

PENNSYLVANIA COMPENSATION RATING BUREAU

Empirical Pennsylvania Loss Distribution

The attached exhibit presents a distribution of Pennsylvania losses by size of claim. The losses used to produce this distribution include three years of experience. Losses have been trended to the midpoint of the experience period for the proposed loss costs and adjusted to reflect current benefit levels. Additionally, losses were brought to an ultimate level by applying development factors to open claims.

The last page of the exhibit shows a summary and includes loss ranges consistent with those published with the excess loss factors. In certain instances it was necessary to interpolate between loss size ranges, in the empirical distribution in deriving excess loss factors for specified limits.

PENNSYLVANIA  
DISTRIBUTION OF LOSSES

LIMITS		ACCUMULATED	NUMBER	ACCUMULATED	INDEMNITY	EXCESS	AVERAGE
		CLAIMS (ADDED UP)	OF CLAIMS	LOSSES (ADDED DOWN)	AND MEDICAL	RATIO	
MEDICAL ONLY		865,309	708,708	\$ 620,102,247	\$ 620,102,247	.0000	\$ 875
-	1,999	156,601	21,596	\$ 645,545,566	\$ 25,443,319	.0000	\$ 1,178
2,000 -	2,999	135,005	11,770	\$ 674,746,030	\$ 29,200,464	.8734	\$ 2,481
3,000 -	3,999	123,235	9,931	\$ 709,364,280	\$ 34,618,250	.8556	\$ 3,486
4,000 -	4,999	113,304	8,566	\$ 747,811,621	\$ 38,447,341	.8393	\$ 4,488
5,000 -	5,999	104,738	7,401	\$ 788,428,878	\$ 40,617,257	.8242	\$ 5,488
6,000 -	6,999	97,337	6,635	\$ 831,456,468	\$ 43,027,590	.8103	\$ 6,485
7,000 -	7,999	90,702	5,777	\$ 874,690,566	\$ 43,234,098	.7973	\$ 7,484
8,000 -	8,999	84,925	5,154	\$ 918,425,564	\$ 43,734,998	.7852	\$ 8,486
9,000 -	9,999	79,771	4,340	\$ 959,654,767	\$ 41,229,203	.7738	\$ 9,500
10,000 -	10,999	75,431	3,954	\$ 1,001,110,985	\$ 41,456,218	.7631	\$ 10,485
11,000 -	11,999	71,477	3,405	\$ 1,040,235,098	\$ 39,124,113	.7529	\$ 11,490
12,000 -	12,999	68,072	3,109	\$ 1,079,095,500	\$ 38,860,402	.7433	\$ 12,499
13,000 -	13,999	64,963	2,773	\$ 1,116,496,249	\$ 37,400,749	.7341	\$ 13,487
14,000 -	14,999	62,190	2,469	\$ 1,152,281,033	\$ 35,784,784	.7253	\$ 14,494
15,000 -	15,999	59,721	2,229	\$ 1,186,807,978	\$ 34,526,945	.7169	\$ 15,490
16,000 -	16,999	57,492	2,082	\$ 1,221,155,619	\$ 34,347,641	.7088	\$ 16,497
17,000 -	17,999	55,410	1,870	\$ 1,253,845,759	\$ 32,690,140	.7010	\$ 17,481
18,000 -	18,999	53,540	1,774	\$ 1,286,647,033	\$ 32,801,274	.6935	\$ 18,490
