

CAR Commercial Rate – Effective March 1, 2019
Implementation Procedures and Summary of Changes

Below is a description of procedures used to develop rates effective March 1, 2019, including a summary of the changes implemented this year.

1. Commission Schedule

Commissions to be paid in conjunction with the CAR Commercial Rate are as follows:

<u>Classification</u>	<u>Percent of Written Premium</u>
Taxi	8.28%
Limousine	3.48%
Car Service	2.66%
All Other	8.75%

2. CAR Commercial Automobile Insurance Manual – Manual Rules

No Rule changes or statistical coding changes are included with this rate filing. Specific rates and relativities referenced in the Rules would change where applicable. These changes include the following:

Section II: Common Coverages and Rating Procedures Single Limit Example, Page 8 of 14.

Section III: Trucks, Tractors, and Trailers Premium Calculation Example, Page 16 of 16.

3. CAR Commercial Automobile Policy Forms and Endorsements

No Policy Form or Endorsement changes are included with rate filing.

4. Experience Rating Plan

The CAR Experience Rating Plan has been updated to reflect factors and components resulting from the proposed rate changes. The Experience Rating Plan will be posted to CAR's website upon approval. Policies eligible for experience rating issued prior to distribution of the Experience Rating Plan should include endorsement MM 99 23 – Rate Modification.

Specific changes to the experience rating plan include the following:

Liability

- a. Updates to Premium De-Trend Factors
- b. Loss Development Factors for immature years have been updated.
- c. The Experience Rating Adjustment Factor (ERAF) has been eliminated, the Experience Rating Modification Factor Calculation has been updated to remove the ERAF.
- d. Updates to Table C – Credibility, Adjusted Expected Loss Ratio, and Maximum Single Loss
- e. Examples have been updated.

Physical Damage

- a. Updates to Premium De-Trend Factors
- b. Loss Development Factors for immature years have been updated.
- c. The Experience Rating Adjustment Factor (ERAF) has been changed from .8 to .6.
- d. Updates to Table C – Credibility, Adjusted Expected Loss Ratio, and Maximum Single Loss for Zone Rated and All Other
- e. Examples have been updated

5. Rate Implementation

a. Territory Schedule

The territory definitions to be used for policies effective with this filing are unchanged. Territory relativities have been updated.

b. Increased Limit Factors (ILF)

The Bodily Injury and Property Damage Liability ILF's have been updated. Uninsured/Underinsured Motorists ILF's have been updated to reflect changes in the base rates.

Refer to Schedule 107 for complete tables of increased limit factors.

c. Deductible Relativities

Physical Damage Deductible Rate Relativities were updated.

Refer to Schedule 107 for Deductible Relativities.

d. Zone Rates

Base rates for Zone Rated rates remain unchanged from the 2-01-18 rates.

Primary rating factors for liability zone-rated TTTs have been updated in this filing.

Note the primary classification liability rating factors for zone rated buses for the following fleet and non-fleet classes have also been updated:

Vehicle Classification	Class Code	Selected Filing Liability Rating Factor	Current Liability Rating Factor
Airport	5209/5279	1.10	1.00
Inter-City	5309/5379	1.30	1.00
Charter	5409/5479	1.30	1.00
Sightseeing	5509/5579	1.30	1.00

e. Age-Symbol Relativities

Age-Symbol Relativities have been updated.

Refer to Schedule 107 for complete tables of Age-Symbol Relativities.

f. **Schedule 107 and Rates**

i. **Trucks, Tractors, and Trailers**

Schedule 107-1 contains the information necessary for the calculation of rates for vehicles classified as truck, tractor, or trailer. The methodology for the calculation of these rates is unchanged. The following should be noted:

- Non zone-rated Collision premiums for truck-tractors and vehicles used in dumping operations are developed by applying a factor of 1.25 times the corresponding truck collision premium. Zone Rated vehicles used in dumping operations are developed by applying a factor of 1.5 times the corresponding truck collision premium.
- Fire, theft, and CAC premiums for the \$500 deductible level are developed by applying a factor of 0.64 times the corresponding \$500 deductible comprehensive premium.
- Calculation of the \$300 deductible fire, theft, and CAC premium follows the same procedure, including a minimum \$5 buyback charge.
- Use TTT medical payments rates for zone rated classifications.
- Physical damage rates for zone rated, trailer interchange, and long distance classes remain the same as the 02-01-18 rates.
- Primary rating factors for zone-rated TTTs have been updated in this filing.

ii. **Private Passenger Types**

Schedule 107-2 contains information necessary for the calculation of rates for vehicles classified as private passenger fleet, and those miscellaneous vehicle classifications with base rates derived from the private passenger non-fleet type. Private passenger non-fleet vehicles (classification code 739100) will continue to be rated using the Servicing Carrier's voluntary filed rate. The methodology for the calculation of these rates for both liability and physical damage remains unchanged.

iii. **Public Vehicle Types**

• **Taxi**

Schedule 107-3 contains the information necessary for the calculation of taxi liability rates. The methodology for the calculation of these rates remains unchanged. For collision and limited collision rates, charge 5 times the private passenger type collision or limited collision rate. For comprehensive rates, charge six times the private passenger type rate.

• **Limousine**

Schedule 107-4 contains the information necessary for the calculation of the limousine liability rates. The methodology for the calculation of these rates remains unchanged. The physical damage rates are developed by applying a factor of 1.5 times the private passenger type rate.

- Car Service

Schedule 107-5 contains the information necessary for the calculation of the car service liability rates. The methodology for the calculation of these rates remains unchanged. The physical damage rates are developed by applying a factor of 1.5 times the private passenger type rate.

- Public Buses

Schedule 107-6 contains the information necessary for the calculation of the public bus liability rates. The methodology for the calculation of these rates remains unchanged. The physical damage rates are developed by applying a factor of 1.25 times the TTT rate.

- Van Pools

Schedule 107-7 contains the information necessary for the calculation of the van pool rates. The methodology for the calculation of these rates remains unchanged.

iv. **Garages**

Schedule 107-8 contains the information necessary for the calculation for garage risks on a per plate basis. The methodology for the calculation of these rates remains unchanged. Garagekeepers premium and dealers physical damage premium are developed by applying a factor of 1.084 to the rates effective February 1, 2018. For garage operations other than covered autos, the calculation of premium on a combined single limit, aggregate basis for compulsory garage risks, and for those garage risks for which a dealer or repair plate has not been issued, will be contained in the Rate Section of the Commercial Automobile Manual.

v. **Special Types**

The factors and rating procedures for special types remain unchanged. Special Types premium are developed by applying a factor of 1.070 to the rates effective February 1, 2018.

vi. **Motorcycles**

Motorcycle rates have not been updated. Please refer to Motorcycle Rates and ILF's from the 6/1/2016 rates

COMMONWEALTH AUTOMOBILE REINSURERS

SCHEDULE 107 Rating Components

Effective March 1, 2019

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Schedule 107-1

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Trucks, Tractors, and Trailers
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Fleet/ Non-Fleet Differential (100K)		(4) Company Expense Pure Premium (Form 100)	(5) Variable Expense Factor* (Form 100)	(7) Final Base Rates**	
			Fleet	Non-Fleet			Fleet	Non-Fleet
	327.52				89.79	0.8327		
A-1 & B**								
Territory:								
1	2.3619	0.9979	1.0047				1035	1041
2	2.3619	0.9979	1.0047				1035	1041
3	2.3619	0.9979	1.0047				1035	1041
4	2.3619	0.9979	1.0047				1035	1041
5	2.3619	0.9979	1.0047				1035	1041
6	2.3619	0.9979	1.0047				1035	1041
7	2.3619	0.9979	1.0047				1035	1041
8	2.3619	0.9979	1.0047				1035	1041
9	2.3619	0.9979	1.0047				1035	1041
10	2.3619	0.9979	1.0047				1035	1041
11	0.6351	0.9737	1.0276				351	365
12	0.8045	1.0000	1.0000				424	424
13	0.7904	1.0000	1.0000				419	419
14	0.9369	1.0000	1.0000				476	476
15	0.9185	1.0000	1.0000				469	469
16	1.0444	1.0000	1.0000				519	519
17	1.2058	1.0000	1.0000				582	582
18	1.3197	0.9798	1.0241				616	639
19	1.5106	0.9527	1.0501				674	732
20	1.7020	0.9586	1.0493				750	810
A-1**								
Territory:								
1							921	926
2							921	926
3							921	926
4							921	926
5							921	926
6							921	926
7							921	926
8							921	926
9							921	926
10							921	926
11							312	325
12							377	377
13							373	373
14							424	424
15							417	417
16							462	462
17							518	518
18							548	569
19							600	651
20							668	721
B. Basic**								
Territory:								
1							114	115
2							114	115
3							114	115
4							114	115
5							114	115
6							114	115
7							114	115
8							114	115
9							114	115
10							114	115
11							39	40
12							47	47
13							46	46
14							52	52
15							52	52
16							57	57
17							64	64
18							68	70
19							74	81
20							82	89

* (5) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 89.0% of Combined rates.

B: 11.0% of Combined rates.

*** (6) = {[(1) x (2) x (3) + (4)] / (5) } .

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Trucks, Tractors, and Trailers
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Fleet/ Non-Fleet Differential (100K)		(4) Company Expense Pure Premium (Form 100)	(5) Variable Expense Factor*	(6) Final Base Rates**	
			Fleet	Non-Fleet			Fleet	Non-Fleet
A-2	20.45				5.81	0.8327		
Territory:								
1	2.3619	0.9979	1.0047			65	65	
2	2.3619	0.9979	1.0047			65	65	
3	2.3619	0.9979	1.0047			65	65	
4	2.3619	0.9979	1.0047			65	65	
5	2.3619	0.9979	1.0047			65	65	
6	2.3619	0.9979	1.0047			65	65	
7	2.3619	0.9979	1.0047			65	65	
8	2.3619	0.9979	1.0047			65	65	
9	2.3619	0.9979	1.0047			65	65	
10	2.3619	0.9979	1.0047			65	65	
11	0.6351	0.9737	1.0276			22	23	
12	0.8045	1.0000	1.0000			27	27	
13	0.7904	1.0000	1.0000			26	26	
14	0.9369	1.0000	1.0000			30	30	
15	0.9185	1.0000	1.0000			30	30	
16	1.0444	1.0000	1.0000			33	33	
17	1.2058	1.0000	1.0000			37	37	
18	1.3197	0.9798	1.0241			39	40	
19	1.5106	0.9527	1.0501			42	46	
20	1.7020	0.9586	1.0493			47	51	
PDL, Basic	369.68				97.06	0.8577		
Territory:								
1	2.3619	0.9979	1.0047			1129	1136	
2	2.3619	0.9979	1.0047			1129	1136	
3	2.3619	0.9979	1.0047			1129	1136	
4	2.3619	0.9979	1.0047			1129	1136	
5	2.3619	0.9979	1.0047			1129	1136	
6	2.3619	0.9979	1.0047			1129	1136	
7	2.3619	0.9979	1.0047			1129	1136	
8	2.3619	0.9979	1.0047			1129	1136	
9	2.3619	0.9979	1.0047			1129	1136	
10	2.3619	0.9979	1.0047			1129	1136	
11	0.6351	0.9737	1.0276			380	394	
12	0.8045	1.0000	1.0000			460	460	
13	0.7904	1.0000	1.0000			454	454	
14	0.9369	1.0000	1.0000			517	517	
15	0.9185	1.0000	1.0000			509	509	
16	1.0444	1.0000	1.0000			563	563	
17	1.2058	1.0000	1.0000			633	633	
18	1.3197	0.9798	1.0241			670	696	
19	1.5106	0.9527	1.0501			733	797	
20	1.7020	0.9586	1.0493			816	883	

* (5) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (6) = {[1] x [2] x [3] + [4]} / [5]

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**Trucks, Tractors, and Trailers
Liability Coverages for Which Rates do not Vary by Territory**

Coverage D

\$ 5,000	\$30
10,000	32

Coverage U

	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

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Trucks, Tractors, & Trailers
Physical Damage Loss Pure Premium by Territory

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<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Fleet/ Non-Fleet Differential (100K)		(4) Loss Pure Premium by Territory *	
			Fleet	Non-Fleet	Fleet	Non-Fleet
<u>Collision</u>	328.62					
Territory:						
1	2.1478	0.9600	1.0560	678	745	
2	2.1478	0.9600	1.0560	678	745	
3	2.1478	0.9600	1.0560	678	745	
4	2.1478	0.9600	1.0560	678	745	
5	2.1478	0.9600	1.0560	678	745	
6	2.1478	0.9600	1.0560	678	745	
7	2.1478	0.9600	1.0560	678	745	
8	2.1478	0.9600	1.0560	678	745	
9	2.1478	0.9600	1.0560	678	745	
10	2.1478	0.9600	1.0560	678	745	
11	0.7841	1.0000	1.0000	258	258	
12	0.8778	1.0000	1.0000	288	288	
13	0.9073	0.9932	1.0046	296	300	
14	1.0081	0.9679	1.0211	321	338	
15	0.9869	0.9633	1.0234	312	332	
16	1.0905	0.9698	1.0221	348	366	
17	1.0958	0.9421	1.0419	339	375	
18	1.1563	0.8760	1.0935	333	416	
19	1.2475	1.0000	1.0000	410	410	
20	1.3315	0.8417	1.0974	368	480	
<u>Comprehensive</u>	99.03					
Territory:						
1	1.5753	1.0000	1.0000	159	159	
2	1.5753	1.0000	1.0000	159	159	
3	1.5753	1.0000	1.0000	159	159	
4	1.5753	1.0000	1.0000	159	159	
5	1.5753	1.0000	1.0000	159	159	
6	1.5753	1.0000	1.0000	159	159	
7	1.5753	1.0000	1.0000	159	159	
8	1.5753	1.0000	1.0000	159	159	
9	1.5753	1.0000	1.0000	159	159	
10	1.5753	1.0000	1.0000	159	159	
11	0.7459	0.9748	1.0097	74	76	
12	0.9465	0.9701	1.0115	93	97	
13	0.9880	1.0000	1.0000	100	100	
14	1.0396	1.0000	1.0000	105	105	
15	0.9831	1.0000	1.0000	99	99	
16	1.0812	0.9960	1.0016	109	110	
17	1.0395	0.9740	1.0107	102	106	
18	1.1601	0.9938	1.0026	117	118	
19	1.1168	0.9852	1.0061	111	114	
20	1.1138	0.9939	1.0023	112	113	

