Table of Contents

Main Heading	Sub-heading	Exhibit	Sheet	Tab label
Summary of Indicated Rate Change	By Method for Projecting Hurricane Loss & LAE	Exhibit 1		1
Projected Ultimate Non-Hurricane Loss & LAE Ratio	All Territory Weighted Average	Exhibit 2	Sheet 1	2.1
Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience	Tier 1 Territory 8 (Galveston County)	Exhibit 2	Sheet 2a	2.2a
Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience	Tier 1 Territory 9 (Nueces County)	Exhibit 2	Sheet 2b	2.2b
Projected Ultimate Non-Hurricane Loss	Tier 1 Territory 10 (Other Tier 1)	Exhibit 2	Sheet 2c	2.2c
Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience	Tier 2 (Territories 1 and 11)	Exhibit 2	Sheet 2d	2.2d
Projected Ultimate Non-Hurricane Loss	Tier 1 Territory 8 (Galveston County)	Exhibit 2	Sheet 3a	2.3a
Projected Ultimate Non-Hurricane Loss	Tier 1 Territory 9 (Nueces County)	Exhibit 2	Sheet 3b	2.3b
Projected Ultimate Non-Hurricane Loss	Tier 1 Territory 10 (Other Tier 1)	Exhibit 2	Sheet 3c	2.3c
Projected Ultimate Non-Hurricane Loss	Tier 2 (Territories 1 and 11)	Exhibit 2	Sheet 3d	2.3d
Summary of TWIA Historical Paid Loss as of 12/31/19	Tier 1 Territory 8 (Galveston County)	Exhibit 2	Sheet 4a	2.4a
Summary of TWIA Historical Paid Loss as of 12/31/19	Tier 1 Territory 9 (Nueces County)	Exhibit 2	Sheet 4b	2.4b
Summary of TWIA Historical Paid Loss as of 12/31/19	Tier 1 Territory 10 (Other Tier 1)	Exhibit 2	Sheet 4c	2.4c
Summary of TWIA Historical Paid Loss as of 12/31/19	Tier 2 (Territories 1 and 11)	Exhibit 2	Sheet 4d	2.4d
Calculation of Net Trend Factors	,	Exhibit 2	Sheet 5	trend 2.5
Paid Loss Development Factors	Statewide Industry Extended Coverage Dwelling Paid Loss (excluding Hurricane Losses)	Exhibit 3	Sheet 1	ldf 3.1
Premium Trend Analysis	TWIA Residential Earned Premium at Present Rates	Exhibit 3	Sheet 2	3.2 premium trend
Loss Trend Analysis	Summary of Indices and Calculation of Prospective Loss Costs	Exhibit 3	Sheet 3a	3.3a
Loss Trend Analysis	Boeckh Residential Construction Index Trend (Statewide)	Exhibit 3	Sheet 3b	3.3b
Loss Trend Analysis	Boeckh Residential Construction Index Trend (Coastal)	Exhibit 3	Sheet 3c	3.3c
Loss Trend Analysis	Modified Consumer Price Index - External Trend	Exhibit 3	Sheet 3d	3.3d
Development of Non-hurricane LAE factor Using TWIA Commercial + Residential Experience		Exhibit 4	Sheet 1	4.1
Development of Hurricane LAE factor Using TWIA Commercial + Residential Experience	-	Exhibit 4	Sheet 2	4.2
Summary of Indicated Hurricane Loss & LAE Ratios		Exhibit 5		5
Industry Experience Residential Extended Coverage	1966 - 2019 Hurricane Years Only	Exhibit 6	Sheet 1	6.1
Industry Experience Residential Extended Coverage	1966 - 2019	Exhibit 6	Sheet 2	6.2
Industry Experience Residential Extended Coverage		Exhibit 6	Sheet 3	6.3
Industry Experience Residential Extended Coverage	Tier 1 Territory 8 (Galveston County)	Exhibit 6	Sheet 4	6.4
Industry Experience Residential Extended Coverage	Tier 1 Territory 9 (Nueces County)	Exhibit 6	Sheet 5	6.5
Industry Experience Residential Extended Coverage	Tier 1 Territory 10 (Other Tier 1)	Exhibit 6	Sheet 6	6.6
Industry Experience Residential Extended Coverage	Tier 2 (Territories 1 and 11)	Exhibit 6	Sheet 7	6.7
Hurricane Loss Ratio AIR Model	,	Exhibit 7		7
Hurricane Loss Ratio RMS Model		Exhibit 8		8
Texas Hurricanes 1850 - 2019		Exhibit 9		9
Calculation of TWIA Earned Premium at Present Rate Level	Tier 1 Territory 8 (Galveston County)	Exhibit 10	Sheet 1a	10.1a
Calculation of TWIA Earned Premium at Present Rate Level	Tier 1 Territory 9 (Nueces County)	Exhibit 10	Sheet 1b	10.1b
Calculation of TWIA Earned Premium at Present Rate Level	Tier 1 Territory 10 (Other Tier 1)	Exhibit 10	Sheet 1c	10.1c
Calculation of TWIA Earned Premium at Present Rate Level	Tier 2 (Territories 1 and 11)	Exhibit 10	Sheet 1d	10.1d
Calculation of TWIA Earned Premium at Present Rate Level	,	Exhibit 10	Sheet 2	10.2
Fixed Expenses and Variable Permissible Loss & LAE Ratios		Exhibit 11	Sheet 1	11.1
Development of Reinsurer Expense	Using Weighting of 50% AIR and 50% RMS Hurricane Models	Exhibit 11	Sheet 2	11.2
Reconciliation of Premium Data to Annual Statement		Exhibit 12		12