19,000 -	19,999	51,766	1,558	\$ 1,317,027,020	\$ 30,379,987	.6862	\$ 19,499
20,000 -	20,999	50,208	1,530	\$ 1,348,379,240	\$ 31,352,220	.6792	\$ 20,492
21,000 -	21,999	48,678	1,391	\$ 1,378,280,827	\$ 29,901,587	.6723	\$ 21,496
22,000 -	22,999	47,287	1,368	\$ 1,409,032,029	\$ 30,751,202	.6657	\$ 22,479
23,000 -	23,999	45,919	1,206	\$ 1,437,373,668	\$ 28,341,639	.6593	\$ 23,501
24,000 -	24,999	44,713	1,104	\$ 1,464,414,680	\$ 27,041,012	.6530	\$ 24,494
25,000 -	25,999	43,609	1,029	\$ 1,490,651,707	\$ 26,237,027	.6469	\$ 25,498
26,000 -	26,999	42,580	977	\$ 1,516,535,235	\$ 25,883,528	.6409	\$ 26,493
27,000 -	27,999	41,603	998	\$ 1,543,974,452	\$ 27,439,217	.6351	\$ 27,494
28,000 -	28,999	40,605	911	\$ 1,569,941,609	\$ 25,967,157	.6294	\$ 28,504
29,000 -	29,999	39,694	865	\$ 1,595,451,364	\$ 25,509,755	.6239	\$ 29,491
30,000 -	30,999	38,829	828	\$ 1,620,698,439	\$ 25,247,075	.6185	\$ 30,492
31,000 -	31,999	38,001	772	\$ 1,645,006,282	\$ 24,307,843	.6131	\$ 31,487
32,000 -	32,999	37,229	727	\$ 1,668,627,547	\$ 23,621,265	.6079	\$ 32,491
33,000 -	33,999	36,502	671	\$ 1,691,103,816	\$ 22,476,269	.6029	\$ 33,497
34,000 -	34,999	35,831	692	\$ 1,714,986,011	\$ 23,882,195	.5979	\$ 34,512
35,000 -	35,999	35,139	650	\$ 1,738,066,511	\$ 23,080,500	.5929	\$ 35,508
36,000 -	36,999	34,489	589	\$ 1,759,574,448	\$ 21,507,937	.5881	\$ 36,516
37,000 -	37,999	33,900	589	\$ 1,781,668,397	\$ 22,093,949	.5834	\$ 37,511
38,000 -	38,999	33,311	551	\$ 1,802,873,947	\$ 21,205,550	.5788	\$ 38,486
39,000 -	39,999	32,760	511	\$ 1,823,056,065	\$ 20,182,118	.5742	\$ 39,495
40,000 -	40,999	32,249	497	\$ 1,843,171,922	\$ 20,115,857	.5697	\$ 40,475
41,000 -	41,999	31,752	487	\$ 1,863,377,972	\$ 20,206,050	.5653	\$ 41,491
42,000 -	42,999	31,265	520	\$ 1,885,476,551	\$ 22,098,579	.5609	\$ 42,497
43,000 -	43,999	30,745	460	\$ 1,905,475,175	\$ 19,998,624	.5566	\$ 43,475
44,000 -	44,999	30,285	484	\$ 1,927,014,707	\$ 21,539,532	.5524	\$ 44,503
45,000 -	45,999	29,801	472	\$ 1,948,478,695	\$ 21,463,988	.5483	\$ 45,475
46,000 -	46,999	29,329	441	\$ 1,968,975,586	\$ 20,496,891	.5442	\$ 46,478
47,000 -	47,999	28,888	410	\$ 1,988,456,066	\$ 19,480,480	.5402	\$ 47,513
48,000 -	48,999	28,478	402	\$ 2,007,952,749	\$ 19,496,683	.5362	\$ 48,499
49,000 -	49,999	28,076	400	\$ 2,027,750,706	\$ 19,797,957	.5323	\$ 49,495
50,000 -	50,999	27,676	390	\$ 2,047,437,915	\$ 19,687,209	.5284	\$ 50,480

