.95	
 TAIL =	.9987	
	vs	
	.9988	
	-502,603	
	0	

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**INDEMNITY**

Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF	Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF
		12/31/03 Incurred	Development	DF					12/31/03 Incurred	Development	DF		
1935	*	40,753,637	1.000000	0	1.0000	#	1970	*	245,380,579	.999990	-2,473	1.0000	
1936	*	42,898,565	1.000000	0	1.0000	#	1971	*	258,295,347	.999987	-3,471	.9999	
1937	*	45,156,384	1.000000	0	1.0000	#	1972	*	271,889,839	.999982	-4,871	.9999	
1938	*	47,533,036	1.000000	0	1.0000	#	1973	*	286,199,830	.999976	-6,837	.9999	
1939	*	50,034,775	1.000000	0	1.0000	#	1974	*	301,262,979	.999968	-9,596	.9999	
1940	*	52,668,184	1.000000	0	1.0000	#	1975	*	317,118,925	.999958	-13,468	.9998	
1941	*	55,440,194	1.000000	0	1.0000	#	1976	*	333,809,395	.999943	-18,902	.9998	
1942	*	58,358,099	1.000000	0	1.0000	#	1977	*	351,378,311	.999925	-26,530	.9997	
1943	*	61,429,578	1.000000	0	1.0000	#	1978	*	369,871,906	.999899	-37,236	.9996	
1944	*	64,662,713	1.000000	0	1.0000	#	1979	*	389,338,848	.999866	-52,263	.9995	
1945	*	68,066,014	1.000000	-1	1.0000	#	1980	*	409,830,367	.999821	-73,354	.9993	
1946	*	71,648,436	1.000000	-1	1.0000	#	1981	*	431,400,386	.999761	-102,960	.9990	
1947	*	75,419,406	1.000000	-1	1.0000	#	1982	*	454,105,669	0.999681858	-144,516	.9987	
1948	*	79,388,849	1.000000	-1	1.0000	#	1983		410,220,017	0.9971			
1949	*	83,567,209	1.000000	-2	1.0000	#	1984		514,306,463	0.9996	Total		
1950	*	87,965,483	1.000000	-3	1.0000	#	1985		584,966,050	1.0015	Development:		
1951	*	92,595,246	1.000000	-4	1.0000	#	1986		682,867,896	1.0012		-502,603	
1952	*	97,468,680	1.000000	-6	1.0000	#	1987		833,679,180	1.0006			
1953	*	102,598,610	1.000000	-8	1.0000	#	1988		954,576,534	0.9991			
1954	*	107,998,537	1.000000	-11	1.0000	#	1989		1,111,182,382	1.0000			
1955	*	113,682,670	1.000000	-15	1.0000	#	1990		1,148,495,944	0.9991			
1956	*	119,665,969	1.000000	-21	1.0000	#	1991		1,020,925,673	1.0033			
1957	*	125,964,178	1.000000	-30	1.0000	#	1992		870,125,594	1.0010			
1958	*	132,593,871	1.000000	-42	1.0000	#	1993		743,362,543	1.0006			
1959	*	139,572,496	1.000000	-59	1.0000	#	1994		687,230,930	0.9993			
1960	*	146,918,417	.999999	-83	1.0000	#	1995		586,619,174	0.9972			
1961	*	154,650,965	.999999	-117	1.0000	#	1996		517,847,256	1.0148			
1962	*	162,790,490	.999999	-164	1.0000	#	1997		539,476,231	1.0146			
1963	*	171,358,410	.999999	-231	1.0000	#	1998		562,582,001	1.0223			
1964	*	180,377,274	.999998	-324	1.0000	#	1999		634,932,151	1.0705			
1965	*	189,870,815	.999998	-454	1.0000	#	2000		639,731,113	1.1686			
1966	*	199,864,016	.999997	-637	1.0000	#	2001		536,788,821	1.4311			
1967	*	210,383,174	.999996	-894	1.0000	#	2002		352,557,233	3.0590			
1968	*	221,455,973	.999994	-1,255	1.0000	#	2003		106,939,040				
1969	*	233,111,550	.999992	-1,762	1.0000	#							

**Medical 02v03**

Latest 12/31 Prior to 1983 Incurred	746,646,720
Next Latest 12/31 Prior to 1983 Incurred	734,968,101
CY Development of Prior Yrs	11,678,619
Next Latest PY 1983 Incurred	151,957,682
# of 1983 Yrs in Prior Data	4.91
Selected Decrement, Development Factor	0.75
Selected Average PY Deflation Factor	0.93

1 Policy Yr 1982 Incurred = Average of 1983, 1984, 1985, reduced by PY Deflation ^ 2  
 2 PY 1981 & Prior = Subsequent Yr x PY Deflation  
 3 1982 Development Selected Based on Observed 1983, 1984, 1985  
 4 PY 1981 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0