Collision

* (4) = (1) x (2) x (3)

Comprehensive

* (4) = [(1) x (2) x (3)] / (Anti-Theft Off Balance Factor)

OTC Anti-Theft Off Balance Factor
0.979

**Commonwealth Automobile Reinsurers
Trucks, Tractors, & Trailers Rates
Calculation of Limited Collision Percentage of Collision Rate**

(1) Statewide Average \$500 Collision Base Rate Pure Premium.	\$328.62
(2) Company Expense Pure Premium for \$500 Collision.	\$153.27
(3) Variable Expense Factor	0.8360
(4) Statewide Average \$500 Collision Base Rate $\{(1) + (2)\} / (3)$	\$576.42
(5) Statewide Average \$500 Limited Collision Base Rate Pure Premium.	\$32.86
(6) Company Expense Pure Premium for \$500 Limited Collision.	\$15.33
(7) Variable Expense Factor	0.836
(8) Statewide Average \$500 Limited Collision Base Rate $\{(5) + (6)\} / (7)$	\$57.64
(9) [(8) / (4)]	10.0%

Commonwealth Automobile Reinsurers
Trucks, Tractors, & Trailers
Rate Relativities by Age and Cost New*

COLLISION

Cost New	Symbol	Age of Vehicle				
		Code	1	2.3	4.5	6-9
\$ 0,000 - 4,500		01	0.313	0.290	0.273	0.165
4,501 - 6,000		02	0.335	0.310	0.291	0.177
6,001 - 8,000		03	0.410	0.380	0.357	0.217
8,001 - 10,000		04	0.670	0.620	0.583	0.353
10,001 - 15,000		05	1.080	1.000	0.940	0.570
15,001 - 20,000		06	1.922	1.780	1.673	1.015
20,001 - 25,000		07	2.473	2.290	2.153	1.305
25,000 - 40,000		08	2.851	2.640	2.482	1.505
40,001 - 65,000		10	3.748	3.470	3.262	1.978
65,001 - 90,000		11	4.104	3.800	3.572	2.166
90,001 & Over		12		(See Below)		

COMPREHENSIVE

Cost New	Symbol	Age of Vehicle				
		Code	1	2.3	4.5	6-9
\$ 0,000 - 4,500		01	0.340	0.340	0.340	0.248
4,501 - 6,000		02	0.420	0.420	0.420	0.307
6,001 - 8,000		03	0.420	0.420	0.420	0.307
8,001 - 10,000		04	0.670	0.670	0.670	0.489
10,001 - 15,000		05	1.000	1.000	1.000	0.730
15,001 - 20,000		06	1.540	1.540	1.540	1.124
20,001 - 25,000		07	1.680	1.680	1.680	1.226
25,000 - 40,000		08	1.910	1.910	1.910	1.394
40,001 - 65,000		10	2.290	2.290	2.290	1.672
65,001 - 90,000		11	2.520	2.520	2.520	1.840
90,001 & Over		12		(See Below)		

Factors to determine charges are based on the original cost new for vehicles with costs in excess of \$90,000.

For each \$1000 in excess of \$90,000 add the following factors to the \$65,000-\$90,000 age/symbol factor:

	<u>Collision</u>	<u>OTC</u>
Factor	0.025	0.007

For example, the collision age/symbol factor for a vehicle with a \$95,000 cost new (age class1) would be:

$$4.229 = 4.104 + (\$95,000 - \$90,000)/1000 \times 0.025$$

* Relative to Symbol 5 and Age 2,3 (Section 105).

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**Trucks, Tractors & Trailers
Miscellaneous Components of Physical Damage Rates**

DEDUCTIBLE RELATIVITIES (Section 102)

<u>Deductible</u>	<u>Coverage</u>	
	<u>Collision</u>	<u>Comprehensive</u>
300	1.040	1.030
500	1.000	1.000
1000	0.920	0.950
2000	0.790	0.890
3000	0.690	0.850
4000	0.610	0.820
5000	0.550	0.800

COMPANY EXPENSES

<u>Coverage</u>	Company Expense
	Pure Premium
Collision	153.27
Limited Collision	15.33
Comprehensive	43.75

VARIABLE EXPENSES

<u>Coverage</u>	Variable Expense
	Factor*
Collision	0.8360
Limited Collision	0.8360
Comprehensive	0.8360

* Variable Expense Factor = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

**Commonwealth Automobile Reinsurers
Trucks, Tractors, and Trailers Base Rates
Collision Waiver of Deductible Charges**

- (1) Average \$500 deductible Collision pure premium,
(Form 100, (5) x (6) x (6A)) 618.03
- (2) Waiver Charges = { [(1) x (Terr. Relativity) x (Fleet Relativity)] / Variable Expense Ratio } x
{ \$X Selected Waiver of Deductible Relativity to \$500 Deductible Losses* }
where \$X is \$300, \$500, \$1000, \$2000, \$3000, \$4000, or \$5000.

* Section 102, Exhibit 1, Page 1, Line 11.

WAIVER CHARGES FOR FLEET

Territory	Deductibles:	\$300	\$500	\$1000	\$2000	\$3000	\$4000	\$5000
1		27	38	66	107	136	155	172
2		27	38	66	107	136	155	172
3		27	38	66	107	136	155	172
4		27	38	66	107	136	155	172
5		27	38	66	107	136	155	172
6		27	38	66	107	136	155	172
7		27	38	66	107	136	155	172
8		27	38	66	107	136	155	172
9		27	38	66	107	136	155	172
10		27	38	66	107	136	155	172
11		10	14	25	41	52	59	66
12		12	16	28	45	58	66	73
13		12	17	29	47	59	68	75
14		13	18	31	50	64	74	82
15		13	18	30	49	63	72	79
16		14	20	34	55	70	80	88
17		14	19	33	53	68	78	86
18		13	19	32	52	67	76	85
19		17	23	40	65	82	94	104
20		15	21	36	58	74	85	94

WAIVER CHARGES FOR NON-FLEET

Territory	Deductibles:	\$300	\$500	\$1000	\$2000	\$3000	\$4000	\$5000
1		30	42	72	117	149	171	189
2		30	42	72	117	149	171	189
3		30	42	72	117	149	171	189
4		30	42	72	117	149	171	189
5		30	42	72	117	149	171	189
6		30	42	72	117	149	171	189
7		30	42	72	117	149	171	189
8		30	42	72	117	149	171	189
9		30	42	72	117	149	171	189
10		30	42	72	117	149	171	189
11		10	14	25	41	52	59	66
12		12	16	28	45	58	66	73
13		12	17	29	47	60	69	76
14		14	19	33	53	68	78	86
15		13	19	32	52	66	76	84
16		15	21	35	58	73	84	93
17		15	21	36	59	75	86	95
18		17	23	40	65	83	95	106
19		17	23	40	65	82	94	104
20		19	27	46	76	96	110	122

Commonwealth Automobile Reinsurers

**Trucks, Tractors, and Trailers
Other than Collision
Minimum Charge For Deductible**

<u>Deductible</u>		Statewide Average	Minimum
	Buyback *	\$500 Deductible	Buyback
	<u>Percentage</u>	<u>Collectible Premiums **</u>	<u>Charge ***</u>
\$300	0.030	221.04	5

* Equal to (\$300 deductible relativity - 1)

** Form 100 Line (16)

*** (Statewide average premium) x (Buyback percentage) x (0.75)

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Private Passenger Types
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Fleet Average Loss Pure Prem (Form 100)	(2) Non-Fleet Average Loss Pure Prem (Form 100)	(3) Territory Relativity (100K)	(4) Fleet/ Non-Fleet Differential (100K)		(5) Company Expense Pure Premium (Form 100)	(6) Fleet Variable Expense Factor* (Form 100)	(7) Non-fleet Variable Expense Factor* (Form 100)	(8) 20/40 Increased Limits Factor (Form 100)	(9) (a) Final Base Rates***	(b) Fleet Non-Fleet
	Fleet	Non-Fleet		Fleet	Non-Fleet						
A-1 & B**	371.27	348.18				82.49	0.8327	0.8327	1.00		
Territory:											
1	2.3762	1.0000	1.0000							1159	1093
2	2.3762	1.0000	1.0000							1159	1093
3	2.3762	1.0000	1.0000							1159	1093
4	2.3762	1.0000	1.0000							1159	1093
5	2.3762	1.0000	1.0000							1159	1093
6	2.3762	1.0000	1.0000							1159	1093
7	2.3762	1.0000	1.0000							1159	1093
8	2.3762	1.0000	1.0000							1159	1093
9	2.3762	1.0000	1.0000							1159	1093
10	2.3762	1.0000	1.0000							1159	1093
11	0.6399	1.0000	1.0000							384	367
12	0.7470	1.0000	1.0000							432	411
13	0.7446	1.0000	1.0000							431	410
14	0.7802	1.0000	1.0000							447	425
15	0.8283	1.0000	1.0000							468	445
16	0.8411	1.0000	1.0000							474	451
17	1.0894	1.0000	1.0000							585	555
18	1.2963	1.0000	1.0000							677	641
19	1.6832	1.0000	1.0000							850	803
20	1.9996	1.0000	1.0000							991	935
A-1**											
Territory:											
1										1008	951
2										1008	951
3										1008	951
4										1008	951
5										1008	951
6										1008	951
7										1008	951
8										1008	951
9										1008	951
10										1008	951
11										334	319
12										376	358
13										375	357
14										389	370
15										407	387
16										412	392
17										509	483
18										589	558
19										740	699
20										862	813
B. Basic**											
Territory:											
1										151	142
2										151	142
3										151	142
4										151	142
5										151	142
6										151	142
7										151	142
8										151	142
9										151	142
10										151	142
11										50	48
12										56	53
13										56	53
14										58	55
15										61	58
16										62	59
17										76	72
18										88	83
19										111	104
20										129	122

* (6) & (7) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 87.0% of Combined rates (Form 110).

*** (9A) = {[(1) x (3) x (4A) + (5)] x (8)} / (6).

B: 13.0% of Combined rates (Form 110).

*** (9B) = {[(2) x (3) x (4B) + (5)] x (8)} / (7).

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Private Passenger Types
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Fleet Average Loss Pure Prem	(2) Non-Fleet Average Loss Pure Prem	(3)	(4) Fleet/ Non-Fleet Differential (100K)	(5) Company Expense Pure Premium	(6) Fleet Variable Expense Factor*	(7) Non-fleet Variable Expense Factor*	(8) 20/40 Increased Limits Factor	(9) Final Base Rates**
	(Form 100)	(Form 100)	Territory Relativity (100K)	Fleet	(Form 100)	(Form 100)	(Form 100)	(Form 100)	Fleet
				Non-Fleet					Non-Fleet
A-2	76.84	108.40			24.40	0.8327	0.8327		
Territory:									
1		2.3762	1.0000	1.0000				249	339
2		2.3762	1.0000	1.0000				249	339
3		2.3762	1.0000	1.0000				249	339
4		2.3762	1.0000	1.0000				249	339
5		2.3762	1.0000	1.0000				249	339
6		2.3762	1.0000	1.0000				249	339
7		2.3762	1.0000	1.0000				249	339
8		2.3762	1.0000	1.0000				249	339
9		2.3762	1.0000	1.0000				249	339
10		2.3762	1.0000	1.0000				249	339
11		0.6399	1.0000	1.0000				88	113
12		0.7470	1.0000	1.0000				98	127
13		0.7446	1.0000	1.0000				98	126
14		0.7802	1.0000	1.0000				101	131
15		0.8283	1.0000	1.0000				106	137
16		0.8411	1.0000	1.0000				107	139
17		1.0894	1.0000	1.0000				130	171
18		1.2963	1.0000	1.0000				149	198
19		1.6832	1.0000	1.0000				185	248
20		1.9996	1.0000	1.0000				214	290
PDL_Basic	303.14	305.34			71.36	0.8577	0.8577		
Territory:									
1		2.3762	1.0000	1.0000				923	929
2		2.3762	1.0000	1.0000				923	929
3		2.3762	1.0000	1.0000				923	929
4		2.3762	1.0000	1.0000				923	929
5		2.3762	1.0000	1.0000				923	929
6		2.3762	1.0000	1.0000				923	929
7		2.3762	1.0000	1.0000				923	929
8		2.3762	1.0000	1.0000				923	929
9		2.3762	1.0000	1.0000				923	929
10		2.3762	1.0000	1.0000				923	929
11		0.6399	1.0000	1.0000				309	311
12		0.7470	1.0000	1.0000				347	349
13		0.7446	1.0000	1.0000				346	348
14		0.7802	1.0000	1.0000				359	361
15		0.8283	1.0000	1.0000				376	378
16		0.8411	1.0000	1.0000				380	383
17		1.0894	1.0000	1.0000				468	471
18		1.2963	1.0000	1.0000				541	545
19		1.6832	1.0000	1.0000				678	682
20		1.9996	1.0000	1.0000				790	795

* (6) & (7) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (9A) = {[(1) x (3) x (4A) + (5)] x (8)} / (6).