Summary of Indicated Rate Change By Method for Projecting Hurricane Loss & LAE

	Indicated L	oss & LAE Ratio	Fixed		Permissible	Indicated Rate
Hurricane Projection Method	Hurricane	Non-Hurricane	Expenses	Total	LLAE Ratio	Change
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Using Experience and Models (50%/50%)	40.8%	14.9%	36.7%	92.4%	77.1%	+20%
Using Actual Industry Experience	36.2%	14.9%	36.7%	87.8%	77.1%	+14%
Using Hurricane Models (25% AIR, 75% RMS)	45.5%	14.9%	36.7%	97.1%	77.1%	+26%
AIR Model RMS Model				108.4% 93.3%		

- (2) Exhibit 5
- (3) Exhibit 2, Sheet 1
- (4) Exhibit 11, Sheet 1
- (5) = (2) + (3) + (4)(6) Exhibit 11, Sheet 1
- (7) = (5) / (6) 1

Projected Ultimate Non-Hurricane Loss & LAE Ratio All Territory Weighted Average

	2019 Written Prem	Indicated Non-Hurricane	
Territory	Amount	Share	Loss & LAE Ratio
(1)	(2)	(3)	(4)
Tier 1 - Territory 8	108,030,247	34.4%	
Tier 1 - Territory 9	58,233,887	18.5%	6 16.4%
Tier 1 - Territory 10	143,774,114	45.7%	6 16.5%
Tier 2 - Territory 1 and	4,354,003	1.49	6 15.3%
Total / Average	314,392,251	100.0%	6 14.9%

- (2) TWIA data
- (3) = (2) / (2) Total
- (4) Exhibit 2, Sheet 2a Sheet 2d

Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience

Tier 1 -- Territory 8 (Galveston County)