TAIL =	1.1073	vs	1.0769	11,678,619
				0

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**MEDICAL**

Policy Year	(*=Estimate)	Prior Year Development			DF	Policy Year	(*=Estimate)	Prior Year Development			DF	
		12/31/03 Incurred	Dollar Development	DF				12/31/03 Incurred	Dollar Development	DF		
1934	*	4,552,793	1.000000	0	1.0000	#	1970	*	62,071,427	1.000813	50,443	1.0033
1935	*	4,895,476	1.000000	0	1.0000	#	1971	*	66,743,470	1.001084	72,301	1.0043
1936	*	5,263,953	1.000000	0	1.0000	#	1972	*	71,767,172	1.001446	103,619	1.0058
1937	*	5,660,164	1.000000	0	1.0000	#	1973	*	77,169,002	1.001928	148,487	1.0077
1938	*	6,086,198	1.000000	0	1.0000	#	1974	*	82,977,421	1.002571	212,748	1.0103
1939	*	6,544,299	1.000000	1	1.0000	#	1975	*	89,223,033	1.003427	304,754	1.0138
1940	*	7,036,881	1.000000	1	1.0000	#	1976	*	95,938,746	1.004570	436,427	1.0184
1941	*	7,566,538	1.000000	1	1.0000	#	1977	*	103,159,942	1.006093	624,755	1.0246
1942	*	8,136,063	1.000000	2	1.0000	#	1978	*	110,924,668	1.008124	893,901	1.0330
1943	*	8,748,455	1.000000	3	1.0000	#	1979	*	119,273,837	1.010832	1,278,145	1.0441
1944	*	9,406,940	1.000000	4	1.0000	#	1980	*	128,251,438	1.014443	1,825,944	1.0592
1945	*	10,114,990	1.000001	6	1.0000	#	1981	*	137,904,772	1.019257	2,605,475	1.0796
1946	*	10,876,333	1.000001	9	1.0000	#	1982	*	120,050,047	1.025676165	3,005,261	1.1073
1947	*	11,694,982	1.000001	13	1.0000	#	1983		154,609,314		1.0174	
1948	*	12,575,249	1.000001	18	1.0000	#	1984		203,678,383		1.0187	
1949	*	13,521,773	1.000002	26	1.0000	#	1985		260,470,879		1.0145	Total
1950	*	14,539,541	1.000003	38	1.0000	#	1986		295,711,441		1.0285	Development:
1951	*	15,633,915	1.000003	54	1.0000	#	1987		390,230,225		1.0175	11,678,619
1952	*	16,810,661	1.000005	77	1.0000	#	1988		482,217,610		1.0111	
1953	*	18,075,980	1.000006	111	1.0000	#	1989		587,605,060		1.0129	
1954	*	19,436,538	1.000008	158	1.0000	#	1990		621,854,745		1.0135	
1955	*	20,899,503	1.000011	227	1.0000	#	1991		588,628,505		1.0174	
1956	*	22,472,584	1.000014	326	1.0001	#	1992		526,439,656		1.0082	
1957	*	24,164,069	1.000019	467	1.0001	#	1993		441,143,450		1.0112	
1958	*	25,982,869	1.000026	669	1.0001	#	1994		408,465,440		1.0165	
1959	*	27,938,569	1.000034	960	1.0001	#	1995		384,688,010		1.0109	
1960	*	30,041,472	1.000046	1,376	1.0002	#	1996		383,868,687		1.0245	
1961	*	32,302,658	1.000061	1,973	1.0002	#	1997		413,548,642		1.0058	
1962	*	34,734,041	1.000081	2,828	1.0003	#	1998		458,270,795		1.0142	
1963	*	37,348,431	1.000109	4,054	1.0004	#	1999		492,975,838		1.0216	
1964	*	40,159,604	1.000145	5,812	1.0006	#	2000		509,027,428		1.0418	
1965	*	43,182,370	1.000193	8,333	1.0008	#	2001		453,469,264		1.1150	
1966	*	46,432,655	1.000257	11,946	1.0010	#	2002		403,391,339		2.3859	
1967	*	49,927,587	1.000343	17,125	1.0014	#	2003		176,111,016			
1968	*	53,685,577	1.000457	24,550	1.0018	#						
1969	*	57,726,427	1.000610	35,191	1.0024	#						

**Indemnity:** 01v02

Latest 12/31 Prior to 1982 Incurred	2,817,213,052	
Next Latest 12/31 Prior to 1982 Incurred	2,812,669,507	
CY Development of Prior Yrs	4,543,545	1 Policy Yr 1981 Incurred = Average of 1982, 1983, 1984, reduced by PY Deflation ^ 2
Next Latest PY 1982 Incurred	348,246,993	2 PY 1980 & Prior = Subsequent Yr x PY Deflation
# of 1982 Yrs in Prior Data	8.09	3 1981 Development Selected Based on Observed 1982, 1983, 1984
Selected Decrement, Development Factor	0.75	4 PY 1980 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0
Selected Average PY Deflation Factor	0.95	
<b>TAIL =</b>	<b>1.0137</b>	
	<b>vs</b>	
	<b>1.0130</b>	
		<b>4,543,545</b>
		<b>0</b>

