



February 1, 2018

Honorable Mike Causey
Commissioner of Insurance
North Carolina Department of Insurance
PO Box 26387
Raleigh, North Carolina 27611

Re: Review of Automobile Insurance Rates -
Private Passenger Cars and Motorcycles

Dear Commissioner Causey:

In accordance with Article 36 of Chapter 58 of the General Statutes of North Carolina, the North Carolina Rate Bureau hereby submits experience, data, statistics and information for automobile insurance – private passenger cars and motorcycles. This constitutes the rate review required by law to be submitted on or before February 1, 2018.

Sincerely,

Raymond F. Evans, Jr., CPCU

General Manager

Enclosures

**NORTH CAROLINA RATE BUREAU
2018 PRIVATE PASSENGER AUTOMOBILE INSURANCE
EXPERIENCE REVIEW**

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**NORTH CAROLINA RATE BUREAU
2018 PRIVATE PASSENGER AUTOMOBILE INSURANCE
EXPERIENCE REVIEW**

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North Carolina Private Passenger Automobile

Voluntary & Ceded Combined

	AY 2014	AY 2015	AY 2016
<u>Bodily Injury</u>			
Exposures	6,685,196	6,709,543	6,885,847
Prem at Pres NCRB Rates	1,129,139,746	1,125,148,134	1,152,728,735
B/L Incurred Losses	590,825,498	619,806,847	633,611,031
T/L Incurred Losses	724,032,647	756,275,759	749,360,670

Property Damage

Exposures	6,685,196	6,709,543	6,885,847
Prem at Pres NCRB Rates	1,215,575,194	1,213,427,235	1,244,796,844
B/L Incurred Losses	669,000,440	733,782,579	787,225,280
T/L Incurred Losses	677,183,464	744,197,675	797,797,339

Medical Payments

Exposures	4,753,552	4,739,972	4,807,216
Prem at Pres NCRB Rates	158,810,473	156,719,626	158,091,957
Incurred Losses	87,362,707	88,526,695	90,860,917

North Carolina Private Passenger Automobile

Standard & Non-Standard Combined

	CY 2014	CY 2015	CY 2016
<u>Comprehensive</u>			
Exposures	4,960,770	5,089,100	5,181,466
Prem at Pres NCRB Rates	660,557,287	672,173,130	678,947,314
Paid Losses ¹	325,466,744	332,620,389	358,569,301

Collision

Exposures	4,574,138	4,698,958	4,792,662
Prem at Pres NCRB Rates	1,711,592,544	1,757,908,152	1,789,080,662
Paid Losses	689,700,336	749,801,681	841,056,198

Notes:

1 Comprehensive losses include an adjustment for wind and water losses.

North Carolina Private Passenger Automobile

Voluntary & Ceded Combined

	AY 2014	AY 2015	AY 2016
<u>Uninsured Motorists BI</u>			
Exposures	6,046,833	6,095,826	6,195,603
B/L Prem at Pres NCRB Rates	78,608,829	79,245,738	80,542,839
T/L Prem at Pres NCRB Rates	95,460,619	96,234,059	97,809,203
B/L Incurred Losses	31,422,789	35,861,470	40,140,414
T/L Incurred Losses	40,453,984	46,561,642	48,215,706

Uninsured Motorists PD

Exposures	6,046,833	6,095,826	6,195,603
B/L Prem at Pres NCRB Rates	12,093,666	12,191,652	12,391,206
T/L Prem at Pres NCRB Rates	19,712,679	19,872,396	20,197,666
B/L Incurred Losses	9,326,703	11,431,396	13,904,184
T/L Incurred Losses	9,789,126	12,208,011	13,963,959

Underinsured Motorists BI

Exposures	4,618,264	4,655,682	4,731,887
T/L Prem at Pres NCRB Rates	150,292,494	151,510,134	153,989,976
T/L Incurred Losses	67,665,511	67,171,544	52,148,977

Motorcycle Liability

Exposures	248,439	251,632	261,529
T/L Prem at Pres NCRB Rates	41,769,226	41,877,894	43,150,865
T/L Incurred Losses	18,382,596	19,693,920	22,622,782

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
COMPREHENSIVE COVERAGES
DERIVATION OF WIND AND WATER ADJUSTMENT

Year	(1) Wind & Water Paid Losses (a)(b)	(2) Total Paid Losses(a)(b)	(3) (2)-(1) [Total - Wind & Water]	(4) [Wind & Water] / [Total - Wind & Water]	(5) Avg.(4)-(4) Variation From Avg. W&W Ratio	(6) (3) x (5) Wind and Water Adj.
12/31/87	1,484,233	19,918,610	18,434,377	0.081	0.147	\$ 2,709,853
12/31/88	5,074,247	25,070,383	19,996,136	0.254	-0.026	(519,900)
12/31/89	11,554,992	32,652,862	21,097,870	0.548	-0.320	(6,751,318)
12/31/90	4,423,094	26,845,160	22,422,066	0.197	0.031	695,084
12/31/91	1,271,154	21,820,454	20,549,300	0.062	0.166	3,411,184
12/31/92	1,928,913	21,696,593	19,767,680	0.098	0.130	2,569,798
12/31/93	18,640,617	67,247,004	48,606,387	0.384	-0.156	(7,582,596)
12/31/94	3,267,309	54,565,559	51,298,250	0.064	0.164	8,412,913
12/31/95	9,648,334	65,189,949	55,541,615	0.174	0.054	2,999,247
12/31/96	49,270,157	121,767,966	72,497,809	0.680	-0.452	(32,769,010)
12/31/97	8,337,582	74,959,385	66,621,803	0.125	0.103	6,862,046
12/31/98	36,582,228	109,433,029	72,850,801	0.502	-0.274	(19,961,119)
12/31/99	82,839,636	254,543,319	171,703,683	0.482	-0.254	(43,612,735)
12/31/00	26,900,286	219,752,475	192,852,189	0.139	0.089	17,163,845
12/31/01	12,205,306	195,182,807	182,977,501	0.067	0.161	29,459,378
12/31/02	19,987,319	207,651,735	187,664,416	0.107	0.121	22,707,394
12/31/03	71,165,906	270,447,922	199,282,016	0.357	-0.129	(25,707,380)
12/31/04	22,627,816	242,377,216	219,749,400	0.103	0.125	27,468,675
12/31/05	15,400,792	234,388,376	218,987,584	0.070	0.158	34,600,038
12/31/06	35,338,646	273,491,755	238,153,109	0.148	0.080	19,052,249
12/31/07	18,082,928	266,769,682	248,686,754	0.073	0.155	38,546,447
12/31/08	40,583,664	308,375,011	267,791,347	0.152	0.076	20,352,142
12/31/09	26,400,184	283,714,317	257,314,133	0.103	0.125	32,164,267
12/31/10	28,265,837	298,598,932	270,333,095	0.105	0.123	33,250,971
12/31/11	203,657,338	480,977,217	277,319,879	0.734	-0.506	(140,323,859)
12/31/12	62,581,368	321,750,613	259,169,245	0.241	-0.013	(3,369,200)
12/31/13	19,758,670	278,450,013	258,691,343	0.076	0.152	39,321,084
12/31/14	37,932,870	302,875,301	264,942,431	0.143	0.085	22,520,107
12/31/15	37,062,396	307,913,015	270,850,619	0.137	0.091	24,647,406
12/31/16	123,669,600	414,686,058	291,016,458	0.425	-0.197	(57,330,242)

Average (4) = 0.228

(a) Losses are for Full Coverage, \$50 Deductible and \$100 Deductible Comprehensive for 1987-1990.

Losses are for Full Coverage, \$50, \$100 and \$250 Deductible Comprehensive for 1991-1992.

Losses are for Full Coverage, \$50, \$100, \$250 and \$500 Deductible Comprehensive for 1993-1996.

Losses are for Full Coverage, \$50, \$100, \$250, \$500 and \$1000 Deductible Comprehensive for 1997-2016.

(b) Data prior to 1999 is for ISO reporting companies only. Data prior to 2004 excludes Non-Standard Business.

NORTH CAROLINA

DERIVATION OF INCURRED-TO-PAID FACTOR (A)

(1)	(2)	(3)	(4)
<u>Year</u>	<u>Incurred Losses</u>	<u>Paid Losses</u>	<u>Factor</u>
2014	1,249,840,873	1,247,398,732	1.002
2015	1,360,242,003	1,351,439,152	1.007
2016	1,657,402,598	1,625,547,859	1.020

(A) Source: Statutory Page 14 Private Passenger Auto Physical
Damage (line 21.1)

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
CALCULATION OF AVERAGE INCREASED LIMITS FACTORS

Year Ending 12/31/2016

Voluntary and Ceded Bodily Injury - 30/60 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) 30/60 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
30/60	246,929,187	1.00	246,929,187	1.00	246,929,187
50/100	283,679,691	1.18	240,406,518	1.18	283,679,691
100/200	8,114,778	1.39	5,837,970	1.39	8,114,778
100/300	421,744,466	1.40	301,246,047	1.40	421,744,466
250/500	125,943,131	1.66	75,869,356	1.66	125,943,131
300/300	36,446,861	1.62	22,498,062	1.62	36,446,860
500/1000	8,065,264	1.85	4,359,602	1.85	8,065,264
1000/1000	3,733,058	1.96	1,904,621	1.96	3,733,057
All Other	10,187,588	1.259	8,091,809	1.259	10,187,588
	1,144,844,024	1.262	907,143,172	1.262	1,144,844,022

Year Ending 12/31/2015

Voluntary and Ceded Bodily Injury - 30/60 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) 30/60 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
30/60	243,893,882	1.00	243,893,882	1.00	243,893,882
50/100	279,317,585	1.18	236,709,818	1.18	279,317,585
100/200	7,338,334	1.39	5,279,377	1.39	7,338,334
100/300	414,047,752	1.40	295,748,394	1.40	414,047,752
250/500	120,278,213	1.66	72,456,755	1.66	120,278,213
300/300	35,601,625	1.62	21,976,312	1.62	35,601,625
500/1000	4,018,141	1.85	2,171,968	1.85	4,018,141
1000/1000	3,397,101	1.96	1,733,215	1.96	3,397,101
All Other	9,989,230	1.258	7,940,564	1.258	9,989,230
	1,117,881,863	1.259	887,910,285	1.259	1,117,881,863

Year Ending 12/31/2014

Voluntary and Ceded Bodily Injury - 30/60 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) 30/60 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
30/60	252,957,772	1.00	252,957,772	1.00	252,957,772
50/100	278,417,595	1.18	235,947,114	1.18	278,417,595
100/200	7,344,828	1.39	5,284,049	1.39	7,344,828
100/300	409,290,696	1.40	292,350,497	1.40	409,290,696
250/500	114,174,149	1.66	68,779,608	1.66	114,174,149
300/300	33,770,674	1.62	20,846,095	1.62	33,770,674
500/1000	7,467,947	1.85	4,036,728	1.85	7,467,947
1000/1000	3,193,432	1.96	1,629,302	1.96	3,193,432
All Other	9,851,531	1.252	7,868,635	1.252	9,851,531
	1,116,468,624	1.255	889,699,800	1.255	1,116,468,624

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
CALCULATION OF AVERAGE INCREASED LIMITS FACTORS

Year Ending 12/31/2016

Voluntary and Ceded Property Damage - \$25,000 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) \$25,000 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
25,000	244,417,077	1.000	244,417,077	1.000	244,417,077
35,000	432,335	1.005	430,184	1.005	432,335
50,000	412,999,360	1.010	408,910,257	1.010	412,999,360
100,000	241,076,466	1.030	234,054,821	1.030	241,076,466
250,000	4,067,749	1.059	3,841,123	1.059	4,067,749
300,000	294,880	1.071	275,331	1.071	294,880
500,000	2,384,644	1.113	2,142,537	1.113	2,384,644
1,000,000	379,989	1.202	316,131	1.202	379,989
All Other	7,530,048	1.013	7,433,414	1.013	7,530,048
	913,582,548	1.013	901,820,875	1.013	913,582,548

Year Ending 12/31/2015

Voluntary and Ceded Property Damage - \$25,000 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) \$25,000 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
25,000	228,109,971	1.000	228,109,971	1.000	228,109,971
35,000	423,020	1.005	420,915	1.005	423,020
50,000	391,344,227	1.010	387,469,532	1.010	391,344,227
100,000	225,155,359	1.030	218,597,436	1.030	225,155,359
250,000	4,285,430	1.059	4,046,676	1.059	4,285,430
300,000	287,657	1.071	268,587	1.071	287,657
500,000	2,212,085	1.113	1,987,498	1.113	2,212,085
1,000,000	382,572	1.202	318,280	1.202	382,573
All Other	7,297,962	1.013	7,204,306	1.013	7,297,962
	859,498,283	1.013	848,423,201	1.013	859,498,284

Year Ending 12/31/2014

Voluntary and Ceded Property Damage - \$25,000 base

Limit Of Liability	(1) Written Premium	(2) Prior ILF	(3) \$25,000 Premium	(4) Current ILF	(5) (3)x(4) T/L Premium
25,000	229,916,060	1.000	229,916,060	1.000	229,916,060
35,000	542,132	1.005	539,435	1.005	542,132
50,000	388,054,105	1.010	384,211,985	1.010	388,054,105
100,000	215,270,454	1.030	209,000,441	1.030	215,270,454
250,000	3,626,139	1.059	3,424,116	1.059	3,626,139
300,000	276,738	1.071	258,392	1.071	276,738
500,000	2,116,869	1.113	1,901,949	1.113	2,116,869
1,000,000	387,582	1.202	322,448	1.202	387,582
All Other	6,997,519	1.013	6,907,719	1.013	6,997,519
	847,187,598	1.013	836,482,545	1.013	847,187,598

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
CALCULATION OF AVERAGE INCREASED LIMITS FACTORS
MEDICAL PAYMENTS

Year Ending 12/31/2016

Voluntary and Ceded Medical Payments - \$500 Base

Limit	(1)	(2)	(3)
	Written Premium	Current ILF	(1)/(2) B/L Premium
\$500	1,860,993	1.00	1,860,993
750	52,684	1.33	39,612
1,000	34,614,486	1.60	21,634,054
2,000	46,370,886	2.34	19,816,618
3,000	425,219	2.79	152,408
5,000	28,960,361	3.38	8,568,154
10,000	8,346,439	3.86	2,162,290
All Other	7,504,988	2.224	3,374,545
Total	128,136,056	2.224	57,608,674

Year Ending 12/31/2015

Voluntary and Ceded Medical Payments - \$500 Base

Limit	(1)	(2)	(3)
	Written Premium	Current ILF	(1)/(2) B/L Premium
\$500	1,570,252	1.00	1,570,252
750	68,205	1.33	51,282
1,000	35,001,121	1.60	21,875,701
2,000	45,272,865	2.34	19,347,378
3,000	479,385	2.79	171,823
5,000	28,854,897	3.38	8,536,952
10,000	8,133,807	3.86	2,107,204
All Other	7,337,920	2.225	3,297,942
Total	126,718,452	2.225	56,958,534

Year Ending 12/31/2014

Voluntary and Ceded Medical Payments - \$500 Base

Limit	(1)	(2)	(3)
	Written Premium	Current ILF	(1)/(2) B/L Premium
\$500	1,262,792	1.00	1,262,792
750	65,591	1.33	49,317
1,000	36,107,109	1.60	22,566,943
2,000	44,977,655	2.34	19,221,220
3,000	461,397	2.79	165,375
5,000	29,377,593	3.38	8,691,596
10,000	7,677,303	3.86	1,988,939
All Other	5,788,121	2.223	2,603,743
Total	125,717,561	2.223	56,549,925

North Carolina Dividends

LIABILITY			
Year	Vol + Ced Manual Earned Prem.	Amount of Dividend	Dividend as % of Vol+Ced Manual Earned Prem.
2011	3,002,962,874	6,348,722	0.21%
2012	3,037,577,749	9,203,570	0.30%
2013	3,089,907,988	11,384,048	0.37%
2014	3,174,775,219	10,791,543	0.34%
2015	3,212,123,717	11,038,054	0.34%
2016	3,311,530,386	9,159,705	0.28%
		6 year average:	0.31%

PHYSICAL DAMAGE				
Year	Standard Manual Earned Prem.	Non-Standard Manual Earned Prem.	Amount of Dividend	Dividend as % of Manual Earned Prem.*
2011	1,446,493,872	413,533,243	3,788,350	0.20%
2012	1,577,447,143	413,035,493	5,593,805	0.28%
2013	1,666,064,292	452,964,103	7,478,696	0.35%
2014	1,769,437,028	514,894,132	7,836,312	0.34%
2015	1,932,298,015	566,110,515	8,120,288	0.33%
2016	2,151,815,355	644,459,438	8,031,384	0.29%
			6 year average:	0.30%

* Manual Earned Premium Includes Standard and Non-Standard business.

North Carolina Net Deviations

AUTO LIABILITY

Voluntary Business

Year	(1) Premium at Rate Bureau Rates	(2) Deviation % From RB Manual Rates	(3) Anticipated Premium (1) x (2)	(4) Amount of Deviation (3) - (1)
2011	2,008,577,158	-19.59%	1,615,096,892	(393,480,266)
2012	2,026,052,770	-20.24%	1,615,979,689	(410,073,081)
2013	2,001,919,347	-21.50%	1,571,506,687	(430,412,660)
2014	1,988,297,739	-22.07%	1,549,480,428	(438,817,311)
2015	2,015,691,242	-21.45%	1,583,325,471	(432,365,771)
2016	2,027,889,689	-20.66%	1,608,927,679	(418,962,010)

Ceded Business

Year	(5) O/T Clean Ceded Premium at Rate Bureau Rates	(6) Deviation % From RB Manual Rates	(7) O/T Clean Ceded Anticipated Premium (5) x (6)	(8) O/T Clean Ceded Amount of Deviation (7) - (5)	(9) Clean Risk Ceded Premium at Rate Bureau Rates	(10) Clean Risk Ceded Anticipated Premium = Col (9)	(11) Clean Risk Ceded Amount of Deviation (10) - (9)
2011	214,507,701	23.20%	264,273,488	49,765,787	385,324,393	385,324,393	0
2012	210,894,239	26.90%	267,624,789	56,730,550	394,348,955	394,348,955	0
2013	193,631,697	24.40%	240,877,831	47,246,134	381,209,992	381,209,992	0
2014	190,729,121	24.50%	237,457,755	46,728,634	358,645,683	358,645,683	0
2015	194,239,262	25.10%	242,993,316	48,754,054	339,189,856	339,189,856	0
2016	185,016,821	27.40%	235,711,429	50,694,608	368,103,876	368,103,876	0

All Liability Business

Year	(12) Total Premium at Rate Bureau Rates (1) + (5) + (9)	(13) Total Anticipated Premium (3) + (7) + (10)	(14) Amount of Deviation (13) - (12)	(15) Clean Risk Recoupment Factor	(16) Recoupment Amount [[((1)+(7)+(9)) x (15)]]	(17) Overall Pct. Deviation ((14)+(16)) / (12)
2011	2,608,409,252	2,264,694,773	(343,714,479)	5.02%	133,440,387	-8.06%
2012	2,631,295,964	2,277,953,433	(353,342,530)	5.53%	148,647,866	-7.78%
2013	2,576,761,036	2,193,594,510	(383,166,526)	5.14%	134,873,969	-9.64%
2014	2,537,672,543	2,145,583,866	(392,088,677)	5.18%	133,871,981	-10.18%
2015	2,549,120,359	2,165,508,643	(383,611,717)	5.18%	134,569,895	-9.77%
2016	2,581,010,385	2,212,742,984	(368,267,401)	4.76%	125,269,158	-9.41%
					6 year average:	-9.14%

Note: This exhibit is based on statistical plan data and Rate Bureau expense call data and reflects the Rate Bureau's best estimate of the information presented.

North Carolina Net Deviations

AUTO PHYSICAL DAMAGE

Year	(1) Std Phy Dam Premium at Rate Bureau Rates	(2) Deviation % From RB Manual Rates	(3) Std Phy Dam Anticipated Premium (1) x (2)	(4) Std Phy Dam Amount of Deviation (3) - (1)
2011	1,233,557,107	-21.03%	974,140,047	(259,417,060)
2012	1,358,876,068	-22.72%	1,050,139,425	(308,736,643)
2013	1,409,829,785	-23.11%	1,084,018,122	(325,811,663)
2014	1,492,323,295	-25.15%	1,117,003,986	(375,319,309)
2015	1,683,935,476	-26.06%	1,245,101,891	(438,833,585)
2016	1,826,853,513	-27.53%	1,323,920,741	(502,932,772)

Year	(5) Non-Std Premium at Rate Bureau Rates	(6) Deviation % From RB Manual Rates	(7) Non-Std Phy Dam Anticipated Premium (5) x (6)	(8) Non-Std Phy Dam Amount of Deviation (7) - (5)
2011	333,947,611	37.97%	460,747,519	126,799,908
2012	364,900,674	46.34%	533,995,646	169,094,972
2013	338,191,569	45.81%	493,117,127	154,925,558
2014	306,526,721	43.47%	439,773,887	133,247,166
2015	333,035,576	43.91%	479,271,497	146,235,921
2016	341,910,729	43.45%	490,470,941	148,560,212

Year	(9) Total Phy Dam Premium at Rate Bureau Rates (1) + (5)	(10) Total Anticipated Premium (3) + (7)	(11) Amount of Deviation (10) - (9)	(12) Overall Pct. Deviation (11) / (9)
2011	1,567,504,718	1,434,887,566	(132,617,152)	-8.46%
2012	1,723,776,742	1,584,135,071	(139,641,671)	-8.10%
2013	1,748,021,354	1,577,135,249	(170,886,105)	-9.78%
2014	1,798,850,016	1,556,777,873	(242,072,143)	-13.46%
2015	2,016,971,052	1,724,373,388	(292,597,664)	-14.51%
2016	2,168,764,242	1,814,391,682	(354,372,560)	-16.34%

6 year average: -11.77%

Note: This exhibit is based on statistical plan data and Rate Bureau expense call data and reflects the Rate Bureau's best estimate of the information presented.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
SUMMARY OF LIABILITY EXPENSE EXPERIENCE - VOLUNTARY AND CEDED BUSINESS

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Premium Written (Manual Level)	\$3,066,345,679	\$3,121,580,486	\$3,205,243,373	\$3,252,526,459	\$3,364,836,972
Premiums Earned (Manual Level)	3,037,577,749	3,089,907,988	3,174,775,219	3,212,123,717	3,311,530,386
Premium Written (Collected Level)	2,595,177,122	2,618,262,987	2,674,847,788	2,735,376,008	2,851,151,440
Premiums Earned (Collected Level)	2,584,430,475	2,608,151,046	2,653,139,661	2,707,520,204	2,813,800,329
Commission & Brokerage	239,994,763	238,832,311	240,892,091	245,314,492	245,154,498
Other Acquisition	242,720,127	248,961,554	253,828,414	264,889,775	274,019,010
General Expenses	182,867,007	189,745,844	188,363,924	192,172,669	195,627,255
Taxes, Licenses, and Fees	59,877,193	60,912,727	53,869,662	61,144,007	66,982,079
Bodily Injury Losses Incurred	1,087,381,536	981,374,641	1,017,941,328	1,098,266,379	1,181,756,874
BI Allocated Loss Adjustment	33,449,796	29,600,480	28,640,305	37,414,522	34,519,093
BI Unallocated Loss Adjustment	142,683,165	136,366,982	140,959,510	151,974,070	165,737,996
Property Damage Losses Incurred	686,767,176	715,390,908	792,420,497	892,841,006	966,482,907
PD Allocated Loss Adjustment	5,822,399	5,098,119	4,238,210	4,901,366	4,715,057
PD Unallocated Loss Adjustment	78,467,874	82,717,589	84,845,302	99,338,306	107,409,249

COMBINED RATIOS

Commission & Brokerage to Written Premium (a)(b)	.092	.091	.090	.090	.086
Other Acquisition to Earned Premium (b)	.094	.095	.096	.098	.097
General Expenses to Earned Premium (b)	.071	.073	.071	.071	.070
Taxes, Licenses, etc. to Written Premium (b)	.023	.023	.020	.022	.023
	<u>BI</u>	<u>PD</u>	<u>BI</u>	<u>PD</u>	<u>BI</u>
Unallocated Loss Adjustment Expenses to Losses + Allocated	.127	.113	.135	.115	.136
	<u>BI</u>	<u>PD</u>	<u>BI</u>	<u>PD</u>	<u>BI</u>
	.127	.113	.135	.115	.136
	<u>BI</u>	<u>PD</u>	<u>BI</u>	<u>PD</u>	<u>BI</u>
	.127	.113	.135	.115	.136

- Notes:
- (a) Since ceded business has a commission and brokerage provision set at 10%, the provision for voluntary business is found by solving the following expression for X:
 $.10 \text{ (percent ceded written premium)} + X \text{ (percent voluntary written premium)} = \text{overall Commission and Brokerage provision.}$
- (b) Ratios are to premiums at collected level.

