DELAWARE COMPENSATION RATING BUREAU, INC

State & Hazard Group Relativities

The attached exhibit pages present the application of a methodology previously provided to the
DCRB by the NCCI for calculating State and Hazard Group relativities. The procedure
compares Delaware severities with countrywide (NCCI states) severities.

Note: As part of the DCRB's review of State and Hazard group Relativities, current assignments of classifications to hazard groups were evaluated and the hazard group for certain classifications were reassigned to be consistent with those used in Pennsylvania. Page 9 provides a list of classifications with proposed changes to the hazard group assignment.

Table I	
RUN DATE:	6/30/2006

Unweighted Countrywide Average Cost/Case for Serious Injury Type and Hazard Group

Injury <u>Type</u>	Hazard Group <u>I II III</u>			<u>IV</u>	Weighted <u>Average</u>
Fatal	\$69,515	\$88,694	\$110,723	\$131,911	\$105,162
P.T.	\$197,844	\$214,883	\$293,551	\$352,559	\$264,007
Maior	\$69.288	\$73.525	\$85.199	\$98.235	\$80.150

Differential to Unweighted Average

Injury <u>Type</u>	<u>l</u>	Hazard Grou <u>II</u>	ір <u>III</u>	<u>IV</u>
Fatal	0.661	0.843	1.053	1.254
P.T.	0.749	0.814	1.112	1.335
Major	0.864	0.917	1.063	1.226
Date:	6/30/2006			

Countrywide Standard Earned Premium by Hazard Group

Hazard <u>Group</u>	Standard <u>Premium</u>	Ratio to Smallest <u>Premium</u>
I	\$324,495,944	1.000
II	\$23,444,564,742	0.014
Ш	\$25,372,947,368	0.013
IV	\$1,484,071,356	0.219
Total	\$50,626,079,410	

Table II

Countrywide Type of Injury Loss Distribution Table

Hazard <u>Group</u> !	<u>Fatal</u>	<u>P.T.</u>	<u>Major</u>	Minor	<u>T.T.</u>	Medical
 	0.057	0.131	0.220	0.391	0.343	0.328
 	0.117	0.156	0.222	0.278	0.297	0.334
 	0.270	0.264	0.262	0.181	0.207	0.196
I IV Page 1	0.556	0.449	0.296	0.150	0.153	0.142

DELAWARE

Proposed Effective: 12/1/06

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

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Premium Distribution By Hazard Group*

Hazard	(1) Standard	(2) Total Standard	(3)	
Group	<u>Premium</u>	<u>Premium</u>	Ratio	
1	42,803,409	584,703,083	0.073	
II	262,652,980		0.449	
Ш	222,985,242		0.381	
IV	56,261,452		0.096	

^{*}Based on Unit Statistical Data.

Exhibit II

Distribution of Losses by Injury Type Derived from Hazard Group Premium Distribution & Countrywide Loss Distribution

Injury <u>Type</u>	1	Hazard Group <u>II</u>	Ш	<u>IV</u>
Fatal	0.020	0.247	0.482	0.251
P.T.	0.043	0.314	0.450	0.193
Major	0.066	0.409	0.409	0.116
Minor	0.121	0.527	0.291	0.061
T.T.	0.099	0.530	0.313	0.058
Medical	0.091	0.572	0.285	0.052

For each hazard group, the following procedure is utilized to obtain the distribution of losses within each injury type:

The percentage of countrywide losses by hazard group (see Table II) is multiplied by the corresponding statewide ratio of standard earned premium to total (Exhibit I). This is then divided by the sum of these calculations for all four hazard groups. This procedure is done for each injury type.

Exhibit III

Factors to Adjust Countrywide Differential to State Differential

(A) I	Injury [*]	Type
-------	---------------------	------

(B)

Fatal 0.948337

P.T. 0.971995

Major 0.997504

Ìnjury				
<u>Type</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>
Fatal	0.697	0.889	1.110	1.322
P.T.	0.771	0.837	1.144	1.373
Major	0.866	0.919	1.066	1.229

(C) Injury <u>Type</u>	н <u>!</u>	azard Grou _l <u>II</u>) <u> </u>	<u>IV</u>
P.T./Major	0.840	0.894	1.096	1.299
Serious	0.839	0.894	1.097	1.300

- (A) For each serious injury type, the countrywide hazard group unweighted average cost per case differential (Table I) is multiplied times percent of premium (Exhibit I) in the hazard group for that state. These products are summed to form the factors in (A).
- (B) For each hazard group the factors from Table I are divided by the appropriate injury type factor in section (A) of this exhibit.
- (C) For P.T. and Major injury types, a combined (by hazard group) differential is derived by calculating a weighted average of the two differentials using the factors from Exhibit VII as weights.