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**INDEMNITY**

Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF	Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF
		12/31/02	Incurred	Development					12/31/02	Incurred	Development		
1935	*	36,272,299	1.000000		0	1.0000	#	1969	*	207,478,214	1.000108	22,359	1.0004
1936	*	38,181,367	1.000000		0	1.0000	#	1970	*	218,398,120	1.000144	31,381	1.0006
1937	*	40,190,913	1.000000		0	1.0000	#	1971	*	229,892,758	1.000192	44,043	1.0008
1938	*	42,306,224	1.000000		1	1.0000	#	1972	*	241,992,376	1.000255	61,815	1.0010
1939	*	44,532,867	1.000000		1	1.0000	#	1973	*	254,728,817	1.000341	86,758	1.0014
1940	*	46,876,702	1.000000		1	1.0000	#	1974	*	268,135,597	1.000454	121,766	1.0018
1941	*	49,343,897	1.000000		2	1.0000	#	1975	*	282,247,997	1.000605	170,900	1.0024
1942	*	51,940,945	1.000000		2	1.0000	#	1976	*	297,103,155	1.000807	239,860	1.0032
1943	*	54,674,678	1.000000		3	1.0000	#	1977	*	312,740,163	1.001076	336,645	1.0043
1944	*	57,552,293	1.000000		5	1.0000	#	1978	*	329,200,171	1.001435	472,484	1.0058
1945	*	60,581,361	1.000000		7	1.0000	#	1979	*	346,526,496	1.001914	663,136	1.0077
1946	*	63,769,854	1.000000		9	1.0000	#	1980	*	364,764,733	1.002552	930,717	1.0103
1947	*	67,126,162	1.000000		13	1.0000	#	1981	*	383,962,877	1.00340207	1,306,269	1.0137
1948	*	70,659,118	1.000000		18	1.0000	#	1982		348,182,094		0.9998	
1949	*	74,378,019	1.000000		25	1.0000	#	1983		412,572,951	1.0007	Total	
1950	*	78,292,651	1.000000		36	1.0000	#	1984		515,575,847	0.9989	Development:	
1951	*	82,413,317	1.000001		50	1.0000	#	1985		585,122,419	1.0010	4,543,545	
1952	*	86,750,860	1.000001		70	1.0000	#	1986		686,153,414	1.0027		
1953	*	91,316,695	1.000001		99	1.0000	#	1987		835,619,726	1.0000		
1954	*	96,122,837	1.000001		138	1.0000	#	1988		958,437,042	1.0038		
1955	*	101,181,934	1.000002		194	1.0000	#	1989		1,114,010,229	1.0021		
1956	*	106,507,298	1.000003		273	1.0000	#	1990		1,146,106,992	0.9992		
1957	*	112,112,946	1.000003		383	1.0000	#	1991		1,015,586,301	0.9977		
1958	*	118,013,627	1.000005		537	1.0000	#	1992		870,306,218	1.0004		
1959	*	124,224,871	1.000006		754	1.0000	#	1993		742,340,266	0.9966		
1960	*	130,763,022	1.000008		1,058	1.0000	#	1994		688,817,894	0.9987		
1961	*	137,645,286	1.000011		1,485	1.0000	#	1995		582,856,678	1.0081		
1962	*	144,889,775	1.000014		2,084	1.0001	#	1996		511,440,532	1.0105		
1963	*	152,515,552	1.000019		2,925	1.0001	#	1997		535,183,419	1.0301		
1964	*	160,542,687	1.000026		4,106	1.0001	#	1998		553,547,060	1.0676		
1965	*	168,992,302	1.000034		5,762	1.0001	#	1999		596,174,358	1.1639		
1966	*	177,886,633	1.000045		8,087	1.0002	#	2000		547,863,781	1.4337		
1967	*	187,249,088	1.000061		11,351	1.0002	#	2001		375,832,838	3.0119		
1968	*	197,104,303	1.000081		15,931	1.0003	#	2002		115,626,491			

Medical **01v02**

Latest 12/31 Prior to 1982 Incurred	613,359,665
Next Latest 12/31 Prior to 1982 Incurred	598,016,744
CY Development of Prior Yrs	15,342,921
Next Latest PY 1982 Incurred	123,135,800
# of 1982 Yrs in Prior Data	4.98
Selected Decrement, Development Factor	0.75
Selected Average PY Deflation Factor	0.93