Accident Year Ending 9/30/xx	Ultimate Non-Hurricane L Loss	_AE Factor	Net Trend Factor	Projected Non-Hurricane Loss & LAE	Earned Premium at Current TWIA Rate Level	Indicated Non-Hurricane Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2010	1,264,721	0.276	1.191	1,922,017	124,702,532	1.5%
2011	1,277,401	0.276	1.185	1,931,507	126,684,509	1.5%
2012	10,634,874	0.276	1.150	15,605,614	128,914,788	12.1%
2013	54,058,418	0.276	1.130	77,945,752	131,926,783	59.1%
2014	521,145	0.276	1.104	734,139	134,663,386	0.5%
2015	17,502,327	0.276	1.098	24,521,600	136,975,647	17.9%
2016	11,086,377	0.276	1.104	15,617,424	133,431,908	11.7%
2017	2,742,807	0.276	1.090	3,814,806	126,682,785	3.0%
2018	2,430,226	0.276	1.061	3,290,127	115,596,430	2.8%
2019	4,293,828	0.276	1.045	5,725,476	109,182,096	5.2%
Total	105,812,124			151,108,462	1,268,760,864	11.9%

- (2) Exhibit 2, Sheet 3a
- (3) Exhibit 4, Sheet 1
- (4) Exhibit 2 Sheet 5
- (5) = (2) * [1 + (3)] * (4)
- (6) Exhibit 10, Sheet 1a
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience

Tier 1 -- Territory 9 (Nueces County)

Accident Year Ending 9/30/xx	Ultimate Non-Hurricane Loss	LAE Factor	Net Trend Factor	Projected Non-Hurricane Loss & LAE	Earned Premium at Current TWIA Rate Level	Indicated Non-Hurricane Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	3,445,556 19,199,535 20,626,638 6,175,709 1,619,343 9,451,559 9,626,035 7,858,360 1,180,751 825,982		1.185 1.150 1.130 1.104 1.098 1.104 1.090	29,030,849 30,267,529 8,904,631 2,281,175 13,242,088 13,560,234 10,929,721 1,598,543	69,387,124 70,391,274 71,513,690 74,528,934 77,646,885 76,688,491 72,582,595	41.8% 43.0% 12.5% 3.1% 17.1% 17.7% 15.1% 2.4%
Total	80,009,468			116,152,418	707,176,943	16.4%

- (2) Exhibit 2, Sheet 3b
- (3) Exhibit 4, Sheet 1
- (4) Exhibit 2 Sheet 5
- (5) = (2) * [1 + (3)] * (4)
- (6) Exhibit 10, Sheet 1b
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience Tier 1 -- Territory 10 (Other Tier 1)

Accident Year Ending 9/30/xx	Ultimate Non-Hurricane Loss	LAE Factor	Net Trend Factor	Projected Non-Hurricane Loss & LAE	Earned Premium at Current TWIA Rate Level	Indicated Non-Hurricane Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2010	6,663,982	0.276	1.191	10,127,360	185,336,084	5.5%
2011	56,124,736	0.276	1.185	84,863,968	193,033,699	44.0%
2012	18,946,421	0.276	1.150	27,801,978	209,220,809	13.3%
2013	4,828,213	0.276	1.130	6,961,704	215,695,773	3.2%
2014	2,847,431	0.276	1.104	4,011,187	222,006,785	1.8%
2015	86,695,348	0.276	1.098	121,464,344	226,666,349	53.6%
2016	12,296,413	0.276	1.104	17,322,006	216,365,340	8.0%
2017	22,417,655	0.276	1.090	31,179,371	197,982,407	15.7%
2018	7,114,851	0.276	1.061	9,632,341	171,091,403	5.6%
2019	10,943,641	0.276	1.045	14,592,470	151,980,115	9.6%
Total	228,878,691			327,956,729	1,989,378,764	16.5%

- (2) Exhibit 2, Sheet 3c
- (3) Exhibit 4, Sheet 1
- (4) Exhibit 2 Sheet 5
- (5) = (2) * [1 + (3)] * (4)
- (6) Exhibit 10, Sheet 1c
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio based on TWIA experience Tier 2 -- (Territories 1 and 11)