** (9B) = {[(2) x (3) x (4B) + (5)] x (8)} / (7).

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**Private Passenger Types
Liability Coverages for Which Rates Do Not Vary by Territory**

Coverage D

\$5,000	\$30	(From Form 110)
10,000	32	
15,000	34	
20,000	35	
25,000	37	

Coverage U

	Fleet		Non-Fleet	
	U-1 <u>Uninsured</u>	U-2 <u>Underinsured</u>	U-1 <u>Uninsured</u>	U-2 <u>Underinsured</u>
20/40	4	0	4	0
20/50	5	0	5	0
25/50	6	0	6	0
35/80	7	4	7	4
50/100	8	7	8	7
100/300	9	22	9	22
250/500	10	86	10	86
500/500	12	234	12	234

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Private Passenger Types
Physical Damage Loss Pure Premium by Territory

<u>Coverage</u>	(1) Fleet Average Loss Pure Prem (Form 100)	(2) Non-Fleet Average Loss Pure Prem (Form 100)	(3) Territory Relativity (100K)	(4) Fleet/ Non-Fleet Differential (100K)		(5) Loss Pure Premium by Territory *	
	Fleet	Non-Fleet	Fleet	Non-Fleet	Fleet	Non-Fleet	
<u>Collision</u>	802.28	840.97					
Territory:							
1		1.9213	1.0000	1.0000	1541	1616	
2		1.9213	1.0000	1.0000	1541	1616	
3		1.9213	1.0000	1.0000	1541	1616	
4		1.9213	1.0000	1.0000	1541	1616	
5		1.9213	1.0000	1.0000	1541	1616	
6		1.9213	1.0000	1.0000	1541	1616	
7		1.9213	1.0000	1.0000	1541	1616	
8		1.9213	1.0000	1.0000	1541	1616	
9		1.9213	1.0000	1.0000	1541	1616	
10		1.9213	1.0000	1.0000	1541	1616	
11		0.6170	1.0000	1.0000	495	519	
12		0.7711	1.0000	1.0000	619	648	
13		0.7567	1.0000	1.0000	607	636	
14		0.8216	1.0000	1.0000	659	691	
15		0.8511	1.0000	1.0000	683	716	
16		0.9439	1.0000	1.0000	757	794	
17		1.1113	1.0000	1.0000	892	935	
18		1.2806	1.0000	1.0000	1027	1077	
19		1.5996	1.0000	1.0000	1283	1345	
20		1.7100	1.0000	1.0000	1372	1438	
<u>Limited Collision</u>	56.16	58.87					
Territory:							
1		1.9213	1.0000	1.0000	108	113	
2		1.9213	1.0000	1.0000	108	113	
3		1.9213	1.0000	1.0000	108	113	
4		1.9213	1.0000	1.0000	108	113	
5		1.9213	1.0000	1.0000	108	113	
6		1.9213	1.0000	1.0000	108	113	
7		1.9213	1.0000	1.0000	108	113	
8		1.9213	1.0000	1.0000	108	113	
9		1.9213	1.0000	1.0000	108	113	
10		1.9213	1.0000	1.0000	108	113	
11		0.6170	1.0000	1.0000	35	36	
12		0.7711	1.0000	1.0000	43	45	
13		0.7567	1.0000	1.0000	42	45	
14		0.8216	1.0000	1.0000	46	48	
15		0.8511	1.0000	1.0000	48	50	
16		0.9439	1.0000	1.0000	53	56	
17		1.1113	1.0000	1.0000	62	65	
18		1.2806	1.0000	1.0000	72	75	
19		1.5996	1.0000	1.0000	90	94	
20		1.7100	1.0000	1.0000	96	101	
<u>Comprehensive</u>	168.63	157.22					
Territory:							
1		1.8334	1.0000	1.0000	348	324	
2		1.8334	1.0000	1.0000	348	324	
3		1.8334	1.0000	1.0000	348	324	
4		1.8334	1.0000	1.0000	348	324	
5		1.8334	1.0000	1.0000	348	324	
6		1.8334	1.0000	1.0000	348	324	
7		1.8334	1.0000	1.0000	348	324	
8		1.8334	1.0000	1.0000	348	324	
9		1.8334	1.0000	1.0000	348	324	
10		1.8334	1.0000	1.0000	348	324	
11		0.8134	1.0000	1.0000	154	144	
12		0.8374	1.0000	1.0000	159	148	
13		0.8123	1.0000	1.0000	154	144	
14		0.9830	1.0000	1.0000	186	174	
15		0.9029	1.0000	1.0000	171	160	
16		1.0240	1.0000	1.0000	194	181	
17		1.0281	1.0000	1.0000	195	182	
18		1.0811	1.0000	1.0000	205	191	
19		1.3657	1.0000	1.0000	259	242	
20		1.4260	1.0000	1.0000	270	252	

Collision/Lim. Collision

* (5A) = (1) x (3) x (4A)

* (5B) = (2) x (3) x (4B)

Comprehensive

* (5A) = [(1) x (3) x (4A)] / (Fleet Anti-Theft Off Balance Factor)

* (5B) = [(1) x (3) x (4B)] / (Non-Fleet Anti-Theft Off Balance Factor)

OTC Anti-Theft Off Balance Factors

Fleet Non-Fleet

0.889 0.889

Commonwealth Automobile Reinsurers
Private Passenger Types
Rate Relativities by Age and Cost New*

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Cost New	Symbol Code	Age:	<u>COLLISION</u>								
			1	2	3	4	5	6	7	8	9
0 - 4,500	01	0.740	0.740	0.696	0.696	0.681	0.681	0.681	0.681	0.681	0.488
4,501 - 6,000	02	0.810	0.810	0.761	0.761	0.745	0.745	0.745	0.745	0.745	0.535
6,001 - 8,000	03	0.820	0.820	0.771	0.771	0.754	0.754	0.754	0.754	0.754	0.541
8,001 - 10,000	04	0.820	0.820	0.771	0.771	0.754	0.754	0.754	0.754	0.754	0.541
10,001 - 15,000	05	1.000	1.000	0.940	0.940	0.920	0.920	0.920	0.920	0.920	0.660
15,001 - 20,000	06	1.130	1.130	1.062	1.062	1.040	1.040	1.040	1.040	1.040	0.746
20,001 - 25,000	07	1.130	1.130	1.062	1.062	1.040	1.040	1.040	1.040	1.040	0.746
25,001 - 40,000	08	1.170	1.170	1.100	1.100	1.076	1.076	1.076	1.076	1.076	0.772
40,001 - 65,000	10	1.240	1.240	1.166	1.166	1.141	1.141	1.141	1.141	1.141	0.818
65,001 - 90,000	11	1.620	1.620	1.523	1.523	1.490	1.490	1.490	1.490	1.490	1.069
90,001 and Over	12										(see below)

<u>LIMITED COLLISION</u>											
0 - 4,500	01	0.740	0.740	0.696	0.696	0.681	0.681	0.681	0.681	0.681	0.488
4,501 - 6,000	02	0.810	0.810	0.761	0.761	0.745	0.745	0.745	0.745	0.745	0.535
6,001 - 8,000	03	0.820	0.820	0.771	0.771	0.754	0.754	0.754	0.754	0.754	0.541
8,001 - 10,000	04	0.820	0.820	0.771	0.771	0.754	0.754	0.754	0.754	0.754	0.541
10,001 - 15,000	05	1.000	1.000	0.940	0.940	0.920	0.920	0.920	0.920	0.920	0.660
15,001 - 20,000	06	1.130	1.130	1.062	1.062	1.040	1.040	1.040	1.040	1.040	0.746
20,001 - 25,000	07	1.130	1.130	1.062	1.062	1.040	1.040	1.040	1.040	1.040	0.746
25,001 - 40,000	08	1.170	1.170	1.100	1.100	1.076	1.076	1.076	1.076	1.076	0.772
40,001 - 65,000	10	1.240	1.240	1.166	1.166	1.141	1.141	1.141	1.141	1.141	0.818
65,001 - 90,000	11	1.620	1.620	1.523	1.523	1.490	1.490	1.490	1.490	1.490	1.069
90,001 and Over	12										(see below)

<u>COMPREHENSIVE</u>											
0 - 4,500	01	0.907	0.840	0.840	0.832	0.781	0.689	0.689	0.689	0.689	0.588
4,501 - 6,000	02	0.918	0.850	0.850	0.842	0.791	0.697	0.697	0.697	0.697	0.595
6,001 - 8,000	03	0.918	0.850	0.850	0.842	0.791	0.697	0.697	0.697	0.697	0.595
8,001 - 10,000	04	1.069	0.990	0.990	0.980	0.921	0.812	0.812	0.812	0.812	0.693
10,001 - 15,000	05	1.080	1.000	1.000	0.990	0.930	0.820	0.820	0.820	0.820	0.700
15,001 - 20,000	06	1.253	1.160	1.160	1.148	1.079	0.951	0.951	0.951	0.951	0.812
20,001 - 25,000	07	1.307	1.210	1.210	1.198	1.125	0.992	0.992	0.992	0.992	0.847
25,001 - 40,000	08	1.393	1.290	1.290	1.277	1.200	1.058	1.058	1.058	1.058	0.903
40,001 - 65,000	10	1.728	1.600	1.600	1.584	1.488	1.312	1.312	1.312	1.312	1.120
65,001 - 90,000	11	3.024	2.800	2.800	2.772	2.604	2.296	2.296	2.296	2.296	1.960
90,001 and Over	12										(see below)

Factors to determine charges based on the original cost new for vehicles with costs in excess of \$90,000.
 For each \$1000 in excess of \$90,000 add the following factors to the \$65,000-\$90,000 factor.

Factor	Collision	OTC
	0.010	0.020

For example, the collision age/symbol factor for a vehicle with a \$95,000 cost new (age class 1) would be:

$$1.670 = 1.620 + (95,000-90,000)/1,000 \times 0.01$$

* Relative to Age 2, Symbol 5 (Section 105).

Commonwealth Automobile Reinsurers

Private Passenger Types Miscellaneous Components of Physical Damage Rates

DEDUCTIBLE RELATIVITIES (Section 102)

<u>Deductible</u>	<u>Coverage</u>	
	<u>Collision</u>	<u>Comprehensive</u>
300	1.040	1.030
500	1.000	1.000
1000	0.910	0.940
2000	0.770	0.860
3000	0.650	0.800
4000	0.570	0.750
5000	0.510	0.720

COMPANY EXPENSES

<u>Coverage</u>	Company Expense Pure Premium (Form 100)
Collision	189.90
Limited Collision	13.29
Comprehensive	40.42

VARIABLE EXPENSES

<u>Coverage</u>	Fleet Variable Expense Factor* (Form 100)	Non-Fleet Variable Expense Factor* (Form 100)
Collision	0.8360	0.8360
Limited Collision	0.8360	0.8360
Comprehensive	0.8360	0.8360

* Variable Expense Factor = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

Commonwealth Automobile Reinsurers

**Private Passenger Types
Collision Waiver of Deductible Charges**

(1A)	Fleet: Average \$500 deductible Collision pure premium, [Form 100, {(5) x (6) x (6A)}]	856.75
(1B)	Non-Fleet: Average \$500 deductible Collision pure premium, [Form 100, {(5) x (6) x (6A)}]	1028.24
(2) Waiver Charges = / Variable Expense Ratio } x { \$X Selected Waiver of Deductible Relativity to \$500 Deductible Losses* } where \$X is \$300, \$500, \$1000, \$2000, \$3000, \$4000, and \$5000.		

* Section 102, Exhibit 2, Page 1, Line 11.

WAIVER CHARGES:

Deductibles:	\$300	\$500	\$1000	\$2000	\$3,000	\$4,000	\$5,000
Fleet	19	28	51	83	106	123	136
Non-Fleet	23	33	61	100	127	148	164

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Private Passenger Types
Collision - \$300 Deductible Buyback Charge

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(1A)	Fleet: Average \$500 deductible Collision pure premium, [Form 100, {(5) x (6) x (6A)}]	856.75
(1B)	Non-Fleet: Average \$500 deductible Collision pure premium, [Form 100, {(5) x (6) x (6A)}]	1028.24
(2)	\$300 Deductible Buyback Charge = {[(1) x territorial relativity] / variable expense ratio} x { \$300 selected deductible relativity to \$500 deductible losses (without waiver) - \$500 selected deductible relativity to \$500 deductible losses* (without waiver)}	

* Section 102, Exhibit 2, Page 1, Line 7A.

\$300 Deductible Buyback Charges

Territory	Fleet	Non-Fleet
-----------	-------	-----------

1	93	111
2	93	111
3	93	111
4	93	111
5	93	111
6	93	111
7	93	111
8	93	111
9	93	111
10	93	111
11	30	36
12	37	45
13	36	44
14	40	47
15	41	49
16	45	55
17	54	64
18	62	74
19	77	92
20	82	99

Commonwealth Automobile Reinsurers2019 CAR
Schedule 107-2
Page 9**Private Passenger Types**
Limited Collision - \$300 Deductible Buyback Charge

(1A)	Fleet: Average \$500 deductible Limited Collision pure premium, [7% of Collision Rate]	59.97
(1B)	Non-Fleet: Average \$500 deductible Limited Collision pure premium, [7% of Collision Rate]	71.98
(2)	\$300 Deductible Buyback Charge = {[(1) x territorial relativity] / variable expense ratio} x { \$300 selected deductible relativity to \$500 deductible losses (without waiver) - \$500 selected deductible relativity to \$500 deductible losses* (without waiver)}	

* Section 102, Exhibit 2, Page 1, Line 7A.

\$300 Deductible Buyback Charges

Territory	Fleet	Non Fleet
-----------	-------	-----------

1	6	8
2	6	8
3	6	8
4	6	8
5	6	8
6	6	8
7	6	8
8	6	8
9	6	8
10	6	8
11	2	2
12	3	3
13	3	3
14	3	3
15	3	3
16	3	4
17	4	4
18	4	5
19	5	6
20	6	7

Commonwealth Automobile Reinsurers
Private Passenger Types
Comprehensive - \$300 Deductible Buyback Charge

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(1A)	Fleet: Average \$500 deductible Comprehensive pure premium, [Form 100, {(5) x (6) x (6A)}]	202.30
(1B)	Non-Fleet: Average \$500 deductible Comprehensive pure premium, [Form 100, {(5) x (6) x (6A)}]	204.43
(2)	\$300 Deductible Buyback Charge = $\{[(1) \times \text{territorial relativity}] / \text{variable expense ratio}\} \times \{\$300 \text{ selected deductible relativity to } \$500 \text{ deductible losses (without waiver)} - \$500 \text{ selected deductible relativity to } \$500 \text{ deductible losses* (without waiver)}\}$	

* Calculated from Section 102, Exhibit 4, Page 1.