1 Policy Yr 1981 Incurred = Average of 1982, 1983, 1984, reduced by PY Deflation ^ 2  
 2 PY 1980 & Prior = Subsequent Yr x PY Deflation  
 3 1981 Development Selected Based on Observed 1982, 1983, 1984  
 4 PY 1980 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0

TAIL =	1.1426	vs	1.1246	15,342,921
				0

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Tail Factor Model - 2005 Loss Cost Filing

## MEDICAL

Policy Year	(*=Estimate)	Prior Year			DF	Policy Year	(*=Estimate)	Prior Year			DF	
		12/31/02 Incurred	Development	Dollar Development				12/31/02 Incurred	Development	Dollar Development		
1936	*	5,266,770	1.000000	0	1.0000	#	1970	*	62,104,649	1.001421	88,231	1.0057
1937	*	5,663,194	1.000000	1	1.0000	#	1971	*	66,779,193	1.001894	126,496	1.0076
1938	*	6,089,456	1.000000	1	1.0000	#	1972	*	71,805,584	1.002526	181,356	1.0101
1939	*	6,547,802	1.000000	1	1.0000	#	1973	*	77,210,305	1.003368	260,008	1.0135
1940	*	7,040,647	1.000000	2	1.0000	#	1974	*	83,021,834	1.004490	372,772	1.0181
1941	*	7,570,588	1.000000	3	1.0000	#	1975	*	89,270,789	1.005987	534,440	1.0242
1942	*	8,140,417	1.000000	4	1.0000	#	1976	*	95,990,095	1.007982	766,222	1.0324
1943	*	8,753,137	1.000001	5	1.0000	#	1977	*	103,215,156	1.010643	1,098,526	1.0434
1944	*	9,411,975	1.000001	8	1.0000	#	1978	*	110,984,039	1.014191	1,574,948	1.0582
1945	*	10,120,404	1.000001	11	1.0000	#	1979	*	119,337,676	1.018921	2,257,989	1.0782
1946	*	10,882,154	1.000001	16	1.0000	#	1980	*	128,320,082	1.025228	3,237,261	1.1054
1947	*	11,701,241	1.000002	22	1.0000	#	1981	*	137,978,583	1.033637350	4,641,234	1.1426 20TH TO ULT
1948	*	12,581,980	1.000003	32	1.0000	#	1982		125,364,242		1.0181	
1949	*	13,529,011	1.000003	46	1.0000	#	1983		152,662,980		1.0143	
1950	*	14,547,323	1.000005	66	1.0000	#	1984		200,566,545		1.0128	Total
1951	*	15,642,283	1.000006	94	1.0000	#	1985		256,752,184		1.0109	Development:
1952	*	16,819,659	1.000008	135	1.0000	#	1986		289,096,453		1.0168	15,342,921
1953	*	18,085,655	1.000011	193	1.0000	#	1987		383,743,597		1.0084	
1954	*	19,446,941	1.000014	277	1.0001	#	1988		477,707,737		1.0110	
1955	*	20,910,689	1.000019	397	1.0001	#	1989		581,263,824		1.0128	
1956	*	22,484,612	1.000025	569	1.0001	#	1990		611,681,732		1.0084	
1957	*	24,177,002	1.000034	816	1.0001	#	1991		575,404,042		1.0154	
1958	*	25,996,776	1.000045	1,170	1.0002	#	1992		521,299,077		1.0073	
1959	*	27,953,523	1.000060	1,677	1.0002	#	1993		434,749,861		1.0111	
1960	*	30,057,552	1.000080	2,405	1.0003	#	1994		401,004,370		1.0111	
1961	*	32,319,948	1.000107	3,448	1.0004	#	1995		380,838,199		1.0218	
1962	*	34,752,632	1.000142	4,943	1.0006	#	1996		375,491,810		1.0163	
1963	*	37,368,422	1.000190	7,086	1.0008	#	1997		412,533,402		1.0130	
1964	*	40,181,099	1.000253	10,160	1.0010	#	1998		453,724,979		1.0041	
1965	*	43,205,482	1.000337	14,566	1.0013	#	1999		484,778,644		1.0554	
1966	*	46,457,508	1.000450	20,883	1.0018	#	2000		488,062,789		1.1262	
1967	*	49,954,310	1.000599	29,940	1.0024	#	2001		407,445,581		2.2107	
1968	*	53,714,311	1.000799	42,925	1.0032	#	2002		169,533,312			
1969	*	57,757,324	1.001066	61,541	1.0043	#						

**Indemnity:** 00v01

Latest 12/31 Prior to 1981 Incurred	2,549,485,519
Next Latest 12/31 Prior to 1981 Incurred	2,553,237,550
CY Development of Prior Yrs	-3,752,031
Next Latest PY 1981 Incurred	379,603,999
# of 1981 Yrs in Prior Data	6.72
Selected Decrement, Development Factor	0.75
Selected Average PY Inflation	0.95