Source: North Carolina Rate Bureau Expense Call

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
SUMMARY OF PHYSICAL DAMAGE EXPENSE EXPERIENCE - STANDARD BUSINESS

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Premium Written (Collected Level)	\$1,244,234,572	\$1,309,156,267	\$1,353,336,753	\$1,470,562,221	\$1,616,812,173
Premium Earned (Collected Level)	1,225,022,738	1,289,017,197	1,329,355,898	1,433,680,592	1,569,850,225
Commission & Brokerage	113,115,492	117,487,797	122,218,851	130,741,386	136,551,466
Other Acquisition	114,358,406	119,325,182	122,215,872	132,814,067	143,702,922
General Expenses	73,244,892	78,304,752	78,464,407	86,194,716	81,128,828
Taxes, Licenses, and Fees	27,826,214	30,078,065	27,553,114	33,873,687	38,026,307
Losses Incurred	745,956,818	754,442,563	819,814,926	874,108,753	1,061,539,092
All Loss Adjustment Expenses	101,371,155	106,724,539	110,211,229	120,658,207	133,813,292

COMBINED RATIOS

Commission & Brokerage to Written Premium (a)	.091	.090	.090	.089	.084
Other Acquisition to Earned Premium (a)	.093	.093	.092	.093	.092
General Expenses to Earned Premium (a)	.060	.061	.059	.060	.052
Taxes, Licenses, etc. to Written Premium (a)	.022	.023	.020	.023	.024
All Loss Adjustment Expenses to Incurred Losses	.136	.141	.134	.138	.126

Notes:

(a) Ratios are to premiums at collected level.

Source: North Carolina Rate Bureau Expense Call

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
SUMMARY OF PHYSICAL DAMAGE EXPENSE EXPERIENCE - NON-STANDARD BUSINESS

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Premium Written (Collected Level)	\$613,270,943	\$680,596,105	\$761,289,128	\$840,447,347	\$958,781,852
Premium Earned (Collected Level)	592,858,231	661,181,325	737,877,603	816,964,082	922,089,151
Commission & Brokerage	53,730,379	57,457,594	60,167,344	69,910,402	77,867,345
Other Acquisition	47,778,741	55,912,893	65,530,561	74,299,027	82,669,818
General Expenses	40,485,033	44,695,699	48,047,369	54,328,851	58,668,382
Taxes, Licenses, and Fees	14,229,103	15,206,059	14,709,947	18,211,679	27,979,059
Losses Incurred	327,310,669	352,614,873	398,907,500	454,006,775	556,267,180
All Loss Adjustment Expenses	42,255,059	45,533,387	51,168,369	59,459,236	68,550,398

COMBINED RATIOS

Commission & Brokerage to Written Premium (a)	.088	.084	.079	.083	.081
Other Acquisition to Earned Premium (a)	.081	.085	.089	.091	.090
General Expenses to Earned Premium (a)	.068	.068	.065	.067	.064
Taxes, Licenses, etc. to Written Premium (a)	.023	.022	.019	.022	.029
All Loss Adjustment Expenses to Incurred Losses	.129	.129	.128	.131	.123

Notes:

(a) Ratios are to premiums at collected level.

Source: North Carolina Rate Bureau Expense Call

NORTH CAROLINA
MOTORCYCLE INSURANCE
SUMMARY OF LIABILITY EXPENSE EXPERIENCE - VOLUNTARY AND CEDED BUSINESS

<u>Item</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Premiums Written at Manual Level	\$38,268,316	\$40,069,081	\$39,944,877	\$41,432,514	\$43,560,721
Premiums Earned at Manual Level	37,224,867	39,042,047	39,348,797	40,345,523	42,087,690
Premiums Written (Collected Level)	35,388,769	36,433,306	35,874,883	37,502,864	39,663,017
Premiums Earned (Collected Level)	34,958,994	35,879,108	35,866,428	36,917,703	38,398,817
Commission & Brokerage	2,871,956	2,861,105	2,804,396	2,837,910	3,021,504
Other Acquisition	3,427,876	3,722,640	3,783,652	3,829,897	4,383,598
General Expenses	3,029,845	3,215,871	3,012,328	3,250,704	3,702,191
Taxes, Licenses, and Fees	755,401	787,176	775,242	719,336	925,113
Losses Incurred	17,604,662	18,032,442	17,765,947	17,887,781	16,670,219
Allocated Loss Adjustment	469,193	870,736	581,885	308,934	228,166
Unallocated Loss Adjustment	2,319,990	2,472,560	2,159,281	2,514,390	2,319,734

COMBINED RATIOS

Commission & Brokerage to Written Premium (a)	.081	.079	.078	.076	.076
Other Acquisition to Earned Premium (a)	.098	.104	.105	.104	.114
General Expenses to Earned Premium (a)	.087	.090	.084	.088	.096
Taxes, Licenses, etc. to Written Premium (a)	.021	.022	.022	.019	.023
Unallocated Loss Adjustment to Losses and Allocated	.128	.131	.118	.138	.137

Notes:

(a) Ratios are to premiums at collected level.

Source: North Carolina Rate Bureau Expense Call

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF TREND FOR EXPENSES

	<u>ALL ITEMS CPI INDEX</u>	<u>ALL ITEMS - LESS ENERGY CPI INDEX</u>	<u>COMPENSATION COST INDEX</u>
Oct-13	233.5	234.9	
Nov-13	233.1	234.9	120.9
Dec-13	233.0	234.8	
Jan-14	233.9	235.2	
Feb-14	234.8	235.9	121.5
Mar-14	236.3	236.8	
Apr-14	237.1	237.4	
May-14	237.9	238.0	122.6
Jun-14	238.3	238.1	
Jul-14	238.3	238.2	
Aug-14	237.9	238.5	122.2
Sep-14	238.0	239.0	
Oct-14	237.4	239.6	
Nov-14	236.2	239.5	122.6
Dec-14	234.8	239.2	
Jan-15	233.7	239.7	
Feb-15	234.7	240.4	123.7
Mar-15	236.1	241.1	
Apr-15	236.6	241.8	
May-15	237.8	242.0	124.7
Jun-15	238.6	242.3	
Jul-15	238.7	242.4	
Aug-15	238.3	242.7	125.0
Sep-15	237.9	243.5	
Oct-15	237.8	244.1	
Nov-15	237.3	244.0	126.1
Dec-15	236.5	243.7	
Jan-16	236.9	244.5	
Feb-16	237.1	245.5	126.9
Mar-16	238.1	245.9	
Apr-16	239.3	246.5	
May-16	240.2	246.9	128.2
Jun-16	241.0	247.1	
Jul-16	240.6	247.0	
Aug-16	240.8	247.5	129.5
Sep-16	241.4	247.9	
Oct-16	241.7	248.4	
Nov-16	241.4	248.3	129.5
Dec-16	241.4	248.2	
Jan-17	242.8	249.1	
Feb-17	243.6	250.1	130.8
Mar-17	243.8	250.3	
Apr-17	244.5	250.7	
May-17	244.7	250.9	132.8
Jun-17	245.0	251.0	
Jul-17	244.8	251.0	
Aug-17	245.5	251.5	132.5
Sep-17	246.8	252.0	

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF TREND FOR EXPENSES

	<u>All Items (A)</u>	<u>All Items - Less Energy (B)</u>	<u>CCI (C)</u>	<u>Combined (D)</u>
(1) Annual Change in indices based on exponential curve of best fit for the latest 48 points (or 16 quarters)	1.15%	1.86%	2.61%	2.06%
(2) Annual Change in indices based on exponential curve of best fit for the latest 36 points (or 12 quarters)	1.55%	1.84%	2.97%	2.33%
(3) Annual Change in indices based on exponential curve of best fit for the latest 24 points (or 8 quarters)	2.12%	1.75%	3.07%	2.50%
(4) Annual Change in indices based on exponential curve of best fit for the latest 12 points (or 4 quarters)	2.29%	1.70%	3.41%	2.70%
(5) Average Annual Index (E)				
Year Ended 3/31/2015	236.70	239.06	122.78	
Year Ended 9/30/2015	236.73	241.18	124.00	
Year Ended 3/31/2016	237.63	243.53	125.68	
Year Ended 9/30/2016	238.92	245.88	127.68	
Year Ended 3/31/2017	241.50	248.11	129.50	
Year Ended 9/30/2017	243.83	250.13	131.40	
(6) Current Cost Factor (Index Value Divided by Average Annual Index)				
Year Ended 3/31/2015	1.04	1.05	1.08	1.06
Year Ended 9/30/2015	1.04	1.04	1.07	1.06
Year Ended 3/31/2016	1.04	1.03	1.05	1.04
Year Ended 9/30/2016	1.03	1.02	1.04	1.03
Year Ended 3/31/2017	1.02	1.02	1.02	1.02
Year Ended 9/30/2017	1.01	1.01	1.01	1.01

Notes: (A) All items CPI index (urban). Source: Bureau of Labor Statistics.

(B) All items less energy CPI index (urban). Source: Bureau of Labor Statistics.

(C) Total Compensation Cost Index - Insurance Carriers, Agent Brokers, and Service.
Source: Bureau of Labor Statistics.

(D) Weighted Average determined as .25 (All items) + .25 (All items - Less Energy) + .50 (CCI).

(E) Average year ended index for period shown.

NORTH CAROLINA

EXTERNAL EXPENSE TREND SUMMARY

AVERAGE ANNUAL RATES OF CHANGE
DATA ENDED SEPTEMBER 2017

ALL ITEMS CONSUMER PRICE INDEX

	STRAIGHT LINE		<u>EXPONENTIAL</u>
	<u>END POINT</u>	<u>MID POINT</u>	
48 points	1.12%	1.15%	1.15%
36 points	1.51%	1.54%	1.55%
24 points	2.06%	2.10%	2.12%
12 points	2.25%	2.27%	2.29%

ALL ITEMS - LESS ENERGY CONSUMER PRICE INDEX

	STRAIGHT LINE		<u>EXPONENTIAL</u>
	<u>END POINT</u>	<u>MID POINT</u>	
48 points	1.80%	1.84%	1.86%
36 points	1.78%	1.82%	1.84%
24 points	1.70%	1.74%	1.75%
12 points	1.67%	1.68%	1.70%

COMPENSATION COST INDEX

	STRAIGHT LINE		<u>EXPONENTIAL</u>
	<u>END POINT</u>	<u>MID POINT</u>	
16 points	2.47%	2.59%	2.61%
12 points	2.82%	2.93%	2.97%
8 points	2.94%	3.02%	3.07%
4 points	3.31%	3.35%	3.41%

NORTH CAROLINA

EXTERNAL EXPENSE TREND SUMMARY
CORRELATION COEFFICIENTS
DATA ENDED SEPTEMBER 2017

ALL ITEMS CONSUMER PRICE INDEX

	STRAIGHT LINE	EXPONENTIAL
48 points	0.89	0.89
36 points	0.94	0.94
24 points	0.98	0.98
12 points	0.97	0.97

ALL ITEMS - LESS ENERGY CONSUMER PRICE INDEX

	STRAIGHT LINE	EXPONENTIAL
48 points	1.00	1.00
36 points	1.00	1.00
24 points	0.99	0.99
12 points	0.96	0.96

COMPENSATION COST INDEX

	STRAIGHT LINE	EXPONENTIAL
16 points	0.99	0.99
12 points	0.99	0.99
8 points	0.98	0.98
4 points	0.92	0.92

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST		(6) <u>PAID LOSSES</u>	(7) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>			(8) <u>ACTUAL (6)/(7)</u>	(9) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
<u>BODILY INJURY (30/60 LIMIT)</u>					<u>PROPERTY DAMAGE (TOTAL LIMITS)</u>			
Sep-11	\$703,551,002	98,679	\$7,130	\$6,597.72	\$626,215,679	253,439	\$2,471	\$2,394.99
Dec-11	703,071,143	97,911	7,181	6,632.69	632,173,672	253,935	2,490	2,434.60
Mar-12	713,944,086	98,742	7,230	6,667.86	641,698,879	257,099	2,496	2,474.87
Jun-12	715,115,626	99,074	7,218	6,703.21	655,130,410	260,424	2,516	2,515.80
Sep-12	705,035,301	98,504	7,157	6,738.74	661,101,397	261,587	2,527	2,557.42
Dec-12	705,282,627	98,915	7,130	6,774.47	664,390,846	260,644	2,549	2,599.72
Mar-13	700,866,727	99,154	7,068	6,810.38	670,334,152	258,476	2,593	2,642.72
Jun-13	697,298,931	99,006	7,043	6,846.48	682,798,589	257,302	2,654	2,686.43
Sep-13	696,701,673	99,276	7,018	6,882.78	697,802,740	259,642	2,688	2,730.86
Dec-13	688,773,357	98,402	7,000	6,919.27	704,589,023	260,405	2,706	2,776.03
Mar-14	667,330,624	96,013	6,950	6,955.95	705,534,642	261,716	2,696	2,821.95
Jun-14	668,441,987	96,356	6,937	6,992.82	716,802,956	267,974	2,675	2,868.62
Sep-14	668,104,746	96,011	6,959	7,029.89	726,468,277	270,195	2,689	2,916.07
Dec-14	677,501,412	97,200	6,970	7,067.16	747,696,281	277,300	2,696	2,964.30
Mar-15	697,056,357	100,165	6,959	7,104.63	771,644,062	281,867	2,738	3,013.33
Jun-15	704,059,123	101,811	6,915	7,142.29	788,343,594	284,042	2,775	3,063.17
Sep-15	710,045,595	103,695	6,847	7,180.15	809,166,822	289,048	2,799	3,113.84
Dec-15	714,139,362	105,300	6,782	7,218.22	826,756,305	292,372	2,828	3,165.34
Mar-16	725,405,911	105,960	6,846	7,256.49	856,600,895	296,572	2,888	3,217.70
Jun-16	741,137,649	107,756	6,878	7,294.95	887,184,071	303,653	2,922	3,270.92
Sep-16	761,371,373	108,001	7,050	7,333.63	911,644,593	304,790	2,991	3,325.02
Dec-16	778,934,885	107,693	7,233	7,372.50	937,693,884	304,271	3,082	3,380.01
Mar-17	800,127,094	108,932	7,345	7,411.59	957,174,130	303,905	3,150	3,435.92
Jun-17	803,807,124	108,878	7,383	7,450.88	971,987,427	303,118	3,207	3,492.75

(10)RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:	<u>BODILY INJURY</u>		<u>PROPERTY DAMAGE</u>
		6-points	7.1%
	9-points	4.3%	7.9%
	12-points	2.1%	6.8%
	15-points	1.3%	5.3%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

ALL CARRIERS

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST		(6) PAID LOSSES	(7) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)			(8) ACTUAL (6)/(7)	(9) EXPONENTIAL CURVE OF BEST FIT (A)
<u>BODILY INJURY (30/60 EXCESS)</u>					<u>BODILY INJURY (TOTAL LIMITS)</u>			
Sep-11	\$128,234,158	98,679	\$1,300	\$1,276.42	\$831,785,160	98,679	\$8,429	\$7,872.69
Dec-11	127,239,220	97,911	1,300	1,277.98	830,310,363	97,911	8,480	7,909.52
Mar-12	131,659,884	98,742	1,333	1,279.54	845,603,970	98,742	8,564	7,946.53
Jun-12	137,429,352	99,074	1,387	1,281.11	852,544,978	99,074	8,605	7,983.71
Sep-12	135,550,961	98,504	1,376	1,282.67	840,586,262	98,504	8,534	8,021.07
Dec-12	136,560,172	98,915	1,381	1,284.24	841,842,799	98,915	8,511	8,058.60
Mar-13	132,380,763	99,154	1,335	1,285.81	833,247,490	99,154	8,404	8,096.31
Jun-13	129,401,379	99,006	1,307	1,287.38	826,700,310	99,006	8,350	8,134.19
Sep-13	123,994,422	99,276	1,249	1,288.96	820,696,095	99,276	8,267	8,172.25
Dec-13	126,131,563	98,402	1,282	1,290.53	814,904,920	98,402	8,281	8,210.49
Mar-14	124,359,255	96,013	1,295	1,292.11	791,689,879	96,013	8,246	8,248.91
Jun-14	124,377,219	96,356	1,291	1,293.69	792,819,206	96,356	8,228	8,287.50
Sep-14	126,942,570	96,011	1,322	1,295.27	795,047,316	96,011	8,281	8,326.28
Dec-14	127,243,899	97,200	1,309	1,296.86	804,745,311	97,200	8,279	8,365.24
Mar-15	127,656,475	100,165	1,274	1,298.44	824,712,832	100,165	8,234	8,404.38
Jun-15	127,782,927	101,811	1,255	1,300.03	831,842,050	101,811	8,170	8,443.71
Sep-15	125,219,711	103,695	1,208	1,301.62	835,265,306	103,695	8,055	8,483.22
Dec-15	136,414,769	105,300	1,295	1,303.21	850,554,131	105,300	8,077	8,522.91
Mar-16	140,935,094	105,960	1,330	1,304.80	866,341,005	105,960	8,176	8,562.79
Jun-16	144,410,573	107,756	1,340	1,306.40	885,548,222	107,756	8,218	8,602.85
Sep-16	147,425,361	108,001	1,365	1,308.00	908,796,734	108,001	8,415	8,643.11
Dec-16	134,388,297	107,693	1,248	1,309.60	913,323,182	107,693	8,481	8,683.55
Mar-17	140,439,757	108,932	1,289	1,311.20	940,566,851	108,932	8,634	8,724.18
Jun-17	142,324,221	108,878	1,307	1,312.80	946,131,345	108,878	8,690	8,765.00
					<u>30/60 EXCESS</u>		<u>TOTAL LIMITS</u>	
(10)RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:					6-points	-3.3%	5.4%	
					9-points	2.1%	4.0%	
					12-points	0.5%	1.9%	
					15-points	0.4%	1.1%	

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN MEDICAL PAYMENTS CLAIM COSTS

ALL CARRIERS

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)
Sep-11	\$98,077,720	62,745	\$1,563	\$1,570.56
Dec-11	97,617,841	62,695	1,557	1,577.57
Mar-12	98,667,891	62,160	1,587	1,584.61
Jun-12	97,745,237	61,140	1,599	1,591.69
Sep-12	98,670,088	61,057	1,616	1,598.79
Dec-12	100,085,269	61,009	1,641	1,605.93
Mar-13	98,458,710	60,001	1,641	1,613.10
Jun-13	99,121,144	59,656	1,662	1,620.30
Sep-13	98,277,332	59,209	1,660	1,627.53
Dec-13	96,970,702	58,897	1,646	1,634.79
Mar-14	95,094,732	57,995	1,640	1,642.09
Jun-14	94,240,741	57,751	1,632	1,649.42
Sep-14	94,024,779	57,600	1,632	1,656.79
Dec-14	94,343,918	57,896	1,630	1,664.18
Mar-15	96,162,843	59,444	1,618	1,671.61
Jun-15	96,719,818	59,340	1,630	1,679.07
Sep-15	97,207,169	59,546	1,632	1,686.57
Dec-15	98,399,455	60,118	1,637	1,694.10
Mar-16	100,335,388	60,348	1,663	1,701.66
Jun-16	102,649,344	62,149	1,652	1,709.25
Sep-16	105,474,057	63,373	1,664	1,716.88
Dec-16	107,524,657	64,022	1,679	1,724.55
Mar-17	109,423,420	64,804	1,689	1,732.25
Jun-17	111,620,075	65,104	1,714	1,739.98

(10) RATE OF CHANGE IN PAID CLAIM COSTS FOR
ANY 12 MONTH INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

MEDICAL
PAYMENTS

6-points	2.6%
9-points	2.4%
12-points	1.8%
15-points	1.1%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES (A)

ALL CARRIERS

(1)	(2)	(3)	(4)	(5)	(6)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	<u>PAID CLAIM FREQ (2)/(3)</u>	<u>PAID CLAIMS</u>	<u>PAID CLAIM FREQ (5)/(3)</u>
			<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>	
Sep-11	7,051,449	98,679	1.3994	253,439	3.5941
Dec-11	7,062,064	97,911	1.3864	253,935	3.5958
Mar-12	7,083,192	98,742	1.3940	257,099	3.6297
Jun-12	7,103,021	99,074	1.3948	260,424	3.6664
Sep-12	7,125,675	98,504	1.3824	261,587	3.6710
Dec-12	7,155,113	98,915	1.3824	260,644	3.6428
Mar-13	7,189,367	99,154	1.3792	258,476	3.5953
Jun-13	7,216,985	99,006	1.3718	257,302	3.5652
Sep-13	7,243,480	99,276	1.3706	259,642	3.5845
Dec-13	7,255,693	98,402	1.3562	260,405	3.5890
Mar-14	7,260,802	96,013	1.3223	261,716	3.6045
Jun-14	7,271,158	96,356	1.3252	267,974	3.6854
Sep-14	7,289,619	96,011	1.3171	270,195	3.7066
Dec-14	7,326,504	97,200	1.3267	277,300	3.7849
Mar-15	7,366,273	100,165	1.3598	281,867	3.8265
Jun-15	7,409,622	101,811	1.3740	284,042	3.8334
Sep-15	7,455,681	103,695	1.3908	289,048	3.8769
Dec-15	7,500,649	105,300	1.4039	292,372	3.8980
Mar-16	7,542,423	105,960	1.4049	296,572	3.9321
Jun-16	7,586,090	107,756	1.4204	303,653	4.0028
Sep-16	7,627,580	108,001	1.4159	304,790	3.9959
Dec-16	7,671,704	107,693	1.4038	304,271	3.9661
Mar-17	7,716,197	108,932	1.4117	303,905	3.9385
Jun-17	7,786,458	108,878	1.3983	303,118	3.8929

(5) RATE OF CHANGE IN PAID

CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>B.I.</u>	<u>P.D.</u>
6-points	-0.6%	-1.2%
9-points	0.8%	1.1%
12-points	2.3%	2.1%
15-points	2.1%	2.9%
24-points	0.3%	2.1%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES (A)

ALL CARRIERS

(1)	(2)	(3)	(4)
YEAR ENDED	EARNED EXPOSURES	PAID CLAIMS	PAID CLAIM FREQ (2)/(3)

MEDICAL PAYMENTS

Sep-11	5,071,399	62,745	1.2372
Dec-11	5,073,060	62,695	1.2358
Mar-12	5,079,069	62,160	1.2238
Jun-12	5,084,376	61,140	1.2025
Sep-12	5,090,941	61,057	1.1993
Dec-12	5,098,445	61,009	1.1966
Mar-13	5,105,651	60,001	1.1752
Jun-13	5,112,132	59,656	1.1669
Sep-13	5,125,442	59,209	1.1552
Dec-13	5,137,994	58,897	1.1463
Mar-14	5,151,887	57,995	1.1257
Jun-14	5,164,882	57,751	1.1181
Sep-14	5,173,457	57,600	1.1134
Dec-14	5,188,073	57,896	1.1159
Mar-15	5,201,656	59,444	1.1428
Jun-15	5,217,356	59,340	1.1374
Sep-15	5,236,046	59,546	1.1372
Dec-15	5,254,719	60,118	1.1441
Mar-16	5,272,178	60,348	1.1447
Jun-16	5,289,390	62,149	1.1750
Sep-16	5,302,879	63,373	1.1951
Dec-16	5,316,284	64,022	1.2043
Mar-17	5,328,303	64,804	1.2162
Jun-17	5,354,220	65,104	1.2159

(5) RATE OF CHANGE IN PAID
CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>MEDICAL PAYMENTS</u>
6-points	4.8%
9-points	4.2%
12-points	3.5%
15-points	2.5%
24-points	-0.5%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ALL CARRIERS

BODILY INJURY 30/60 BASIC

COST	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
15 points	1.2%	1.3%	1.3%
12 points	2.1%	2.2%	2.1%
9 points	4.1%	4.3%	4.3%
6 points	6.6%	6.8%	7.1%