PENNSYLVANIA  
DISTRIBUTION OF LOSSES

LIMITS	ACCUMULATED CLAIMS (ADDED UP)	NUMBER OF CLAIMS	ACCUMULATED LOSSES (ADDED DOWN)	INDEMNITY AND MEDICAL	EXCESS RATIO	AVERAGE
51,000 -	51,999	368	\$ 2,066,387,980	\$ 18,950,065	.5246	\$ 51,495
52,000 -	52,999	373	\$ 2,085,967,037	\$ 19,579,057	.5209	\$ 52,491
53,000 -	53,999	335	\$ 2,103,884,322	\$ 17,917,285	.5172	\$ 53,484
54,000 -	54,999	348	\$ 2,122,853,784	\$ 18,969,462	.5136	\$ 54,510
55,000 -	55,999	344	\$ 2,141,941,462	\$ 19,087,678	.5100	\$ 55,487
56,000 -	56,999	295	\$ 2,158,608,719	\$ 16,667,257	.5064	\$ 56,499
57,000 -	57,999	302	\$ 2,175,975,682	\$ 17,366,963	.5029	\$ 57,507
58,000 -	58,999	310	\$ 2,194,113,536	\$ 18,137,854	.4994	\$ 58,509
59,000 -	59,999	280	\$ 2,210,776,785	\$ 16,663,249	.4960	\$ 59,512
60,000 -	60,999	282	\$ 2,227,836,143	\$ 17,059,358	.4926	\$ 60,494
61,000 -	61,999	291	\$ 2,245,736,452	\$ 17,900,309	.4893	\$ 61,513
62,000 -	62,999	280	\$ 2,263,235,923	\$ 17,499,471	.4860	\$ 62,498
63,000 -	63,999	268	\$ 2,280,251,711	\$ 17,015,788	.4827	\$ 63,492
64,000 -	64,999	241	\$ 2,295,805,096	\$ 15,553,385	.4795	\$ 64,537
65,000 -	65,999	266	\$ 2,313,230,608	\$ 17,425,512	.4763	\$ 65,509
66,000 -	66,999	256	\$ 2,330,265,142	\$ 17,034,534	.4731	\$ 66,541
67,000 -	67,999	247	\$ 2,346,934,290	\$ 16,669,148	.4700	\$ 67,486
68,000 -	68,999	224	\$ 2,362,269,246	\$ 15,334,956	.4669	\$ 68,460
69,000 -	69,999	229	\$ 2,378,181,451	\$ 15,912,205	.4639	\$ 69,486
70,000 -	70,999	221	\$ 2,393,767,875	\$ 15,586,424	.4609	\$ 70,527
71,000 -	71,999	270	\$ 2,413,070,618	\$ 19,302,743	.4579	\$ 71,492
72,000 -	72,999	250	\$ 2,431,195,421	\$ 18,124,803	.4549	\$ 72,499
73,000 -	73,999	235	\$ 2,448,466,088	\$ 17,270,667	.4520	\$ 73,492
74,000 -	74,999	225	\$ 2,465,232,493	\$ 16,766,405	.4491	\$ 74,517
75,000 -	75,999	223	\$ 2,482,074,315	\$ 16,841,822	.4462	\$ 75,524
76,000 -	76,999	210	\$ 2,498,139,201	\$ 16,064,886	.4434	\$ 76,499
77,000 -	77,999	228	\$ 2,515,806,551	\$ 17,667,350	.4406	\$ 77,488
78,000 -	78,999	202	\$ 2,531,660,718	\$ 15,854,167	.4379	\$ 78,486
79,000 -	79,999	197	\$ 2,547,328,171	\$ 15,667,453	.4351	\$ 79,530
80,000 -	80,999	190	\$ 2,562,622,244	\$ 15,294,073	.4324	\$ 80,495
81,000 -	81,999	198	\$ 2,578,758,788	\$ 16,136,544	.4297	\$ 81,498
82,000 -	82,999	196	\$ 2,594,932,549	\$ 16,173,761	.4271	\$ 82,519
83,000 -	83,999	169	\$ 2,609,041,584	\$ 14,109,035	.4245	\$ 83,485
84,000 -	84,999	166	\$ 2,623,064,398	\$ 14,022,814	.4219	\$ 84,475
85,000 -	85,999	195	\$ 2,639,738,779	\$ 16,674,381	.4193	\$ 85,510
86,000 -	86,999	196	\$ 2,656,694,960	\$ 16,956,181	.4167	\$ 86,511
87,000 -	87,999	183	\$ 2,672,700,683	\$ 16,005,723	.4142	\$ 87,463
88,000 -	88,999	208	\$ 2,691,112,018	\$ 18,411,335	.4117	\$ 88,516
89,000 -	89,999	173	\$ 2,706,596,687	\$ 15,484,669	.4092	\$ 89,507
90,000 -	90,999	175	\$ 2,722,431,699	\$ 15,835,012	.4068	\$ 90,486
91,000 -	91,999	167	\$ 2,737,713,692	\$ 15,281,993	.4044	\$ 91,509
92,000 -	92,999	183	\$ 2,754,638,079	\$ 16,924,387	.4020	\$ 92,483
93,000 -	93,999	162	\$ 2,769,778,792	\$ 15,140,713	.3996	\$ 93,461
94,000 -	94,999	182	\$ 2,786,975,951	\$ 17,197,159	.3972	\$ 94,490
95,000 -	95,999	183	\$ 2,804,460,415	\$ 17,484,464	.3949	\$ 95,544
96,000 -	96,999	153	\$ 2,819,226,149	\$ 14,765,734	.3926	\$ 96,508
97,000 -	97,999	155	\$ 2,834,345,019	\$ 15,118,870	.3903	\$ 97,541
98,000 -	98,999	155	\$ 2,849,609,846	\$ 15,264,827	.3881	\$ 98,483
99,000 -	99,999	148	\$ 2,864,331,429	\$ 14,721,583	.3858	\$ 99,470
100,000 -	109,999	1,438	\$ 3,015,460,578	\$ 151,129,149	.3836	\$ 105,097
110,000 -	119,999	1,226	\$ 3,156,427,925	\$ 140,967,347	.3625	\$ 114,982