\$300 Deductible Buyback Charges
Territory Fleet Non Fleet

1	18	18
2	18	18
3	18	18
4	18	18
5	18	18
6	18	18
7	18	18
8	18	18
9	18	18
10	18	18
11	8	8
12	8	8
13	8	8
14	10	10
15	9	9
16	10	10
17	10	10
18	10	11
19	13	13
20	14	14

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Taxicabs
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Owner Offset	(6) Final Base Rates***
A-1 & B**	1917.92		473.51	0.8374	1.0267	
Territory:						
1	0.9035					2705
2	0.9035					2705
3	0.9035					2705
4	0.9035					2705
5	0.9035					2705
6	0.9035					2705
7	0.9035					2705
8	0.9035					2705
9	0.9035					2705
10	0.9035					2705
11	0.5746					1932
12	0.6014					1995
13	0.7330					2304
14	0.8616					2607
15	0.6404					2086
16	0.9938					2917
17	0.6437					2094
18	1.1257					3228
19	1.1514					3288
20	1.2869					3607
A-1**						
Territory:						
1					2552	
2					2552	
3					2552	
4					2552	
5					2552	
6					2552	
7					2552	
8					2552	
9					2552	
10					2552	
11					1823	
12					1882	
13					2174	
14					2459	
15					1968	
16					2752	
17					1976	
18					3045	
19					3102	
20					3403	
B, Basic**						
Territory:						
1					153	
2					153	
3					153	
4					153	
5					153	
6					153	
7					153	
8					153	
9					153	
10					153	
11					109	
12					113	
13					130	
14					148	
15					118	
16					165	
17					118	
18					183	
19					186	
20					204	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 94.3% of Combined rates.

B: 5.7% of Combined rates.

*** (6) = {[[(1) + (2)] / (4)]} * (5).

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Taxicabs
Liability Coverages for Which Rates Vary by Territory

<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Owner Offset	(6) Final Base Rates**
A-2	730.53		185.65	0.8374	1.0267	
Territory:						
1	0.9035					1037
2	0.9035					1037
3	0.9035					1037
4	0.9035					1037
5	0.9035					1037
6	0.9035					1037
7	0.9035					1037
8	0.9035					1037
9	0.9035					1037
10	0.9035					1037
11	0.5746					742
12	0.6014					766
13	0.7330					884
14	0.8616					999
15	0.6404					801
16	0.9938					1118
17	0.6437					804
18	1.1257					1236
19	1.1514					1259
20	1.2869					1380
PDL, Basic	1264.11		277.30	0.8624	1.0267	
Territory:						
1	0.9035					1690
2	0.9035					1690
3	0.9035					1690
4	0.9035					1690
5	0.9035					1690
6	0.9035					1690
7	0.9035					1690
8	0.9035					1690
9	0.9035					1690
10	0.9035					1690
11	0.5746					1195
12	0.6014					1235
13	0.7330					1433
14	0.8616					1627
15	0.6404					1294
16	0.9938					1826
17	0.6437					1299
18	1.1257					2024
19	1.1514					2063
20	1.2869					2267

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (6) = {[(1) x (2) + (3)] / (4)} * (5).

Commonwealth Automobile Reinsurers

Taxicabs
Liability Coverages for Which Rates Do Not Vary by Territory

	<u>Coverage U</u>	
	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	46	0
20/50	47	0
25/50	50	0
35/80	57	4
50/100	63	7
100/300	77	22
250/500	91	86

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Limousines
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates***
A-1 & B**	841.63		172.50	0.8854	
Territory:					
1		1.4037			1529
2		1.4037			1529
3		1.4037			1529
4		1.4037			1529
5		1.4037			1529
6		1.4037			1529
7		1.4037			1529
8		1.4037			1529
9		1.4037			1529
10		1.4037			1529
11		0.4558			628
12		0.5682			735
13		0.6610			823
14		0.5011			671
15		0.6610			823
16		0.7769			933
17		0.9706			1117
18		1.3329			1462
19		1.1141			1254
20		1.2114			1346
A-1**					
Territory:					
1					1442
2					1442
3					1442
4					1442
5					1442
6					1442
7					1442
8					1442
9					1442
10					1442
11					592
12					693
13					776
14					633
15					776
16					880
17					1054
18					1379
19					1183
20					1270
B. Basic**					
Territory:					
1					87
2					87
3					87
4					87
5					87
6					87
7					87
8					87
9					87
10					87
11					36
12					42
13					47
14					38
15					47
16					53
17					63
18					83
19					71
20					76

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 94.3% of Combined rates.

B: 5.7% of Combined rates.

*** (5) = {[(1) x (2) + (3)] / (4)}.

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Limousines
Liability Coverages for Which Rates Vary by Territory

<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates**
A-2	252.29		49.99	0.8854	
Territory:					
1		1.4037			456
2		1.4037			456
3		1.4037			456
4		1.4037			456
5		1.4037			456
6		1.4037			456
7		1.4037			456
8		1.4037			456
9		1.4037			456
10		1.4037			456
11		0.4558			186
12		0.5682			218
13		0.6610			245
14		0.5011			199
15		0.6610			245
16		0.7769			278
17		0.9706			333
18		1.3329			436
19		1.1141			374
20		1.2114			402
PDL, Basic	659.61		142.17	0.9104	
Territory:					
1		1.4037			1173
2		1.4037			1173
3		1.4037			1173
4		1.4037			1173
5		1.4037			1173
6		1.4037			1173
7		1.4037			1173
8		1.4037			1173
9		1.4037			1173
10		1.4037			1173
11		0.4558			486
12		0.5682			568
13		0.6610			635
14		0.5011			519
15		0.6610			635
16		0.7769			719
17		0.9706			859
18		1.3329			1122
19		1.1141			963
20		1.2114			1034

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (5) = {[(1) x (2) + (3)] / (4)}.

Commonwealth Automobile Reinsurers

Limousines
Liability Coverages for Which Rates Do Not Vary by Territory

	Coverage U	
	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

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Car Service
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates***
<u>A-1 & B**</u>	<u>1285.74</u>	<u>212.95</u>	<u>0.8936</u>		
<u>Territory:</u>					
1	1.4037				2258
2	1.4037				2258
3	1.4037				2258
4	1.4037				2258
5	1.4037				2258
6	1.4037				2258
7	1.4037				2258
8	1.4037				2258
9	1.4037				2258
10	1.4037				2258
11	0.4558				894
12	0.5682				1056
13	0.6610				1189
14	0.5011				959
15	0.6610				1189
16	0.7769				1356
17	0.9706				1635
18	1.3329				2156
19	1.1141				1841
20	1.2114				1981
<u>A-1**</u>					
<u>Territory:</u>					
1				2130	
2				2130	
3				2130	
4				2130	
5				2130	
6				2130	
7				2130	
8				2130	
9				2130	
10				2130	
11				843	
12				996	
13				1122	
14				905	
15				1122	
16				1279	
17				1542	
18				2034	
19				1737	
20				1869	
<u>B. Basic**</u>					
<u>Territory:</u>					
1				128	
2				128	
3				128	
4				128	
5				128	
6				128	
7				128	
8				128	
9				128	
10				128	
11				51	
12				60	
13				67	
14				54	
15				67	
16				77	
17				93	
18				122	
19				104	
20				112	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 94.3% of Combined rate of Combined rates.

B: 5.7% of Combined rate of Combined rates.

*** (5) = {[(1) x (2) + (3)] / (4)}.

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Car Service
Liability Coverages for Which Rates Vary by Territory

<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates**
<u>A-2</u>	401.23		72.01	0.8936	
Territory:					
1		1.4037			711
2		1.4037			711
3		1.4037			711
4		1.4037			711
5		1.4037			711
6		1.4037			711
7		1.4037			711
8		1.4037			711
9		1.4037			711
10		1.4037			711
11		0.4558			285
12		0.5682			336
13		0.6610			377
14		0.5011			306
15		0.6610			377
16		0.7769			429
17		0.9706			516
18		1.3329			679
19		1.1141			581
20		1.2114			625
<u>PDL, Basic</u>	735.34		136.68	0.9186	
Territory:					
1		1.4037			1272
2		1.4037			1272
3		1.4037			1272
4		1.4037			1272
5		1.4037			1272
6		1.4037			1272
7		1.4037			1272
8		1.4037			1272
9		1.4037			1272
10		1.4037			1272
11		0.4558			514
12		0.5682			604
13		0.6610			678
14		0.5011			550
15		0.6610			678
16		0.7769			771
17		0.9706			926
18		1.3329			1216
19		1.1141			1041
20		1.2114			1119

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (5) = {[(1) x (2) + (3)] / (4)}.

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Car Service
Liability Coverages for Which Rates Do Not Vary by Territory

	Coverage U	
	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

Commonwealth Automobile Reinsurers

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School and Church Buses
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium <u>A-1 & B**</u>	(2) Territory Relativity <u>(Form 100)</u>	(3) Company Expense Pure Premium <u>(Form 100)</u>	(4) Variable Expense Factor* <u>(Form 100)</u>	(5) Final Base <u>Rates***</u>
	<u>370.92</u>	<u>(100K)</u>	<u>89.79</u>	<u>0.8327</u>	
Territory:					
1	2.3619				1160
2	2.3619				1160
3	2.3619				1160
4	2.3619				1160
5	2.3619				1160
6	2.3619				1160
7	2.3619				1160
8	2.3619				1160
9	2.3619				1160
10	2.3619				1160
11	0.8969				507
12	0.5586				357
13	0.9609				536
14	0.8877				503
15	0.7237				430
16	0.9579				535
17	1.3014				688
18	1.1291				611
19	1.2249				653
20	1.3035				688
<u>A-1**</u>					
Territory:					
1				1032	
2				1032	
3				1032	
4				1032	
5				1032	
6				1032	
7				1032	
8				1032	
9				1032	
10				1032	
11				451	
12				318	
13				477	
14				448	
15				383	
16				476	
17				612	
18				544	
19				581	
20				612	
<u>B**</u>					
Territory:					
1				128	
2				128	
3				128	
4				128	
5				128	
6				128	
7				128	
8				128	
9				128	
10				128	
11				56	
12				39	
13				59	
14				55	
15				47	
16				59	
17				76	
18				67	
19				72	
20				76	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated using TTT data in Section 100A of CAR filing):

 A-1: 89.0% of Combined rates.
 B: 11.0% of Combined rates.

*** (5) = [(1) x (2) + (3)] / (4).

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School and Church Buses
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium Coverage	(2) Territory Relativity	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates**
A-2	65.77		5.81	0.8327	
Territory:					
1	2.3619				194
2	2.3619				194
3	2.3619				194
4	2.3619				194
5	2.3619				194
6	2.3619				194
7	2.3619				194
8	2.3619				194
9	2.3619				194
10	2.3619				194
11	0.8969				78
12	0.5586				51
13	0.9609				83
14	0.8877				77
15	0.7237				64
16	0.9579				83
17	1.3014				110
18	1.1291				96
19	1.2249				104
20	1.3035				110
PDL	265.26		97.06	0.8577	
Territory:					
1	2.3619				844
2	2.3619				844
3	2.3619				844
4	2.3619				844
5	2.3619				844
6	2.3619				844
7	2.3619				844
8	2.3619				844
9	2.3619				844
10	2.3619				844
11	0.8969				391
12	0.5586				286
13	0.9609				410
14	0.8877				388
15	0.7237				337
16	0.9579				409
17	1.3014				516
18	1.1291				462
19	1.2249				492
20	1.3035				516

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (5) = {[(1) x (2) + (3)] / (4)}.

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**Social Service and N.O.C
Liability Coverages for Which Rates Vary by Territory**

<u>Coverage</u>	(1) Average Loss Pure Premium <u>(Form 100)</u>	(2) Territory Relativity <u>(100K)</u>	(3) Company Expense Pure Premium <u>(Form 100)</u>	(4) Variable Expense Factor* <u>(Form 100)</u>	(5) Final Base Rates***
<u>A-1 & B**</u>	<u>1146.38</u>		<u>89.79</u>	<u>0.8327</u>	
<u>Territory:</u>					
1	2.3619				3359
2	2.3619				3359
3	2.3619				3359
4	2.3619				3359
5	2.3619				3359
6	2.3619				3359
7	2.3619				3359
8	2.3619				3359
9	2.3619				3359
10	2.3619				3359
11	0.8969				1343
12	0.5586				877
13	0.9609				1431
14	0.8877				1330
15	0.7237				1104
16	0.9579				1427
17	1.3014				1899
18	1.1291				1662
19	1.2249				1794
20	1.3035				1902
<u>A-1**</u>					
<u>Territory:</u>					
1					2990
2					2990
3					2990
4					2990
5					2990
6					2990
7					2990
8					2990
9					2990
10					2990
11					1195
12					781
13					1274
14					1184
15					983
16					1270
17					1690
18					1479
19					1597
20					1693
<u>B**</u>					
<u>Territory:</u>					
1					369
2					369
3					369
4					369
5					369
6					369
7					369
8					369
9					369
10					369
11					148
12					96
13					157
14					146
15					121
16					157
17					209
18					183
19					197
20					209

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated using TTT data in Section 100A of CAR filing):

A-1: 89.0% of Combined rates.

B: 11.0% of Combined rates.

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*** (5) = {[(1) x (2) + (3)] / (4)}.

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**Social Service and N.O.C
Liability Coverages for Which Rates Vary by Territory**

Coverage	(1) Average Loss Pure Premium <u>A2</u>	(2) Territory Relativity <u>(Form 100)</u>	(3) Company Expense Pure Premium <u>5.81</u>	(4) Variable Expense Factor* <u>(Form 100)</u>	(5) Final Base Rates**
Territory:					
1	2.3619				995
2	2.3619				995
3	2.3619				995
4	2.3619				995
5	2.3619				995
6	2.3619				995
7	2.3619				995
8	2.3619				995
9	2.3619				995
10	2.3619				995
11	0.8969				382
12	0.5586				241
13	0.9609				409
14	0.8877				378
15	0.7237				310
16	0.9579				408
17	1.3014				551
18	1.1291				479
19	1.2249				519
20	1.3035				552
PDL	601.91		97.06	0.8577	
Territory:					
1	2.3619				1771
2	2.3619				1771
3	2.3619				1771
4	2.3619				1771
5	2.3619				1771
6	2.3619				1771
7	2.3619				1771
8	2.3619				1771
9	2.3619				1771
10	2.3619				1771
11	0.8969				743
12	0.5586				505
13	0.9609				787
14	0.8877				736
15	0.7237				621
16	0.9579				785
17	1.3014				1026
18	1.1291				906
19	1.2249				973
20	1.3035				1028

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (5) = {[(1) x (2) + (3)] / (4)}.