1 Policy Yr 1980 Incurred = Average of 1981, 1982, 1983, reduced by PY Deflation ^ 2  
 2 PY 1979 & Prior = Subsequent Yr x PY Deflation  
 3 1980 Development Selected Based on Observed 1981, 1982, 1983  
 4 PY 1979 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0

TAIL =	.9881	vs	.9901	-3,752,031
				0

Pennsylvania Compensation Rating Bureau  
 Tail Factor Model - 2004 Loss Cost Filing

**INDEMNITY**

Policy Year	(*=Estimate)	12/31/01 Incurred	Prior Year Development	Dollar Development	DF	Policy Year	(*=Estimate)	12/31/01 Incurred	Prior Year Development	Dollar Development	DF	
1934	*	34,041,255	1.000000	0	1.0000	#	1968	*	194,716,602	.999905	-18,464	.9996
1935	*	35,832,900	1.000000	0	1.0000	#	1969	*	204,964,844	.999874	-25,914	.9995
1936	*	37,718,842	1.000000	0	1.0000	#	1970	*	215,752,467	.999831	-36,371	.9993
1937	*	39,704,044	1.000000	-1	1.0000	#	1971	*	227,107,860	.999775	-51,047	.9991
1938	*	41,793,731	1.000000	-1	1.0000	#	1972	*	239,060,905	.999700	-71,645	.9988
1939	*	43,993,401	1.000000	-1	1.0000	#	1973	*	251,643,058	.999600	-100,554	.9984
1940	*	46,308,843	1.000000	-1	1.0000	#	1974	*	264,887,430	.999467	-141,128	.9979
1941	*	48,746,150	1.000000	-2	1.0000	#	1975	*	278,828,873	.999290	-198,075	.9972
1942	*	51,311,737	1.000000	-3	1.0000	#	1976	*	293,504,077	.999053	-277,999	.9962
1943	*	54,012,355	1.000000	-4	1.0000	#	1977	*	308,951,660	.998737	-390,175	.9950
1944	*	56,855,111	1.000000	-5	1.0000	#	1978	*	325,212,274	.998316	-547,613	.9933
1945	*	59,847,485	1.000000	-8	1.0000	#	1979	*	342,328,709	.997755	-768,580	.9911
1946	*	62,997,352	1.000000	-11	1.0000	#	1980	*	360,346,010	0.99700646	-1,078,709	.9881
1947	*	66,313,002	1.000000	-15	1.0000	#	1981		379,970,990		1.0010	
1948	*	69,803,161	1.000000	-21	1.0000	#	1982		372,323,631		0.9993	Total
1949	*	73,477,011	1.000000	-29	1.0000	#	1983		445,531,451		0.9977	Development:
1950	*	77,344,222	.999999	-41	1.0000	#	1984		568,097,488		1.0006	-3,752,031
1951	*	81,414,971	.999999	-58	1.0000	#	1985		652,083,047		0.9982	
1952	*	85,699,969	.999999	-81	1.0000	#	1986		760,157,757		0.9991	
1953	*	90,210,494	.999999	-114	1.0000	#	1987		928,353,826		1.0029	
1954	*	94,958,415	.999998	-160	1.0000	#	1988		1,059,092,992		0.9983	
1955	*	99,956,226	.999998	-225	1.0000	#	1989		1,235,061,229		0.9989	
1956	*	105,217,080	.999997	-316	1.0000	#	1990		1,260,912,239		0.9985	
1957	*	110,754,821	.999996	-444	1.0000	#	1991		1,107,918,425		0.9967	
1958	*	116,584,022	.999995	-623	1.0000	#	1992		921,100,448		1.0015	
1959	*	122,720,023	.999993	-874	1.0000	#	1993		798,412,943		1.0020	
1960	*	129,178,972	.999991	-1,226	1.0000	#	1994		732,408,463		0.9982	
1961	*	135,977,865	.999987	-1,721	.9999	#	1995		630,999,732		1.0167	
1962	*	143,134,595	.999983	-2,416	.9999	#	1996		536,864,758		1.0280	
1963	*	150,667,994	.999977	-3,390	.9999	#	1997		553,493,726		1.0514	
1964	*	158,597,889	.999970	-4,758	.9999	#	1998		537,497,944		1.1621	
1965	*	166,945,146	.999960	-6,678	.9998	#	1999		527,699,573		1.4206	
1966	*	175,731,733	.999947	-9,373	.9998	#	2000		393,696,953		3.2605	
1967	*	184,980,771	.999929	-13,156	.9997	#	2001		126,948,348			

Medical **00v01**

Latest 12/31 Prior to 1981 Incurred	504,407,679
Next Latest 12/31 Prior to 1981 Incurred	494,056,558
CY Development of Prior Yrs	10,351,121
Next Latest PY 1981 Incurred	117,912,364
# of 1981 Yrs in Prior Data	4.28
Selected Decrement, Development Factor	0.75
Selected Average PY Inflation	0.93