FREQ	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
24 points	0.3%	0.3%	0.3%
15 points	2.0%	2.1%	2.1%
12 points	2.2%	2.3%	2.3%
9 points	0.8%	0.8%	0.8%
6 points	-0.6%	-0.6%	-0.6%

PROPERTY DAMAGE TOTAL LIMITS

COST	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
15 points	4.8%	5.3%	5.3%
12 points	6.1%	6.6%	6.8%
9 points	7.1%	7.7%	7.9%
6 points	8.4%	8.9%	9.3%

FREQ	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
24 points	1.9%	2.1%	2.1%
15 points	2.7%	2.8%	2.9%
12 points	2.0%	2.0%	2.1%
9 points	1.0%	1.1%	1.1%
6 points	-1.2%	-1.2%	-1.2%

MEDICAL PAYMENTS TOTAL LIMITS

COST	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
15 points	1.1%	1.1%	1.1%
12 points	1.7%	1.8%	1.8%
9 points	2.3%	2.4%	2.4%
6 points	2.6%	2.6%	2.6%

FREQ	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
24 points	-0.5%	-0.5%	-0.5%
15 points	2.3%	2.5%	2.5%
12 points	3.3%	3.4%	3.5%
9 points	3.9%	4.1%	4.2%
6 points	4.6%	4.7%	4.8%

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ALL CARRIERS

BODILY INJURY 30/60 EXCESS

COST	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
15 points	0.4%	0.4%	0.4%
12 points	0.5%	0.5%	0.5%
9 points	2.0%	2.0%	2.1%
6 points	-3.4%	-3.4%	-3.3%

BODILY INJURY TOTAL LIMITS

COST	STRAIGHT LINE		EXPONENTIAL
	END POINT	MID POINT	
15 points	1.1%	1.1%	1.1%
12 points	1.8%	1.9%	1.9%
9 points	3.7%	3.9%	4.0%
6 points	5.1%	5.3%	5.4%

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ALL CARRIERS

BODILY INJURY 30/60 BASIC

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.56	0.55
12 points	0.68	0.68
9 points	0.88	0.88
6 points	0.98	0.98

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	0.24	0.24
15 points	0.85	0.85
12 points	0.83	0.83
9 points	0.56	0.56
6 points	-0.46	-0.46

PROPERTY DAMAGE TOTAL LIMITS

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.94	0.95
12 points	0.98	0.98
9 points	0.99	0.99
6 points	0.99	0.99

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	0.89	0.89
15 points	0.90	0.90
12 points	0.80	0.80
9 points	0.50	0.51
6 points	-0.54	-0.54

MEDICAL PAYMENTS TOTAL LIMITS

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.78	0.78
12 points	0.92	0.92
9 points	0.96	0.96
6 points	0.91	0.91

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.25	-0.25
15 points	0.87	0.87
12 points	0.96	0.96
9 points	0.96	0.96
6 points	0.94	0.94

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ALL CARRIERS

BODILY INJURY 30/60 EXCESS

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.14	0.13
12 points	0.13	0.13
9 points	0.36	0.37
6 points	-0.50	-0.49

BODILY INJURY TOTAL LIMITS

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.57	0.57
12 points	0.69	0.69
9 points	0.93	0.93
6 points	0.99	0.99

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
FULL COVERAGE COMPREHENSIVE				
Sep-11	\$10,320,642	23,838	\$433	\$406.45
Dec-11	10,109,786	23,674	427	410.32
Mar-12	10,054,965	23,068	436	414.23
Jun-12	9,582,789	21,906	437	418.18
Sep-12	9,436,953	20,875	452	422.17
Dec-12	9,343,130	20,190	463	426.19
Mar-13	9,063,766	19,759	459	430.25
Jun-13	8,779,796	19,698	446	434.35
Sep-13	8,718,789	19,781	441	438.49
Dec-13	8,719,372	19,580	445	442.67
Mar-14	8,952,562	19,931	449	446.89
Jun-14	9,455,748	21,233	445	451.15
Sep-14	9,296,050	21,052	442	455.45
Dec-14	9,235,817	21,363	432	459.79
Mar-15	9,126,152	21,138	432	464.17
Jun-15	8,778,055	20,396	430	468.60
Sep-15	9,152,614	20,565	445	473.06
Dec-15	9,279,232	20,351	456	477.57
Mar-16	9,602,286	21,041	456	482.12
Jun-16	9,581,030	20,577	466	486.72
Sep-16	9,413,011	19,964	471	491.36
Dec-16	9,166,356	19,610	467	496.04
Mar-17	8,770,224	18,651	470	500.77
Jun-17	8,627,049	18,122	476	505.54

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	2.7%
9-points	4.4%
12-points	3.9%
15-points	2.4%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$50 DEDUCTIBLE COMPREHENSIVE				
Sep-11	\$1,156,735	2,950	\$392	\$287.74
Dec-11	1,135,679	2,888	393	293.96
Mar-12	1,085,662	2,756	394	300.31
Jun-12	976,099	2,614	373	306.79
Sep-12	944,005	2,449	385	313.42
Dec-12	935,666	2,387	392	320.18
Mar-13	890,666	2,355	378	327.10
Jun-13	890,554	2,359	378	334.16
Sep-13	847,541	2,404	353	341.38
Dec-13	839,381	2,339	359	348.75
Mar-14	944,632	2,432	388	356.28
Jun-14	916,363	2,529	362	363.98
Sep-14	879,686	2,453	359	371.84
Dec-14	854,310	2,486	344	379.87
Mar-15	762,059	2,463	309	388.07
Jun-15	804,027	2,402	335	396.45
Sep-15	851,673	2,424	351	405.01
Dec-15	863,700	2,379	363	413.76
Mar-16	904,666	2,377	381	422.69
Jun-16	853,025	2,284	373	431.82
Sep-16	866,868	2,234	388	441.15
Dec-16	870,072	2,220	392	450.67
Mar-17	866,547	2,137	405	460.40
Jun-17	891,908	2,069	431	470.35

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	10.5%
9-points	11.3%
12-points	8.9%
15-points	4.4%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$100 DEDUCTIBLE COMPREHENSIVE				
Sep-11	\$8,381,487	18,343	\$457	\$405.09
Dec-11	8,530,338	18,470	462	409.97
Mar-12	8,400,051	17,748	473	414.91
Jun-12	7,889,781	16,807	469	419.90
Sep-12	7,543,205	15,734	479	424.96
Dec-12	7,113,624	14,962	475	430.07
Mar-13	7,091,834	14,680	483	435.25
Jun-13	7,056,260	14,724	479	440.49
Sep-13	6,787,338	14,494	468	445.80
Dec-13	6,572,215	14,307	459	451.17
Mar-14	6,526,310	14,762	442	456.60
Jun-14	6,747,852	15,694	430	462.10
Sep-14	6,794,908	15,771	431	467.66
Dec-14	6,865,584	15,991	429	473.29
Mar-15	6,972,727	15,764	442	478.99
Jun-15	6,952,765	15,151	459	484.76
Sep-15	7,237,719	15,465	468	490.60
Dec-15	7,376,125	15,388	479	496.51
Mar-16	7,458,851	15,875	470	502.49
Jun-16	7,294,544	15,563	469	508.54
Sep-16	7,302,182	15,409	474	514.66
Dec-16	7,244,544	15,144	478	520.86
Mar-17	7,125,646	14,613	488	527.13
Jun-17	7,176,253	14,446	497	533.48

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	4.8%
9-points	3.0%
12-points	4.9%
15-points	3.6%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$250 DEDUCTIBLE COMPREHENSIVE				
Sep-11	\$4,092,325	6,798	\$602	\$437.63
Dec-11	4,302,747	7,007	614	447.41
Mar-12	4,208,537	6,789	620	457.42
Jun-12	3,887,950	6,512	597	467.64
Sep-12	3,642,361	6,030	604	478.10
Dec-12	3,375,636	5,783	584	488.79
Mar-13	3,445,148	5,732	601	499.72
Jun-13	3,445,985	5,800	594	510.89
Sep-13	3,339,862	5,847	571	522.31
Dec-13	3,286,290	5,805	566	533.99
Mar-14	3,217,823	6,095	528	545.93
Jun-14	3,323,454	6,671	498	558.13
Sep-14	3,474,140	6,686	520	570.61
Dec-14	3,527,175	6,780	520	583.37
Mar-15	3,522,435	6,638	531	596.41
Jun-15	3,533,577	6,199	570	609.74
Sep-15	3,343,785	6,194	540	623.38
Dec-15	3,313,961	6,212	533	637.31
Mar-16	3,250,892	6,366	511	651.56
Jun-16	3,352,210	6,358	527	666.13
Sep-16	3,617,127	6,402	565	681.02
Dec-16	4,033,414	6,298	640	696.25
Mar-17	4,225,662	6,189	683	711.81
Jun-17	4,086,671	6,132	666	727.73

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	29.0%
9-points	12.7%
12-points	9.2%
15-points	6.1%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$500 DEDUCTIBLE COMPREHENSIVE				
Sep-11	\$5,652,233	5,403	\$1,046	\$701.79
Dec-11	5,913,802	5,743	1,030	734.89
Mar-12	6,039,390	5,787	1,044	769.55
Jun-12	6,383,038	5,767	1,107	805.84
Sep-12	6,154,668	5,262	1,170	843.85
Dec-12	6,016,584	5,078	1,185	883.65
Mar-13	5,786,363	4,870	1,188	925.32
Jun-13	5,613,190	4,892	1,147	968.97
Sep-13	5,483,175	5,052	1,085	1,014.67
Dec-13	5,532,218	4,979	1,111	1,062.52
Mar-14	5,648,925	5,498	1,027	1,112.63
Jun-14	5,736,959	6,559	875	1,165.11
Sep-14	5,754,589	6,404	899	1,220.06
Dec-14	5,828,324	6,524	893	1,277.60
Mar-15	5,950,647	6,156	967	1,337.86
Jun-15	6,078,115	5,140	1,183	1,400.95
Sep-15	6,263,535	5,309	1,180	1,467.03
Dec-15	6,647,924	5,309	1,252	1,536.22
Mar-16	6,749,428	5,446	1,239	1,608.67
Jun-16	6,864,055	5,458	1,258	1,684.54
Sep-16	7,100,608	5,432	1,307	1,763.99
Dec-16	7,121,941	5,306	1,342	1,847.19
Mar-17	7,790,644	5,281	1,475	1,934.30
Jun-17	8,079,592	5,357	1,508	2,025.53

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	18.5%
9-points	13.0%
12-points	20.2%
15-points	14.6%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM COSTS

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)
\$1,000 DEDUCTIBLE COMPREHENSIVE				
Sep-11	\$589,287	498	\$1,183	\$570.02
Dec-11	574,769	500	1,150	609.30
Mar-12	622,368	503	1,237	651.29
Jun-12	609,474	475	1,283	696.18
Sep-12	502,501	420	1,196	744.16
Dec-12	559,486	413	1,355	795.45
Mar-13	505,561	398	1,270	850.27
Jun-13	502,746	437	1,150	908.87
Sep-13	510,430	469	1,088	971.51
Dec-13	445,402	491	907	1,038.46
Mar-14	450,222	549	820	1,110.03
Jun-14	530,779	686	774	1,186.54
Sep-14	615,159	683	901	1,268.31
Dec-14	528,864	692	764	1,355.72
Mar-15	639,268	653	979	1,449.16
Jun-15	602,338	509	1,183	1,549.03
Sep-15	523,310	503	1,040	1,655.79
Dec-15	722,770	503	1,437	1,769.91
Mar-16	651,595	540	1,207	1,891.89
Jun-16	678,172	541	1,254	2,022.28
Sep-16	825,526	568	1,453	2,161.65
Dec-16	771,821	566	1,364	2,310.63
Mar-17	968,715	529	1,831	2,469.88
Jun-17	986,970	556	1,775	2,640.10

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	40.9%
9-points	25.5%
12-points	30.6%
15-points	26.3%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
FULL COVERAGE COMPREHENSIVE			
Sep-11	438,549	23,838	5.4357
Dec-11	438,949	23,674	5.3933
Mar-12	439,362	23,068	5.2503
Jun-12	439,294	21,906	4.9866
Sep-12	438,831	20,875	4.7570
Dec-12	438,109	20,190	4.6084
Mar-13	437,376	19,759	4.5176
Jun-13	436,783	19,698	4.5098
Sep-13	435,978	19,781	4.5372
Dec-13	434,725	19,580	4.5040
Mar-14	433,015	19,931	4.6028
Jun-14	431,011	21,233	4.9263
Sep-14	429,033	21,052	4.9068
Dec-14	427,290	21,363	4.9996
Mar-15	425,746	21,138	4.9649
Jun-15	424,129	20,396	4.8089
Sep-15	422,566	20,565	4.8667
Dec-15	421,477	20,351	4.8285
Mar-16	420,509	21,041	5.0037
Jun-16	417,202	20,577	4.9321
Sep-16	409,798	19,964	4.8717
Dec-16	399,462	19,610	4.9091
Mar-17	389,236	18,651	4.7917
Jun-17	383,236	18,122	4.7287

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-4.0%
9-points	-0.7%
12-points	-1.0%
15-points	0.7%
24-points	-0.6%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$50 DEDUCTIBLE COMPREHENSIVE			
Sep-11	56,836	2,950	5.1904
Dec-11	56,627	2,888	5.1000
Mar-12	56,411	2,756	4.8856
Jun-12	56,114	2,614	4.6584
Sep-12	55,753	2,449	4.3926
Dec-12	55,370	2,387	4.3110
Mar-13	54,974	2,355	4.2838
Jun-13	54,563	2,359	4.3234
Sep-13	54,108	2,404	4.4430
Dec-13	53,625	2,339	4.3618
Mar-14	53,049	2,432	4.5844
Jun-14	52,449	2,529	4.8218
Sep-14	51,899	2,453	4.7265
Dec-14	51,348	2,486	4.8415
Mar-15	50,699	2,463	4.8581
Jun-15	49,775	2,402	4.8257
Sep-15	48,652	2,424	4.9823
Dec-15	47,514	2,379	5.0069
Mar-16	46,538	2,377	5.1077
Jun-16	45,842	2,284	4.9823
Sep-16	45,293	2,234	4.9323
Dec-16	44,787	2,220	4.9568
Mar-17	44,324	2,137	4.8213
Jun-17	43,915	2,069	4.7114

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-5.5%
9-points	-1.6%
12-points	0.3%
15-points	2.0%
24-points	1.1%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$100 DEDUCTIBLE COMPREHENSIVE			
Sep-11	378,746	18,343	4.8431
Dec-11	379,257	18,470	4.8700
Mar-12	379,735	17,748	4.6738
Jun-12	379,694	16,807	4.4265
Sep-12	379,517	15,734	4.1458
Dec-12	379,148	14,962	3.9462
Mar-13	378,470	14,680	3.8788
Jun-13	377,888	14,724	3.8964
Sep-13	377,077	14,494	3.8438
Dec-13	376,077	14,307	3.8043
Mar-14	375,061	14,762	3.9359
Jun-14	373,884	15,694	4.1976
Sep-14	373,083	15,771	4.2272
Dec-14	372,750	15,991	4.2900
Mar-15	373,461	15,764	4.2211
Jun-15	375,338	15,151	4.0366
Sep-15	377,003	15,465	4.1021
Dec-15	378,035	15,388	4.0705
Mar-16	378,135	15,875	4.1982
Jun-16	375,314	15,563	4.1467
Sep-16	369,274	15,409	4.1728
Dec-16	364,652	15,144	4.1530
Mar-17	363,522	14,613	4.0198
Jun-17	365,424	14,446	3.9532

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-4.5%
9-points	-0.7%
12-points	-1.7%
15-points	0.3%
24-points	-1.6%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$250 DEDUCTIBLE COMPREHENSIVE			
Sep-11	205,915	6,798	3.3014
Dec-11	208,111	7,007	3.3670
Mar-12	210,589	6,789	3.2238
Jun-12	212,961	6,512	3.0578
Sep-12	215,349	6,030	2.8001
Dec-12	217,248	5,783	2.6619
Mar-13	218,368	5,732	2.6249
Jun-13	219,346	5,800	2.6442
Sep-13	220,136	5,847	2.6561
Dec-13	220,973	5,805	2.6270
Mar-14	222,042	6,095	2.7450
Jun-14	223,009	6,671	2.9914
Sep-14	223,979	6,686	2.9851
Dec-14	225,098	6,780	3.0120
Mar-15	226,393	6,638	2.9321
Jun-15	227,953	6,199	2.7194
Sep-15	229,436	6,194	2.6997
Dec-15	230,492	6,212	2.6951
Mar-16	231,103	6,366	2.7546
Jun-16	230,813	6,358	2.7546
Sep-16	229,327	6,402	2.7916
Dec-16	228,124	6,298	2.7608
Mar-17	228,185	6,189	2.7123
Jun-17	229,562	6,132	2.6712

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-2.4%
9-points	0.0%
12-points	-3.3%
15-points	-1.5%
24-points	-2.1%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$500 DEDUCTIBLE COMPREHENSIVE			
Sep-11	349,730	5,403	1.5449
Dec-11	357,189	5,743	1.6078
Mar-12	365,131	5,787	1.5849
Jun-12	373,179	5,767	1.5454
Sep-12	381,691	5,262	1.3786
Dec-12	390,064	5,078	1.3018
Mar-13	397,749	4,870	1.2244
Jun-13	405,569	4,892	1.2062
Sep-13	413,513	5,052	1.2217
Dec-13	421,536	4,979	1.1812
Mar-14	429,910	5,498	1.2789
Jun-14	437,993	6,559	1.4975
Sep-14	445,941	6,404	1.4361
Dec-14	453,834	6,524	1.4375
Mar-15	462,332	6,156	1.3315
Jun-15	471,941	5,140	1.0891
Sep-15	481,799	5,309	1.1019
Dec-15	491,387	5,309	1.0804
Mar-16	500,407	5,446	1.0883
Jun-16	507,386	5,458	1.0757
Sep-16	512,036	5,432	1.0609
Dec-16	517,015	5,306	1.0263
Mar-17	523,884	5,281	1.0080
Jun-17	533,368	5,357	1.0044

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-6.9%
9-points	-4.7%
12-points	-12.0%
15-points	-9.4%
24-points	-7.1%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COMPREHENSIVE CLAIM FREQUENCY

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$1,000 DEDUCTIBLE COMPREHENSIVE			
Sep-11	49,801	498	1.0000
Dec-11	50,769	500	0.9849
Mar-12	51,665	503	0.9736
Jun-12	52,643	475	0.9023
Sep-12	53,802	420	0.7806
Dec-12	55,070	413	0.7500
Mar-13	56,348	398	0.7063
Jun-13	57,610	437	0.7585
Sep-13	58,832	469	0.7972
Dec-13	60,116	491	0.8168
Mar-14	61,528	549	0.8923
Jun-14	63,044	686	1.0881
Sep-14	64,644	683	1.0566
Dec-14	66,240	692	1.0447
Mar-15	67,981	653	0.9606
Jun-15	69,677	509	0.7305
Sep-15	71,096	503	0.7075
Dec-15	72,363	503	0.6951
Mar-16	73,528	540	0.7344
Jun-16	74,736	541	0.7239
Sep-16	76,272	568	0.7447
Dec-16	78,093	566	0.7248
Mar-17	80,117	529	0.6603
Jun-17	82,852	556	0.6711

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-8.3%
9-points	-2.9%
12-points	-14.1%
15-points	-11.2%
24-points	-4.8%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

FULL COVERAGE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	2.3%	2.4%	2.4%
12 points	3.6%	3.8%	3.9%
9 points	4.1%	4.3%	4.4%
6 points	2.6%	2.6%	2.7%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	-0.6%	-0.6%	-0.6%
15 points	0.7%	0.7%	0.7%
12 points	-1.0%	-1.0%	-1.0%
9 points	-0.7%	-0.7%	-0.7%
6 points	-4.2%	-4.1%	-4.0%

\$50 DEDUCTIBLE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	4.1%	4.4%	4.4%
12 points	7.7%	8.6%	8.9%
9 points	9.7%	10.9%	11.3%
6 points	9.5%	10.1%	10.5%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	1.0%	1.0%	1.1%
15 points	1.8%	1.9%	2.0%
12 points	0.3%	0.3%	0.3%
9 points	-1.7%	-1.6%	-1.6%
6 points	-5.9%	-5.7%	-5.5%

\$100 DEDUCTIBLE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	3.4%	3.6%	3.6%
12 points	4.5%	4.7%	4.9%
9 points	2.9%	3.0%	3.0%
6 points	4.5%	4.7%	4.8%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	-1.8%	-1.7%	-1.6%
15 points	0.2%	0.2%	0.3%
12 points	-1.7%	-1.7%	-1.7%
9 points	-0.7%	-0.7%	-0.7%
6 points	-4.7%	-4.5%	-4.5%

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

\$250 DEDUCTIBLE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	5.7%	6.3%	6.1%
12 points	8.2%	9.2%	9.2%
9 points	11.0%	12.6%	12.7%
6 points	21.7%	25.2%	29.0%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	-2.4%	-2.3%	-2.1%
15 points	-1.6%	-1.5%	-1.5%
12 points	-3.6%	-3.4%	-3.3%
9 points	0.0%	0.0%	0.0%
6 points	-2.4%	-2.4%	-2.4%

\$500 DEDUCTIBLE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	11.0%	13.9%	14.6%
12 points	14.3%	17.8%	20.2%
9 points	11.1%	12.6%	13.0%
6 points	15.5%	17.1%	18.5%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	-9.3%	-7.4%	-7.1%
15 points	-12.2%	-9.9%	-9.4%
12 points	-16.4%	-13.4%	-12.0%
9 points	-5.0%	-4.7%	-4.7%
6 points	-7.5%	-7.2%	-6.9%

\$1,000 DEDUCTIBLE COMPREHENSIVE

STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL
15 points	16.7%	24.3%	26.3%
12 points	19.2%	26.2%	30.6%
9 points	18.8%	23.8%	25.5%
6 points	28.4%	34.6%	40.9%

STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL
24 points	-5.5%	-4.8%	-4.8%
15 points	-15.4%	-11.9%	-11.2%
12 points	-21.0%	-16.3%	-14.1%
9 points	-3.0%	-2.9%	-2.9%
6 points	-9.0%	-8.5%	-8.3%

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

FULL COVERAGE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.78	0.77
12 points	0.92	0.92
9 points	0.92	0.92
6 points	0.86	0.86

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.21	-0.19
15 points	0.27	0.28
12 points	-0.52	-0.53
9 points	-0.29	-0.29
6 points	-0.95	-0.95

\$50 DEDUCTIBLE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.60	0.59
12 points	0.87	0.86
9 points	0.97	0.97
6 points	0.91	0.91

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	0.31	0.32
15 points	0.55	0.56
12 points	0.10	0.10
9 points	-0.46	-0.47
6 points	-0.95	-0.95

\$100 DEDUCTIBLE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.84	0.84
12 points	0.93	0.92
9 points	0.86	0.86
6 points	0.95	0.95

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.44	-0.42
15 points	0.08	0.09
12 points	-0.64	-0.64
9 points	-0.25	-0.25
6 points	-0.89	-0.89

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ISO ONLY, EXCLUDING WIND AND WATER AND "ALL OTHER"

\$250 DEDUCTIBLE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.68	0.68
12 points	0.77	0.77
9 points	0.76	0.76
6 points	0.95	0.96

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.52	-0.51
15 points	-0.38	-0.37
12 points	-0.72	-0.72
9 points	0.02	0.01
6 points	-0.72	-0.73

\$500 DEDUCTIBLE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.88	0.86
12 points	0.96	0.95
9 points	0.94	0.95
6 points	0.97	0.97

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.82	-0.84
15 points	-0.78	-0.80
12 points	-0.86	-0.88
9 points	-0.93	-0.93
6 points	-0.98	-0.98

\$1,000 DEDUCTIBLE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.91	0.92
12 points	0.91	0.91
9 points	0.83	0.83
6 points	0.91	0.92

FREQ	STRAIGHT LINE	EXPONENTIAL
24 points	-0.51	-0.54
15 points	-0.73	-0.76
12 points	-0.80	-0.81
9 points	-0.48	-0.49
6 points	-0.80	-0.80