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Other Buses
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates***
A-1 & B**	582.09		89.79	0.8327	
Territory:					
1		2.3619			1759
2		2.3619			1759
3		2.3619			1759
4		2.3619			1759
5		2.3619			1759
6		2.3619			1759
7		2.3619			1759
8		2.3619			1759
9		2.3619			1759
10		2.3619			1759
11		0.8969			735
12		0.5586			498
13		0.9609			780
14		0.8877			728
15		0.7237			614
16		0.9579			777
17		1.3014			1018
18		1.1291			897
19		1.2249			964
20		1.3035			1019
A-1**					
Territory:					
1					1566
2					1566
3					1566
4					1566
5					1566
6					1566
7					1566
8					1566
9					1566
10					1566
11					654
12					443
13					694
14					648
15					546
16					692
17					906
18					798
19					858
20					907
B**					
Territory:					
1					193
2					193
3					193
4					193
5					193
6					193
7					193
8					193
9					193
10					193
11					81
12					55
13					86
14					80
15					68
16					85
17					112
18					99
19					106
20					112

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated using TTT data in Section 100A of CAR filing)

A-1: 89.0% of Combined rates.

B: 11.0% of Combined rates.

*** (5) = {[(1) x (2) + (3)] / (4)}.

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Commonwealth Automobile Reinsurers

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Other Buses
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium <u>A2</u>	(2) Territory Relativity <u>(Form 100)</u>	(3) Company Expense Pure Premium <u>5.81</u>	(4) Variable Expense Factor* <u>(Form 100)</u>	(5) Final Base Rates**
Territory:					
1	2.3619				579
2	2.3619				579
3	2.3619				579
4	2.3619				579
5	2.3619				579
6	2.3619				579
7	2.3619				579
8	2.3619				579
9	2.3619				579
10	2.3619				579
11	0.8969				224
12	0.5586				142
13	0.9609				240
14	0.8877				222
15	0.7237				182
16	0.9579				239
17	1.3014				322
18	1.1291				281
19	1.2249				304
20	1.3035				323
PDL	348.13		97.06	0.8577	
Territory:					
1	2.3619				1072
2	2.3619				1072
3	2.3619				1072
4	2.3619				1072
5	2.3619				1072
6	2.3619				1072
7	2.3619				1072
8	2.3619				1072
9	2.3619				1072
10	2.3619				1072
11	0.8969				477
12	0.5586				340
13	0.9609				503
14	0.8877				473
15	0.7237				407
16	0.9579				502
17	1.3014				641
18	1.1291				571
19	1.2249				610
20	1.3035				642

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** (5) = {[(1) x (2) + (3)] / (4)}.

Commonwealth Automobile Reinsurers

Public Buses
Liability Coverages for Which Rates do not Vary by Territory

Medical Payments (Coverage D)

\$5,000 \$ 30

Coverage U

	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

Van Pools**Liability Coverages for Which Rates Vary by Territory**

<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates**
A-1 & B**	648.26		89.79	0.8327	
Territory:					
1		2,3619			1947
2		2,3619			1947
3		2,3619			1947
4		2,3619			1947
5		2,3619			1947
6		2,3619			1947
7		2,3619			1947
8		2,3619			1947
9		2,3619			1947
10		2,3619			1947
11		0.8969			806
12		0.5586			543
13		0.9609			856
14		0.8877			799
15		0.7237			671
16		0.9579			854
17		1.3014			1121
18		1.1291			987
19		1.2249			1061
20		1.3035			1123
A-1**					
Territory:					
1				1733	
2				1733	
3				1733	
4				1733	
5				1733	
6				1733	
7				1733	
8				1733	
9				1733	
10				1733	
11				717	
12				483	
13				762	
14				711	
15				597	
16				760	
17				998	
18				878	
19				944	
20				999	
B. Basic**					
Territory:					
1				214	
2				214	
3				214	
4				214	
5				214	
6				214	
7				214	
8				214	
9				214	
10				214	
11				89	
12				60	
13				94	
14				88	
15				74	
16				94	
17				123	
18				109	
19				117	
20				124	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated using TTT data in Section 100A of CAR filing):

A-1: 89.0% of Combined rates.

B: 11.0% of Combined rates.

***(5) = {[1 x (2) + (3)] / (4)}.

Commonwealth Automobile Reinsurers

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Van Pools
Liability Coverages for Which Rates Vary by Territory

<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) Final Base Rates**
<u>A-2</u>	147.04		5.81	0.8327	
Territory:					
1	2.3619				424
2	2.3619				424
3	2.3619				424
4	2.3619				424
5	2.3619				424
6	2.3619				424
7	2.3619				424
8	2.3619				424
9	2.3619				424
10	2.3619				424
11	0.8969				165
12	0.5586				106
13	0.9609				177
14	0.8877				164
15	0.7237				135
16	0.9579				176
17	1.3014				237
18	1.1291				206
19	1.2249				223
20	1.3035				237
<u>PDL, Basic</u>	330.38		97.06	0.8577	
Territory:					
1	2.3619				1023
2	2.3619				1023
3	2.3619				1023
4	2.3619				1023
5	2.3619				1023
6	2.3619				1023
7	2.3619				1023
8	2.3619				1023
9	2.3619				1023
10	2.3619				1023
11	0.8969				459
12	0.5586				328
13	0.9609				483
14	0.8877				455
15	0.7237				392
16	0.9579				482
17	1.3014				614
18	1.1291				548
19	1.2249				585
20	1.3035				615

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

**(5) = {[(1) x (2) + (3)] / (4)}.

Commonwealth Automobile Reinsurers

Van Pools
Liability Coverages for Which Rates Do Not Vary by Territory

Coverage D

\$ 5,000	30
\$ 10,000	32

Coverage U

	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

Commonwealth Automobile Reinsurers
Van Pools
Physical Damage Loss Pure Premium by Territory

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<u>Coverage</u>	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Loss Pure Premium by Territory *
Collision	229.89		
Territory:			
1	1.7573	404	
2	1.7573	404	
3	1.7573	404	
4	1.7573	404	
5	1.7573	404	
6	1.7573	404	
7	1.7573	404	
8	1.7573	404	
9	1.7573	404	
10	1.7573	404	
11	0.8762	201	
12	0.8642	199	
13	0.9548	219	
14	1.0245	236	
15	1.0508	242	
16	0.9878	227	
17	1.1492	264	
18	1.0228	235	
19	1.0177	234	
20	1.0079	232	
Comprehensive	72.80		
Territory:			
1	1.5448	113	
2	1.5448	113	
3	1.5448	113	
4	1.5448	113	
5	1.5448	113	
6	1.5448	113	
7	1.5448	113	
8	1.5448	113	
9	1.5448	113	
10	1.5448	113	
11	0.8854	65	
12	1.0159	74	
13	1.0005	73	
14	1.086	79	
15	0.9963	73	
16	0.997	73	
17	1.0275	75	
18	1.07	78	
19	0.9262	67	
20	0.9392	68	

Collision

$$* \quad (3) = (1) \times (2)$$

Comprehensive

$$* \quad (3) = [(1) \times (2)] / (\text{Anti-Theft Off Balance Factor})$$

OTC Anti-Theft Off Balance Factor

0.999

Commonwealth Automobile Reinsurers
Van Pools
Rate Relativities by Age and Cost New*

COLLISION

Cost New	Symbol Code	Age of Vehicle			
		1	2.3	4.5	6-9
\$ 0,000 - 4,500	01	0.313	0.290	0.273	0.165
4,501 - 6,000	02	0.335	0.310	0.291	0.177
6,001 - 8,000	03	0.410	0.380	0.357	0.217
8,001 - 10,000	04	0.670	0.620	0.583	0.353
10,001 - 15,000	05	1.080	1.000	0.940	0.570
15,001 - 20,000	06	1.922	1.780	1.673	1.015
20,001 - 25,000	07	2.473	2.290	2.153	1.305
25,000 - 40,000	08	2.851	2.640	2.482	1.505
40,001 - 65,000	10	3.748	3.470	3.262	1.978
65,001 - 90,000	11	4.104	3.800	3.572	2.166
90,001 & Over	12	(See Below)			

COMPREHENSIVE

Cost New	Symbol Code	Age of Vehicle			
		1	2.3	4.5	6-9
\$ 0,000 - 4,500	01	0.340	0.340	0.340	0.248
4,501 - 6,000	02	0.420	0.420	0.420	0.307
6,001 - 8,000	03	0.420	0.420	0.420	0.307
8,001 - 10,000	04	0.670	0.670	0.670	0.489
10,001 - 15,000	05	1.000	1.000	1.000	0.730
15,001 - 20,000	06	1.540	1.540	1.540	1.124
20,001 - 25,000	07	1.680	1.680	1.680	1.226
25,000 - 40,000	08	1.910	1.910	1.910	1.394
40,001 - 65,000	10	2.290	2.290	2.290	1.672
65,001 - 90,000	11	2.520	2.520	2.520	1.840
90,001 & Over	12	(See Below)			

Factors to determine charges are based on the original cost new for vehicles with costs in excess of \$90,000.
For each \$1000 in excess of \$90,000 add the following factors to the \$65,000-\$90,000 age/symbol factor:

	<u>Collision</u>	<u>OTC</u>
Factor	0.025	0.007

For example, the collision age/symbol factor for a vehicle with a \$95,000 cost new (age class 1) would be:

$$4.229 = 4.104 + (\$95,000 - \$90,000)/1000 \times 0.025$$

* Relative to Symbol 5 and Age 2,3 (Use TTT relativities)

**Commonwealth Automobile Reinsurers
Van Pools
Collision Waiver of Deductible Charges**

(1) Average \$500 deductible Collision pure premium,
(Form 100, (5) x (6) x (6A)) 472.71

(2) Waiver Charges = { [(1) x (Terr. Relativity)] / Variable Expense Ratio } x
{ \$X Selected Waiver of Deductible Relativity to \$500 Deductible Losses* }
where \$X is \$300, \$500, \$1000, \$2000, \$3000, \$4000, or \$5000.

* Section 102, Exhibit 1, Page 1, Line 11.

WAIVER CHARGES

Territory	Deductibles:						
	\$300	\$500	\$1000	\$2000	\$3000	\$4000	\$5000
1	18	25	43	70	88	101	112
2	18	25	43	70	88	101	112
3	18	25	43	70	88	101	112
4	18	25	43	70	88	101	112
5	18	25	43	70	88	101	112
6	18	25	43	70	88	101	112
7	18	25	43	70	88	101	112
8	18	25	43	70	88	101	112
9	18	25	43	70	88	101	112
10	18	25	43	70	88	101	112
11	9	12	21	35	44	51	56
12	9	12	21	34	43	50	55
13	10	13	23	38	48	55	61
14	10	14	25	41	52	59	65
15	11	15	26	42	53	61	67
16	10	14	24	39	50	57	63
17	12	16	28	45	58	66	73
18	10	14	25	40	51	59	65
19	10	14	25	40	51	59	65
20	10	14	25	40	51	58	64

Commonwealth Automobile Reinsurers

Van Pools
Miscellaneous Components of Physical Damage Rates

DEDUCTIBLE RELATIVITIES (Section 102)

(Same as Trucks)

<u>Deductible</u>	<u>Coverage</u>	
	<u>Collision</u>	<u>Comprehensive</u>
300	1.040	1.030
500	1.000	1.000
1000	0.920	0.950
2000	0.790	0.890
3000	0.690	0.850
4000	0.610	0.820
5000	0.550	0.800

COMPANY EXPENSES

<u>Coverage</u>	Company Expense Pure Premium (Form 100)
Collision	153.27
Comprehensive	43.75

VARIABLE EXPENSES

<u>Coverage</u>	Variable Expense Factor* (Form 100)
Collision	0.8360
Comprehensive	0.8360

* Variable Expense Factor = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

Commonwealth Automobile Reinsurers

**Van Pools
Other than Collision
Minimum Charge For Deductible**

<u>Deductible</u>	Statewide Average Buyback * \$500 Deductible <u>Percentage</u> <u>Collectible Premiums</u> **	Minimum Buyback <u>Charge</u> ***
\$300	0.030 190.68	4

* Equal to (\$300 deductible relativity - 1)

** Form 100 Line (18)

*** (Statewide average premium) x (Buyback percentage) x (0.75)

Garages
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) 20/40 Increased Limits Factor (Form 100)	(6) Final Base Rates***
A-1 & B**	360.46		82.49	0.8327	1.00	
Territory:						
1		3.0331				1412
2		3.0331				1412
3		3.0331				1412
4		3.0331				1412
5		3.0331				1412
6		3.0331				1412
7		3.0331				1412
8		3.0331				1412
9		3.0331				1412
10		3.0331				1412
11		0.6423				377
12		0.7736				434
13		0.6398				376
14		1.1212				584
15		0.7800				437
16		1.0529				555
17		1.2158				625
18		1.1951				616
19		1.7251				846
20		1.2039				620
A-1**						
Territory:						
1					1254	
2					1254	
3					1254	
4					1254	
5					1254	
6					1254	
7					1254	
8					1254	
9					1254	
10					1254	
11					335	
12					385	
13					334	
14					519	
15					388	
16					493	
17					555	
18					547	
19					751	
20					551	
B. Basic**						
Territory:						
1					158	
2					158	
3					158	
4					158	
5					158	
6					158	
7					158	
8					158	
9					158	
10					158	
11					42	
12					49	
13					42	
14					65	
15					49	
16					62	
17					70	
18					69	
19					95	
20					69	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage).

** Combined A-1 & B rates are allocated in following manner (calculated from Section 100A of CAR filing):

A-1: 88.8% of Combined rates (Form 110).

B: 11.2% of Combined rates (Form 110).