1 Policy Yr 1980 Incurred = Average of 1981, 1982, 1983, reduced by PY Deflation ^ 2  
 2 PY 1979 & Prior = Subsequent Yr x PY Deflation  
 3 1980 Development Selected Based on Observed 1981, 1982, 1983  
 4 PY 1979 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0

TAIL =	1.1096	vs	1.0878	10,351,121
				0

Pennsylvania Compensation Rating Bureau  
 Tail Factor Model - 2004 Loss Cost Filing

## MEDICAL

Policy Year	(*=Estimate)	Prior Year			DF	Policy Year	(*=Estimate)	Prior Year			Dollar DF
		12/31/01 Incurred	Dollar Development	Development				12/31/01 Incurred	Dollar Development	Development	
1934	*	4,262,026	1.000000		0	1.0000	#	1968	*	50,256,914	1.000829
1935	*	4,582,823	1.000000		0	1.0000	#	1969	*	54,039,693	1.001106
1936	*	4,927,767	1.000000		0	1.0000	#	1970	*	58,107,196	1.001475
1937	*	5,298,674	1.000000		1	1.0000	#	1971	*	62,480,856	1.001966
1938	*	5,697,499	1.000000		1	1.0000	#	1972	*	67,183,716	1.002621
1939	*	6,126,343	1.000000		1	1.0000	#	1973	*	72,240,555	1.003495
1940	*	6,587,466	1.000000		2	1.0000	#	1974	*	77,678,016	1.004660
1941	*	7,083,297	1.000000		2	1.0000	#	1975	*	83,524,749	1.006214
1942	*	7,616,448	1.000000		4	1.0000	#	1976	*	89,811,558	1.008285
1943	*	8,189,729	1.000001		5	1.0000	#	1977	*	96,571,568	1.011047
1944	*	8,806,160	1.000001		7	1.0000	#	1978	*	103,840,395	1.014729
1945	*	9,468,989	1.000001		11	1.0000	#	1979	*	111,656,339	1.019639
1946	*	10,181,709	1.000001		15	1.0000	#	1980	*	120,060,579	1.026185315
1947	*	10,948,074	1.000002		22	1.0000	#	1981		119,994,537	1.0177
1948	*	11,772,123	1.000003		31	1.0000	#	1982		132,705,598	1.0071
1949	*	12,658,197	1.000004		44	1.0000	#	1983		163,743,082	1.0155
1950	*	13,610,964	1.000005		64	1.0000	#	1984		215,364,593	1.0195
1951	*	14,635,445	1.000006		91	1.0000	#	1985		275,579,877	1.0120
1952	*	15,737,038	1.000008		131	1.0000	#	1986		309,162,414	0.9992
1953	*	16,921,546	1.000011		188	1.0000	#	1987		418,411,298	1.0105
1954	*	18,195,211	1.000015		269	1.0001	#	1988		513,167,946	1.0261
1955	*	19,564,743	1.000020		386	1.0001	#	1989		627,824,167	1.0136
1956	*	21,037,358	1.000026		553	1.0001	#	1990		663,272,784	1.0120
1957	*	22,620,815	1.000035		792	1.0001	#	1991		620,542,428	1.0155
1958	*	24,323,457	1.000047	1,136	1.0002	#	1992		543,864,871	1.0315	
1959	*	26,154,255	1.000062	1,629	1.0002	#	1993		460,441,760	1.0198	
1960	*	28,122,855	1.000083	2,335	1.0003	#	1994		421,298,536	1.0190	
1961	*	30,239,629	1.000111	3,348	1.0004	#	1995		394,984,765	1.0214	
1962	*	32,515,730	1.000148	4,800	1.0006	#	1996		401,023,516	1.0296	
1963	*	34,963,151	1.000197	6,882	1.0008	#	1997		432,207,224	1.0247	
1964	*	37,594,786	1.000262	9,867	1.0011	#	1998		465,199,710	1.0660	
1965	*	40,424,501	1.000350	14,146	1.0014	#	1999		470,199,763	1.1438	
1966	*	43,467,205	1.000467	20,280	1.0019	#	2000		443,150,066		
1967	*	46,738,930	1.000622	29,076	1.0025	#					

**Indemnity:** 99v00

Latest 12/31 Prior to 1980 Incurred	2,209,331,499
Next Latest 12/31 Prior to 1980 Incurred	2,203,268,103
CY Development of Prior Yrs	6,063,396
Next Larest PY 1980 Incurred	364,324,361
# of 1980 Yrs in Prior Data	6.06
Selected Decrement, Development Factor	0.75
Selected Average PY Inflation	0.95