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$50 DEDUCTIBLE COLLISION				
Sep-11	\$6,003,632	2,701	2,223	\$2,465.57
Dec-11	5,932,588	2,699	2,198	2,476.23
Mar-12	6,039,393	2,765	2,184	2,486.93
Jun-12	6,038,250	2,816	2,144	2,497.68
Sep-12	6,220,776	2,822	2,204	2,508.48
Dec-12	6,505,594	2,930	2,220	2,519.32
Mar-13	6,643,816	2,869	2,316	2,530.21
Jun-13	6,941,056	2,981	2,328	2,541.15
Sep-13	7,257,122	3,130	2,319	2,552.14
Dec-13	7,549,066	3,179	2,375	2,563.17
Mar-14	8,333,435	3,438	2,424	2,574.25
Jun-14	8,570,883	3,554	2,412	2,585.37
Sep-14	8,970,771	3,587	2,501	2,596.55
Dec-14	9,136,951	3,662	2,495	2,607.77
Mar-15	9,312,188	3,650	2,551	2,619.05
Jun-15	9,374,820	3,577	2,621	2,630.37
Sep-15	9,437,081	3,603	2,619	2,641.74
Dec-15	9,594,937	3,635	2,640	2,653.16
Mar-16	9,741,957	3,715	2,622	2,664.62
Jun-16	9,722,710	3,799	2,559	2,676.14
Sep-16	10,104,921	3,970	2,545	2,687.71
Dec-16	10,758,075	4,068	2,645	2,699.33
Mar-17	10,695,354	4,080	2,621	2,711.00
Jun-17	11,176,973	4,171	2,680	2,722.71

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	2.5%
9-points	0.4%
12-points	1.7%
15-points	2.9%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)
\$100 DEDUCTIBLE COLLISION				
Sep-11	\$34,497,215	15,126	2,281	\$2,353.11
Dec-11	34,942,978	15,303	2,283	2,381.43
Mar-12	35,181,977	15,268	2,304	2,410.08
Jun-12	35,552,759	15,333	2,319	2,439.08
Sep-12	36,394,974	15,409	2,362	2,468.43
Dec-12	35,603,255	15,002	2,373	2,498.13
Mar-13	35,136,176	14,706	2,389	2,528.19
Jun-13	34,573,086	14,525	2,380	2,558.61
Sep-13	34,849,932	14,508	2,402	2,589.40
Dec-13	34,846,351	14,368	2,425	2,620.55
Mar-14	36,191,445	14,619	2,476	2,652.08
Jun-14	37,192,288	14,714	2,528	2,684.00
Sep-14	36,686,817	14,473	2,535	2,716.29
Dec-14	37,107,992	14,531	2,554	2,748.97
Mar-15	36,367,077	14,127	2,574	2,782.05
Jun-15	36,612,267	14,065	2,603	2,815.53
Sep-15	36,916,928	14,050	2,628	2,849.40
Dec-15	37,812,146	14,078	2,686	2,883.69
Mar-16	38,852,988	14,191	2,738	2,918.39
Jun-16	39,058,240	14,061	2,778	2,953.50
Sep-16	39,394,471	13,974	2,819	2,989.04
Dec-16	39,708,549	13,786	2,880	3,025.01
Mar-17	38,462,943	13,656	2,817	3,061.41
Jun-17	38,401,211	13,622	2,819	3,098.24

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	2.4%
9-points	4.7%
12-points	4.9%
15-points	4.8%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$200 DEDUCTIBLE COLLISION				
Sep-11	\$5,966,989	2,402	2,484	\$2,579.59
Dec-11	5,858,860	2,387	2,454	2,604.46
Mar-12	5,840,811	2,313	2,525	2,629.56
Jun-12	6,236,639	2,334	2,672	2,654.90
Sep-12	6,044,199	2,290	2,639	2,680.49
Dec-12	6,020,924	2,301	2,617	2,706.33
Mar-13	6,094,653	2,265	2,691	2,732.41
Jun-13	5,770,646	2,275	2,537	2,758.75
Sep-13	5,915,660	2,253	2,626	2,785.34
Dec-13	6,160,775	2,245	2,744	2,812.19
Mar-14	6,116,046	2,260	2,706	2,839.29
Jun-14	6,072,350	2,206	2,753	2,866.66
Sep-14	6,069,680	2,229	2,723	2,894.29
Dec-14	6,036,138	2,169	2,783	2,922.18
Mar-15	5,941,278	2,152	2,761	2,950.35
Jun-15	6,196,512	2,148	2,885	2,978.79
Sep-15	5,875,595	2,086	2,817	3,007.50
Dec-15	5,837,653	2,080	2,807	3,036.48
Mar-16	6,006,768	2,066	2,907	3,065.75
Jun-16	5,856,257	2,054	2,851	3,095.30
Sep-16	6,275,845	2,084	3,011	3,125.13
Dec-16	6,400,530	2,119	3,021	3,155.25
Mar-17	6,253,468	2,092	2,989	3,185.67
Jun-17	6,371,697	2,101	3,033	3,216.37

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	4.2%
9-points	3.8%
12-points	3.9%
15-points	3.4%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$250 DEDUCTIBLE COLLISION				
Sep-11	\$220,924,505	87,110	2,536	\$2,534.02
Dec-11	220,678,608	87,164	2,532	2,566.61
Mar-12	216,938,448	85,830	2,528	2,599.61
Jun-12	222,162,768	86,357	2,573	2,633.04
Sep-12	221,007,768	85,283	2,591	2,666.89
Dec-12	218,561,040	83,784	2,609	2,701.19
Mar-13	221,733,122	82,959	2,673	2,735.92
Jun-13	220,641,872	81,735	2,699	2,771.10
Sep-13	222,435,897	81,664	2,724	2,806.74
Dec-13	221,107,173	80,332	2,752	2,842.83
Mar-14	224,543,436	81,207	2,765	2,879.38
Jun-14	224,621,872	81,631	2,752	2,916.41
Sep-14	224,442,792	81,028	2,770	2,953.91
Dec-14	226,885,118	81,730	2,776	2,991.89
Mar-15	223,952,177	80,321	2,788	3,030.37
Jun-15	227,585,030	80,298	2,834	3,069.33
Sep-15	231,417,011	81,461	2,841	3,108.80
Dec-15	239,236,182	82,712	2,892	3,148.78
Mar-16	249,306,277	84,121	2,964	3,189.27
Jun-16	254,291,099	85,216	2,984	3,230.28
Sep-16	262,311,564	85,442	3,070	3,271.81
Dec-16	261,151,220	83,815	3,116	3,313.89
Mar-17	254,678,870	81,912	3,109	3,356.50
Jun-17	251,993,858	80,960	3,113	3,399.66

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	4.5%
9-points	5.7%
12-points	5.2%
15-points	4.3%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$500 DEDUCTIBLE COLLISION				
Sep-11	\$330,500,753	107,227	3,082	\$3,119.69
Dec-11	335,344,810	108,108	3,102	3,147.85
Mar-12	333,126,390	107,663	3,094	3,176.27
Jun-12	343,205,679	109,764	3,127	3,204.95
Sep-12	347,678,748	110,617	3,143	3,233.88
Dec-12	349,264,647	110,897	3,149	3,263.08
Mar-13	365,751,656	112,408	3,254	3,292.54
Jun-13	372,445,279	113,074	3,294	3,322.27
Sep-13	382,148,645	115,329	3,314	3,352.26
Dec-13	388,252,908	117,161	3,314	3,382.53
Mar-14	401,522,637	121,642	3,301	3,413.07
Jun-14	412,922,793	125,379	3,293	3,443.88
Sep-14	419,585,789	126,843	3,308	3,474.97
Dec-14	434,586,889	130,710	3,325	3,506.35
Mar-15	442,769,701	131,882	3,357	3,538.00
Jun-15	453,412,545	133,760	3,390	3,569.95
Sep-15	467,518,256	138,369	3,379	3,602.18
Dec-15	487,513,873	142,596	3,419	3,634.70
Mar-16	505,103,963	145,241	3,478	3,667.51
Jun-16	525,083,383	151,150	3,474	3,700.63
Sep-16	548,354,307	154,048	3,560	3,734.04
Dec-16	567,345,927	156,384	3,628	3,767.75
Mar-17	576,135,836	159,061	3,622	3,801.77
Jun-17	586,262,521	163,117	3,594	3,836.09

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	3.6%
9-points	4.0%
12-points	3.7%
15-points	3.1%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM COSTS

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
\$1,000 DEDUCTIBLE COLLISION				
Sep-11	\$29,394,741	7,111	4,134	\$4,087.69
Dec-11	30,317,006	7,255	4,179	4,125.08
Mar-12	30,363,889	7,203	4,215	4,162.82
Jun-12	32,312,879	7,448	4,338	4,200.90
Sep-12	32,124,661	7,539	4,261	4,239.32
Dec-12	32,028,683	7,536	4,250	4,278.10
Mar-13	33,525,917	7,750	4,326	4,317.24
Jun-13	34,455,414	7,993	4,311	4,356.73
Sep-13	35,936,131	8,276	4,342	4,396.58
Dec-13	36,966,834	8,467	4,366	4,436.80
Mar-14	38,250,902	8,846	4,324	4,477.39
Jun-14	39,264,298	9,105	4,312	4,518.35
Sep-14	41,502,369	9,512	4,363	4,559.68
Dec-14	44,071,162	10,122	4,354	4,601.39
Mar-15	45,321,331	10,379	4,367	4,643.48
Jun-15	47,857,155	10,709	4,469	4,685.96
Sep-15	49,215,588	11,079	4,442	4,728.82
Dec-15	51,708,288	11,484	4,503	4,772.08
Mar-16	54,786,902	11,987	4,571	4,815.73
Jun-16	56,211,355	12,479	4,504	4,859.78
Sep-16	59,908,234	12,999	4,609	4,904.24
Dec-16	65,061,106	13,575	4,793	4,949.10
Mar-17	68,395,240	14,185	4,822	4,994.37
Jun-17	70,940,285	15,087	4,702	5,040.06

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	4.5%
9-points	4.0%
12-points	3.7%
15-points	3.1%

(A) USING THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1) <u>YEAR ENDED</u>	(2) <u>EARNED EXPOSURES</u>	(3) <u>PAID CLAIMS</u>	(4) <u>PAID CLAIM FREQUENCY(A) (2)/(3)</u>
\$50 DEDUCTIBLE COLLISION			
Sep-11	26,855	2,701	10.0577
Dec-11	27,692	2,699	9.7465
Mar-12	28,531	2,765	9.6912
Jun-12	29,296	2,816	9.6122
Sep-12	30,001	2,822	9.4064
Dec-12	30,693	2,930	9.5462
Mar-13	31,370	2,869	9.1457
Jun-13	32,100	2,981	9.2866
Sep-13	32,850	3,130	9.5282
Dec-13	33,575	3,179	9.4684
Mar-14	34,276	3,438	10.0303
Jun-14	34,940	3,554	10.1717
Sep-14	35,636	3,587	10.0657
Dec-14	36,367	3,662	10.0696
Mar-15	37,014	3,650	9.8611
Jun-15	37,464	3,577	9.5478
Sep-15	37,814	3,603	9.5282
Dec-15	38,075	3,635	9.5469
Mar-16	38,390	3,715	9.6770
Jun-16	38,916	3,799	9.7621
Sep-16	39,417	3,970	10.0718
Dec-16	40,002	4,068	10.1695
Mar-17	40,633	4,080	10.0411
Jun-17	41,170	4,171	10.1312

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	3.8%
9-points	3.8%
12-points	0.9%
15-points	0.5%
24-points	0.7%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$100 DEDUCTIBLE COLLISION			
Sep-11	295,970	15,126	5.1107
Dec-11	293,224	15,303	5.2189
Mar-12	291,086	15,268	5.2452
Jun-12	288,829	15,333	5.3087
Sep-12	286,448	15,409	5.3793
Dec-12	284,021	15,002	5.2820
Mar-13	281,551	14,706	5.2232
Jun-13	279,153	14,525	5.2032
Sep-13	276,921	14,508	5.2390
Dec-13	274,708	14,368	5.2303
Mar-14	272,410	14,619	5.3665
Jun-14	270,097	14,714	5.4477
Sep-14	267,723	14,473	5.4060
Dec-14	265,427	14,531	5.4746
Mar-15	263,213	14,127	5.3671
Jun-15	260,687	14,065	5.3954
Sep-15	258,011	14,050	5.4455
Dec-15	254,618	14,078	5.5291
Mar-16	251,001	14,191	5.6538
Jun-16	247,751	14,061	5.6755
Sep-16	244,043	13,974	5.7260
Dec-16	241,285	13,786	5.7136
Mar-17	239,134	13,656	5.7106
Jun-17	237,097	13,622	5.7453

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	1.1%
9-points	3.2%
12-points	2.7%
15-points	2.5%
24-points	1.9%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$200 DEDUCTIBLE COLLISION			
Sep-11	47,307	2,402	5.0775
Dec-11	46,824	2,387	5.0978
Mar-12	46,402	2,313	4.9847
Jun-12	45,977	2,334	5.0765
Sep-12	45,572	2,290	5.0250
Dec-12	45,148	2,301	5.0966
Mar-13	44,726	2,265	5.0642
Jun-13	44,319	2,275	5.1332
Sep-13	43,943	2,253	5.1271
Dec-13	43,575	2,245	5.1520
Mar-14	43,198	2,260	5.2317
Jun-14	42,833	2,206	5.1502
Sep-14	42,438	2,229	5.2524
Dec-14	42,044	2,169	5.1589
Mar-15	41,564	2,152	5.1776
Jun-15	40,943	2,148	5.2463
Sep-15	40,276	2,086	5.1793
Dec-15	39,628	2,080	5.2488
Mar-16	39,068	2,066	5.2882
Jun-16	38,663	2,054	5.3126
Sep-16	38,390	2,084	5.4285
Dec-16	38,189	2,119	5.5487
Mar-17	38,056	2,092	5.4972
Jun-17	37,947	2,101	5.5367

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	4.1%
9-points	3.6%
12-points	2.7%
15-points	2.1%
24-points	1.5%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$250 DEDUCTIBLE COLLISION			
Sep-11	1,691,356	87,110	5.1503
Dec-11	1,681,455	87,164	5.1838
Mar-12	1,676,306	85,830	5.1202
Jun-12	1,670,769	86,357	5.1687
Sep-12	1,665,495	85,283	5.1206
Dec-12	1,659,375	83,784	5.0491
Mar-13	1,652,038	82,959	5.0216
Jun-13	1,643,256	81,735	4.9740
Sep-13	1,634,513	81,664	4.9962
Dec-13	1,624,770	80,332	4.9442
Mar-14	1,615,221	81,207	5.0276
Jun-14	1,606,151	81,631	5.0824
Sep-14	1,597,197	81,028	5.0731
Dec-14	1,590,415	81,730	5.1389
Mar-15	1,583,369	80,321	5.0728
Jun-15	1,575,459	80,298	5.0968
Sep-15	1,573,794	81,461	5.1761
Dec-15	1,575,862	82,712	5.2487
Mar-16	1,581,190	84,121	5.3201
Jun-16	1,590,990	85,216	5.3562
Sep-16	1,591,620	85,442	5.3682
Dec-16	1,584,272	83,815	5.2904
Mar-17	1,567,027	81,912	5.2272
Jun-17	1,545,318	80,960	5.2391

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	-1.9%
9-points	1.1%
12-points	1.7%
15-points	1.9%
24-points	0.8%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$500 DEDUCTIBLE COLLISION			
Sep-11	2,294,769	107,227	4.6727
Dec-11	2,307,434	108,108	4.6852
Mar-12	2,327,618	107,663	4.6255
Jun-12	2,349,980	109,764	4.6708
Sep-12	2,375,652	110,617	4.6563
Dec-12	2,403,329	110,897	4.6143
Mar-13	2,431,305	112,408	4.6234
Jun-13	2,458,812	113,074	4.5987
Sep-13	2,488,753	115,329	4.6340
Dec-13	2,517,663	117,161	4.6536
Mar-14	2,548,598	121,642	4.7729
Jun-14	2,580,775	125,379	4.8582
Sep-14	2,612,799	126,843	4.8547
Dec-14	2,650,017	130,710	4.9324
Mar-15	2,687,261	131,882	4.9077
Jun-15	2,715,137	133,760	4.9265
Sep-15	2,744,435	138,369	5.0418
Dec-15	2,775,209	142,596	5.1382
Mar-16	2,801,210	145,241	5.1849
Jun-16	2,838,339	151,150	5.3253
Sep-16	2,873,589	154,048	5.3608
Dec-16	2,908,634	156,384	5.3765
Mar-17	2,950,034	159,061	5.3918
Jun-17	3,003,582	163,117	5.4307

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	3.2%
9-points	4.9%
12-points	4.7%
15-points	4.5%
24-points	3.2%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN COLLISION CLAIM FREQUENCY

ALL CARRIERS

(1)	(2)	(3)	(4)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	PAID CLAIM FREQUENCY(A) <u>(2)/(3)</u>
\$1,000 DEDUCTIBLE COLLISION			
Sep-11	235,300	7,111	3.0221
Dec-11	237,861	7,255	3.0501
Mar-12	240,922	7,203	2.9898
Jun-12	244,257	7,448	3.0492
Sep-12	248,274	7,539	3.0366
Dec-12	252,642	7,536	2.9829
Mar-13	256,983	7,750	3.0158
Jun-13	261,205	7,993	3.0600
Sep-13	265,676	8,276	3.1151
Dec-13	270,519	8,467	3.1299
Mar-14	276,101	8,846	3.2039
Jun-14	282,134	9,105	3.2272
Sep-14	288,409	9,512	3.2981
Dec-14	295,277	10,122	3.4280
Mar-15	302,359	10,379	3.4327
Jun-15	308,960	10,709	3.4661
Sep-15	315,797	11,079	3.5083
Dec-15	322,595	11,484	3.5599
Mar-16	329,277	11,987	3.6404
Jun-16	337,207	12,479	3.7007
Sep-16	345,164	12,999	3.7660
Dec-16	353,800	13,575	3.8369
Mar-17	363,346	14,185	3.9040
Jun-17	374,329	15,087	4.0304

(6) RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

6-points	8.2%
9-points	7.7%
12-points	6.9%
15-points	7.0%
24-points	5.4%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ALL CARRIERS

\$50 DEDUCTIBLE COLLISION

		STRAIGHT LINE		
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	2.7%	2.8%	2.9%	
12 points	1.7%	1.7%	1.7%	
9 points	0.4%	0.4%	0.4%	
6 points	2.5%	2.5%	2.5%	

		STRAIGHT LINE		
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	0.7%	0.7%	0.7%	
15 points	0.5%	0.5%	0.5%	
12 points	0.9%	0.9%	0.9%	
9 points	3.6%	3.8%	3.8%	
6 points	3.6%	3.7%	3.8%	

\$100 DEDUCTIBLE COLLISION

		STRAIGHT LINE		
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	4.4%	4.7%	4.8%	
12 points	4.5%	4.8%	4.9%	
9 points	4.4%	4.6%	4.7%	
6 points	2.3%	2.4%	2.4%	

		STRAIGHT LINE		
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	1.8%	1.9%	1.9%	
15 points	2.4%	2.5%	2.5%	
12 points	2.6%	2.7%	2.7%	
9 points	3.0%	3.1%	3.2%	
6 points	1.1%	1.1%	1.1%	

\$200 DEDUCTIBLE COLLISION

		STRAIGHT LINE		
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	3.1%	3.3%	3.4%	
12 points	3.6%	3.8%	3.9%	
9 points	3.6%	3.8%	3.8%	
6 points	4.0%	4.1%	4.2%	

		STRAIGHT LINE		
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	1.5%	1.5%	1.5%	
15 points	2.0%	2.1%	2.1%	
12 points	2.6%	2.7%	2.7%	
9 points	3.4%	3.6%	3.6%	
6 points	3.9%	4.0%	4.1%	

NORTH CAROLINA
TREND SUMMARY
DATA ENDED JUNE 2017

ALL CARRIERS

\$250 DEDUCTIBLE COLLISION

	STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	4.0%	4.3%	4.3%	
12 points	4.8%	5.1%	5.2%	
9 points	5.2%	5.6%	5.7%	
6 points	4.2%	4.4%	4.5%	

	STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	0.7%	0.8%	0.8%	
15 points	1.8%	1.9%	1.9%	
12 points	1.6%	1.6%	1.7%	
9 points	1.1%	1.1%	1.1%	
6 points	-1.9%	-1.9%	-1.9%	

\$500 DEDUCTIBLE COLLISION

	STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	2.9%	3.0%	3.1%	
12 points	3.4%	3.6%	3.7%	
9 points	3.7%	3.9%	4.0%	
6 points	3.4%	3.5%	3.6%	

	STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	2.9%	3.2%	3.2%	
15 points	4.1%	4.4%	4.5%	
12 points	4.3%	4.6%	4.7%	
9 points	4.5%	4.8%	4.9%	
6 points	3.0%	3.1%	3.2%	

\$1,000 DEDUCTIBLE COLLISION

	STRAIGHT LINE			
COST	END POINT	MID POINT	EXPONENTIAL	
15 points	2.9%	3.1%	3.1%	
12 points	3.5%	3.7%	3.7%	
9 points	3.8%	3.9%	4.0%	
6 points	4.3%	4.4%	4.5%	

	STRAIGHT LINE			
FREQ	END POINT	MID POINT	EXPONENTIAL	
24 points	4.6%	5.3%	5.4%	
15 points	6.0%	6.8%	7.0%	
12 points	6.1%	6.7%	6.9%	
9 points	6.9%	7.5%	7.7%	
6 points	7.5%	7.9%	8.2%	

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ALL CARRIERS

\$50 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.85	0.85
12 points		0.68	0.68
9 points		0.19	0.19
6 points		0.60	0.60

FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.41	0.41
15 points		0.21	0.21
12 points		0.31	0.31
9 points		0.93	0.93
6 points		0.84	0.84

\$100 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.98	0.98
12 points		0.96	0.96
9 points		0.91	0.91
6 points		0.66	0.66

FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.92	0.92
15 points		0.93	0.93
12 points		0.92	0.92
9 points		0.92	0.92
6 points		0.87	0.87

\$200 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.92	0.92
12 points		0.91	0.91
9 points		0.83	0.83
6 points		0.77	0.77

FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.90	0.90
15 points		0.87	0.87
12 points		0.89	0.89
9 points		0.93	0.94
6 points		0.91	0.91

NORTH CAROLINA
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

ALL CARRIERS

\$250 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.96	0.96
12 points		0.98	0.98
9 points		0.97	0.97
6 points		0.91	0.91
FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.59	0.58
15 points		0.85	0.85
12 points		0.73	0.73
9 points		0.45	0.45
6 points		-0.79	-0.79

\$500 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.95	0.96
12 points		0.97	0.97
9 points		0.95	0.95
6 points		0.85	0.85
FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.93	0.94
15 points		0.98	0.98
12 points		0.98	0.98
9 points		0.96	0.96
6 points		0.90	0.90

\$1,000 DEDUCTIBLE COLLISION

COST	STRAIGHT LINE		EXPONENTIAL
15 points		0.92	0.92
12 points		0.92	0.93
9 points		0.87	0.87
6 points		0.76	0.76
FREQ	STRAIGHT LINE		EXPONENTIAL
24 points		0.96	0.97
15 points		0.99	0.99
12 points		0.99	0.99
9 points		0.99	1.00
6 points		0.99	0.99

NORTH CAROLINA

PRIVATE PASSENGER LIABILITY INSURANCE
UNINSURED MOTORISTS BODILY INJURY
CLAIM COST TREND

(1) Accident Year Ended	(2) Basic Limit Losses (A)(B)	(3) Incurred Claims	(4) UMBI Claim Cost (2) / (3)
12/31/2005	44,547,774	6,030	7,387.69
12/31/2006	47,836,857	6,322	7,566.73
12/31/2007	49,254,345	6,152	8,006.23
12/31/2008	43,869,258	5,691	7,708.53
12/31/2009	45,292,472	6,120	7,400.73
12/31/2010	42,265,450	5,688	7,430.63
12/31/2011	40,275,644	5,322	7,567.76
12/31/2012	41,691,758	5,501	7,578.94
12/31/2013	40,083,803	5,127	7,818.18
12/31/2014	39,061,362	5,047	7,739.52
12/31/2015	45,168,656	5,603	8,061.51
12/31/2016	51,447,701	6,217	8,275.33

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	2.1%
6 points	1.8%
9 points	1.1%
12 points	0.6%

(A) Includes all loss adjustment expense and loss development for voluntary and ceded business combined.