*** (6) = {[(1) x (2) + (3)] x (5) / (4)}

Commonwealth Automobile Reinsurers

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Garages
Liability Coverages for Which Rates Vary by Territory

Coverage	(1) Average Loss Pure Premium (Form 100)	(2) Territory Relativity (100K)	(3) Company Expense Pure Premium (Form 100)	(4) Variable Expense Factor* (Form 100)	(5) 20/40 Increased Limits Factor (Form 100)	(6) Final Base Rates**
A-2	38.16		24.40	0.8327		
Territory:						
1	3.0331				168	
2	3.0331				168	
3	3.0331				168	
4	3.0331				168	
5	3.0331				168	
6	3.0331				168	
7	3.0331				168	
8	3.0331				168	
9	3.0331				168	
10	3.0331				168	
11	0.6423				59	
12	0.7736				65	
13	0.6398				59	
14	1.1212				81	
15	0.7800				65	
16	1.0529				78	
17	1.2158				85	
18	1.1951				84	
19	1.7251				108	
20	1.2039				84	
PDL, Basic	350.10		71.36	0.8577		
Territory:						
1	3.0331				1321	
2	3.0331				1321	
3	3.0331				1321	
4	3.0331				1321	
5	3.0331				1321	
6	3.0331				1321	
7	3.0331				1321	
8	3.0331				1321	
9	3.0331				1321	
10	3.0331				1321	
11	0.6423				345	
12	0.7736				399	
13	0.6398				344	
14	1.1212				541	
15	0.7800				402	
16	1.0529				513	
17	1.2158				579	
18	1.1951				571	
19	1.7251				787	
20	1.2039				575	

* (4) = 1 - (Premium Tax Allowance) - (Profit Load) - (Commission Expense Percentage)

** (6) = {[(1) x (2) + (3)] / (4)}.

Commonwealth Automobile Reinsurers

Garages
Liability Coverages for Which Rates do not Vary by Territory

	<u>Coverage U</u>	
	<u>U-1</u> <u>Uninsured</u>	<u>U-2</u> <u>Underinsured</u>
20/40	4	0
20/50	5	0
25/50	6	0
35/80	7	4
50/100	8	7
100/300	9	22
250/500	10	86
500/500	12	234

**Massachusetts Commercial Automobile
Commonwealth Automobile Reinsurers
Commercial Motorcycle Rates**

2019 CAR
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<u>Coverage</u>	Vehicle Engine Size Group			
	0cc-100cc	101cc-350cc	351cc-650cc	651cc +
A	B	C	D	
A-1	\$32.00	\$26.00	\$41.00	\$38.00
A-2	\$3.00	\$3.00	\$5.00	\$5.00
B (excluding guest)	\$11.00	\$9.00	\$14.00	\$12.00
B (including guest)	\$38.00	\$30.00	\$48.00	\$45.00
PDL	\$36.00	\$29.00	\$45.00	\$42.00

Collision (\$500 Deductible) \$4.77 per \$100 of value
 Comprehensive (\$500 Deductible) \$2.46 per \$100 or value
 Limited Collision (\$500 Deductible) 6.0% of the \$500 deductible Collision rate

Determine motorcycle Collision and Comprehensive rates by following procedure:

- Determine the motorcycle's Original Cost New in hundreds of dollars,
- Multiply the value determined in (a) by the rate per \$100,
- Multiply the value determined in (b) by the Age Rate Factor.

Motorcycle Age Rate Factors			
<u>Age Group</u>	<u>Based on Model Year</u>	<u>Motorcycle Age</u>	<u>Collision</u>
1	Current MY	1.00	1.00
2	1st Preceding	0.93	0.91
3	2nd Preceding	0.86	0.81
4	3rd Preceding	0.79	0.72
5	4th Preceding	0.72	0.62
6	5th Preceding	0.65	0.53
7	6th Preceding	0.58	0.44
8	All Other	0.51	0.34

The current model year changes October 1, regardless of the actual date the models are introduced.

Deductibles				
<u>Waiver of Deductible Charges</u>	<u>\$300</u>	<u>\$500</u>	<u>\$1,000</u>	<u>\$2,000</u>
Collision, Lim. Collision	\$9.00	\$12.00	\$17.00	\$24.00

Deductible Charges

Collision	\$38.00	base	0.713	0.571	< Add the \$300 deductible charges to the \$500 base premium.
Limited Collision	\$8.00	base	0.619	0.412	< Apply the \$1000/\$2000 factors to the \$500 deductible base premium.
Comprehensive	\$2.00	base	0.608	0.555	
Fire only:	Charge 5% of the Commercial Motorcycle Comprehensive premium				
Fire & Theft only:	Charge 95% of the Commercial Motorcycle Comprehensive premium				

<u>Limit Per Person</u>	<u>Med Pay</u>
	<u>Rate</u>
\$500	\$132
\$750	\$140
\$1,000	\$147
\$2,000	\$176
\$5,000	\$245
\$10,000	\$333
\$15,000	\$383
\$20,000	\$422
\$25,000	\$455
\$50,000	\$581

<u>Limit</u>	<u>U-1 Rate</u>	<u>U-2 Rate</u>
20/40	\$35	\$0
20/50	\$35	\$2
25/50	\$41	\$8
35/80	\$44	\$24
50/100	\$50	\$47
100/300	\$56	\$125
250/500	\$60	\$452
500/500	\$75	\$819
500/1000	\$90	\$1,188

<u>Transportation</u>	<u>Rate</u>
\$15/day - \$450 max	68
\$30/day - \$900 max	135
\$45/day - \$1,350 max	251
\$100/day - \$3,000 max	519

<u>Towing & Labor</u>	<u>Rate</u>
\$50/day per disablement	12
\$100/day per disablement	24

Electric Motorcycles:

For Electric Motorcycles used for commercial purposes, use the commercial motorcycle rates specified for Vehicle Engine Size Group D.

**Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Factors for Bodily Injury Liability**

2019 CAR Filing
Increased Limits Factors
Exhibit 1

Trucks, Tractors and Trailers, Private Passenger Types, Van Pools, Buses

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

Increased Limit Factor for 45/45 limit is

1.39

Increased Limit Factor for 75/75 limit is

1.68

Increased Limit Factor for 750/750 limit is

2.99

Increased Limit Factor for 550/550 limit is

2.83

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Factors for Bodily Injury Liability

2019 CAR Filing
 Increased Limits Factors
 Exhibit 2

Taxis, Limousines and Car Service

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

		2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	0	2	5	1	2	2	3	4	5	7	0						
		0	5	0	5	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0					
		40	1.00	1.12	1.22	1.29	1.34																												
		45	1.01	1.12	1.22	1.29	1.35																												
		50	1.02	1.12	1.23	1.29	1.35	1.45																											
		60	1.02	1.15	1.23	1.30	1.35	1.45																											
		70	1.03	1.15	1.23	1.30	1.36	1.45																											
		80	1.03	1.16	1.24	1.30	1.36	1.46																											
		100	1.04	1.16	1.24	1.31	1.36	1.46	1.84																										
L		150	1.05	1.17	1.25	1.32	1.37	1.47	1.85	2.08																									
I		200	1.05	1.18	1.26	1.32	1.38	1.48	1.86	2.09	2.25																								
M		250	1.06	1.18	1.26	1.33	1.38	1.49	1.87	2.09	2.26	2.38																							
I		300	1.06	1.19	1.26	1.33	1.39	1.49	1.87	2.10	2.26	2.39	2.48																						
T		350	1.06	1.19	1.27	1.33	1.39	1.49	1.87	2.10	2.26	2.39	2.48																						
P		400						1.50	1.88	2.11	2.27	2.39	2.48	2.62																					
E		500						1.50	1.88	2.11	2.27	2.40	2.49	2.63	2.73																				
R		600						1.51	1.89	2.12	2.28	2.40	2.49	2.63	2.74	2.81	2.81	2.87	2.92	2.92	2.96	2.92	2.96	3.00											
A		700						1.51	1.89	2.12	2.28	2.41	2.50	2.63	2.74	2.81	2.87	2.92	2.92	2.96	2.92	2.96	3.00												
C		800						1.52	1.90	2.13	2.29	2.41	2.50	2.64	2.75	2.81	2.87	2.92	2.92	2.96	2.92	2.96	3.00												
C		900						1.52	1.90	2.13	2.29	2.41	2.50	2.64	2.75	2.81	2.87	2.92	2.92	2.96	2.92	2.96	3.00												
I		1000						1.52	1.90	2.13	2.29	2.42	2.50	2.64	2.75	2.82	2.87	2.92	2.92	2.96	2.92	2.96	3.00												
D		1250						1.53	1.91	2.14	2.30	2.42	2.51	2.65	2.75	2.82	2.88	2.92	2.97	3.01	3.10	3.10	3.18												
E		1500						1.53	1.92	2.14	2.31	2.43	2.51	2.65	2.76	2.82	2.88	2.93	2.97	3.01	3.10	3.18	3.18	3.18	3.24										
N		1750						1.54	1.92	2.15	2.31	2.43	2.52	2.66	2.76	2.83	2.88	2.93	2.97	3.01	3.10	3.18	3.18	3.18	3.24										
T		2000						1.54	1.92	2.15	2.31	2.43	2.52	2.66	2.76	2.83	2.88	2.93	2.97	3.01	3.11	3.18	3.18	3.18	3.25	3.30									
		2500						1.55	1.93	2.16	2.32	2.44	2.53	2.67	2.77	2.83	2.89	2.94	2.98	3.02	3.11	3.19	3.19	3.19	3.25	3.31	3.40								
		3000							1.94	2.16	2.33	2.44	2.53	2.67	2.77	2.84	2.89	2.94	2.98	3.02	3.12	3.19	3.19	3.19	3.25	3.31	3.40	3.48							
		4000							1.94	2.17	2.33	2.45	2.54	2.68	2.78	2.84	2.90	2.95	2.99	3.03	3.12	3.20	3.20	3.20	3.26	3.32	3.41	3.48	3.60						
		5000							1.95	2.18	2.34	2.46	2.54	2.68	2.78	2.85	2.90	2.95	2.99	3.03	3.13	3.20	3.20	3.20	3.27	3.32	3.41	3.49	3.61	3.70					
		7500							1.96	2.19	2.35	2.47	2.55	2.69	2.79	2.85	2.91	2.96	3.00	3.04	3.13	3.21	3.21	3.21	3.27	3.33	3.42	3.50	3.62	3.71	3.88				
		10000							1.97	2.20	2.36	2.47	2.56	2.70	2.79	2.86	2.91	2.96	3.00	3.05	3.14	3.22	3.22	3.22	3.28	3.33	3.43	3.50	3.62	3.71	3.88	4.00			

Increased Limit Factor for 45/45 limit is 1.40
 Increased Limit Factor for 75/75 limit is 1.70
 Increased Limit Factor for 750/750 limit is 2.89
 Increased Limit Factor for 550/550 limit is 2.77

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Factors for Bodily Injury Liability

2019 CAR Filing
 Increased Limits Factors
 Exhibit 3

Garages

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

		2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	0	2	5	1	2	2	3	4	5	7	0	1							
		0	5	0	5	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	5	0	7	0	5	0	0	0	0	0	5	0	0				
40		1.00	1.12	1.21	1.28	1.34																															
45		1.01	1.12	1.22	1.28	1.34																															
50		1.02	1.12	1.22	1.29	1.35	1.45																														
60		1.02	1.14	1.22	1.29	1.35	1.45																														
70		1.03	1.14	1.23	1.29	1.35	1.45																														
80		1.03	1.15	1.23	1.30	1.36	1.46																														
100		1.04	1.15	1.23	1.30	1.36	1.46	1.82																													
L	150	1.05	1.16	1.24	1.31	1.37	1.47	1.83	2.06																												
I	200	1.05	1.17	1.25	1.32	1.38	1.48	1.84	2.07	2.23																											
M	250	1.06	1.17	1.25	1.32	1.38	1.48	1.85	2.07	2.24	2.36																										
I	300	1.06	1.18	1.26	1.33	1.39	1.49	1.85	2.08	2.24	2.37	2.45																									
T	350	1.06	1.18	1.26	1.33	1.39	1.49	1.85	2.08	2.24	2.37	2.45																									
P	400						1.50	1.86	2.09	2.25	2.37	2.46	2.58																								
E	500						1.50	1.86	2.09	2.25	2.38	2.46	2.59	2.69																							
R	600						1.51	1.87	2.10	2.26	2.38	2.46	2.59	2.69	2.77																						
A	700						1.51	1.87	2.10	2.26	2.39	2.47	2.59	2.69	2.77	2.83																					
C	800						1.51	1.88	2.11	2.27	2.39	2.47	2.60	2.70	2.77	2.84	2.89	2.89	2.94																		
C	900						1.52	1.88	2.11	2.27	2.39	2.47	2.60	2.70	2.77	2.84	2.89	2.94																			
I	1000						1.52	1.88	2.11	2.27	2.40	2.48	2.60	2.70	2.78	2.84	2.90	2.95	2.99																		
D	1250						1.53	1.89	2.12	2.28	2.40	2.48	2.61	2.71	2.78	2.85	2.90	2.95	3.00	3.09	3.09	3.17															
E	1500						1.53	1.90	2.12	2.29	2.40	2.48	2.61	2.71	2.79	2.85	2.91	2.95	3.00	3.09	3.17	3.23															
N	1750						1.54	1.90	2.13	2.29	2.41	2.49	2.61	2.71	2.79	2.85	2.91	2.96	3.00	3.09	3.17	3.24	3.29														
T	2000						1.54	1.90	2.13	2.29	2.41	2.49	2.62	2.72	2.79	2.86	2.91	2.96	3.00	3.10	3.17	3.24	3.30	3.39													
	2500						1.54	1.91	2.14	2.30	2.42	2.50	2.62	2.72	2.80	2.86	2.92	2.97	3.01	3.10	3.18	3.24	3.30	3.39	3.47												
	3000						1.92	2.14	2.31	2.42	2.50	2.63	2.72	2.80	2.86	2.92	2.97	3.01	3.11	3.18	3.24	3.30	3.39	3.47													
	4000						1.92	2.15	2.31	2.43	2.51	2.63	2.73	2.81	2.87	2.93	2.98	3.02	3.11	3.19	3.25	3.30	3.40	3.47	3.59												
	5000						1.93	2.16	2.32	2.43	2.51	2.64	2.73	2.81	2.87	2.93	2.98	3.02	3.12	3.19	3.25	3.31	3.40	3.48	3.60	3.69											
	7500						1.94	2.17	2.33	2.44	2.52	2.65	2.74	2.82	2.88	2.94	2.99	3.03	3.12	3.20	3.26	3.32	3.41	3.48	3.60	3.70	3.86										
	10000						1.95	2.18	2.34	2.45	2.53	2.65	2.75	2.82	2.89	2.95	2.99	3.04	3.13	3.21	3.27	3.32	3.42	3.49	3.61	3.70	3.87	3.99									