1 Policy Yr 1979 Incurred = Average of 1980, 1981, 1982, reduced by PY Deflation ^ 2  
 2 PY 1978 & Prior = Subsequent Yr x PY Deflation  
 3 1979 Development Selected Based on Observed 1980, 1981, 1982  
 4 PY 1978 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0

TAIL = 1.0205 vs 1.0166 6,063,396  
0

Pennsylvania Compensation Rating Bureau  
 Tail Factor Model - 2004 Loss Cost Filing

**INDEMNITY**

Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF	Policy Year	(*=Estimate)	Prior Year Development			Dollar Development	DF
		12/31/00	Incurred	Development					12/31/00	Incurred	Development		
1934	*	34,069,170	1.000000		0	1.0000	#	1968	*	194,876,279	1.000215	41,878	1.0009
1935	*	35,862,285	1.000000		1	1.0000	#	1969	*	205,132,926	1.000287	58,776	1.0011
1936	*	37,749,773	1.000000		1	1.0000	#	1970	*	215,929,395	1.000382	82,493	1.0015
1937	*	39,736,604	1.000000		1	1.0000	#	1971	*	227,294,100	1.000509	115,780	1.0020
1938	*	41,828,004	1.000000		2	1.0000	#	1972	*	239,256,948	1.000679	162,498	1.0027
1939	*	44,029,478	1.000000		2	1.0000	#	1973	*	251,849,419	1.000906	228,067	1.0036
1940	*	46,346,819	1.000000		3	1.0000	#	1974	*	265,104,651	1.001207	320,094	1.0048
1941	*	48,786,125	1.000000		4	1.0000	#	1975	*	279,057,528	1.001610	449,255	1.0065
1942	*	51,353,816	1.000000		6	1.0000	#	1976	*	293,744,766	1.002147	630,534	1.0086
1943	*	54,056,648	1.000000		9	1.0000	#	1977	*	309,205,017	1.002862	884,960	1.0115
1944	*	56,901,735	1.000000		12	1.0000	#	1978	*	325,478,965	1.003816	1,242,049	1.0154
1945	*	59,896,563	1.000000		17	1.0000	#	1979	*	342,609,437	1.00508809	1,743,227	1.0205
1946	*	63,049,013	1.000000		24	1.0000	#	1980		365,157,687		1.0023	
1947	*	66,367,383	1.000001		34	1.0000	#	1981		388,998,684		0.9983	
1948	*	69,860,403	1.000001		48	1.0000	#	1982		384,711,563		0.9978	Total
1949	*	73,537,266	1.000001		67	1.0000	#	1983		457,399,404		1.0012	Development:
1950	*	77,407,648	1.000001		94	1.0000	#	1984		582,031,470		1.0009	6,063,396
1951	*	81,481,735	1.000002		132	1.0000	#	1985		665,198,751		0.9956	
1952	*	85,770,248	1.000002		185	1.0000	#	1986		775,488,645		0.9969	
1953	*	90,284,471	1.000003		259	1.0000	#	1987		936,889,822		0.9981	
1954	*	95,036,285	1.000004		364	1.0000	#	1988		1,077,406,049		1.0021	
1955	*	100,038,195	1.000005		511	1.0000	#	1989		1,253,415,795		1.0004	
1956	*	105,303,363	1.000007		717	1.0000	#	1990		1,278,270,932		0.9979	
1957	*	110,845,646	1.000009		1,006	1.0000	#	1991		1,129,280,109		1.0001	
1958	*	116,679,627	1.000012		1,412	1.0000	#	1992		938,173,956		0.9969	
1959	*	122,820,660	1.000016		1,982	1.0001	#	1993		806,402,326		0.9944	
1960	*	129,284,905	1.000022		2,781	1.0001	#	1994		742,045,959		1.0056	
1961	*	136,089,374	1.000029		3,904	1.0001	#	1995		625,906,261		1.0270	
1962	*	143,251,973	1.000038		5,479	1.0002	#	1996		525,553,467		1.0662	
1963	*	150,791,550	1.000051		7,690	1.0002	#	1997		528,951,510		1.1276	
1964	*	158,727,947	1.000068		10,793	1.0003	#	1998		465,838,055		1.3439	
1965	*	167,082,050	1.000091		15,148	1.0004	#	1999		375,187,115		3.0157	
1966	*	175,875,842	1.000121		21,260	1.0005	#	2000		121,883,336			
1967	*	185,132,465	1.000161		29,838	1.0006	#						