(B) 30/60 limit.

NORTH CAROLINA

PRIVATE PASSENGER LIABILITY INSURANCE
UNINSURED MOTORISTS PROPERTY DAMAGE
CLAIM COST TREND

(1) Accident Year Ended	(2) Basic Limit Losses (A)(B)	(3) Incurred Claims	(4) UMPD Claim Cost (2) / (3)
12/31/2005	12,272,584	8,982	1,366.35
12/31/2006	11,956,645	8,591	1,391.76
12/31/2007	11,181,655	8,294	1,348.16
12/31/2008	10,419,619	7,581	1,374.44
12/31/2009	9,079,850	7,310	1,242.11
12/31/2010	8,608,289	7,005	1,228.88
12/31/2011	8,907,834	6,838	1,302.70
12/31/2012	8,936,756	7,246	1,233.34
12/31/2013	9,924,306	7,033	1,411.11
12/31/2014	10,128,492	6,863	1,475.81
12/31/2015	12,192,270	7,859	1,551.38
12/31/2016	14,163,296	9,371	1,511.40

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	2.6%
6 points	4.3%
9 points	2.5%
12 points	1.0%

(A) Includes all loss adjustment expense and loss development for voluntary and ceded business combined.

(B) \$25,000 limit.

NORTH CAROLINA
PRIVATE PASSENGER LIABILITY INSURANCE
UNDERINSURED MOTORISTS
CLAIM COST TREND

(1) Accident <u>Year Ended</u>	(2) Total Limit <u>Losses (A)</u>	(3) Incurred <u>Claims</u>	(4) UIM Claim Cost <u>(2) / (3)</u>
12/31/2005	65,680,685	1,254	52,376.94
12/31/2006	77,354,916	1,528	50,624.95
12/31/2007	84,263,823	1,584	53,196.86
12/31/2008	72,663,277	1,478	49,163.25
12/31/2009	81,994,812	1,681	48,777.40
12/31/2010	78,995,166	1,598	49,433.77
12/31/2011	82,032,981	1,625	50,481.83
12/31/2012	73,963,910	1,536	48,153.59
12/31/2013	84,097,450	1,645	51,123.07
12/31/2014	73,425,324	1,560	47,067.52
12/31/2015	79,822,855	1,661	48,057.11
12/31/2016	86,710,983	2,043	42,442.97

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	-5.2%
6 points	-2.7%
9 points	-1.2%
12 points	-1.2%

(A) Includes all loss adjustment expense and loss development for voluntary and ceded business combined.

NORTH CAROLINA
PRIVATE PASSENGER LIABILITY INSURANCE
UNINSURED MOTORISTS BODILY INJURY
CLAIM FREQUENCY TREND

(1) Accident Year Ended	(2) Exposures(A)	(3) Incurred Claims(A)	(4) UM Claim Freq (3) / (2)
12/31/2005	5,825,678	6,030	0.1035
12/31/2006	5,992,062	6,322	0.1055
12/31/2007	6,108,993	6,152	0.1007
12/31/2008	6,013,381	5,691	0.0946
12/31/2009	6,321,674	6,120	0.0968
12/31/2010	6,258,119	5,688	0.0909
12/31/2011	6,253,049	5,322	0.0851
12/31/2012	6,396,922	5,501	0.0860
12/31/2013	6,238,914	5,127	0.0822
12/31/2014	6,046,751	5,047	0.0835
12/31/2015	6,095,752	5,603	0.0919
12/31/2016	6,195,531	6,217	0.1003

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	7.2%
6 points	3.0%
9 points	-0.2%
12 points	-1.4%

(A) Voluntary and ceded business combined.

NORTH CAROLINA

PRIVATE PASSENGER LIABILITY INSURANCE
UNINSURED MOTORISTS PROPERTY DAMAGE
CLAIM FREQUENCY TREND

(1) Accident Year Ended	(2) Exposures(A)	(3) Incurred Claims(A)	(4) UM Claim Freq (3) / (2)
12/31/2005	5,825,678	8,982	0.1542
12/31/2006	5,992,062	8,591	0.1434
12/31/2007	6,108,993	8,294	0.1358
12/31/2008	6,013,381	7,581	0.1261
12/31/2009	6,321,674	7,310	0.1156
12/31/2010	6,258,119	7,005	0.1119
12/31/2011	6,253,049	6,838	0.1094
12/31/2012	6,396,922	7,246	0.1133
12/31/2013	6,238,914	7,033	0.1127
12/31/2014	6,046,751	6,863	0.1135
12/31/2015	6,095,752	7,859	0.1289
12/31/2016	6,195,531	9,371	0.1513

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	10.6%
6 points	5.9%
9 points	1.9%
12 points	-1.1%

(A) Voluntary and ceded business combined.

NORTH CAROLINA
PRIVATE PASSENGER LIABILITY INSURANCE
UNDERINSURED MOTORISTS
CLAIM FREQUENCY TREND

(1) Accident <u>Year Ended</u>	(2) Incurred <u>Claims(A)</u>	(3) <u>Exposures</u>	(4) UIM Claim Freq <u>(2)/(3)*100</u>
12/31/2005	1,254	3,845,345	0.0326
12/31/2006	1,528	4,124,137	0.0371
12/31/2007	1,584	4,478,381	0.0354
12/31/2008	1,478	4,396,521	0.0336
12/31/2009	1,681	4,614,618	0.0364
12/31/2010	1,598	4,644,504	0.0344
12/31/2011	1,625	4,779,500	0.0340
12/31/2012	1,536	4,926,951	0.0312
12/31/2013	1,645	4,839,404	0.0340
12/31/2014	1,560	4,618,201	0.0338
12/31/2015	1,661	4,655,626	0.0357
12/31/2016	2,043	4,730,028	0.0432

Annual Rates of Change based on the Exponential Curve of Best Fit:

4 points	8.0%
6 points	4.7%
9 points	1.5%
12 points	0.7%

(A) Voluntary and ceded business combined.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

FASTTRACK - NC DATA

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST		(6) PAID LOSSES	(7) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)			(8) ACTUAL (6)/(7)	(9) EXPONENTIAL CURVE OF BEST FIT (A)
<u>BODILY INJURY (TOTAL LIMITS)</u>					<u>PROPERTY DAMAGE (TOTAL LIMITS)</u>			
Dec-13	423,278,617	42,283	10,011	10,450.14	405,627,090	137,106	2,958	3,130.06
Mar-14	413,828,529	41,390	9,998	10,493.36	406,502,449	136,492	2,978	3,173.38
Jun-14	414,703,643	41,094	10,092	10,536.75	411,740,415	137,032	3,005	3,217.31
Sep-14	414,529,520	40,562	10,220	10,580.32	414,772,572	137,161	3,024	3,261.84
Dec-14	421,604,220	40,632	10,376	10,624.07	424,378,354	139,314	3,046	3,306.98
Mar-15	431,723,963	41,318	10,449	10,668.01	432,127,204	140,233	3,081	3,352.75
Jun-15	441,587,319	41,775	10,571	10,712.12	439,899,784	141,048	3,119	3,399.16
Sep-15	446,211,970	42,493	10,501	10,756.42	453,386,519	143,146	3,167	3,446.21
Dec-15	457,192,916	43,170	10,591	10,800.90	464,961,642	144,821	3,211	3,493.91
Mar-16	462,481,721	43,558	10,618	10,845.56	481,389,745	147,929	3,254	3,542.27
Jun-16	460,958,124	43,829	10,517	10,890.41	493,968,004	148,823	3,319	3,591.29
Sep-16	464,797,828	43,685	10,640	10,935.45	498,476,557	149,218	3,341	3,641.00
Dec-16	454,767,330	43,262	10,512	10,980.67	505,899,363	148,953	3,396	3,691.40
Mar-17	465,521,234	43,204	10,775	11,026.07	514,120,507	148,357	3,465	3,742.49
Jun-17	465,635,066	42,525	10,950	11,071.67	520,458,675	148,909	3,495	3,794.29

(10) RATE OF CHANGE IN PAID CLAIM COSTS FOR
ANY 12 MONTH INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>
6-points	2.5%	5.9%
9-points	1.4%	5.9%
12-points	1.7%	5.7%
15-points	2.2%	5.1%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

FASTTRACK - NC DATA

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST		(6) PAID LOSSES	(7) PAID CLAIMS	AVERAGE PAID CLAIM COST	
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)			(8) ACTUAL (6)/(7)	(9) EXPONENTIAL CURVE OF BEST FIT (A)
<u>COMPREHENSIVE</u>					<u>COLLISION</u>			
Dec-13	182,680,897	179,244	1,019	1,113.89	445,895,059	155,093	2,875	3,005.63
Mar-14	188,945,723	183,893	1,027	1,147.73	460,077,258	158,526	2,902	3,042.59
Jun-14	205,926,920	194,758	1,057	1,182.60	468,939,110	160,822	2,916	3,080.01
Sep-14	209,102,150	194,315	1,076	1,218.53	475,437,186	162,251	2,930	3,117.89
Dec-14	209,035,799	195,300	1,070	1,255.55	487,100,381	165,859	2,937	3,156.24
Mar-15	209,700,060	193,591	1,083	1,293.70	489,452,189	166,317	2,943	3,195.06
Jun-15	210,130,616	189,723	1,108	1,333.01	499,474,951	167,593	2,980	3,234.36
Sep-15	214,227,275	192,542	1,113	1,373.51	510,911,416	169,924	3,007	3,274.14
Dec-15	224,510,970	194,472	1,154	1,415.24	533,485,564	172,805	3,087	3,314.41
Mar-16	233,547,338	201,235	1,161	1,458.23	551,493,579	176,161	3,131	3,355.17
Jun-16	239,043,312	201,472	1,186	1,502.54	565,594,542	178,567	3,167	3,396.43
Sep-16	249,011,235	202,433	1,230	1,548.19	586,026,851	181,538	3,228	3,438.21
Dec-16	303,829,105	210,948	1,440	1,595.23	597,368,782	183,324	3,259	3,480.49
Mar-17	299,445,594	207,078	1,446	1,643.69	598,634,676	182,893	3,273	3,523.30
Jun-17	290,152,710	202,772	1,431	1,693.63	607,115,016	185,134	3,279	3,566.63

(10)RATE OF CHANGE IN PAID CLAIM COSTS FOR
ANY 12 MONTH INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>COMP</u>	<u>COLL</u>
6-points	22.8%	4.0%
9-points	16.6%	5.3%
12-points	12.7%	5.0%
15-points	10.5%	4.3%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES (A)
FASTTRACK - NC DATA

(1) YEAR ENDED	(2) EARNED EXPOSURES	(3) PAID CLAIMS	(4) PAID CLAIM FREQ (2)/(3)	(2) EARNED EXPOSURES	(5) PAID CLAIMS	(6) PAID CLAIM FREQ (5)/(3)
<u>BODILY INJURY</u>			<u>PROPERTY DAMAGE</u>			
Dec-13	4,273,165	42,283	0.9895	4,273,165	137,106	3.2085
Mar-14	4,290,100	41,390	0.9648	4,290,100	136,492	3.1816
Jun-14	4,307,715	41,094	0.9540	4,307,715	137,032	3.1811
Sep-14	4,328,350	40,562	0.9371	4,328,350	137,161	3.1689
Dec-14	4,343,465	40,632	0.9355	4,343,465	139,314	3.2074
Mar-15	4,384,538	41,318	0.9424	4,384,538	140,233	3.1984
Jun-15	4,426,992	41,775	0.9436	4,426,992	141,048	3.1861
Sep-15	4,469,807	42,493	0.9507	4,469,807	143,146	3.2025
Dec-15	4,508,341	43,170	0.9576	4,508,341	144,821	3.2123
Mar-16	4,520,518	43,558	0.9636	4,520,518	147,929	3.2724
Jun-16	4,527,637	43,829	0.9680	4,527,637	148,823	3.2870
Sep-16	4,532,863	43,685	0.9637	4,532,863	149,218	3.2919
Dec-16	4,542,070	43,262	0.9525	4,542,070	148,953	3.2794
Mar-17	4,550,167	43,204	0.9495	4,550,167	148,357	3.2605
Jun-17	4,553,915	42,525	0.9338	4,553,915	148,909	3.2699

(5) RATE OF CHANGE IN PAID
CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>B.I.</u>	<u>P.D.</u>
6-points	-2.6%	-0.4%
9-points	-0.4%	1.4%
12-points	0.5%	1.3%
15-points	-0.3%	1.0%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES: FASTTRACK - NC DATA

(1) YEAR ENDED	(2) EARNED EXPOSURES	(3) PAID CLAIMS	(4) PAID CLAIM FREQ (2)/(3)	(5) EARNED EXPOSURES	(6) PAID CLAIMS	(7) PAID CLAIM FREQ (5)/(3)
<u>COMPREHENSIVE</u>			<u>COLLISION</u>			
Dec-13	3,348,632	179,244	5.3528	3,099,043	155,093	5.0045
Mar-14	3,367,668	183,893	5.4605	3,117,846	158,526	5.0845
Jun-14	3,388,204	194,758	5.7481	3,138,332	160,822	5.1244
Sep-14	3,411,153	194,315	5.6965	3,161,148	162,251	5.1327
Dec-14	3,427,729	195,300	5.6976	3,178,329	165,859	5.2184
Mar-15	3,448,934	193,591	5.6131	3,199,498	166,317	5.1982
Jun-15	3,470,854	189,723	5.4662	3,221,345	167,593	5.2026
Sep-15	3,493,082	192,542	5.5121	3,243,559	169,924	5.2388
Dec-15	3,513,007	194,472	5.5358	3,263,709	172,805	5.2947
Mar-16	3,529,361	201,235	5.7017	3,281,098	176,161	5.3690
Jun-16	3,543,452	201,472	5.6858	3,296,839	178,567	5.4163
Sep-16	3,556,316	202,433	5.6922	3,311,630	181,538	5.4818
Dec-16	3,571,190	210,948	5.9069	3,328,162	183,324	5.5083
Mar-17	3,583,662	207,078	5.7784	3,341,812	182,893	5.4729
Jun-17	3,593,113	202,772	5.6434	3,351,552	185,134	5.5238

(5) RATE OF CHANGE IN PAID
CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>COMP</u>	<u>COLL</u>
6-points	0.4%	2.1%
9-points	2.7%	3.2%
12-points	1.0%	2.9%
15-points	1.3%	2.8%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
FAST TRACK TREND SUMMARY
DATA ENDED JUNE 2017

NORTH CAROLINA BODILY INJURY

	STRAIGHT LINE		EXPONENTIAL
COST	END POINT	MID POINT	
15 points	2.1%	2.2%	2.2%
12 points	1.6%	1.7%	1.7%
9 points	1.4%	1.4%	1.4%
6 points	2.4%	2.5%	2.5%

	STRAIGHT LINE		EXPONENTIAL
FREQ	END POINT	MID POINT	
15 points	-0.3%	-0.3%	-0.3%
12 points	0.5%	0.5%	0.5%
9 points	-0.4%	-0.4%	-0.4%
6 points	-2.6%	-2.6%	-2.6%

NORTH CAROLINA PROPERTY DAMAGE

	STRAIGHT LINE		EXPONENTIAL
COST	END POINT	MID POINT	
15 points	4.6%	5.0%	5.1%
12 points	5.1%	5.5%	5.7%
9 points	5.4%	5.8%	5.9%
6 points	5.5%	5.7%	5.9%

	STRAIGHT LINE		EXPONENTIAL
FREQ	END POINT	MID POINT	
15 points	1.0%	1.0%	1.0%
12 points	1.3%	1.3%	1.3%
9 points	1.3%	1.4%	1.4%
6 points	-0.4%	-0.4%	-0.4%

NORTH CAROLINA COMPREHENSIVE

	STRAIGHT LINE		EXPONENTIAL
COST	END POINT	MID POINT	
15 points	8.7%	10.5%	10.5%
12 points	10.5%	12.3%	12.7%
9 points	13.5%	15.9%	16.6%
6 points	18.0%	20.3%	22.8%

	STRAIGHT LINE		EXPONENTIAL
FREQ	END POINT	MID POINT	
15 points	1.2%	1.3%	1.3%
12 points	1.0%	1.0%	1.0%
9 points	2.6%	2.6%	2.7%
6 points	0.4%	0.4%	0.4%

NORTH CAROLINA COLLISION

	STRAIGHT LINE		EXPONENTIAL
COST	END POINT	MID POINT	
15 points	4.0%	4.3%	4.3%
12 points	4.6%	4.9%	5.0%
9 points	4.9%	5.2%	5.3%
6 points	3.8%	3.9%	4.0%

	STRAIGHT LINE		EXPONENTIAL
FREQ	END POINT	MID POINT	
15 points	2.7%	2.8%	2.8%
12 points	2.7%	2.8%	2.9%
9 points	3.0%	3.1%	3.2%
6 points	2.0%	2.0%	2.1%

NORTH CAROLINA
FAST TRACK TREND SUMMARY
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

NORTH CAROLINA BODILY INJURY

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.92	0.92
12 points	0.85	0.85
9 points	0.69	0.68
6 points	0.73	0.73
FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	-0.25	-0.24
12 points	0.34	0.34
9 points	-0.22	-0.22
6 points	-0.91	-0.91

NORTH CAROLINA PROPERTY DAMAGE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.99	0.99
12 points	1.00	1.00
9 points	1.00	1.00
6 points	0.99	0.99
FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.83	0.83
12 points	0.85	0.85
9 points	0.76	0.76
6 points	-0.48	-0.48

NORTH CAROLINA COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.91	0.93
12 points	0.91	0.92
9 points	0.92	0.93
6 points	0.91	0.92
FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.55	0.55
12 points	0.42	0.42
9 points	0.74	0.74
6 points	0.11	0.11

NORTH CAROLINA COLLISION

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.98	0.98
12 points	0.98	0.98
9 points	0.98	0.98
6 points	0.96	0.95
FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.98	0.98
12 points	0.97	0.97
9 points	0.96	0.96
6 points	0.88	0.88

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

FASTTRACK - COUNTRYWIDE DATA

(1) YEAR ENDED	(2) PAID LOSSES	(3) PAID CLAIMS	AVERAGE PAID CLAIM COST		(6) PAID LOSSES	(7) PAID CLAIMS	AVERAGE PAID CLAIM COST		
			(4) ACTUAL (2)/(3)	(5) EXPONENTIAL CURVE OF BEST FIT (A)			(8) ACTUAL (6)/(7)	(9) EXPONENTIAL CURVE OF BEST FIT (A)	
<u>BODILY INJURY (TOTAL LIMITS)</u>					<u>PROPERTY DAMAGE (TOTAL LIMITS)</u>				
Dec-13	11,452,098,233	844,150	13,566	14,107.32	14,083,803,435	4,608,995	3,056	3,265.86	
Mar-14	11,484,490,858	845,017	13,591	14,287.11	14,314,088,267	4,659,835	3,072	3,312.88	
Jun-14	11,527,606,396	844,368	13,652	14,469.19	14,559,877,520	4,694,520	3,101	3,360.58	
Sep-14	11,606,088,991	845,847	13,721	14,653.59	14,795,912,745	4,719,301	3,135	3,408.97	
Dec-14	11,772,277,502	852,821	13,804	14,840.34	15,056,569,283	4,759,877	3,163	3,458.05	
Mar-15	12,028,369,979	863,950	13,923	15,029.47	15,373,866,555	4,787,051	3,212	3,507.84	
Jun-15	12,410,262,241	880,321	14,097	15,221.01	15,753,176,186	4,842,609	3,253	3,558.35	
Sep-15	12,754,086,483	896,298	14,230	15,415.00	16,224,795,145	4,903,277	3,309	3,609.59	
Dec-15	13,081,383,714	908,294	14,402	15,611.45	16,669,525,820	4,956,216	3,363	3,661.56	
Mar-16	13,409,335,228	920,596	14,566	15,810.41	17,200,050,933	5,019,578	3,427	3,714.28	
Jun-16	13,623,309,082	927,321	14,691	16,011.90	17,535,015,576	5,031,880	3,485	3,767.76	
Sep-16	13,866,781,385	927,011	14,959	16,215.96	17,813,815,328	5,061,828	3,519	3,822.01	
Dec-16	14,081,227,012	926,065	15,205	16,422.62	18,110,885,732	5,080,411	3,565	3,877.05	
Mar-17	14,456,390,024	933,638	15,484	16,631.92	18,366,742,099	5,098,590	3,602	3,932.87	
Jun-17	14,725,110,770	930,589	15,823	16,843.88	18,605,470,028	5,120,626	3,633	3,989.50	

(10) RATE OF CHANGE IN PAID CLAIM COSTS FOR
ANY 12 MONTH INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>BODILY INJURY</u>	<u>PROPERTY DAMAGE</u>
6-points	6.9%	4.7%
9-points	5.8%	5.8%
12-points	5.2%	5.9%
15-points	4.4%	5.5%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM COST

FASTTRACK - COUNTRYWIDE DATA

(1) <u>YEAR ENDED</u>	(2) <u>PAID LOSSES</u>	(3) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST		(6) <u>PAID LOSSES</u>	(7) <u>PAID CLAIMS</u>	AVERAGE PAID CLAIM COST	
			(4) <u>ACTUAL (2)/(3)</u>	(5) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>			(8) <u>ACTUAL (6)/(7)</u>	(9) <u>EXPONENTIAL CURVE OF BEST FIT (A)</u>
	<u>COMPREHENSIVE</u>				<u>COLLISION</u>			
Dec-13	7,795,113,147	6,565,304	1,187	1,276.75	18,784,959,533	5,859,824	3,206	3,344.70
Mar-14	7,787,916,292	6,573,749	1,185	1,305.82	19,345,199,448	6,028,097	3,209	3,384.02
Jun-14	8,117,414,281	6,729,067	1,206	1,335.56	19,631,107,588	6,120,258	3,208	3,423.80
Sep-14	8,461,295,862	6,813,170	1,242	1,365.97	19,977,637,092	6,191,886	3,226	3,464.04
Dec-14	8,752,846,428	6,892,044	1,270	1,397.08	20,380,945,617	6,269,871	3,251	3,504.76
Mar-15	8,849,426,648	6,909,082	1,281	1,428.89	20,782,524,494	6,303,180	3,297	3,545.96
Jun-15	8,570,949,052	6,830,532	1,255	1,461.43	21,324,510,105	6,384,726	3,340	3,587.64
Sep-15	8,508,104,026	6,889,985	1,235	1,494.71	21,834,609,847	6,466,864	3,376	3,629.81
Dec-15	8,683,908,955	6,949,379	1,250	1,528.75	22,486,129,314	6,544,534	3,436	3,672.48
Mar-16	9,152,250,302	7,128,434	1,284	1,563.56	22,842,023,299	6,574,565	3,474	3,715.65
Jun-16	10,065,534,478	7,285,629	1,382	1,599.17	23,377,795,679	6,618,862	3,532	3,759.32
Sep-16	10,831,679,887	7,325,014	1,479	1,635.58	24,037,262,324	6,700,144	3,588	3,803.51
Dec-16	11,142,986,691	7,339,524	1,518	1,672.83	24,419,187,106	6,757,933	3,613	3,848.22
Mar-17	11,301,426,036	7,345,091	1,539	1,710.92	24,685,053,954	6,812,619	3,623	3,893.46
Jun-17	11,236,632,031	7,316,804	1,536	1,749.88	24,751,702,306	6,866,698	3,605	3,939.22

(10)RATE OF CHANGE IN PAID CLAIM COSTS FOR ANY 12 MONTH INTERVAL ON THE EXPONENTIAL CURVE OF BEST FIT:

	<u>COMP</u>	<u>COLL</u>
6-points	15.3%	3.1%
9-points	14.2%	4.4%
12-points	9.4%	4.8%
15-points	8.1%	4.3%

(A) THE FITS GIVEN USE THE 12-POINT AVERAGE ANNUAL RATE OF CHANGE.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES (A)
FASTTRACK - COUNTRYWIDE DATA