Date: 6/30/2006

DELAWARE Proposed Effective: 12/1/06 Non-Escalating Fatal Benefits -- Non-Escalating PT/Major Benefits

Exhibit IV Calculation of ELPF Trend

Policy Pe	Policy Period		1/1/02-12/31/02	2 1/1/01-12/31/01
		First Report	Second Repor	t Third Report
(1) Proposed Effective Date of	Filing		12/1/06	
(2a) Trend to(2b) Midpoint of Policy Period(3) Benefit Level to Which Loss	ses are Brought	1/1/2004	8/15/2006 1/1/2003 7/1/2006	1/1/2002
(4a) Yrs. from (2a) to (2b) (4b)		2.625	3.625	4.625
(5) Indemnity Trend { 1.0307 /	^ (4a)}	1.0826	1.1158	1.1501
(6) (7) (8) (9)				
(10) Medical Trend { 1.0953 ^	(4a)}	1.2699	1.3909	1.5235

Date: 6/30/2006

DELAWARE Proposed Effective: 12/1/06 Policy Period: 1/1/03-12/31/03

Report: FIRST

Exhibit V - a

Excess Loss Premium Factor Calculation Average Cost Per Case

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Type of Injury	Indemnity Losses	Amend. Factor	Trend in Ind Cost per Case	Indem Trended on Level (1)x(2)x(3)	Medical Losses	Amend. Factor	Medical Trend	Medical Trended on Level (5)x(6)x(7)	
A.	Death	406,000	1.0535	1.0826	463,051	22,200	1.0000	1.2699	28,192	
В.	P.T.	528,200	1.0805	1.0826	617,862	1,884,100	1.0000	1.2699	2,392,619	
C.	Major	9,836,700	1.0741	1.0826	11,438,318	6,960,400	1.0000	1.2699	8,839,012	
D.	Minor	8,816,300	1.0755	1.0826	10,265,138	10,568,900	1.0000	1.2699	13,421,446	
E.	T.T.	12,713,500	1.0805	1.0826	14,871,608	21,368,800	1.0000	1.2699	27,136,239	
F.	Med. Only					8,446,000	1.0000	1.2699	10,725,575	
G.	Overall	32,300,700	XX	XX	37,655,977	49,250,400	1.0000	XX	62,543,083	
		(9) Total Losses (4)+(8)	(10) No. of Claims	(11) Average Severity (9)/(10)	(12) Severity Dev. to Ult. Rep	(13) Developed Severity (11)x(12)	(14) Case Development	(15) Indemnity Dev. to Ult. Rpt.	(16) Medical Dev. to Ult. Report	(17) Total Developed (4)x(15)+(8)x(16)
A.	Death	491,243	4	122,811	4.3736	537,126	1.0000	2.9723	1.217 (a)	1,410,636
В.	P.T.	3,010,481	1	007.004	2.0450	740.040	7.0000	11.3565	25.291 (a)	67,528,477
C.	Major	20,277,330	97	237,631	3.0158	716,648	2.5567	4.4164	6.512 (a)	108,075,834
D.	Minor	23,686,584	426	55,602	1.3881	20.745	1.1596	1.0865	2.043 (a)	38,573,087
E.	T.T.	42,007,847	2,532	16,591	1.3118	29,745	1.0375	1.0735	1.543 (a)	57,835,888
F.	Med. Only	10,725,575	XX	XX	XX	XX	XX		1.000 (b)	10,725,575