PENNSYLVANIA  
DISTRIBUTION OF LOSSES

LIMITS	ACCUMULATED CLAIMS (ADDED UP)	NUMBER OF CLAIMS	ACCUMULATED LOSSES (ADDED DOWN)	INDEMNITY AND MEDICAL	EXCESS RATIO	AVERAGE
120,000 -	129,999	1,096	\$ 3,293,200,251	\$ 136,772,326	.3433	\$ 124,792
130,000 -	139,999	1,082	\$ 3,439,120,905	\$ 145,920,654	.3258	\$ 134,862
140,000 -	149,999	871	\$ 3,565,284,368	\$ 126,163,463	.3097	\$ 144,849
150,000 -	159,999	794	\$ 3,688,326,005	\$ 123,041,637	.2950	\$ 154,964
160,000 -	169,999	725	\$ 3,807,896,167	\$ 119,570,162	.2814	\$ 164,924
170,000 -	179,999	622	\$ 3,916,638,010	\$ 108,741,843	.2688	\$ 174,826
180,000 -	189,999	530	\$ 4,014,572,880	\$ 97,934,870	.2572	\$ 184,783
190,000 -	199,999	464	\$ 4,105,022,219	\$ 90,449,339	.2464	\$ 194,934
200,000 -	209,999	419	\$ 4,190,773,269	\$ 85,751,050	.2363	\$ 204,656
210,000 -	219,999	368	\$ 4,269,848,913	\$ 79,075,644	.2268	\$ 214,879
220,000 -	229,999	346	\$ 4,347,674,188	\$ 77,825,275	.2178	\$ 224,929
230,000 -	239,999	329	\$ 4,424,989,472	\$ 77,315,284	.2093	\$ 235,001
240,000 -	249,999	347	\$ 4,510,004,350	\$ 85,014,878	.2013	\$ 245,000
250,000 -	259,999	302	\$ 4,586,967,656	\$ 76,963,306	.1937	\$ 254,845
260,000 -	269,999	276	\$ 4,660,076,638	\$ 73,108,982	.1866	\$ 264,888
270,000 -	279,999	270	\$ 4,734,300,397	\$ 74,223,759	.1799	\$ 274,903
280,000 -	289,999	233	\$ 4,800,669,554	\$ 66,369,157	.1736	\$ 284,846
290,000 -	299,999	258	\$ 4,876,761,857	\$ 76,092,303	.1676	\$ 294,931
300,000 -	314,999	312	\$ 4,972,604,603	\$ 95,842,746	.1620	\$ 307,188
315,000 -	329,999	315	\$ 5,074,064,374	\$ 101,459,771	.1541	\$ 322,095
330,000 -	344,999	269	\$ 5,164,838,190	\$ 90,773,816	.1469	\$ 337,449
345,000 -	359,999	250	\$ 5,252,893,248	\$ 88,055,058	.1403	\$ 352,220
360,000 -	374,999	236	\$ 5,339,540,278	\$ 86,647,030	.1342	\$ 367,148
375,000 -	389,999	218	\$ 5,422,959,996	\$ 83,419,718	.1287	\$ 382,659
390,000 -	404,999	179	\$ 5,494,035,479	\$ 71,075,483	.1236	\$ 397,070
405,000 -	419,999	160	\$ 5,559,957,916	\$ 65,922,437	.1189	\$ 412,015
420,000 -	439,999	222	\$ 5,655,466,698	\$ 95,508,782	.1145	\$ 430,220
440,000 -	459,999	169	\$ 5,731,634,291	\$ 76,167,593	.1093	\$ 450,696
460,000 -	479,999	177	\$ 5,814,850,993	\$ 83,216,702	.1045	\$ 470,151
480,000 -	499,999	131	\$ 5,879,024,134	\$ 64,173,141	.1003	\$ 489,871
500,000 -	519,999	96	\$ 5,927,959,561	\$ 48,935,427	.0965	\$ 509,744
520,000 -	539,999	86	\$ 5,973,576,167	\$ 45,616,606	.0930	\$ 530,426
540,000 -	559,999	101	\$ 6,029,151,079	\$ 55,574,912	.0897	\$ 550,247
560,000 -	579,999	91	\$ 6,080,923,896	\$ 51,772,817	.0867	\$ 568,932
580,000 -	599,999	66	\$ 6,119,822,475	\$ 38,898,579	.0840	\$ 589,372
600,000 -	629,999	103	\$ 6,183,044,869	\$ 63,222,394	.0815	\$ 613,810
630,000 -	659,999	68	\$ 6,226,966,828	\$ 43,921,959	.0781	\$ 645,911
660,000 -	699,999	94	\$ 6,290,706,839	\$ 63,740,011	.0750	\$ 678,085
700,000 -	749,999	97	\$ 6,361,227,359	\$ 70,520,520	.0714	\$ 727,016
750,000 -	799,999	73	\$ 6,417,941,306	\$ 56,713,947	.0675	\$ 776,903
800,000 -	849,999	63	\$ 6,469,925,671	\$ 51,984,365	.0642	\$ 825,149
850,000 -	899,999	50	\$ 6,513,554,169	\$ 43,628,498	.0614	\$ 872,570
900,000 -	999,999	69	\$ 6,578,666,912	\$ 65,112,743	.0590	\$ 943,663
1,000,000 -	1,099,999	41	\$ 6,621,590,107	\$ 42,923,195	.0550	\$ 1,046,907
1,100,000 -	1,199,999	41	\$ 6,668,756,134	\$ 47,166,027	.0517	\$ 1,150,391
1,200,000 -	1,299,999	24	\$ 6,698,602,855	\$ 29,846,721	.0490	\$ 1,243,613
1,300,000 -	1,399,999	11	\$ 6,713,274,124	\$ 14,671,269	.0468	\$ 1,333,752
1,400,000 -	1,499,999	14	\$ 6,733,541,426	\$ 20,267,302	.0448	\$ 1,447,664
1,500,000 -	1,599,999	12	\$ 6,752,196,538	\$ 18,655,112	.0429	\$ 1,554,593
1,600,000 -	1,699,999	13	\$ 6,773,557,693	\$ 21,361,155	.0412	\$ 1,643,166
1,700,000 -	1,799,999	4	\$ 6,780,515,458	\$ 6,957,765	.0398	\$ 1,739,441