(1) YEAR ENDED	(2) EARNED EXPOSURES	(3) PAID CLAIMS	(4) PAID CLAIM FREQ (2)/(3)	(2) EARNED EXPOSURES	(5) PAID CLAIMS	(6) PAID CLAIM FREQ (5)/(3)
	<u>BODILY INJURY</u>			<u>PROPERTY DAMAGE</u>		
Dec-13	94,116,396	844,150	0.8969	133,162,083	4,608,995	3.4612
Mar-14	94,553,878	845,017	0.8937	133,714,573	4,659,835	3.4849
Jun-14	95,014,434	844,368	0.8887	134,292,994	4,694,520	3.4957
Sep-14	95,501,881	845,847	0.8857	134,905,352	4,719,301	3.4982
Dec-14	96,011,446	852,821	0.8882	135,547,051	4,759,877	3.5116
Mar-15	96,657,244	863,950	0.8938	136,384,049	4,787,051	3.5100
Jun-15	97,336,881	880,321	0.9044	137,273,752	4,842,609	3.5277
Sep-15	98,044,219	896,298	0.9142	138,199,654	4,903,277	3.5480
Dec-15	98,742,499	908,294	0.9199	139,107,008	4,956,216	3.5629
Mar-16	99,320,162	920,596	0.9269	139,848,656	5,019,578	3.5893
Jun-16	99,796,992	927,321	0.9292	140,436,304	5,031,880	3.5830
Sep-16	100,218,992	927,011	0.9250	140,940,080	5,061,828	3.5915
Dec-16	100,591,402	926,065	0.9206	141,388,335	5,080,411	3.5932
Mar-17	100,899,676	933,638	0.9253	141,759,972	5,098,590	3.5966
Jun-17	101,217,116	930,589	0.9194	142,157,943	5,120,626	3.6021

(5) RATE OF CHANGE IN PAID
CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>B.I.</u>	<u>P.D.</u>
6-points	-0.7%	0.3%
9-points	0.7%	1.0%
12-points	1.6%	1.2%
15-points	1.4%	1.2%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
DETERMINATION OF AVERAGE ANNUAL CHANGE
IN CLAIM FREQUENCIES (A)
FASTTRACK - COUNTRYWIDE DATA

(1)	(2)	(3)	(4)	(5)	(6)	(7)
<u>YEAR ENDED</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	<u>PAID CLAIM FREQ (2)/(3)</u>	<u>EARNED EXPOSURES</u>	<u>PAID CLAIMS</u>	<u>PAID CLAIM FREQ (5)/(3)</u>
<u>COMPREHENSIVE</u>			<u>COLLISION</u>			
Dec-13	108,757,368	6,565,304	6.0367	103,094,988	5,859,824	5.6839
Mar-14	109,426,221	6,573,749	6.0075	103,716,109	6,028,097	5.8121
Jun-14	110,089,519	6,729,067	6.1124	104,381,321	6,120,258	5.8634
Sep-14	110,795,393	6,813,170	6.1493	105,047,808	6,191,886	5.8944
Dec-14	111,507,191	6,892,044	6.1808	105,722,734	6,269,871	5.9305
Mar-15	112,361,271	6,909,082	6.1490	106,546,543	6,303,180	5.9159
Jun-15	113,278,749	6,830,532	6.0298	107,397,756	6,384,726	5.9449
Sep-15	114,201,742	6,889,985	6.0332	108,299,782	6,466,864	5.9713
Dec-15	115,104,745	6,949,379	6.0374	109,164,178	6,544,534	5.9951
Mar-16	115,858,579	7,128,434	6.1527	109,883,935	6,574,565	5.9832
Jun-16	116,484,745	7,285,629	6.2546	110,473,818	6,618,862	5.9913
Sep-16	117,072,951	7,325,014	6.2568	110,985,040	6,700,144	6.0370
Dec-16	117,579,568	7,339,524	6.2422	111,460,209	6,757,933	6.0631
Mar-17	118,044,892	7,345,091	6.2223	111,856,115	6,812,619	6.0905
Jun-17	118,480,018	7,316,804	6.1756	112,241,564	6,866,698	6.1178

(5) RATE OF CHANGE IN PAID
CLAIM FREQS FOR ANY 12 MONTH
INTERVAL ON THE EXPONENTIAL
CURVE OF BEST FIT:

	<u>COMP</u>	<u>COLL</u>
6-points	0.0%	1.9%
9-points	1.8%	1.4%
12-points	0.7%	1.3%
15-points	0.8%	1.6%

(A) AVERAGE PAID CLAIM FREQUENCY PER 100 CARS.

NORTH CAROLINA
 FAST TRACK TREND SUMMARY
 DATA ENDED JUNE 2017

MULTISTATE BODILY INJURY

STRAIGHT LINE

COST	END POINT	MID POINT	EXPONENTIAL
15 points	4.1%	4.4%	4.4%
12 points	4.8%	5.1%	5.2%
9 points	5.4%	5.7%	5.8%
6 points	6.5%	6.7%	6.9%

STRAIGHT LINE

FREQ	END POINT	MID POINT	EXPONENTIAL
15 points	1.3%	1.4%	1.4%
12 points	1.6%	1.6%	1.6%
9 points	0.7%	0.7%	0.7%
6 points	-0.7%	-0.7%	-0.7%

MULTISTATE PROPERTY DAMAGE

STRAIGHT LINE

COST	END POINT	MID POINT	EXPONENTIAL
15 points	4.9%	5.4%	5.5%
12 points	5.3%	5.7%	5.9%
9 points	5.3%	5.6%	5.8%
6 points	4.5%	4.6%	4.7%

STRAIGHT LINE

FREQ	END POINT	MID POINT	EXPONENTIAL
15 points	1.2%	1.2%	1.2%
12 points	1.1%	1.2%	1.2%
9 points	0.9%	0.9%	1.0%
6 points	0.3%	0.3%	0.3%

MULTISTATE COMPREHENSIVE

STRAIGHT LINE

COST	END POINT	MID POINT	EXPONENTIAL
15 points	7.0%	8.1%	8.1%
12 points	8.2%	9.2%	9.4%
9 points	11.7%	13.5%	14.2%
6 points	12.8%	13.9%	15.3%

STRAIGHT LINE

FREQ	END POINT	MID POINT	EXPONENTIAL
15 points	0.8%	0.8%	0.8%
12 points	0.7%	0.7%	0.7%
9 points	1.8%	1.8%	1.8%
6 points	0.0%	0.0%	0.0%

MULTISTATE COLLISION

STRAIGHT LINE

COST	END POINT	MID POINT	EXPONENTIAL
15 points	3.9%	4.2%	4.3%
12 points	4.4%	4.7%	4.8%
9 points	4.1%	4.3%	4.4%
6 points	3.0%	3.0%	3.1%

STRAIGHT LINE

FREQ	END POINT	MID POINT	EXPONENTIAL
15 points	1.6%	1.6%	1.6%
12 points	1.2%	1.3%	1.3%
9 points	1.4%	1.4%	1.4%
6 points	1.9%	1.9%	1.9%

NORTH CAROLINA
FAST TRACK TREND SUMMARY
CORRELATION COEFFICIENTS
DATA ENDED JUNE 2017

MULTISTATE BODILY INJURY

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.97	0.98
12 points	0.99	0.99
9 points	0.99	0.99
6 points	0.99	0.99

FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.86	0.86
12 points	0.84	0.84
9 points	0.56	0.56
6 points	-0.77	-0.77

MULTISTATE PROPERTY DAMAGE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.99	1.00
12 points	1.00	1.00
9 points	0.99	0.99
6 points	1.00	1.00

FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.98	0.98
12 points	0.96	0.96
9 points	0.91	0.91
6 points	0.88	0.88

MULTISTATE COMPREHENSIVE

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.91	0.91
12 points	0.89	0.89
9 points	0.95	0.95
6 points	0.92	0.92

FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.64	0.64
12 points	0.48	0.48
9 points	0.77	0.77
6 points	0.00	0.01

MULTISTATE COLLISION

COST	STRAIGHT LINE	EXPONENTIAL
15 points	0.98	0.98
12 points	0.98	0.98
9 points	0.96	0.96
6 points	0.88	0.88

FREQ	STRAIGHT LINE	EXPONENTIAL
15 points	0.95	0.94
12 points	0.97	0.98
9 points	0.97	0.97
6 points	0.99	0.99

CPI GASOLINE INDEX
ANNUAL PERCENT CHANGE

<u>Quarter</u>	(1) <u>Index</u>	(2) <u>Annual Percentage Change</u>
2007:4	2.519	30.0%
2008:1	2.646	30.8%
2008:2	3.189	24.8%
2008:3	3.275	35.1%
2008:4	1.989	-21.0%
2009:1	1.628	-38.5%
2009:2	1.987	-37.7%
2009:3	2.212	-32.4%
2009:4	2.235	12.4%
2010:1	2.328	43.0%
2010:2	2.415	21.6%
2010:3	2.337	5.6%
2010:4	2.464	10.2%
2011:1	2.795	20.1%
2011:2	3.266	35.2%
2011:3	3.110	33.1%
2011:4	2.897	17.6%
2012:1	3.085	10.4%
2012:2	3.210	-1.7%
2012:3	3.141	1.0%
2012:4	3.022	4.3%
2013:1	3.071	-0.5%
2013:2	3.101	-3.4%
2013:3	3.085	-1.8%
2013:4	2.846	-5.8%
2014:1	2.936	-4.4%
2014:2	3.170	2.2%
2014:3	3.028	-1.9%
2014:4	2.501	-12.1%
2015:1	1.985	-32.4%
2015:2	2.326	-26.6%
2015:3	2.272	-25.0%
2015:4	1.898	-24.1%
2016:1	1.655	-16.6%
2016:2	1.968	-15.4%
2016:3	1.928	-15.1%
2016:4	1.953	2.9%
2017:1	2.042	23.4%
2017:2	2.092	6.3%
2017:3	2.138	10.9%

NORTH CAROLINA
PERSONAL AUTO INSURANCE
RETAIL PRICES OF MOTOR FUEL*

<u>Date</u>	<u>Regular Gasoline</u>	<u>Midgrade Gasoline</u>	<u>Premium Gasoline</u>
Jan-13	3.366	3.531	3.704
Feb-13	3.647	3.815	3.994
Mar-13	3.682	3.863	4.049
Apr-13	3.482	3.667	3.854
May-13	3.420	3.611	3.805
Jun-13	3.430	3.624	3.820
Jul-13	3.467	3.663	3.859
Aug-13	3.466	3.662	3.862
Sep-13	3.412	3.618	3.815
Oct-13	3.266	3.466	3.660
Nov-13	3.233	3.431	3.629
Dec-13	3.296	3.493	3.695
Jan-14	3.314	3.517	3.730
Feb-14	3.312	3.519	3.734
Mar-14	3.439	3.641	3.861
Apr-14	3.621	3.826	4.041
May-14	3.625	3.837	4.058
Jun-14	3.576	3.788	4.009
Jul-14	3.508	3.725	3.946
Aug-14	3.364	3.588	3.807
Sep-14	3.304	3.524	3.748
Oct-14	3.108	3.338	3.561
Nov-14	2.832	3.056	3.286
Dec-14	2.519	2.749	2.981
Jan-15	2.115	2.345	2.583
Feb-15	2.150	2.367	2.602
Mar-15	2.328	2.538	2.783
Apr-15	2.359	2.583	2.821
May-15	2.539	2.756	2.995
Jun-15	2.647	2.855	3.096
Jul-15	2.593	2.815	3.055
Aug-15	2.385	2.630	2.883
Sep-15	2.151	2.402	2.674
Oct-15	2.119	2.368	2.643
Nov-15	2.068	2.320	2.597
Dec-15	1.968	2.235	2.511
Jan-16	1.871	2.145	2.421
Feb-16	1.710	1.990	2.266
Mar-16	1.887	2.152	2.428
Apr-16	2.017	2.280	2.554
May-16	2.178	2.448	2.726
Jun-16	2.235	2.501	2.791
Jul-16	2.095	2.374	2.673
Aug-16	2.050	2.342	2.633
Sep-16	2.150	2.431	2.732
Oct-16	2.199	2.484	2.774
Nov-16	2.116	2.414	2.707
Dec-16	2.201	2.491	2.791
Jan-17	2.277	2.567	2.868
Feb-17	2.207	2.504	2.803
Mar-17	2.205	2.503	2.804
Apr-17	2.308	2.606	2.904
May-17	2.246	2.550	2.850
Jun-17	2.182	2.495	2.790
Jul-17	2.128	2.445	2.733
Aug-17	2.221	2.536	2.829
Sep-17	2.642	2.937	3.238
Oct-17	2.411	2.730	3.027

* Data shown is for the LOWER ATLANTIC REGION
Source: U.S. Energy Information Administration, Conventional Areas

Monthly Gasoline Sales (in thousands of gallons/day)
Source: U.S. Energy Information Administration
Total Gasoline - All Sales/Deliveries by Prime Suppliers

		Average Daily Gasoline Sales for <u>North Carolina</u>	% change from month <u>one year prior</u>	Year Ending Average Daily Gasoline Sales for <u>North Carolina</u>	% change from one <u>year prior</u>
Jan	2010	9,982.5	-3.5%	11,181.5	1.6%
Feb	2010	10,718.4	-5.1%	11,133.3	1.1%
Mar	2010	11,125.0	0.9%	11,141.7	1.2%
Apr	2010	11,561.2	-0.5%	11,136.5	0.9%
May	2010	11,719.8	3.1%	11,165.9	1.1%
Jun	2010	11,720.3	-1.2%	11,154.2	0.4%
Jul	2010	11,858.9	2.5%	11,178.5	0.3%
Aug	2010	11,813.8	2.7%	11,204.4	0.3%
Sep	2010	11,615.8	3.4%	11,236.0	-0.4%
Oct	2010	11,420.2	3.7%	11,269.8	0.3%
Nov	2010	11,371.1	5.7%	11,321.2	0.9%
Dec	2010	11,317.4	3.4%	11,352.0	1.3%
Jan	2011	10,215.5	2.3%	11,371.5	1.7%
Feb	2011	11,069.1	3.3%	11,400.7	2.4%
Mar	2011	10,883.8	-2.2%	11,380.6	2.1%
Apr	2011	11,142.4	-3.6%	11,345.7	1.9%
May	2011	11,266.1	-3.9%	11,307.9	1.3%
Jun	2011	11,411.1	-2.6%	11,282.1	1.1%
Jul	2011	11,021.5	-7.1%	11,212.3	0.3%
Aug	2011	11,427.5	-3.3%	11,180.1	-0.2%
Sep	2011	11,195.7	-3.6%	11,145.1	-0.8%
Oct	2011	11,197.0	-2.0%	11,126.5	-1.3%
Nov	2011	11,207.4	-1.4%	11,112.9	-1.8%
Dec	2011	11,180.8	-1.2%	11,101.5	-2.2%
Jan	2012	9,913.7	-3.0%	11,076.3	-2.6%
Feb	2012	10,767.2	-2.7%	11,051.2	-3.1%
Mar	2012	10,829.7	-0.5%	11,046.7	-2.9%
Apr	2012	10,960.1	-1.6%	11,031.5	-2.8%
May	2012	11,251.0	-0.1%	11,030.2	-2.5%
Jun	2012	11,288.2	-1.1%	11,020.0	-2.3%
Jul	2012	10,857.4	-1.5%	11,006.3	-1.8%
Aug	2012	11,305.5	-1.1%	10,996.1	-1.6%
Sep	2012	10,946.4	-2.2%	10,975.4	-1.5%
Oct	2012	11,474.5	2.5%	10,998.5	-1.2%
Nov	2012	11,148.8	-0.5%	10,993.6	-1.1%
Dec	2012	10,632.8	-4.9%	10,947.9	-1.4%
Jan	2013	10,420.4	5.1%	10,990.2	-0.8%
Feb	2013	10,813.1	0.4%	10,994.0	-0.5%
Mar	2013	11,100.5	2.5%	11,016.6	-0.3%
Apr	2013	11,018.6	0.5%	11,021.4	-0.1%
May	2013	11,359.6	1.0%	11,030.5	0.0%
Jun	2013	10,953.6	-3.0%	11,002.6	-0.2%
Jul	2013	10,912.9	0.5%	11,007.2	0.0%
Aug	2013	11,301.4	0.0%	11,006.9	0.1%
Sep	2013	11,089.4	1.3%	11,018.8	0.4%
Oct	2013	11,147.5	-2.8%	10,991.6	-0.1%
Nov	2013	11,215.2	0.6%	10,997.1	0.0%

Monthly Gasoline Sales (in thousands of gallons/day)
Source: U.S. Energy Information Administration
Total Gasoline - All Sales/Deliveries by Prime Suppliers

		Average Daily Gasoline Sales for <u>North Carolina</u>	% change from month <u>one year prior</u>	Year Ending Average Daily Gasoline Sales for <u>North Carolina</u>	% change from one <u>year prior</u>
Dec	2013	10,821.9	1.8%	11,012.8	0.6%
Jan	2014	10,186.9	-2.2%	10,993.4	0.0%
Feb	2014	10,375.8	-4.0%	10,956.9	-0.3%
Mar	2014	11,011.4	-0.8%	10,949.5	-0.6%
Apr	2014	11,179.0	1.5%	10,962.9	-0.5%
May	2014	11,634.7	2.4%	10,985.8	-0.4%
Jun	2014	11,435.0	4.4%	11,025.9	0.2%
Jul	2014	11,551.4	5.9%	11,079.1	0.7%
Aug	2014	11,481.9	1.6%	11,094.2	0.8%
Sep	2014	11,154.1	0.6%	11,099.6	0.7%
Oct	2014	11,900.8	6.8%	11,162.3	1.6%
Nov	2014	11,288.8	0.7%	11,168.5	1.6%
Dec	2014	11,371.8	5.1%	11,214.3	1.8%
Jan	2015	10,608.7	4.1%	11,249.5	2.3%
Feb	2015	10,820.5	4.3%	11,286.5	3.0%
Mar	2015	11,339.7	3.0%	11,313.9	3.3%
Apr	2015	11,808.3	5.6%	11,366.3	3.7%
May	2015	12,129.0	4.2%	11,407.5	3.8%
Jun	2015	12,284.0	7.4%	11,478.3	4.1%
Jul	2015	12,246.1	6.0%	11,536.1	4.1%
Aug	2015	12,011.0	4.6%	11,580.2	4.4%
Sep	2015	11,844.4	6.2%	11,637.8	4.8%
Oct	2015	11,887.4	-0.1%	11,636.6	4.2%
Nov	2015	11,666.8	3.3%	11,668.1	4.5%
Dec	2015	11,553.4	1.6%	11,683.3	4.2%
Jan	2016	10,819.9	2.0%	11,700.9	4.0%
Feb	2016	11,710.8	8.2%	11,775.1	4.3%
Mar	2016	12,061.1	6.4%	11,835.2	4.6%
Apr	2016	12,190.1	3.2%	11,867.0	4.4%
May	2016	12,151.1	0.2%	11,868.8	4.0%
Jun	2016	12,603.9	2.6%	11,895.5	3.6%
Jul	2016	12,462.7	1.8%	11,913.6	3.3%
Aug	2016	12,654.5	5.4%	11,967.2	3.3%
Sep	2016	11,953.1	0.9%	11,976.2	2.9%
Oct	2016	12,280.2	3.3%	12,009.0	3.2%
Nov	2016	12,275.1	5.2%	12,059.7	3.4%
Dec	2016	11,863.9	2.7%	12,085.5	3.4%
Jan	2017	10,955.7	1.3%	12,096.9	3.4%
Feb	2017	11,746.9	0.3%	12,099.9	2.8%
Mar	2017	12,206.7	1.2%	12,112.0	2.3%
Apr	2017	12,409.7	1.8%	12,130.3	2.2%
May	2017	12,456.2	2.5%	12,155.7	2.4%
Jun	2017	12,780.4	1.4%	12,170.4	2.3%
Jul	2017	12,630.1	1.3%	12,184.4	2.3%
Aug	2017	13,057.6	3.2%	12,218.0	2.1%
Sep	2017	12,233.0	2.3%	12,241.3	2.2%

MILES DRIVEN AND GASOLINE CONSUMPTION - U.S. TOTAL

	Miles Driven (billions of miles)	Year ending Miles Driven (billions of miles)	% Change from Year Prior	Average Gasoline Consumption* (million gallons/day)	Year ending Avg. Gasoline Consumption* (million gallons/day)	% Change from Year Prior
1/11	221.3	2,974.1	1.8%	333.3	362.0	0.0%
2/11	212.2	2,967.1	1.5%	347.3	361.4	0.0%
3/11	249.1	2,967.1	1.4%	352.6	361.1	0.1%
4/11	248.2	2,962.4	1.1%	353.2	360.0	0.0%
5/11	252.7	2,954.7	0.7%	353.2	358.6	-0.4%
6/11	256.5	2,950.7	0.3%	363.3	357.4	-1.0%
7/11	259.1	2,942.0	-0.3%	359.2	356.1	-1.7%
8/11	259.4	2,938.4	-0.7%	370.1	355.9	-1.8%
9/11	240.7	2,935.0	-1.1%	359.6	355.5	-2.3%
10/11	250.7	2,931.1	-1.3%	355.4	355.1	-2.2%
11/11	237.2	2,929.1	-1.6%	355.1	355.2	-2.1%
12/11	243.6	2,930.7	-1.6%	356.7	354.9	-2.2%
1/12	225.7	2,935.1	-1.3%	326.2	354.3	-2.1%
2/12	217.7	2,940.6	-0.9%	343.5	354.0	-2.0%
3/12	252.5	2,944.0	-0.8%	344.3	353.3	-2.2%
4/12	248.3	2,944.1	-0.6%	346.1	352.7	-2.0%
5/12	259.9	2,951.3	-0.1%	354.0	352.8	-1.6%
6/12	259.0	2,953.8	0.1%	362.3	352.7	-1.3%
7/12	259.4	2,954.1	0.4%	353.5	352.2	-1.1%
8/12	263.6	2,958.3	0.7%	360.9	351.5	-1.3%
9/12	238.0	2,955.6	0.7%	341.1	349.9	-1.6%
10/12	252.9	2,957.8	0.9%	351.4	349.6	-1.5%
11/12	239.8	2,960.4	1.1%	344.2	348.7	-1.8%
12/12	237.6	2,954.4	0.8%	339.4	347.2	-2.2%
1/13	226.7	2,955.4	0.7%	332.8	347.8	-1.8%
2/13	214.5	2,952.2	0.4%	341.5	347.6	-1.8%
3/13	248.6	2,948.3	0.1%	345.9	347.8	-1.6%
4/13	250.1	2,950.1	0.2%	351.7	348.2	-1.3%
5/13	261.8	2,952.0	0.0%	357.6	348.5	-1.2%
6/13	258.0	2,951.0	-0.1%	359.5	348.3	-1.3%
7/13	262.8	2,954.4	0.0%	356.0	348.5	-1.1%
8/13	266.7	2,957.5	0.0%	360.6	348.5	-0.9%
9/13	241.0	2,960.5	0.2%	344.8	348.8	-0.3%
10/13	257.6	2,965.2	0.3%	347.9	348.5	-0.3%
11/13	238.5	2,963.9	0.1%	345.4	348.6	0.0%
12/13	239.5	2,965.8	0.4%	339.8	348.6	0.4%
1/14	226.4	2,965.5	0.3%	322.5	347.8	0.0%
2/14	215.2	2,966.2	0.5%	335.0	347.2	-0.1%
3/14	252.1	2,969.7	0.7%	340.4	346.8	-0.3%
4/14	257.9	2,977.5	0.9%	346.4	346.3	-0.5%

Source: U. S. Department of Transportation, Federal Highway Administration
U. S. Energy Information Administration