## Inputs for Tail Factor Estimation - 2005 Loss Cost Filing

 Medical **99v00**

Latest 12/31 Prior to 1980 Incurred	394,486,699	
Next Latest 12/31 Prior to 1980 Incurred	385,948,164	
CY Development of Prior Yrs	8,538,535	1 Policy Yr 1979 Incurred = Average of 1980, 1981, 1982, reduced by PY Deflation ^ 2
Next Larest PY 1980 Incurred	101,125,011	2 PY 1978 & Prior = Subsequent Yr x PY Deflation
# of 1980 Yrs in Prior Data	3.90	3 1979 Development Selected Based on Observed 1980, 1981, 1982
Selected Decrement, Development Factor	0.75	4 PY 1978 & Prior Development = (Subsequent Yr - 1.0) x Selected Decrement + 1.0
Selected Average PY Inflation	0.93	

TAIL =	1.1029	vs	1.0844	8,538,535	0
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Pennsylvania Compensation Rating Bureau  
Tail Factor Model - 2004 Loss Cost Filing

**MEDICAL**

Policy Year	(*=Estimate)	Prior Year			Policy DF	Year	(*=Estimate)	Prior Year			Policy DF
		12/31/00	Incurred	Dollar Development				12/31/00	Incurred	Dollar Development	
1932	*	3,459,339	1.000000	0 1.0000 #	1969	*		50,713,550	1.001388	70,396	1.0056
1933	*	3,719,719	1.000000	0 1.0000 #	1970	*		54,530,699	1.001851	100,927	1.0074
1934	*	3,999,698	1.000000	0 1.0000 #	1971	*		58,635,160	1.002468	144,698	1.0099
1935	*	4,300,751	1.000000	0 1.0000 #	1972	*		63,048,559	1.003290	207,452	1.0132
1936	*	4,624,463	1.000000	0 1.0000 #	1973	*		67,794,149	1.004387	297,423	1.0177
1937	*	4,972,541	1.000000	1 1.0000 #	1974	*		72,896,935	1.005850	426,412	1.0236
1938	*	5,346,818	1.000000	1 1.0000 #	1975	*		78,383,801	1.007799	611,344	1.0316
1939	*	5,749,267	1.000000	1 1.0000 #	1976	*		84,283,657	1.010399	876,479	1.0423
1940	*	6,182,007	1.000000	2 1.0000 #	1977	*		90,627,588	1.013866	1,256,600	1.0568
1941	*	6,647,320	1.000000	3 1.0000 #	1978	*		97,449,020	1.018487	1,801,578	1.0763
1942	*	7,147,656	1.000001	4 1.0000 #	1979	*		104,783,892	1.024649847	2,582,907	1.1029 20TH TO ULT.
1943	*	7,685,651	1.000001	6 1.0000 #	1980			104,404,072		1.0324	
1944	*	8,264,141	1.000001	9 1.0000 #	1981			122,063,456		0.9999	
1945	*	8,886,173	1.000001	12 1.0000 #	1982			136,986,832		1.0149	Total
1946	*	9,555,025	1.000002	18 1.0000 #	1983			165,145,606		1.0153	Development:
1947	*	10,274,220	1.000002	25 1.0000 #	1984			216,706,360		1.0176	8,538,535
1948	*	11,047,549	1.000003	36 1.0000 #	1985			278,043,106		1.0057	
1949	*	11,879,085	1.000004	52 1.0000 #	1986			315,841,837		0.9998	
1950	*	12,773,209	1.000006	75 1.0000 #	1987			419,065,742		1.0089	
1951	*	13,734,634	1.000008	107 1.0000 #	1988			507,886,670		1.0076	
1952	*	14,768,423	1.000010	154 1.0000 #	1989			626,945,303		1.0139	
1953	*	15,880,025	1.000014	221 1.0001 #	1990			663,714,247		1.0059	
1954	*	17,075,296	1.000019	317 1.0001 #	1991			620,240,957		1.0127	
1955	*	18,360,533	1.000025	454 1.0001 #	1992			537,377,464		1.0142	
1956	*	19,742,509	1.000033	651 1.0001 #	1993			456,436,401		0.9994	
1957	*	21,228,504	1.000044	933 1.0002 #	1994			416,943,091		1.0114	
1958	*	22,826,349	1.000059	1,338 1.0002 #	1995			390,061,409		1.0133	
1959	*	24,544,461	1.000078	1,919 1.0003 #	1996			392,140,832		1.0200	
1960	*	26,391,893	1.000104	2,751 1.0004 #	1997			424,423,796		1.0473	
1961	*	28,378,380	1.000139	3,944 1.0006 #	1998			440,249,892		1.0989	
1962	*	30,514,387	1.000185	5,654 1.0007 #	1999			416,289,970		2.4012	
1963	*	32,811,169	1.000247	8,106 1.0010 #	2000			192,411,577			
1964	*	35,280,827	1.000329	11,622 1.0013 #							
1965	*	37,936,373	1.000439	16,662 1.0018 #							
1966	*	40,791,799	1.000586	23,888 1.0023 #							
1967	*	43,862,149	1.000781	34,248 1.0031 #							
1968	*	47,163,601	1.001041	49,102 1.0042 #							