⁽a) (14) x (MED DEV 5TH TO ULT) (b) SELECTED

Date: 6/30/2006

DELAWARE Proposed Effective: 12/1/06 Policy Period: 1/1/02-12/31/02

Report: SECOND

Exhibit V - b

Excess Loss Premium Factor Calculation Average Cost Per Case

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Type of Injury	Indemnity Losses	Amend. Factor	In Trend in Ind Cost per Case	ndem Trended on Level (1)x(2)x(3)	Medical Losses	Amend. Factor	Medical Trend	Medical Trended on Level (5)x(6)x(7)	_
A.	Death	1,336,600	1.0740	1.1158	1,601,740	1,171,000	1.0000	1.3909	1,628,744	
В.	P.T.	4,046,000	1.1091	1.1158	5,007,062	14,858,200	1.0000	1.3909	20,666,270	
C.	Major	17,939,900	1.1003	1.1158	22,025,080	14,629,700	1.0000	1.3909	20,348,450	
D.	Minor	8,211,200	1.1023	1.1158	10,099,335	10,146,000	1.0000	1.3909	14,112,071	
E.	T.T.	14,566,400	1.1091	1.1158	18,026,412	23,280,100	1.0000	1.3909	32,380,291	
F.	Med. Only					7,907,700	1.0000	1.3909	10,998,820	
G	Overall	46,100,100	XX	XX	56,759,629	71,992,700	1.0000	xx	100,134,646	
		(9) Total Losses (4)+(8)	(10) No. of Claims	(11) Average Severity (9)/(10)	(12) Severity Dev. to Ult. Rep	(13) Developed Severity (11)x(12)	(14) Case Development	(15) Indemnity Dev. to Ult. Rpt.	(16) Medical Dev. to Ult. Report	(17) Total Developed (4)x(15)+(8)x(16)
A.	Death	3,230,484	5	646,097	2.4793	1,601,868	1.0000	2.0578	1.217 (a)	5,278,242
В.	P.T.	25,673,332	7	400.044	0.4000		1.4286	1.9566	5.162 (a)	116,476,103
C.	Major	42,373,530	162	402,644	2.4396	982,290	1.4444	2.2097	3.679 (a)	123,530,767
D.	Minor	24,211,406	472	51,295	1.4898	20.466	1.0614	1.0936	1.870 (a)	37,434,206
E.	T.T.	50,406,703	2,640	19,093	1.2703	32,166	1.0015	0.9891	1.489 (a)	66,044,177
F.	Med. Only	10,998,820	XX	XX	XX	XX	XX		1.000 (b)	10,998,820

⁽a) (14) x (MED DEV 5TH TO ULT) (b) SELECTED

Date: 6/30/2006

DELAWARE Proposed Effective: 12/1/06 Policy Period: 1/1/01-12/31/01

Report: THIRD

Exhibit V - c

Excess Loss Premium Factor Calculation Average Cost Per Case

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Type of Injury	Indemnity Losses	Amend. Factor	lı Trend in Ind Cost per Case	ndem Trended on Level (1)x(2)x(3)	Medical Losses	Amend. Factor	Medical Trend	Nedical Trended on Level (5)x(6)x(7)	
Α.	Death	1,631,500	1.0907	1.1501	2,046,577	121,900	1.0000	1.5235	185,715	
B.	P.T.	1,373,500	1.1360	1.1501	1,794,496	1,357,300	1.0000	1.5235	2,067,847	
C.	Major	26,561,700	1.1250	1.1501	34,367,188	21,853,500	1.0000	1.5235	33,293,807	
D.	Minor	8,157,900	1.1273	1.1501	10,576,780	9,161,200	1.0000	1.5235	13,957,088	
E.	T.T.	14,836,800	1.1360	1.1501	19,384,481	21,471,600	1.0000	1.5235	32,711,983	
F.	Med. Only					7,928,300	1.0000	1.5235	12,078,765	
G.	Overall	52,561,400	XX	XX	68,169,522	61,893,800	1.0000	XX	94,295,205	
		(9) Total Losses (4)+(8)	(10) No. of Claims	(11) Average Severity (9)/(10)	(12) Severity Dev. to Ult. Rep	(13) Developed Severity (11)x(12)	(14) Case Development	(15) Indemnity Dev. to Ult. Rpt.	(16) Medical Dev. to Ult. Report	(17) Total Developed (4)x(15)+(8)x(16)
A.	Death	2,232,292	6	372,049	1.8072	672,367	1.0000	1.6750	1.217 (a)	3,654,032
B.	P.T.	3,862,343	2	222.225	0.0777	700 405	3.5000	3.7509	12.646 (a)	32,880,968
C.	Major	67,660,995	229	309,625	2.3777	736,195	1.0917	1.5136	2.781 (a)	144,608,253
D.	Minor	24,533,868	480	51,112	1.5458	33,837	1.0250	1.0979	1.806 (a)	36,818,748
E.	T.T.	52,096,464	2,563	20,326	1.2485	00,001	1.0020	0.9854	1.490 (a)	67,842,322
F.	Med. Only	12,078,765	XX	XX	XX	XX			1.000 (b)	12,078,765