* All Sales/Deliveries by Prime Suppliers

MILES DRIVEN AND GASOLINE CONSUMPTION - U.S. TOTAL

	Miles Driven (billions of miles)	Year ending Miles Driven (billions of miles)	% Change from Year Prior	Average Gasoline Consumption* (million gallons/day)	Year ending Avg. Gasoline Consumption* (million gallons/day)	% Change from Year Prior
5/14	268.1	2,983.8	1.1%	354.7	346.1	-0.7%
6/14	264.9	2,990.7	1.3%	353.3	345.6	-0.8%
7/14	272.3	3,000.2	1.6%	356.1	345.6	-0.8%
8/14	271.0	3,004.5	1.6%	355.0	345.1	-1.0%
9/14	249.1	3,012.6	1.8%	345.8	345.2	-1.0%
10/14	267.2	3,022.2	1.9%	355.0	345.8	-0.8%
11/14	242.8	3,026.5	2.1%	347.2	345.9	-0.8%
12/14	253.6	3,040.6	2.5%	348.0	346.6	-0.6%
1/15	235.9	3,050.1	2.9%	336.5	347.8	0.0%
2/15	219.8	3,054.7	3.0%	350.7	349.1	0.5%
3/15	260.4	3,063.0	3.1%	353.3	350.2	1.0%
4/15	265.9	3,071.0	3.1%	364.0	351.6	1.5%
5/15	273.9	3,076.8	3.1%	363.2	352.3	1.8%
6/15	273.7	3,085.6	3.2%	373.6	354.0	2.5%
7/15	281.8	3,095.1	3.2%	374.6	355.6	2.9%
8/15	275.6	3,099.7	3.2%	371.2	356.9	3.4%
9/15	258.0	3,108.6	3.2%	365.6	358.6	3.9%
10/15	271.7	3,113.1	3.0%	364.1	359.3	3.9%
11/15	251.4	3,121.7	3.1%	357.8	360.2	4.1%
12/15	262.4	3,130.5	3.0%	357.5	361.0	4.2%
1/16	236.5	3,131.1	2.7%	342.2	361.5	3.9%
2/16	229.0	3,140.3	2.8%	360.5	362.3	3.8%
3/16	269.7	3,149.6	2.8%	366.8	363.4	3.8%
4/16	268.4	3,152.1	2.6%	370.8	364.0	3.5%
5/16	275.3	3,153.5	2.5%	374.0	364.9	3.6%
6/16	277.5	3,157.3	2.3%	389.7	366.2	3.4%
7/16	281.4	3,156.9	2.0%	385.2	367.1	3.2%
8/16	279.4	3,160.7	2.0%	384.7	368.2	3.2%
9/16	261.8	3,164.5	1.8%	375.5	369.1	2.9%
10/16	271.7	3,164.5	1.7%	373.7	369.9	2.9%
11/16	258.6	3,171.7	1.6%	369.8	370.9	3.0%
12/16	260.0	3,169.3	1.2%	367.6	371.7	3.0%
1/17	242.2	3,175.0	1.4%	343.5	371.8	2.9%
2/17	233.1	3,179.1	1.2%	359.4	371.7	2.6%
3/17	271.9	3,181.3	1.0%	372.6	372.2	2.4%
4/17	271.7	3,184.6	1.0%	375.5	372.6	2.4%
5/17	281.2	3,190.5	1.2%	383.9	373.4	2.3%
6/17	280.9	3,193.9	1.2%	393.2	373.7	2.0%
7/17	283.5	3,196.0	1.2%	383.9	373.6	1.8%
8/17	283.3	3,199.9	1.2%	392.0	374.2	1.6%
9/17	262.5	3,200.6	1.1%	375.1	374.2	1.4%

Source: U. S. Department of Transportation, Federal Highway Administration
U. S. Energy Information Administration

* All Sales/Deliveries by Prime Suppliers

COMPONENTS OF THE CPI INDEX
MONTHLY PERCENT CHANGES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	CPI-U:	CPI-U:	CPI-U:	CPI-U:	Weekly	CPI-U:	PPI:	PPI:
<u>Month</u>	<u>All Items</u>	<u>Med. Care</u>	<u>Phys. Serv.</u>	<u>Hospital & Other Related Services</u>	<u>Income</u>	<u>Auto Bodywork</u>	<u>All Items</u>	<u>Metal/MPR</u>
11/2012	-0.5%	0.1%	0.0%	0.7%	0.6%	0.2%	-0.8%	0.0%
12/2012	-0.3%	0.0%	-0.1%	0.3%	0.2%	0.4%	-0.1%	0.6%
1/2013	0.3%	0.5%	0.4%	0.6%	0.0%	0.1%	0.5%	-0.3%
2/2013	0.8%	0.6%	0.3%	1.4%	0.8%	0.2%	0.9%	-0.1%
3/2013	0.3%	0.2%	0.1%	0.2%	0.1%	0.2%	-0.1%	-0.1%
4/2013	-0.1%	-0.1%	0.3%	-0.7%	-0.2%	0.3%	-0.2%	-0.6%
5/2013	0.2%	-0.2%	0.0%	-0.2%	0.1%	0.1%	0.3%	-1.2%
6/2013	0.2%	0.3%	0.5%	0.4%	0.3%	0.0%	0.1%	-0.3%
7/2013	0.0%	0.1%	-0.1%	0.2%	-0.4%	0.3%	0.0%	-0.2%
8/2013	0.1%	0.5%	0.0%	1.4%	0.7%	0.1%	-0.1%	0.6%
9/2013	0.1%	0.3%	0.1%	0.6%	-0.1%	0.8%	-0.1%	-0.3%
10/2013	-0.3%	0.0%	0.1%	-0.1%	0.2%	0.1%	-0.7%	0.0%
11/2013	-0.2%	-0.1%	0.1%	-0.1%	0.5%	-0.1%	-0.6%	0.4%
12/2013	0.0%	-0.2%	0.3%	0.1%	-0.3%	0.1%	0.3%	0.4%
1/2014	0.4%	0.6%	0.1%	1.0%	0.5%	0.4%	1.0%	0.8%
2/2014	0.4%	0.7%	0.0%	1.4%	-0.1%	0.9%	0.9%	-0.2%
3/2014	0.6%	0.1%	0.1%	0.5%	0.8%	0.2%	0.6%	-0.4%
4/2014	0.3%	0.2%	0.3%	0.2%	0.1%	0.2%	0.6%	0.4%
5/2014	0.3%	0.2%	0.3%	0.0%	0.2%	0.1%	-0.1%	0.1%
6/2014	0.2%	0.1%	-0.1%	0.0%	0.2%	0.2%	0.1%	-0.1%
7/2014	0.0%	0.1%	-0.1%	0.3%	0.1%	-0.2%	-0.1%	0.6%
8/2014	-0.2%	0.0%	0.4%	-0.3%	0.6%	0.1%	-0.5%	0.2%
9/2014	0.1%	0.2%	0.0%	0.3%	-0.3%	-0.1%	-0.2%	0.2%
10/2014	-0.3%	0.1%	0.0%	0.3%	0.4%	0.0%	-1.4%	-1.0%
11/2014	-0.5%	0.3%	0.3%	0.3%	0.2%	0.1%	-1.2%	-0.7%
12/2014	-0.6%	0.3%	0.2%	0.3%	0.0%	0.3%	-1.8%	-0.4%
1/2015	-0.5%	0.3%	0.3%	0.6%	0.0%	0.2%	-2.8%	-0.6%
2/2015	0.4%	0.4%	-0.4%	0.6%	0.3%	-0.3%	-0.5%	-2.1%
3/2015	0.6%	0.3%	0.6%	0.4%	0.0%	0.1%	0.2%	-0.7%
4/2015	0.2%	0.6%	0.4%	1.3%	-0.2%	0.3%	-0.3%	-0.6%
5/2015	0.5%	0.1%	0.0%	0.2%	0.3%	0.2%	1.3%	-0.1%
6/2015	0.4%	-0.2%	0.4%	-0.9%	0.3%	-0.1%	0.7%	-0.3%
7/2015	0.0%	0.1%	0.2%	0.0%	0.2%	0.2%	-0.5%	-1.3%
8/2015	-0.1%	-0.1%	-0.3%	-0.2%	0.3%	-0.3%	-1.0%	-1.5%
9/2015	-0.2%	0.2%	0.2%	0.3%	0.1%	0.0%	-1.5%	-0.6%
10/2015	0.0%	0.6%	-0.1%	1.8%	0.4%	0.9%	-0.8%	-1.3%
11/2015	-0.2%	0.3%	1.1%	-0.1%	0.1%	0.1%	-1.0%	-1.7%
12/2015	-0.3%	-0.1%	-0.1%	-0.1%	0.4%	0.0%	-1.2%	-1.0%
1/2016	0.2%	0.7%	0.2%	0.9%	0.0%	0.1%	-0.5%	-0.4%
2/2016	0.1%	0.9%	0.3%	1.2%	0.1%	0.4%	-0.7%	0.2%
3/2016	0.4%	0.1%	0.2%	-0.2%	-0.1%	0.4%	0.4%	1.0%
4/2016	0.5%	0.3%	0.1%	0.2%	0.3%	0.1%	0.6%	1.3%
5/2016	0.4%	0.3%	0.9%	0.3%	0.1%	0.2%	1.1%	1.3%
6/2016	0.3%	0.2%	0.4%	-0.1%	0.2%	0.1%	1.2%	0.0%
7/2016	-0.2%	0.5%	0.6%	0.3%	0.6%	0.4%	0.1%	0.7%
8/2016	0.1%	0.9%	0.5%	1.2%	-0.2%	0.0%	-0.6%	0.6%
9/2016	0.2%	0.2%	0.0%	0.1%	0.2%	-0.4%	0.2%	-0.8%
10/2016	0.1%	0.0%	-0.2%	0.3%	0.2%	1.0%	-0.1%	-0.7%
11/2016	-0.2%	0.0%	0.7%	0.0%	0.1%	1.0%	-0.2%	0.8%
12/2016	0.0%	0.0%	0.1%	0.0%	0.3%	-0.4%	1.0%	1.5%
1/2017	0.6%	0.5%	0.1%	0.7%	0.1%	0.2%	1.3%	1.4%
2/2017	0.3%	0.6%	0.1%	1.2%	0.1%	0.1%	0.5%	1.1%
3/2017	0.1%	0.0%	-0.4%	0.2%	0.2%	0.4%	-0.1%	0.9%
4/2017	0.3%	-0.2%	-1.1%	0.7%	0.6%	0.4%	0.8%	0.2%
5/2017	0.1%	0.0%	-0.2%	-0.1%	0.1%	0.0%	-0.1%	0.2%
6/2017	0.1%	0.2%	-0.4%	0.5%	0.2%	-0.4%	0.4%	0.1%
7/2017	-0.1%	0.4%	0.1%	0.3%	0.3%	0.1%	-0.1%	0.0%
8/2017	0.3%	0.2%	0.3%	0.0%	-0.1%	0.2%	0.2%	0.6%
9/2017	0.5%	-0.1%	0.0%	0.3%	0.4%	0.5%	0.4%	1.2%

COMPONENTS OF THE CPI INDEX
ANNUAL PERCENT CHANGES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	CPI-U:	CPI-U:	CPI-U:	CPI-U:	Weekly	CPI-U:	PPI:	PPI:
<u>Month</u>	<u>All Items</u>	<u>Med. Care</u>	<u>Phys. Serv.</u>	<u>Hospital & Other Related Services</u>	<u>Income</u>	<u>Auto Bodywork</u>	<u>All Items</u>	<u>Metal/MPR</u>
11/2012	1.8%	3.4%	2.3%	4.2%	1.4%	2.0%	0.2%	-2.9%
12/2012	1.7%	3.2%	2.0%	4.6%	1.6%	2.3%	0.9%	-2.2%
1/2013	1.6%	3.1%	2.2%	4.4%	1.3%	2.2%	0.9%	-3.1%
2/2013	2.0%	3.1%	2.5%	5.0%	2.3%	2.2%	1.3%	-3.9%
3/2013	1.5%	3.1%	2.5%	5.2%	2.2%	2.1%	-0.1%	-4.0%
4/2013	1.1%	2.7%	2.7%	4.0%	1.7%	2.3%	-0.1%	-4.2%
5/2013	1.4%	2.2%	2.4%	3.6%	2.2%	2.3%	1.1%	-4.6%
6/2013	1.8%	2.1%	2.2%	3.4%	2.0%	2.0%	2.3%	-3.1%
7/2013	2.0%	1.9%	1.7%	3.2%	1.4%	2.2%	2.1%	-2.0%
8/2013	1.5%	2.3%	1.5%	5.2%	2.4%	2.2%	0.7%	-1.5%
9/2013	1.2%	2.4%	1.2%	5.4%	2.2%	2.7%	-0.2%	-2.7%
10/2013	1.0%	2.3%	1.4%	4.9%	2.3%	2.7%	-0.5%	-2.0%
11/2013	1.2%	2.2%	1.5%	4.1%	2.3%	2.4%	-0.3%	-1.6%
12/2013	1.5%	2.0%	1.9%	3.9%	1.7%	2.1%	0.1%	-1.7%
1/2014	1.6%	2.1%	1.6%	4.4%	2.2%	2.5%	0.6%	-0.6%
2/2014	1.1%	2.3%	1.3%	4.4%	1.2%	3.1%	0.7%	-0.7%
3/2014	1.5%	2.2%	1.4%	4.7%	2.0%	3.2%	1.5%	-0.9%
4/2014	2.0%	2.4%	1.4%	5.5%	2.3%	3.1%	2.4%	0.0%
5/2014	2.1%	2.8%	1.7%	5.8%	2.4%	3.1%	1.9%	1.4%
6/2014	2.1%	2.6%	1.1%	5.4%	2.3%	3.3%	2.0%	1.6%
7/2014	2.0%	2.6%	1.1%	5.5%	2.9%	2.7%	1.8%	2.4%
8/2014	1.7%	2.1%	1.5%	3.8%	2.8%	2.7%	1.4%	2.0%
9/2014	1.7%	2.0%	1.4%	3.5%	2.6%	1.8%	1.2%	2.5%
10/2014	1.7%	2.1%	1.3%	3.9%	2.8%	1.6%	0.5%	1.5%
11/2014	1.3%	2.5%	1.5%	4.3%	2.5%	1.9%	0.0%	0.3%
12/2014	0.8%	3.0%	1.5%	4.5%	2.8%	2.1%	-2.1%	-0.5%
1/2015	-0.1%	2.6%	1.7%	4.1%	2.4%	1.9%	-5.8%	-1.9%
2/2015	0.0%	2.3%	1.2%	3.3%	2.8%	0.6%	-7.1%	-3.8%
3/2015	-0.1%	2.5%	1.7%	3.1%	2.0%	0.5%	-7.5%	-4.1%
4/2015	-0.2%	2.9%	1.9%	4.3%	1.7%	0.7%	-8.4%	-5.0%
5/2015	0.0%	2.8%	1.6%	4.5%	1.8%	0.8%	-7.0%	-5.2%
6/2015	0.1%	2.5%	2.1%	3.5%	1.9%	0.5%	-6.5%	-5.4%
7/2015	0.2%	2.5%	2.5%	3.2%	2.0%	1.0%	-6.8%	-7.3%
8/2015	0.2%	2.5%	1.8%	3.3%	1.7%	0.6%	-7.3%	-8.8%
9/2015	0.0%	2.5%	2.0%	3.3%	2.2%	0.7%	-8.4%	-9.5%
10/2015	0.2%	3.0%	1.9%	4.9%	2.2%	1.7%	-7.9%	-9.8%
11/2015	0.5%	2.9%	2.7%	4.4%	2.1%	1.7%	-7.7%	-10.6%
12/2015	0.7%	2.6%	2.4%	4.0%	2.5%	1.5%	-7.1%	-11.2%
1/2016	1.4%	3.0%	2.3%	4.3%	2.1%	1.4%	-4.9%	-11.0%
2/2016	1.0%	3.5%	3.0%	4.9%	2.3%	2.1%	-5.1%	-8.9%
3/2016	0.9%	3.3%	2.5%	4.3%	2.3%	2.4%	-4.9%	-7.4%
4/2016	1.1%	3.0%	2.1%	3.1%	2.3%	2.2%	-4.0%	-5.6%
5/2016	1.0%	3.1%	3.0%	3.3%	2.1%	2.2%	-4.2%	-4.2%
6/2016	1.0%	3.5%	3.0%	4.1%	2.1%	2.4%	-3.7%	-3.9%
7/2016	0.8%	3.9%	3.4%	4.4%	2.4%	2.5%	-3.2%	-1.9%
8/2016	1.1%	4.9%	4.3%	5.8%	2.1%	2.8%	-2.8%	0.1%
9/2016	1.5%	4.9%	4.1%	5.6%	1.9%	2.4%	-1.2%	-0.1%
10/2016	1.6%	4.3%	4.0%	4.1%	2.1%	2.4%	-0.4%	0.5%
11/2016	1.7%	4.0%	3.6%	4.2%	2.1%	3.4%	0.3%	3.0%
12/2016	2.1%	4.1%	3.8%	4.3%	1.9%	2.9%	2.6%	5.7%
1/2017	2.5%	3.9%	3.8%	4.0%	2.0%	3.0%	4.4%	7.5%
2/2017	2.7%	3.5%	3.6%	4.1%	2.1%	2.7%	5.7%	8.4%
3/2017	2.4%	3.5%	3.0%	4.5%	2.3%	2.7%	5.2%	8.4%
4/2017	2.2%	3.0%	1.9%	5.1%	2.6%	2.9%	5.3%	7.2%
5/2017	1.9%	2.7%	0.8%	4.6%	2.7%	2.8%	4.0%	5.9%
6/2017	1.6%	2.7%	0.0%	5.3%	2.7%	2.2%	3.2%	6.1%
7/2017	1.7%	2.6%	-0.6%	5.3%	2.3%	1.9%	3.0%	5.4%
8/2017	1.9%	1.8%	-0.8%	4.1%	2.4%	2.1%	3.8%	5.5%
9/2017	2.2%	1.6%	-0.8%	4.3%	2.6%	3.1%	4.1%	7.6%

CPI INDEX ALL ITEMS (URBAN) - LESS ENERGY
ANNUAL PERCENT CHANGE

	(1)	(2)		(1)	(2)
		Annual			Annual
<u>Month</u>	<u>Index</u>	<u>Percentage</u>	<u>Month</u>	<u>Index</u>	<u>Percentage</u>
		<u>Change</u>			<u>Change</u>
9/2011	2.263	2.4%	9/2014	2.390	1.9%
10/2011	2.268	2.5%	10/2014	2.396	2.0%
11/2011	2.268	2.5%	11/2014	2.395	1.9%
12/2011	2.268	2.6%	12/2014	2.392	1.9%
1/2012	2.274	2.6%	1/2015	2.397	1.9%
2/2012	2.279	2.4%	2/2015	2.404	1.9%
3/2012	2.287	2.4%	3/2015	2.411	1.8%
4/2012	2.293	2.4%	4/2015	2.418	1.8%
5/2012	2.295	2.3%	5/2015	2.420	1.7%
6/2012	2.298	2.3%	6/2015	2.423	1.8%
7/2012	2.298	2.1%	7/2015	2.424	1.8%
8/2012	2.301	1.9%	8/2015	2.427	1.8%
9/2012	2.307	1.9%	9/2015	2.435	1.9%
10/2012	2.312	1.9%	10/2015	2.441	1.9%
11/2012	2.312	1.9%	11/2015	2.440	1.9%
12/2012	2.310	1.9%	12/2015	2.437	1.9%
1/2013	2.317	1.9%	1/2016	2.445	2.0%
2/2013	2.324	1.9%	2/2016	2.455	2.1%
3/2013	2.329	1.8%	3/2016	2.459	2.0%
4/2013	2.331	1.7%	4/2016	2.465	2.0%
5/2013	2.333	1.6%	5/2016	2.469	2.0%
6/2013	2.335	1.6%	6/2016	2.471	2.0%
7/2013	2.336	1.7%	7/2016	2.470	1.9%
8/2013	2.341	1.7%	8/2016	2.475	2.0%
9/2013	2.345	1.7%	9/2016	2.479	1.8%
10/2013	2.349	1.6%	10/2016	2.484	1.8%
11/2013	2.349	1.6%	11/2016	2.483	1.7%
12/2013	2.348	1.6%	12/2016	2.482	1.8%
1/2014	2.352	1.5%	1/2017	2.491	1.9%
2/2014	2.359	1.5%	2/2017	2.501	1.9%
3/2014	2.368	1.7%	3/2017	2.503	1.8%
4/2014	2.374	1.8%	4/2017	2.507	1.7%
5/2014	2.380	2.0%	5/2017	2.509	1.6%
6/2014	2.381	2.0%	6/2017	2.510	1.6%
7/2014	2.382	2.0%	7/2017	2.510	1.6%
8/2014	2.385	1.9%	8/2017	2.515	1.6%
			9/2017	2.520	1.6%

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
FOR 2018 BASE
CALCULATION OF MODEL YEAR RELATIVITY
BEFORE OCTOBER 1, 2018

Automobile Model Year	Comprehensive Exposure Distribution	Comprehensive Model Year Relativity	Collision Exposure Distribution	Collision Model Year Relativity
2018	0.053	1.000	0.052	1.000
2017	0.075	0.970	0.076	0.930
2016	0.070	0.930	0.073	0.870
2015	0.073	0.890	0.078	0.810
2014	0.066	0.860	0.070	0.750
2013	0.058	0.820	0.062	0.700
2012	0.052	0.780	0.055	0.660
2011	0.040	0.740	0.043	0.610
2010	0.059	0.710	0.063	0.570
2009 & PRIOR	0.454	0.650	0.428	0.470
(1) Average		0.767		0.645

AFTER OCTOBER 1, 2018 (INTRODUCTION OF 2019 MODEL)

Automobile Model Year	Comprehensive Exposure Distribution	Comprehensive Model Year Relativity	Collision Exposure Distribution	Collision Model Year Relativity
2019	0.047	1.030	0.047	1.070
2018	0.063	1.000	0.065	1.000
2017	0.066	0.970	0.068	0.930
2016	0.074	0.930	0.077	0.870
2015	0.081	0.890	0.084	0.810
2014	0.072	0.860	0.076	0.750
2013	0.075	0.820	0.080	0.700
2012	0.064	0.780	0.068	0.660
2011	0.055	0.740	0.058	0.610
2010	0.046	0.710	0.048	0.570
2009 & PRIOR	0.357	0.650	0.329	0.470
(2) Average		0.795		0.689

AFTER OCTOBER 1, 2019 (INTRODUCTION OF 2020 MODEL)

Automobile Model Year	Comprehensive Exposure Distribution	Comprehensive Model Year Relativity	Collision Exposure Distribution	Collision Model Year Relativity
2020	0.047	1.050	0.047	1.110
2019	0.062	1.030	0.064	1.070
2018	0.066	1.000	0.069	1.000
2017	0.067	0.970	0.070	0.930
2016	0.076	0.930	0.079	0.870
2015	0.081	0.890	0.084	0.810
2014	0.073	0.860	0.078	0.750
2013	0.073	0.820	0.078	0.700
2012	0.062	0.780	0.065	0.660
2011	0.052	0.740	0.055	0.610
2010	0.043	0.710	0.044	0.570
2009 & PRIOR	0.298	0.650	0.267	0.470
(3) Average		0.821		0.732

(4) Number of months from effective date to 10/1/2019: 12

(5) Average relativity based on an effective date of 10/1/2018:
 Comp: $(0.795 \times 4) + 0.821 \times (12 - 4) / 12 = 0.795$
 Coll: $(0.689 \times 4) + 0.732 \times (12 - 4) / 12 = 0.689$

(6) Model year trend factor:
 Comp: $(5) / 0.767 = 1.037$
 Coll: $(5) / 0.645 = 1.068$

NORTH CAROLINA
PRIVATE PASSENGER AUTOMOBILE INSURANCE
CALCULATION OF SYMBOL TREND FACTORS

A. Average Symbol Relativity of Experience Period:

Year ended	Comp	Coll
06/30/2016	1.976	1.455

B. Summary of Average Symbol Relativities by year-ended quarter for determining symbol trend for the prospective effective date.