PENNSYLVANIA  
DISTRIBUTION OF LOSSES

LIMITS	ACCUMULATED CLAIMS (ADDED UP)	NUMBER OF CLAIMS	ACCUMULATED LOSSES (ADDED DOWN)	INDEMNITY AND MEDICAL	EXCESS RATIO	AVERAGE
1,800,000 -	1,899,999	98	\$ 6,791,550,557	\$ 11,035,099	.0384	\$ 1,839,183
1,900,000 -	1,999,999	92	\$ 6,813,031,472	\$ 21,480,915	.0371	\$ 1,952,810
2,000,000 -	2,999,999	81	\$ 6,903,896,645	\$ 90,865,173	.0359	\$ 2,391,189
3,000,000 -	3,999,999	43	\$ 6,959,966,487	\$ 56,069,842	.0279	\$ 3,504,365
4,000,000 -	4,999,999	27	\$ 6,991,649,817	\$ 31,683,330	.0230	\$ 4,526,190
5,000,000 -	5,999,999	20	\$ 7,018,896,356	\$ 27,246,539	.0198	\$ 9,082,180
6,000,000 -	6,999,999	17	\$ 7,045,159,591	\$ 26,263,235	.0157	\$ 13,131,618
7,000,000 -	7,999,999	15	\$ 7,068,488,459	\$ 23,328,868	.0117	\$ 7,776,289
8,000,000 -	8,999,999	12	\$ 7,084,666,294	\$ 16,177,835	.0097	\$ 8,088,918
10,000,000 -	AND GREATER	10	\$ 7,234,553,696	\$ 149,887,402	.0069	\$ 14,988,740
GRAND TOTALS		865,309	EXCLUDING CONTRACT MEDICAL	\$ 7,234,553,696	\$ 8,361	