⁽a) (14) x (MED DEV 5TH TO ULT) (b) SELECTED

Date: 6/30/2006

DELAWARE

Proposed Effective: 12/1/06

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

					Exhibit VII Combined Injury Weights					
Exhibit VI										
Adjusted Avera	age Cost Per (Case by Iniui	ry Types			Hazard Group	I		Hazard Group II	I
•	Ü	2 a 2 2 7 j a .	., .,,,,,		i	Total			Total	
For Each Haza	ard Group				Type of Injury	Incurred Losses	Injury Weights	Type of Injury	Incurred Losses	Injury Weights
I. * Injury Type	Average Cos	t Per Case	Ir	ndicated		200000	Wolgino	n gar y	200000	Worgino
Fatal	747,271			946,136	Death	206,858	0.003	Death	2,554,699	0.006
i atai	171,211			340,130	P.T.	9,326,079	0.133	P.T.	68,102,062	0.168
P.T. / Major	621,624			815,863	Major	24,830,180	0.354	Major	153,871,875	0.380
Minor/T.T.	29,599			31,938	P.T./Major	34,156,259	0.487	P.T./Major	221,973,937	0.548
IVIINOI/ I . I .	29,599			31,938	l Minor	13,651,951	0.195	Minor	59,459,324	0.147
					T.T.	18,980,516	0.271	T.T.	101,612,865	0.251
					Minor/T.T.	32,632,467	0.466	Minor/T.T.	161,072,189	0.398
H ** Indome Towns		Hazaro	d Group		 Marel Oaks	0.070.000	VV	Maral Order	40.005.400	VV
II.** Injury Type	ı	П	III	IV	Med. Only	3,076,088	XX	Med. Only	19,335,408	XX
Fatal	520,848	664,324	829,471	987,892	Total	70,071,672	XX	Total	404,936,233	XX
P.T./Major	522,164	555,732	681,300	807,490		Hazard Group I	II	I	Hazard Group I\	/
Minor/T.T.	29,599	29,599	29,599	29,599		Total			Total	
			·		Type of Injury	Incurred Losses	Injury Weights	Type of Injury	Incurred Losses	Injury Weights
* States overall								,,		
injury type, bas data.	sed upon lates	t three availa	able years of	U.S.P.	Death 	4,985,283	0.014	Death	2,596,070	0.024
					P.T.	97,598,497	0.272	P.T.	41,858,911	0.388
** Four sets of fa		, ,	`		Major	153,871,875	0.429	Major	43,640,923	0.405
B and C) are m (Section I) for e	. ,	, , ,		•	P.T./Major 	251,470,372	0.701	P.T./Major	85,499,834	0.793
figures in Secti	ion II of this ex	hibit.	,		Minor	32,832,378	0.091	Minor	6,882,389	0.064
					T.T.	60,009,107	0.167	T.T.	11,119,898	0.103
					Minor/T.T.	92,841,485	0.258	Minor/T.T.	18,002,287	0.167
					Med. Only	9,633,901	XX	Med. Only	1,757,764	XX
					 Total	358,931,041	XX	Total	107,855,955	XX

For each hazard group the following procedure is utilized to obtain the distribution of los. The percentage of losses by injury type (Exhibit II) is multiplied by the corresponding injury type total incurred losses to achieve combined injury weights

Date:

6/30/2006

DELAWARE State and Hazard Group Relativities Proposed Effective: 12/1/06

Exhibit VIII

Injury	(1) Severity	(2) Incurred Losses	(3) Calculated # Claims	(4) Average Severity	(5) Cred- ibility (a)	(6) NCCI Ave Sev (b)	(7) Delaware Cred Wtd Ave Sev	(8) Delaware Relativity (6T)/(7)	(9) Selected (c)
Hazard Group I									
Fatal PT/Major TT/Minor Combined	520,848 522,164 29,599	206,858 34,156,259 32,632,467 66,995,584	0.4 65.4 1,102.5 1,168.3	57,345	0.09	31,845	34,140	1.302	1.302
Hazard Group II									
Fatal PT/Major TT/Minor Combined	664,324 555,732 29,599	2,554,699 221,973,937 161,072,189 385,600,825	3.8 399.4 5,441.8 5,845.0	65,971	0.19	36,628	42,203	1.053	1.053
Hazard Group III									
Fatal PT/Major TT/Minor Combined	829,471 681,300 29,599	4,985,283 251,470,372 92,841,485 349,297,140	6.0 369.1 3,136.6 3,511.7	99,467	0.15	55,055	61,717	0.720	0.720
Hazard Group IV									
Fatal PT/Major TT/Minor Combined	987,892 807,490 29,599	2,596,070 85,499,834 18,002,287 106,098,191	2.6 105.9 608.2 716.7	148,037	0.07	84,145	88,617	0.502	0.502
Total - All Hazard Groups									
Combined			11,241.7		0.27	44,457			

Notes:

- (a) Full credibility equals 155,000 claims. $Z = (calculated \# claims / 155,000) ^0.5$
- (b) Credibility weighted average severity of NCCI states underlying Table M expected loss group ranges.
- (c) Selected Relativities limited to a range from 0.500 to 2.000

Date: 6/30/2006

DELAWARE COMPENSATION RATING BUREAU

DECEMBER 1, 2006 LOSS COST FILING PROPOSED HAZARD GROUP ASSIGNMENTS

Class	Class Description	Hazard G	
		Current	Revised
00070	Farm Machinery Operation	2	3
00160	Orchard	2	1
00830	Livestock Farm	2 1	3 2
01070 01150	Candy Mfg. Tobacco Products Mfg.	1 1	2
01350	Hosiery Mfg.	1	2
01640	Federal Coal Mine Coverage Loading	0	4
01650	Mattress, Box Spring Mfg.	3	2
01760	Supplemental Loading For Class 513	3	2
01870 02050	Employment Contractor Candy Mfg. Leather Goods Mfg., N.O.C.	1	2 2
03230	Furniture Mfg.	2	1
04060	Rolling Mill	2	3
04490	Electroplating	3	2
04590	Eyelet Mfg.	1	2
05020 05130	Plaster Statuary Mfg. Pottery, N.O.C.	1 2	2 1
05510	Chemical Mfg., N.O.C.	4	3
05530	Gases Mfg.	4	3
06020	Road Construction	3	4
06030	Sewer Construction	3	4
06080	Flat Cement Work	3	4
06090 06110	Excavation Pile Driving	3 3	4 4
06170	Gas, Steam Water Main Construction	3	4
06450	Wallboard Installation	3	4
06460	Furniture Fixtures Installation	2	3
06510	Carpentry - Commercial	3	4
06540	Concrete Construction Electric Line Construction	3 3	4 4
06560 06590	Roofing	3	4
06620	Appliance Service Or Repair	3	2
06650	Painting	3	4
06690	Plastering	3	4
06750	Machinery Equipment Erection	3	4
06760 06910	Sheet Metal Installation Employment Contractor - Excavation	3 3	4 4
06930	Employment Contractor - Commercial Carpentry	3	4
07210	Railroad Operation, N.O.C.	3	4
07440	Aircraft Manufacture	3	2
07520	Oil Or Gas Pipeline Operation	4	3
08060	Furniture Moving Storage Dealer In Mobile, Self-Propelled Equipment	2 3	3 2
08140 08250	Automobile Storage Garage Or Parking Station Lot	3	2
08770	Employment Contractor - Department Store	2	1
08970	Fast-Food Restaurant	2	1
09080	Domestic Workers - Inside	1	2
09130	Domestic Workers - Inside	1	2
09140 09170	Department Store Grocery Store	2 2	1 1
09190	Florist Store	1	2
09210	Furniture Store - Wholesale	3	2
09360	Broadcasting Station	3	2
09450	Hotel Restaurant	2	1
09540 09560	Security Agency Law Firm	4 2	3 3
09640	Sheltered Work Shops	2	1
09690	Amusement, Outdoor	2	3
09750	Restaurant, N.O.C.	2	1
09770	Barber Shop Beauty Parlor Hair Styling Salon	1	2
09790	Residential Facility For The Elderly - Non-Medical	3	2
09850 68430 F	Police Or Firefighters - Salaried Ship Building, Iron Or Steel	4 3	3 4
68720 F	Ship Repair Or Conversion - All Operations	3	4
74050	Aircraft Operation	4	3
74210	Aircraft Operation	4	3