Increased Limit Factor for 45/45 limit is 1.40
 Increased Limit Factor for 75/75 limit is 1.68
 Increased Limit Factor for 750/750 limit is 2.86
 Increased Limit Factor for 550/550 limit is 2.73

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Factors for Bodily Injury Liability

2019 CAR Filing
 Increased Limits Factors
 Exhibit 4

Commercial Motorcycles

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

	2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	0	2	5	1	2	2	3	4	5	7	0	
	0	5	0	5	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	5	0	7	0	5	0	0	0	0	0
40	1.00	1.13	1.21	1.28	1.33																								
45	1.02	1.13	1.21	1.28	1.34																								
50	1.04	1.13	1.22	1.28	1.34	1.44																							
60	1.04	1.14	1.22	1.29	1.34	1.44																							
70	1.05	1.14	1.22	1.29	1.35	1.44																							
80	1.05	1.15	1.23	1.29	1.35	1.45																							
100	1.05	1.15	1.23	1.30	1.35	1.45	1.76																						
L	150	1.06	1.16	1.24	1.31	1.36	1.46	1.77	1.95																				
I	200	1.07	1.17	1.25	1.31	1.37	1.47	1.77	1.96	2.09																			
M	250	1.07	1.17	1.25	1.32	1.37	1.47	1.78	1.97	2.10	2.20																		
I	T	300	1.08	1.18	1.25	1.32	1.38	1.47	1.78	1.97	2.10	2.21	2.30																
P	E	350	1.08	1.18	1.26	1.32	1.38	1.48	1.78	1.97	2.11	2.21	2.31																
R	400													1.48	1.79	1.98	2.11	2.22	2.31	2.46									
E	500													1.49	1.79	1.98	2.12	2.22	2.32	2.47	2.58								
R	600													1.49	1.80	1.99	2.12	2.23	2.32	2.47	2.59	2.66							
A	700													1.49	1.80	1.99	2.12	2.23	2.32	2.47	2.59	2.66	2.72						
C	800													1.50	1.80	1.99	2.13	2.23	2.33	2.48	2.59	2.66	2.72	2.77					
C	900													1.50	1.81	2.00	2.13	2.24	2.33	2.48	2.60	2.66	2.72	2.77	2.81				
I	1000													1.50	1.81	2.00	2.13	2.24	2.33	2.48	2.60	2.67	2.72	2.77	2.81	2.85			
D	1250													1.51	1.81	2.00	2.14	2.24	2.34	2.49	2.60	2.67	2.73	2.77	2.82	2.85	2.94		
E	N	1500												1.51	1.82	2.01	2.14	2.25	2.34	2.49	2.61	2.67	2.73	2.78	2.82	2.86	2.95	3.02	
T	1750													1.51	1.82	2.01	2.15	2.25	2.35	2.50	2.61	2.68	2.73	2.78	2.82	2.86	2.95	3.02	3.08
	2000													1.52	1.82	2.01	2.15	2.26	2.35	2.50	2.61	2.68	2.73	2.78	2.82	2.86	2.95	3.02	3.08
	2500													1.52	1.83	2.02	2.15	2.26	2.36	2.51	2.62	2.68	2.74	2.79	2.83	2.87	2.96	3.03	3.09
	3000													1.83	2.02	2.16	2.27	2.36	2.51	2.62	2.69	2.74	2.79	2.83	2.87	2.96	3.03	3.09	3.14
	4000													1.84	2.03	2.16	2.27	2.37	2.52	2.63	2.69	2.75	2.80	2.84	2.88	2.97	3.04	3.10	3.15
	5000													1.85	2.04	2.17	2.28	2.38	2.53	2.63	2.70	2.75	2.80	2.84	2.88	2.97	3.04	3.10	3.15
	7500													1.86	2.05	2.18	2.29	2.39	2.54	2.64	2.70	2.76	2.81	2.85	2.89	2.98	3.05	3.11	3.16
	10000													1.86	2.05	2.19	2.30	2.39	2.54	2.64	2.71	2.76	2.81	2.85	2.90	2.98	3.06	3.12	3.17

Increased Limit Factor for 45/45 limit is

1.39

Increased Limit Factor for 75/75 limit is

1.62

Increased Limit Factor for 750/750 limit is

2.74

Increased Limit Factor for 550/550 limit is

2.62

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limits Rates for Uninsured Motorists (U1)

2019 CAR Filing
 Increased Limits Factors
 Exhibit 5

All Vehicle Types Excluding Taxicabs and Motorcycles

03/01/19

(Limits Expressed in Thousands)

							LIMIT PER PERSON																	
		1	1	2	2	3	4	5	6	7	8	9	0	2	5	7	0	5	0	0	5	7	0	
		2	2	3	3	4	5	0	5	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
		0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L	40	4	6	7	7	8																		
I	45	5	6	7	7	8																		
M	50	5	6	7	7	8	8																	
I	60	5	7	7	7	8	8																	
T	70	5	7	7	7	8	8																	
P	80	5	7	7	7	8	8																	
E	100	5	7	7	8	8	8	9																
R	150	5	7	7	8	8	8	9	9															
A	200	5	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
C	250	5	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
I	300	5	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
D	350	5	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
E	400						8	9	9	9	10	10	10	10	10	10	11							
N	500						8	9	9	9	10	10	10	10	10	10	11	11	12					
T	600						8	9	9	9	10	10	10	10	10	11	11	12	12	12	12	12	12	12
A	700						8	9	9	9	10	10	10	10	11	11	12	12	12	13	13	13	13	13
C	800						8	9	9	9	10	10	10	10	11	11	12	12	12	13	13	13	13	13
C	900						8	9	9	9	10	10	10	10	11	11	12	12	12	13	13	13	13	13
I	1000						8	9	9	9	10	10	10	10	11	11	12	12	12	13	13	13	13	13
D	1250						8	9	9	10	10	10	10	10	11	11	12	12	12	13	13	13	13	14
E	1500						8	9	9	10	10	10	10	10	11	11	12	12	12	13	13	13	14	14
N	1750						8	9	9	10	10	10	10	10	11	11	12	12	12	13	13	13	14	14
T	2000						8	9	9	10	10	10	10	10	11	11	12	12	12	13	13	13	14	14
A	2500						8	9	9	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15
N	3000						9	10	10	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15
T	4000						9	10	10	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15
A	5000						9	10	10	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15
N	7500						9	10	10	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15
T	10000						9	10	10	10	10	10	10	10	11	12	12	12	13	13	13	14	14	15

Increased Limit Rate for 45/45 limit is

8

Increased Limit Rate for 75/75 limit is

9

Increased Limit Rate for 750/750 limit is

13

Increased Limit Rate for 550/550 limit is

12

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Rates for Uninsured Motorists (U1)

2019 CAR Filing
 Increased Limits Factors
 Exhibit 6

Taxis

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

		2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	0	2	5	1	2	2	3	4	5	7	0						
		0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0						
		40	46	50	54	56	59																												
		45	47	50	54	56	59																												
		50	47	50	54	56	59	62																											
		60	47	51	54	57	59	63																											
		70	47	51	54	57	59	63																											
		80	47	51	54	57	59	63																											
		100	47	51	54	57	59	63	76																										
L		150	48	52	55	57	60	63	76	83																									
I		200	48	52	55	58	60	64	77	83	87																								
M		250	48	52	55	58	60	64	77	83	87	90																							
I		300	48	52	55	58	60	64	77	83	87	91	101																						
T		350	48	52	56	58	60	64	77	83	87	91	101																						
P		400						64	77	83	88	91	102	120																					
E		500						65	77	83	88	91	103	121	135																				
R		600						65	78	84	88	92	103	121	135	140																			
A		700						65	78	84	88	92	104	122	136	140	144																		
C		800						65	78	84	88	92	104	122	136	141	144	147																	
C		900						65	78	84	88	93	104	123	137	141	144	147	149																
I		1000						65	78	84	88	93	105	123	137	141	144	147	149	151															
D		1250						65	78	84	88	94	105	124	137	141	144	147	150	152	156														
E		1500						66	78	84	88	94	106	124	137	141	144	147	150	152	157	160													
N		1750						66	78	84	89	95	106	125	138	141	145	147	150	152	157	161	164												
T		2000						66	78	84	89	95	107	125	138	142	145	148	150	152	157	161	164	167											
		2500						66	79	85	89	96	108	126	138	142	145	148	150	152	157	161	164	167	172										
		3000						79	85	89	97	108	126	138	142	145	148	150	153	157	161	164	167	172	176										
		4000						79	85	89	98	109	127	138	142	145	148	151	153	158	161	165	167	172	176	182									
		5000						79	85	89	98	110	128	139	142	146	148	151	153	158	162	165	168	172	176	182	187								
		7500						79	85	90	100	111	129	139	143	146	149	151	154	158	162	165	168	173	177	183	187	196							
		10000						80	86	90	100	112	130	139	143	146	149	152	154	159	162	166	168	173	177	183	187	196	202						

Increased Limit Rate for 45/45 limit is

61

Increased Limit Rate for 75/75 limit is

71

Increased Limit Rate for 750/750 limit is

145

Increased Limit Rate for 550/550 limit is

138

Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limits Rates for Underinsured Motorists (U2)

2019 CAR Filing
 Increased Limits Factors
 Exhibit 7

All Vehicle Types Excluding Taxicabs and Motorcycles

03/01/19

(Limits Expressed in Thousands)

							LIMIT PER PERSON																							
		2	2	3	3	4	5	0	0	5	0	5	0	0	0	0	0	0	0	1	1	1	1	2	2	3	4	5	7	0
L	I	40	0	0	2	4	5																							
M	I	45	0	0	2	4	5																							
T	I	50	0	0	2	4	5																							
M	I	60	0	1	3	4	5																							
I	T	70	0	1	3	4	5																							
L	I	80	0	1	3	4	5																							
L	I	100	0	1	3	4	5																							
L	I	150	0	1	3	4	5																							
I	M	200	0	2	3	4	5																							
M	I	250	0	2	3	4	6																							
I	T	300	0	2	3	4	6																							
T	I	350	0	2	3	5	6																							
P	E	400																												
E	R	500																												
R		600																												
A	C	700																												
C	C	800																												
C	I	900																												
I	D	1000																												
D	E	1250																												
E	N	1500																												
N	T	1750																												
T		2000																												
		2500																												
		3000																												
		4000																												
		5000																												
		7500																												
		10000																												

Increased Limit Rate for 45/45 limit is

6

Increased Limit Rate for 75/75 limit is

17

Increased Limit Rate for 750/750 limit is

255

Increased Limit Rate for 550/550 limit is

243

**Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limits Rates for Underinsured Motorists (U2)**

2019 CAR Filing
Increased Limits Factors
Exhibit 8

Taxis

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

Increased Limit Rate for 45/45 limit is

6

Increased Limit Rate for 75/75 limit is

17

Increased Limit Rate for 750/750 limit is

255

Increased Limit Rate for 550/550 limit is

243

**Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limit Rates for Uninsured Motorists (U1)**

2019 CAR Filing
Increased Limits Factors
Exhibit 9

Commercial Motorcycles

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

		2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	1
		0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L	40	35	41	42	44	45													
I	45	35	41	42	44	45													
M	50	35	41	42	44	45	50												
I	60	35	41	42	44	45	50												
T	70	35	41	42	44	45	50												
P	80	35	41	42	44	45	50												
E	100	36	41	42	44	47	50	56											
R	150	36	41	42	44	47	50	56	57										
A	200	36	41	42	44	47	50	56	57	59									
C	250	36	41	42	45	47	50	56	57	59	60								
C	300	38	41	42	45	47	50	56	57	59	60	63							
I	350	38	42	44	45	47	50	56	57	59	60	63							
D	400						50	56	57	59	60	63	71						
E	500						50	56	57	59	60	65	71	75					
N	600						50	56	57	59	60	65	71	80	92				
T	700						51	56	57	59	60	65	71	83	92	95			
	800						51	56	57	59	60	65	71	86	92	95	96		
	900						51	56	57	59	60	65	71	87	93	95	96	98	
	1000						51	56	57	59	62	65	71	90	93	95	96	98	99

Increased Limit Rate for 45/45 limit is

47

Increased Limit Rate for 750/750 limit is

95

Increased Limit Rate for 1000/2000 limit is

101

Increased Limit Rate for 2000/2000 limit is

110

**Commonwealth Automobile Reinsurers
Massachusetts Commercial Automobile
Increased Limits Rates for Underinsured Motorists (U2)**

2019 CAR Filing
Increased Limits Factors
Exhibit 10

Commercial Motorcycles

03/01/19

(Limits Expressed in Thousands)

LIMIT PER PERSON

		2	2	3	3	4	5	1	1	2	2	3	4	5	6	7	8	9	1
		0	5	0	5	0	0	0	5	0	5	0	0	0	0	0	0	0	0
L	40	0	8	17	23	30													
I	45	2	8	17	23	30													
M	50	2	8	17	23	30	45												
I	60	2	9	17	24	32	45												
T	70	2	9	17	24	32	45												
P	80	2	9	18	24	32	47												
E	100	3	11	18	24	33	47	119											
R	150	3	11	20	26	35	48	122	254										
A	200	3	12	20	27	35	50	123	258	359									
C	250	3	12	20	27	36	51	123	263	362	440								
C	300	5	12	20	29	36	53	125	266	365	443	534							
I	350	5	14	21	29	36	53	128	269	368	446	539							
D	400						54	129	270	371	447	542	695						
E	500						56	134	275	374	452	548	701	819					
N	600						56	137	278	377	456	554	705	917	1217				
T	700						57	140	281	380	461	557	710	998	1218	1247			
	800						57	141	282	383	464	561	713	1070	1220	1247	642		
	900						59	144	285	384	467	564	717	1133	1220	1248	642	806	
	1000						59	146	287	386	470	567	719	1188	1221	1250	642	806	1185

Increased Limit Rate for 45/45 limit is

38

Increased Limit Rate for 750/750 limit is

1259

Increased Limit Rate for 1000/2000 limit is

1320

Increased Limit Rate for 2000/2000 limit is

1446

**Commonwealth Automobile Reinsurers
 Massachusetts Commercial Automobile
 Property Damage Liability Increased Limit Factors**