Year ended	Comp	Coll
09/30/2018	2.089	1.493
12/31/2018	2.101	1.497
03/31/2019	2.113	1.500
06/30/2019	2.131	1.505
09/30/2019	2.145	1.510
12/31/2019	2.158	1.514
03/31/2020	2.172	1.517
06/30/2020	2.189	1.523
09/30/2020	2.204	1.527
12/31/2020	2.217	1.531

C. Proposed Projection Date: 7/16/2019

D. Number of months to next year ended quarter (in B above): 2.47

E. Average Symbol Relativity as of prior year ended quarter:

Year ended	Comp	Coll
06/30/2019	2.131	1.505

F. Average Symbol Relativity as of next year ended quarter:

Year ended	Comp	Coll
09/30/2019	2.145	1.510

G. Average Symbol Relativity as of Projection Date (Date in C above):
(D/3)(E) + ((3-D)/3)(F) = Av. Sym. Rel.

COMP: (2.47 / 3) 2.131 + (0.53 / 3) 2.145 = 2.133
 COLL: (2.47 / 3) 1.505 + (0.53 / 3) 1.510 = 1.506

H. Symbol Trend Factors: (G)/(A)
 Year-Ended 12/31/2016
 Comp: 2.133 / 1.976 = 1.079
 Coll: 1.506 / 1.455 = 1.035

I. Annualized Trends:
 (H)^(1 / 3.04)
 Year-Ended 12/31/2016
 Comp: 2.5%
 Coll: 1.1%

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Bodily Injury Total Limits Incurred Losses as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2003					703,757,654
2004				733,414,047	733,021,137
2005			719,752,602	726,341,510	724,279,324
2006		729,044,805	755,059,193	759,412,892	757,537,429
2007	672,298,246	754,301,249	769,117,018	771,660,808	770,562,365
2008	679,520,052	736,955,645	752,606,768	754,898,979	751,043,783
2009	743,063,871	805,971,456	822,808,711	824,559,586	822,482,993
2010	749,121,544	811,793,162	821,767,319	822,060,565	821,124,171
2011	769,451,348	809,237,586	819,356,952	822,867,717	821,035,146
2012	782,355,728	819,333,294	828,252,158	829,183,979	829,247,603
2013	767,539,013	810,001,710	823,606,963	830,788,131	
2014	766,619,149	824,010,768	843,983,925		
2015	810,170,619	893,350,720			
2016	870,280,785				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				0.999
2005			1.009	0.997
2006		1.036	1.006	0.998
2007	1.122	1.020	1.003	0.999
2008	1.085	1.021	1.003	0.995
2009	1.085	1.021	1.002	0.997
2010	1.084	1.012	1.000	0.999
2011	1.052	1.013	1.004	0.998
2012	1.047	1.011	1.001	1.000
2013	1.055	1.017	1.009	
2014	1.075	1.024		
2015	1.103			
Five Year Average	1.066	1.015	1.003	0.998
Three Year Average	1.078	1.017	1.005	0.999
		Five Year	Three Year	
39 to 63 months:		1.001	1.004	
27 to 63 months:		1.016	1.021	
15 to 63 months:		1.083	1.101	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Property Damage Total Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2003					553,073,231
2004				565,402,098	565,293,901
2005			578,211,594	578,476,414	578,537,116
2006		600,531,291	601,871,788	602,497,738	602,092,739
2007	595,457,699	607,098,069	608,515,719	608,672,244	608,562,434
2008	592,717,548	607,585,089	608,059,698	608,308,805	608,233,572
2009	604,856,887	614,178,970	615,294,078	615,667,679	615,821,799
2010	618,016,628	629,572,991	631,101,652	631,458,376	631,388,802
2011	625,138,655	638,695,426	640,592,815	641,067,759	642,042,165
2012	655,991,128	674,387,749	678,278,339	679,160,845	679,064,830
2013	694,412,102	717,673,256	720,693,872	721,061,566	
2014	750,059,297	771,956,718	774,338,590		
2015	835,697,530	867,786,245			
2016	916,682,769				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.000
2005			1.000	1.000
2006		1.002	1.001	0.999
2007	1.020	1.002	1.000	1.000
2008	1.025	1.001	1.000	1.000
2009	1.015	1.002	1.001	1.000
2010	1.019	1.002	1.001	1.000
2011	1.022	1.003	1.001	1.002
2012	1.028	1.006	1.001	1.000
2013	1.033	1.004	1.001	
2014	1.029	1.003		
2015	1.038			
Five Year Average	1.030	1.004	1.001	1.000
Three Year Average	1.033	1.004	1.001	1.001
		Five Year	Three Year	
39 to 63 months:		1.001	1.002	
27 to 63 months:		1.005	1.006	
15 to 63 months:		1.035	1.039	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Medical Payments Total Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2003					92,750,269
2004				92,022,820	92,163,988
2005			90,335,758	90,619,975	90,645,560
2006		92,605,615	93,479,636	94,013,888	94,087,739
2007	91,227,312	92,076,899	93,238,755	93,617,508	93,731,836
2008	89,217,082	91,595,353	92,528,555	93,071,581	93,094,942
2009	97,861,611	99,396,195	100,919,154	101,171,878	101,257,049
2010	95,856,365	97,322,444	98,714,615	99,127,621	99,286,154
2011	93,143,438	96,316,801	97,215,011	97,814,666	98,115,360
2012	93,244,145	96,618,132	98,306,929	98,910,915	98,689,925
2013	92,538,232	95,842,790	97,860,162	97,858,080	
2014	90,997,474	95,512,681	96,850,397		
2015	95,948,353	100,415,430			
2016	102,148,005				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.002
2005			1.003	1.000
2006		1.009	1.006	1.001
2007	1.009	1.013	1.004	1.001
2008	1.027	1.010	1.006	1.000
2009	1.016	1.015	1.003	1.001
2010	1.015	1.014	1.004	1.002
2011	1.034	1.009	1.006	1.003
2012	1.036	1.017	1.006	0.998
2013	1.036	1.021	1.000	
2014	1.050	1.014		
2015	1.047			
Five Year Average	1.041	1.015	1.004	1.001
Three Year Average	1.044	1.017	1.004	1.001
		Five Year	Three Year	
39 to 63 months:		1.005	1.005	
27 to 63 months:		1.020	1.022	
15 to 63 months:		1.062	1.067	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Uninsured Motorists Bodily Injury Total Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2005			49,574,799	51,462,999	51,523,022
2006		52,487,912	54,414,755	55,559,544	54,573,136
2007	44,914,621	54,835,104	56,447,738	56,566,944	56,500,565
2008	38,089,204	43,739,711	45,188,593	44,820,473	44,572,390
2009	41,598,240	46,430,291	47,596,661	48,074,928	47,913,020
2010	38,794,256	42,305,218	42,618,169	42,891,595	42,707,631
2011	39,297,897	42,214,858	42,733,420	43,201,151	43,315,810
2012	40,489,188	41,520,729	43,130,211	42,949,643	42,838,388
2013	39,196,035	44,426,710	44,671,632	45,993,905	
2014	40,145,169	43,092,005	44,869,097		
2015	46,448,468	53,532,002			
2016	53,960,388				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.038	1.001
2006		1.037	1.021	0.982
2007	1.221	1.029	1.002	0.999
2008	1.148	1.033	0.992	0.994
2009	1.116	1.025	1.010	0.997
2010	1.091	1.007	1.006	0.996
2011	1.074	1.012	1.011	1.003
2012	1.025	1.039	0.996	0.997
2013	1.133	1.006	1.030	
2014	1.073	1.041		
2015	1.153			
Five Year Average	1.092	1.021	1.011	0.997
Three Year Average	1.120	1.029	1.012	0.999
		Five Year	Three Year	
39 to 63 months:		1.008	1.011	
27 to 63 months:		1.029	1.040	
15 to 63 months:		1.124	1.165	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Uninsured Motorists Property Damage Total Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2005			11,857,001	12,036,726	11,717,356
2006		10,591,730	10,823,682	10,699,672	10,636,645
2007	10,280,498	10,065,484	10,063,604	10,009,408	9,948,682
2008	10,175,750	9,976,888	9,916,835	9,921,650	9,952,367
2009	9,071,992	8,862,996	8,757,194	8,630,307	8,551,905
2010	9,185,077	8,771,415	8,492,821	8,372,137	8,312,198
2011	9,202,891	9,077,069	8,952,159	9,122,412	9,130,110
2012	9,174,333	8,836,530	8,710,242	8,745,025	8,529,582
2013	10,403,576	9,871,558	9,706,979	9,602,553	
2014	11,404,968	11,081,105	10,856,824		
2015	14,462,051	14,053,537			
2016	15,911,855				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.015	0.973
2006		1.022	0.989	0.994
2007	0.979	1.000	0.995	0.994
2008	0.980	0.994	1.000	1.003
2009	0.977	0.988	0.986	0.991
2010	0.955	0.968	0.986	0.993
2011	0.986	0.986	1.019	1.001
2012	0.963	0.986	1.004	0.975
2013	0.949	0.983	0.989	
2014	0.972	0.980		
2015	0.972			
Five Year Average	0.968	0.981	0.997	0.993
Three Year Average	0.964	0.983	1.004	0.990
		Five Year	Three Year	
39 to 63 months:		0.990	0.994	
27 to 63 months:		0.971	0.977	
15 to 63 months:		0.940	0.942	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Underinsured Motorists Bodily Injury Total Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2005			53,527,507	55,885,597	55,694,339
2006		56,358,725	63,536,503	67,208,011	67,299,495
2007	41,320,073	62,614,313	69,501,239	70,911,206	70,244,626
2008	38,680,862	57,471,072	66,471,314	66,685,860	66,212,828
2009	44,832,659	65,865,356	74,013,465	77,507,901	77,428,375
2010	44,504,567	64,908,685	72,849,253	76,038,277	75,505,050
2011	49,802,607	70,547,071	77,018,627	79,651,542	78,667,941
2012	49,392,980	64,491,829	70,101,556	75,074,826	74,933,697
2013	49,225,525	67,303,597	79,458,261	82,577,830	
2014	45,631,606	63,910,653	71,922,785		
2015	51,836,429	72,192,035			
2016	56,462,229				

Accident Year	Loss Development Factors			
	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.044	0.997
2006		1.127	1.058	1.001
2007	1.515	1.110	1.020	0.991
2008	1.486	1.157	1.003	0.993
2009	1.469	1.124	1.047	0.999
2010	1.458	1.122	1.044	0.993
2011	1.417	1.092	1.034	0.988
2012	1.306	1.087	1.071	0.998
2013	1.367	1.181	1.039	
2014	1.401	1.125		
2015	1.393			

Five Year Average	1.377	1.121	1.047	0.994
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Three Year Average	1.387	1.131	1.048	0.993
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	Five Year	Three Year
39 to 63 months:	1.041	1.041
27 to 63 months:	1.167	1.177
15 to 63 months:	1.607	1.632

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Bodily Injury Basic Limits Incurred Losses as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2003					587,822,056
2004				599,803,805	601,716,224
2005			593,727,721	599,911,132	601,141,186
2006		598,416,234	614,562,168	620,644,878	620,816,005
2007	566,258,904	615,386,763	626,175,066	629,464,168	630,359,444
2008	572,281,295	606,038,122	616,157,149	617,857,848	617,481,470
2009	636,778,268	666,202,319	675,496,873	677,961,158	678,378,046
2010	639,377,892	670,309,948	674,985,532	677,413,856	677,391,262
2011	654,278,886	671,130,623	676,256,932	679,413,783	679,001,826
2012	663,780,028	675,959,052	681,148,421	682,100,471	683,645,062
2013	659,776,040	675,365,278	679,850,899	688,547,520	
2014	654,759,462	685,511,442	699,517,445		
2015	696,388,761	745,205,663			
2016	745,284,306				

Loss Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.003
2005			1.010	1.002
2006		1.027	1.010	1.000
2007	1.087	1.018	1.005	1.001
2008	1.059	1.017	1.003	0.999
2009	1.046	1.014	1.004	1.001
2010	1.048	1.007	1.004	1.000
2011	1.026	1.008	1.005	0.999
2012	1.018	1.008	1.001	1.002
2013	1.024	1.007	1.013	
2014	1.047	1.020		
2015	1.070			
Five Year Average	1.037	1.010	1.005	1.000
Three Year Average	1.047	1.012	1.006	1.000
		Five Year	Three Year	
39 to 63 months:		1.005	1.006	
27 to 63 months:		1.015	1.018	
15 to 63 months:		1.053	1.066	

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Property Damage Basic Limits Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2003					549,478,260
2004				561,763,330	561,689,009
2005			574,152,924	574,496,556	574,527,902
2006		596,268,288	597,603,179	598,221,980	597,935,823
2007	591,554,570	602,565,320	603,840,287	604,144,875	604,051,595
2008	587,942,423	602,297,429	603,066,452	603,284,796	603,225,683
2009	600,163,831	609,446,256	610,523,213	610,899,239	611,030,537
2010	613,312,535	625,276,689	626,714,405	627,058,274	626,732,185
2011	620,421,933	633,888,047	635,716,024	636,104,411	636,935,467
2012	650,831,743	668,507,250	672,154,949	672,672,573	672,828,718
2013	687,781,171	711,283,573	713,953,296	714,436,894	
2014	742,337,687	763,487,631	765,503,500		
2015	825,271,105	856,569,050			
2016	905,299,931				

Accident Year	Loss Development Factors			
	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.000
2005			1.001	1.000
2006		1.002	1.001	1.000
2007	1.019	1.002	1.001	1.000
2008	1.024	1.001	1.000	1.000
2009	1.015	1.002	1.001	1.000
2010	1.020	1.002	1.001	0.999
2011	1.022	1.003	1.001	1.001
2012	1.027	1.005	1.001	1.000
2013	1.034	1.004	1.001	
2014	1.028	1.003		
2015	1.038			

Five Year Average	1.030	1.003	1.001	1.000
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Three Year Average	1.033	1.004	1.001	1.000
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	Five Year	Three Year
39 to 63 months:	1.001	1.001
27 to 63 months:	1.004	1.005
15 to 63 months:	1.034	1.038

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Uninsured Motorists Bodily Injury Basic Limits(a) Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2005			39,479,664	39,757,540	39,715,690
2006		40,093,058	41,331,165	42,341,333	41,876,741
2007	35,048,496	40,518,511	42,036,340	42,357,497	42,329,394
2008	31,123,709	34,679,457	35,314,601	35,156,235	35,012,875
2009	34,948,577	37,369,920	37,963,896	38,083,171	37,977,566
2010	33,128,529	34,513,310	35,048,748	34,996,530	34,900,303
2011	33,335,832	34,525,752	34,640,963	34,554,529	34,696,103
2012	33,462,492	33,713,284	34,551,106	34,514,725	34,418,519
2013	32,756,411	35,169,825	34,849,156	35,622,203	
2014	33,653,792	34,391,035	35,646,273		
2015	38,784,093	42,157,205			
2016	45,832,983				

Accident Year	Loss Development Factors			
	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.007	0.999
2006		1.031	1.024	0.989
2007	1.156	1.037	1.008	0.999
2008	1.114	1.018	0.996	0.996
2009	1.069	1.016	1.003	0.997
2010	1.042	1.016	0.999	0.997
2011	1.036	1.003	0.998	1.004
2012	1.007	1.025	0.999	0.997
2013	1.074	0.991	1.022	
2014	1.022	1.036		
2015	1.087			

Five Year Average	1.045	1.014	1.004	0.998
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Three Year Average	1.061	1.017	1.006	0.999
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	Five Year	Three Year
39 to 63 months:	1.002	1.005
27 to 63 months:	1.016	1.022
15 to 63 months:	1.062	1.084

(a) Losses are on a 30/60 level for all years.

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
LOSS DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Accident Year	Uninsured Motorists Property Damage Basic Limits(a) Incurred Losses as of				
	15 Months	27 Months	39 Months	51 Months	63 Months
2005			11,010,331	11,001,211	10,875,951
2006		10,589,161	10,645,817	10,538,603	10,459,168
2007	10,232,926	9,990,117	9,876,322	9,820,704	9,758,377
2008	10,058,060	9,615,746	9,532,457	9,530,747	9,473,651
2009	8,953,293	8,726,638	8,590,737	8,463,128	8,385,448
2010	8,797,980	8,384,004	8,111,207	7,990,523	7,930,584
2011	9,193,468	8,689,126	8,535,821	8,497,548	8,472,947
2012	8,892,102	8,515,853	8,390,011	8,324,069	8,209,351
2013	10,388,024	9,851,011	9,693,277	9,588,851	
2014	11,106,976	10,649,285	10,390,947		
2015	13,776,278	13,270,940			
2016	15,852,080				

Accident Year	Loss Development Factors			
	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			0.999	0.989
2006		1.005	0.990	0.992
2007	0.976	0.989	0.994	0.994
2008	0.956	0.991	1.000	0.994
2009	0.975	0.984	0.985	0.991
2010	0.953	0.967	0.985	0.992
2011	0.945	0.982	0.996	0.997
2012	0.958	0.985	0.992	0.986
2013	0.948	0.984	0.989	
2014	0.959	0.976		
2015	0.963			

Five Year Average	0.955	0.979	0.989	0.992
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Three Year Average	0.957	0.982	0.992	0.992
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	Five Year	Three Year
39 to 63 months:	0.981	0.984
27 to 63 months:	0.960	0.966
15 to 63 months:	0.917	0.924

(a) Losses are on a \$25,000 level for all years.

Losses exclude unallocated loss adjustment expense.

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Bodily Injury Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2003					100,738
2004				102,635	102,458
2005			99,751	99,539	99,370
2006		98,986	98,850	98,756	98,575
2007	98,152	96,975	96,769	96,531	96,427
2008	96,810	95,308	94,987	94,889	94,709
2009	104,108	101,985	101,909	101,763	101,663
2010	103,423	101,382	101,167	101,204	101,074
2011	101,059	98,822	98,815	98,791	98,767
2012	103,514	101,955	102,282	102,323	102,291
2013	102,357	100,878	100,801	101,136	
2014	102,497	101,370	101,989		
2015	112,037	112,118			
2016	113,292				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				0.998
2005			0.998	0.998
2006		0.999	0.999	0.998
2007	0.988	0.998	0.998	0.999
2008	0.984	0.997	0.999	0.998
2009	0.980	0.999	0.999	0.999
2010	0.980	0.998	1.000	0.999
2011	0.978	1.000	1.000	1.000
2012	0.985	1.003	1.000	1.000
2013	0.986	0.999	1.003	
2014	0.989	1.006		
2015	1.001			
Five Year Average	0.988	1.001	1.000	0.999
Three Year Average	0.992	1.003	1.001	1.000
		Five Year	Three Year	
39 to 63 months:		0.999	1.001	
27 to 63 months:		1.000	1.004	
15 to 63 months:		0.988	0.996	

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Property Damage Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2003					235,670
2004				243,706	243,683
2005			242,472	242,504	242,482
2006		242,911	243,069	243,136	243,117
2007	239,664	241,632	241,846	241,869	241,865
2008	231,907	235,636	235,819	235,861	235,854
2009	241,069	242,920	243,130	243,171	243,185
2010	247,599	250,117	250,319	250,372	250,314
2011	244,106	245,749	246,014	246,049	246,577
2012	250,561	252,645	253,677	253,891	253,879
2013	248,714	252,721	253,124	253,216	
2014	256,120	258,699	259,190		
2015	275,692	281,385			
2016	282,785				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.000
2005			1.000	1.000
2006		1.001	1.000	1.000
2007	1.008	1.001	1.000	1.000
2008	1.016	1.001	1.000	1.000
2009	1.008	1.001	1.000	1.000
2010	1.010	1.001	1.000	1.000
2011	1.007	1.001	1.000	1.002
2012	1.008	1.004	1.001	1.000
2013	1.016	1.002	1.000	
2014	1.010	1.002		
2015	1.021			
Five Year Average	1.012	1.002	1.000	1.000
Three Year Average	1.016	1.003	1.000	1.001
		Five Year	Three Year	
39 to 63 months:		1.000	1.001	
27 to 63 months:		1.002	1.004	
15 to 63 months:		1.014	1.020	

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Medical Payments Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2003					60,822
2004				59,772	59,780
2005			57,679	57,793	57,778
2006		57,170	57,554	57,675	57,672
2007	53,683	54,911	55,297	55,395	55,407
2008	51,924	53,602	53,951	54,057	54,046
2009	56,157	57,291	57,760	57,830	57,831
2010	54,593	55,893	56,290	56,370	56,968
2011	52,665	54,248	54,595	54,702	54,761
2012	52,323	54,022	54,398	54,527	54,538
2013	50,822	52,516	53,018	53,188	
2014	49,541	51,548	52,133		
2015	51,586	54,146			
2016	54,438				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2004				1.000
2005			1.002	1.000
2006		1.007	1.002	1.000
2007	1.023	1.007	1.002	1.000
2008	1.032	1.007	1.002	1.000
2009	1.020	1.008	1.001	1.000
2010	1.024	1.007	1.001	1.011
2011	1.030	1.006	1.002	1.001
2012	1.032	1.007	1.002	1.000
2013	1.033	1.010	1.003	
2014	1.041	1.011		
2015	1.050			
Five Year Average	1.037	1.008	1.002	1.002
Three Year Average	1.041	1.009	1.002	1.004
		Five Year	Three Year	
39 to 63 months:		1.004	1.006	
27 to 63 months:		1.012	1.015	
15 to 63 months:		1.049	1.057	

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Uninsured Motorists Bodily Injury Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2005			6,673	6,661	6,643
2006		6,507	6,484	6,505	6,453
2007	6,142	6,208	6,214	6,191	6,160
2008	5,591	5,650	5,639	5,619	5,613
2009	6,199	6,186	6,204	6,201	6,181
2010	5,796	5,814	5,820	5,792	5,829
2011	5,613	5,654	5,648	5,651	5,676
2012	5,543	5,529	5,600	5,627	5,636
2013	5,295	5,409	5,412	5,444	
2014	5,371	5,466	5,537		
2015	6,261				
2016	7,079				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			0.998	0.997
2006		0.996	1.003	0.992
2007	1.011	1.001	0.996	0.995
2008	1.011	0.998	0.996	0.999
2009	0.998	1.003	1.000	0.997
2010	1.003	1.001	0.995	1.006
2011	1.007	0.999	1.001	1.004
2012	0.997	1.013	1.005	1.002
2013	1.022	1.001	1.006	
2014	1.018	1.013		
2015	1.033			
Five Year Average	1.015	1.005	1.001	1.002
Three Year Average	1.024	1.009	1.004	1.004
	Five Year	Three Year		
39 to 63 months:		1.003	1.008	
27 to 63 months:		1.008	1.017	
15 to 63 months:		1.023	1.041	

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Uninsured Motorists Property Damage Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2005			9,242	9,252	9,244
2006		8,717	8,720	8,715	8,718
2007	8,167	8,225	8,290	8,286	8,278
2008	7,600	7,695	7,714	7,687	7,700
2009	7,323	7,463	7,443	7,478	7,476
2010	7,062	7,140	7,150	7,133	7,161
2011	6,949	7,020	7,005	7,037	7,070
2012	7,113	7,230	7,386	7,450	7,499
2013	7,163	7,364	7,393	7,415	
2014	7,344	7,540	7,562		
2015	8,760	9,039			
2016	10,351				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.001	0.999
2006		1.000	0.999	1.000
2007	1.007	1.008	1.000	0.999
2008	1.013	1.002	0.996	1.002
2009	1.019	0.997	1.005	1.000
2010	1.011	1.001	0.998	1.004
2011	1.010	0.998	1.005	1.005
2012	1.016	1.022	1.009	1.007
2013	1.028	1.004	1.003	
2014	1.027	1.003		
2015	1.032			
Five Year Average	1.023	1.006	1.004	1.004
Three Year Average	1.029	1.010	1.006	1.005
		Five Year	Three Year	
39 to 63 months:		1.008	1.011	
27 to 63 months:		1.014	1.021	
15 to 63 months:		1.037	1.051	

NORTH CAROLINA
AUTOMOBILE LIABILITY INSURANCE - PRIVATE PASSENGER CARS
CLAIM DEVELOPMENT

All Carriers

Voluntary and Ceded Combined

Underinsured Motorists Bodily Injury Incurred Claims as of

Accident Year	15 Months	27 Months	39 Months	51 Months	63 Months
2005			1,319	1,358	1,301
2006		1,403	1,570	1,589	1,527
2007	1,108	1,543	1,669	1,666	1,616
2008	1,107	1,588	1,712	1,736	1,677
2009	1,193	1,680	1,885	1,907	1,850
2010	1,203	1,661	1,829	1,897	1,831
2011	1,323	1,735	1,907	1,959	1,884
2012	1,290	1,678	1,803	1,833	1,788
2013	1,294	1,705	1,931	2,004	
2014	1,389	1,812	2,012		
2015	1,579	1,998			
2016	1,908				

Claim Development Factors

Accident Year	15-27 Mo.	27-39 Mo.	39-51 Mo.	51-63 Mo.
2005			1.030	0.958
2006		1.119	1.012	0.961
2007	1.393	1.082	0.998	0.970
2008	1.435	1.078	1.014	0.966
2009	1.408	1.122	1.012	0.970
2010	1.381	1.101	1.037	0.965
2011	1.311	1.099	1.027	0.962
2012	1.301	1.074	1.017	0.975
2013	1.318	1.133	1.038	
2014	1.305	1.110		
2015	1.265			
Five Year Average	1.300	1.103	1.026	0.968
Three Year Average	1.296	1.106	1.027	0.967
		Five Year	Three Year	
39 to 63 months:		0.993	0.993	
27 to 63 months:		1.095	1.098	
15 to 63 months:		1.424	1.423	