**Pennsylvania Compensation Rating Bureau  
Distribution of Losses**

<u>Excess Loss Limits *</u>		Loss Amount	Number of Claims	Excess Loss Amount	Average	Empirical Excess Ratio
From	TO (<)					
				7,234,553,696		
0	10,000	959,654,767	789,878	5,520,588,929	1,215	.7631
10,000	15,000	192,626,266	15,710	5,186,457,663	12,261	.7169
15,000	20,000	164,745,987	9,513	4,913,366,676	17,318	.6792
20,000	25,000	147,387,660	6,599	4,679,914,016	22,335	.6469
25,000	30,000	131,036,684	4,780	4,474,232,332	27,414	.6185
30,000	35,000	119,534,647	3,690	4,289,702,685	32,394	.5929
35,000	40,000	108,070,054	2,890	4,121,537,631	37,394	.5697
40,000	50,000	204,694,641	4,573	3,823,002,990	44,762	.5284
50,000	75,000	437,481,787	7,130	3,228,371,203	61,358	.4462
75,000	100,000	399,098,936	4,597	2,775,322,267	86,817	.3836
100,000	125,000	360,482,659	3,212	2,417,614,608	112,230	.3342
125,000	150,000	340,470,280	2,501	2,133,869,328	136,134	.2950
150,000	175,000	296,982,721	1,830	1,901,236,607	162,286	.2628
175,000	200,000	242,755,131	1,305	1,709,331,477	186,019	.2363
200,000	225,000	203,739,332	960	1,544,067,145	212,228	.2134
225,000	250,000	201,242,800	849	1,401,549,346	237,035	.1937
250,000	275,000	187,184,168	713	1,278,140,178	262,530	.1767
275,000	300,000	179,573,340	626	1,171,891,839	286,858	.1620
300,000	325,000	163,482,593	522	1,079,234,246	313,185	.1492
325,000	350,000	153,945,426	457	999,580,487	336,615	.1382
350,000	375,000	145,350,402	403	930,888,418	360,970	.1287
375,000	400,000	130,803,373	337	870,743,378	387,757	.1204
400,000	425,000	113,491,460	275	818,356,084	412,446	.1131
425,000	450,000	109,715,383	251	772,628,201	437,113	.1068
450,000	475,000	100,496,323	217	732,638,128	462,584	.1013
475,000	500,000	84,977,317	175	698,029,562	484,892	.0965
500,000	600,000	240,798,341	440	589,731,221	547,269	.0815
600,000	700,000	170,884,364	265	516,846,857	644,847	.0714
700,000	800,000	127,234,467	170	464,612,390	748,438	.0642
800,000	900,000	95,612,863	113	426,699,527	846,132	.0590
900,000	1,000,000	65,112,743	69	397,886,784	943,663	.0550
1,000,000	2,000,000	234,364,560	177	259,522,224	1,324,094	.0359
2,000,000	3,000,000	90,865,173	38	201,657,051	2,391,189	.0279
3,000,000	4,000,000	56,069,842	16	166,587,209	3,504,365	.0230
4,000,000	5,000,000	31,683,330	7	142,903,879	4,526,190	.0198
5,000,000	6,000,000	27,246,539	3	113,657,340	9,082,180	.0157
6,000,000	7,000,000	26,263,235	2	84,394,105	13,131,618	.0117
7,000,000	8,000,000	23,328,868	3	70,065,237	7,776,289	.0097
8,000,000	9,000,000	16,177,835	2	59,887,402	8,088,918	.0083
9,000,000	10,000,000	0	0	49,887,402	0	.0069
10,000,000	& Over	149,887,402	10		14,988,740	
TOTAL/AVERAGE		7,234,553,696	865,309		8,361	

\* Limits consistent with published loss limits for excess loss factors  
Values have been interpolated when not available on prior pages