03/01/19

<u>Limit</u>	<u>PPT & GAR *</u>	<u>Light / Medium</u> TTT	<u>Heavy Trucks & Truck Tractors</u>	<u>Extra Heavy Trucks & Truck Tractors, Trailers/Semi Trailers</u>	<u>Taxis, Limos & Car Service</u>	<u>Bus & Van Pool</u>	<u>Motorcycle</u>
\$5,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
\$10,000	1.240	1.327	1.340	1.407	1.240	1.240	1.180
\$15,000	1.330	1.419	1.454	1.549	1.330	1.320	1.230
\$20,000	1.364	1.456	1.510	1.626	1.364	1.354	1.253
\$25,000	1.390	1.484	1.553	1.686	1.390	1.380	1.270
\$30,000	1.401	1.496	1.575	1.725	1.401	1.391	1.275
\$35,000	1.410	1.506	1.593	1.757	1.410	1.400	1.280
\$40,000	1.415	1.513	1.612	1.792	1.415	1.411	1.285
\$45,000	1.418	1.517	1.620	1.808	1.418	1.416	1.288
\$50,000	1.420	1.520	1.628	1.822	1.420	1.420	1.290
\$75,000	1.437	1.531	1.682	1.910	1.437	1.429	1.299
\$80,000	1.438	1.531	1.684	1.913	1.438	1.429	1.299
\$100,000	1.440	1.533	1.691	1.924	1.440	1.430	1.300
\$150,000	1.446	1.541	1.734	1.984	1.446	1.436	1.312
\$200,000	1.448	1.544	1.751	2.008	1.448	1.438	1.317
\$250,000	1.450	1.547	1.764	2.026	1.450	1.440	1.320
\$300,000	1.450	1.549	1.774	2.039	1.450	1.440	1.323
\$400,000	1.450	1.550	1.783	2.051	1.450	1.440	1.327
\$500,000	1.450	1.552	1.791	2.060	1.450	1.440	1.330
\$550,000	1.450	1.552	1.795	2.067	1.450	1.440	1.332
\$750,000	1.450	1.552	1.802	2.079	1.450	1.440	1.336
\$1,000,000	1.450	1.552	1.809	2.090	1.450	1.440	1.340
\$1,500,000	1.535	1.642	1.914	2.215	1.535	1.525	1.420
\$2,000,000	1.559	1.669	1.944	2.247	1.559	1.548	1.440
\$2,500,000	1.580	1.692	1.971	2.278	1.580	1.570	1.461
\$3,000,000	1.592	1.704	1.985	2.294	1.592	1.581	1.470
\$4,000,000	1.622	1.734	2.020	2.334	1.622	1.611	1.550
\$5,000,000	1.792	1.914	2.230	2.574	1.792	1.781	1.652
\$10,000,000	1.934	2.070	2.411	2.787	1.934	1.921	1.786

* All other vehicle types should use these increased limit factors.

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

	<u>Town</u>	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
A	ABINGTON	14	010
	ACTON	12	630
	ACUSHNET	13	230
	ADAMS	14	110
	AGAWAM	12	420
	ALFORD	16	170
	AMESBURY	15	310
	AMHERST	12	510
	ANDOVER	14	311
	ARLINGTON	17	610
	ASHBURNHAM	14	930
	ASHBY	13	670
	ASHFIELD	14	470
	ASHLAND	16	631
	ATHOL	11	910
	ATTLEBORO	12	210
	AUBURN	15	931
	AVON	17	730
	AYER	11	632
	BARNSTABLE	11	021
	BARRE	12	932
	BECKET	16	171
	BEDFORD	13	633
B	BELCHERTOWN	12	530
	BELLINGHAM	15	731
	BELMONT	17	611
	BERKLEY	15	231
	BERLIN	14	933
	BERNARDSTON	12	471
	BEVERLY	16	312
	BILLERICA	15	634
	BLACKSTONE	15	934
	BLANDFORD	17	490
	BOLTON	14	970
	BOSTON CENTRAL	07	821
	BOURNE	12	050
	BOXBOROUGH	13	671
	BOXFORD	16	370
	BOYLSTON	14	971
	BRAINTREE	18	710
	BREWSTER	11	080
	BRIDGEWATER	14	011
	BRIGHTON	08	822
	BRIMFIELD	14	491
	BROCKTON	20	002
	BROOKFIELD	14	935
	BROOKLINE	20	702
	BUCKLAND	16	430
	BURLINGTON	16	635
C	CAMBRIDGE	19	600
	CANTON	17	711
	CARLISLE	15	672
	CARVER	16	030
	CHARLEMONT	15	472
	CHARLTON	12	936
	CHATHAM	11	051
	CHELMSFORD	13	612
	CHELSEA	20	802
	CHESHIRE	13	130
	CHESTER	16	440
	CHESTERFIELD	16	570

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

	<u>Town</u>	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
	CHICOPEE	13	402
	CHILMARK	15	081
	CLARKSBURG	15	131
	CLINTON	15	911
	COHASSET	15	732
	COLRAIN	16	431
	CONCORD	14	613
	CONWAY	16	473
	CUMMINGTON	15	571
D	DALTON	15	132
	DANVERS	16	313
	DARTMOUTH	12	211
	DEDHAM	18	712
	DEERFIELD	12	432
	DENNIS	11	052
	DIGHTON	15	232
	DORCHESTER	05	819
	DOUGLAS	13	937
	DOVER	16	733
	DRACUT	14	614
	DUDLEY	12	938
	DUNSTABLE	15	673
	DUXBURY	13	031
E	E BOSTON/CHARLESTOWN	10	824
	E BRIDGEWATER	15	032
	E BROOKFIELD	13	973
	E LONGMEADOW	15	441
	EASTHAM	12	082
	EASTHAMPTON	12	511
	EASTON	16	212
	EDGARTOWN	13	053
	EGREMONT	13	172
	ERVING	14	433
	ESSEX	12	330
	EVERETT	19	602
F	FAIRHAVEN	15	213
	FALL RIVER	17	201
	FALMOUTH	11	054
	FITCHBURG	12	902
	FLORIDA	12	173
	FOXBOROUGH	15	734
	FRAMINGHAM	17	615
	FRANKLIN	15	713
	FREETOWN	12	233
G	GARDNER	12	912
	GAY HEAD	17	083
	GEORGETOWN	13	331
	GILL	11	474
	GLOUCESTER	16	314
	GOSHEN	12	573
	GOSNOLD	11	084
	GRAFTON	13	913
	GRANBY	13	574
	GRANVILLE	14	492
	GREAT BARRINGTON	12	111
	GREENFIELD	11	410
	GROTON	13	636
	GROVELAND	13	332
H	HADLEY	13	531
	HALIFAX	14	070
	HAMILTON	13	333

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

<u>Town</u>	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
HAMPDEN	14	493
HANCOCK	11	174
HANOVER	16	033
HANSON	14	034
HARDWICK	15	939
HARVARD	12	974
HARWICH	11	055
HATFIELD	14	532
HAVERHILL	16	302
HAWLEY	16	475
HEATH	15	476
HINGHAM	16	012
HINSDALE	15	133
HOLBROOK	15	735
HOLDEN	13	940
HOLLAND	14	494
HOLLISTON	15	637
HOLYOKE	13	403
HOPEDALE	15	941
HOPKINTON	15	638
HUBBARDSTON	16	942
HUDSON	13	616
HULL	17	035
HUNTINGTON	15	533
HYDE PARK	04	818
I IPSWICH	13	315
J JAMAICA PLAIN	03	817
K KINGSTON	16	036
L LAKEVILLE	14	037
LANCASTER	13	943
LANESBOROUGH	11	134
LAWRENCE	20	303
LEE	11	135
LEICESTER	14	944
LENOX	14	136
LEOMINSTER	11	914
LEVERETT	16	477
LEXINGTON	16	617
LEYDEN	13	478
LINCOLN	16	639
LITTLETON	13	640
LONGMEADOW	14	442
LOWELL	18	601
LUDLOW	11	421
LUNENBURG	13	945
LYNN	19	300
LYNNFIELD	17	334
M MALDEN	19	603
MANCHESTER	15	335
MANSFIELD	15	214
MARBLEHEAD	17	316
MARION	13	038
MARLBOROUGH	13	618
MARSHFIELD	16	039
MASHPEE	13	085
MATTAPoisETT	13	040
MAYNARD	15	620
MEDFIELD	14	736
MEDFORD	18	604
MEDWAY	13	737
MELROSE	19	619

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
Town		
MENDON	13	946
MERRIMAC	15	336
METHUEN	17	317
MIDDLEBOROUGH	12	013
MIDDLEFIELD	16	576
MIDDLETON	16	337
MILFORD	14	915
MILLBURY	16	916
MILLIS	11	738
MILLVILLE	16	947
MILTON	17	714
MONROE	15	479
MONSON	12	422
MONTAGUE	13	411
MONTEREY	15	175
MONTGOMERY	16	495
MT WASHINGTON	16	176
N		
NAHANT	16	338
NANTUCKET	11	056
NATICK	15	621
NEEDHAM	17	715
NEW ASHFORD	12	177
NEW BEDFORD	18	200
NEW BRAINTREE	11	975
NEW MARLBOROUGH	14	178
NEW SALEM	15	480
NEWBURY	13	339
NEWBURYPORT	13	318
NEWTON	18	605
NO ADAMS	11	112
NO ANDOVER	14	319
NO ATTLEBOROUGH	11	215
NO BROOKFIELD	12	948
NO READING	15	641
NORFOLK	15	739
NORTHAMPTON	13	512
NORTHBOROUGH	13	949
NORTHBRIDGE	12	917
NORTHFIELD	15	434
NORTON	15	234
NORWELL	15	041
NORWOOD	18	716
O		
OAK BLUFFS	13	057
OAKHAM	15	976
ORANGE	12	412
ORLEANS	11	058
OTIS	13	179
OXFORD	12	950
P		
PALMER	11	423
PAXTON	16	977
PEABODY	18	320
PELHAM	14	577
PEMBROKE	14	042
PEPPERELL	13	642
PERU	11	180
PETERSHAM	16	978
PHILLIPSTON	15	979
PITTSFIELD	11	102
PLAINFIELD	16	578
PLAINVILLE	12	740
PLYMOUTH	14	014

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

	<u>Town</u>	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
	PLYMPTON	13	071
	PRINCETON	14	980
	PROVINCETOWN	14	059
Q	QUINCY	19	703
R	RANDOLPH	18	717
	RAYNHAM	15	235
	READING	17	622
	REHOBOTH	12	236
	REVERE	20	803
	RICHMOND	16	181
	ROCHESTER	12	043
	ROCKLAND	18	015
	ROCKPORT	15	340
	ROSLINDALE	02	816
	ROWE	11	481
	ROWLEY	16	341
	ROXBURY	06	820
	ROYALSTON	16	981
	RUSSELL	14	443
	RUTLAND	13	951
S	SALEM	16	304
	SALISBURY	12	342
	SANDISFIELD	13	182
	SANDWICH	11	060
	SAUGUS	18	321
	SAVOY	17	183
	SCITUATE	17	044
	SEEKONK	12	237
	SHARON	18	741
	SHEFFIELD	13	137
	SHELBURNE	15	435
	SHERBORN	15	674
	SHIRLEY	15	643
	SHREWSBURY	14	918
	SHUTESBURY	15	482
	SOMERSET	15	238
	SOMERVILLE	20	606
	SOUTH BOSTON	09	823
	SOUTH HADLEY	13	513
	SOUTHAMPTON	12	580
	SOUTHBOROUGH	15	952
	SOUTHBRIDGE	13	919
	SOUTHWICK	14	444
	SPENCER	12	920
	SPRINGFIELD	19	400
	STERLING	12	953
	STOCKBRIDGE	15	138
	STONEHAM	17	623
	STOUGHTON	18	718
	STOW	15	644
	STURBRIDGE	13	954
	SUDSBURY	12	645
	SUNDERLAND	12	436
	SUTTON	15	955
	SWAMPSCOTT	17	322
	SWANSEA	12	239
T	TAUNTON	16	202
	TEMPLETON	11	956
	TEWKSBURY	17	646
	TISBURY	11	061
	TOLLAND	14	496

COMMONWEALTH AUTOMOBILE REINSURERS
MASSACHUSETTS COMMERCIAL AUTOMOBILE
TOWN-TERRITORY DEFINITIONS
(Applicable to All Vehicle Types)

	<u>Town</u>	<u>Proposed Territory</u>	<u>Statistical Town Code</u>
	TOPSFIELD	16	371
	TOWNSEND	13	647
	TRURO	13	086
	TYNGSBOROUGH	15	648
	TYRINGHAM	12	184
U	UPTON	13	957
	UXBRIDGE	12	921
W	WAKEFIELD	17	624
	WALES	12	497
	WALPOLE	14	719
	WALTHAM	17	607
	WARE	11	514
	WAREHAM	14	016
	WARREN	12	958
	WARWICK	15	483
	WASHINGTON	15	185
	WATERTOWN	18	608
	WAYLAND	16	649
	WEBSTER	11	922
	WELLESLEY	15	720
	WELLFLEET	13	087
	WENDELL	14	484
	WENHAM	15	343
	WEST BOYLSTON	14	959
	WEST BRIDGEWATER	16	045
	WEST BROOKFIELD	12	960
	WEST NEWBURY	14	344
	WEST ROXBURY	01	815
	WEST SPRINGFIELD	14	425
	WEST STOCKBRIDGE	12	139
	WEST TISBURY	14	088
	WESTBOROUGH	14	923
	WESTFIELD	11	424
	WESTFORD	14	650
	WESTHAMPTON	15	581
	WESTMINSTER	14	961
	WESTON	13	651
	WESTPORT	12	240
	WESTWOOD	16	742
	WEYMOUTH	17	721
	WHATELY	14	437
	WHITMAN	15	017
	WILBRAHAM	12	445
	WILLIAMSBURG	12	534
	WILLIAMSTOWN	15	140
	WILMINGTON	17	652
	WINCHENDON	12	924
	WINCHESTER	17	625
	WINDSOR	14	186
	WINTHROP	18	810
	WOBURN	16	626
	WORCESTER	18	900
	WORTHINGTON	13	582
	WRENTHAM	13	743
Y	YARMOUTH	11	062