Accident Year Ending 9/30/xx		AE actor	Net Trend Factor	Projected Non-Hurricane Loss & LAE	Earned Premium at Current TWIA Rate Level	Indicated Non-Hurricane Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2010 2011 2012 2013 2014 2015 2016	182,872 54,382 259,290 502,759 30,779 324,129 451,360	0.276 0.276 0.276 0.276 0.276 0.276	1.185 1.150 1.130 1.104 1.098	380,482 724,918 43,359 454,120	3,878,435 4,306,581 4,573,701 4,650,368 4,748,938	2.1% 8.8% 15.8% 0.9%
2017	495,555	0.276	1.090	,		
2018 2019	301,949 2,268,507	0.276 0.276	1.061 1.045	408,789 3,024,873	4,410,916 4,296,061	9.3% 70.4%
Total	4,871,582			6,721,755	43,905,405	15.3%

- (2) Exhibit 2, Sheet 3d
- (3) Exhibit 4, Sheet 1
- (4) Exhibit 2 Sheet 5
- (5) = (2) * [1 + (3)] * (4)
- (6) Exhibit 10, Sheet 1d
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss Tier 1 -- Territory 8 (Galveston County)

Accident	TWIA Non-Hurricane	Davidanment	Ultimate Non-Hurricane
		Development	
Year	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
2010	1,264,721	1.000	1,264,721
2011	1,277,401	1.000	1,277,401
2012	10,634,874	1.000	10,634,874
2013	54,058,418	1.000	54,058,418
2014	520,624	1.001	521,145
2015	17,432,597	1.004	17,502,327
2016	10,965,754	1.011	11,086,377
2017	2,662,919	1.030	2,742,807
2018	2,271,239	1.070	2,430,226
2019	3,407,800	1.260	4,293,828
Total	104,496,347		105,812,124

- (2) Exhibit 2, Sheet 4a, as of 12/31/19
- (3) Exhibit 3, Sheet 1
- (4) = (2) * (3)

Projected Ultimate Non-Hurricane Loss Tier 1 -- Territory 9 (Nueces County)

Accident Year (1)	TWIA Non-Hurricane Paid Loss (2)	Development Factor (3)	Ultimate Non-Hurricane Loss (4)
2010 2011	3,445,556 19,199,535	1.000	19,199,535
2012 2013 2014	20,626,638 6,175,709 1,617,725	1.000	,,
2015 2016	9,413,903 9,521,301	1.004 1.011	9,451,559 9,626,035
2017 2018 2019	7,629,476 1,103,506 655,541	1.030 1.070 1.260	, ,
Total	79,388,890		80,009,468

- (2) Exhibit 2, Sheet 4b, as of 12/31/19
- (3) Exhibit 3, Sheet 1
- (4) = (2) * (3)

Projected Ultimate Non-Hurricane Loss Tier 1 -- Territory 10 (Other Tier 1)

Accident Year	TWIA Non-Hurricane Paid Loss	Development Factor	Ultimate Non-Hurricane Loss
(1)	(2)	(3)	(4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	6,663,982 56,124,736 18,946,421 4,828,213 2,844,586 86,349,948 12,162,624 21,764,714 6,649,393 8,685,429	1.000 1.000 1.000 1.001 1.001 1.004 1.011 1.030 1.070	56,124,736 18,946,421 4,828,213 2,847,431 86,695,348 12,296,413 22,417,655 7,114,851
Total	225,020,046	;	228,878,691

- (2) Exhibit 2, Sheet 4c, as of 12/31/19
- (3) Exhibit 3, Sheet 1
- (4) = (2) * (3)

Projected Ultimate Non-Hurricane Loss Tier 2 -- (Territories 1 and 11)

	TWIA		Ultimate
Accident	Non-Hurricane	Development	Non-Hurricane
Year	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
2010	182,872	1.000	182,872
2011	54,382	1.000	54,382
2012	259,290	1.000	259,290
2013	502,759	1.000	502,759
2014	30,748	1.001	30,779
2015	322,838	1.004	324,129
2016	446,449	1.011	451,360
2017	481,121	1.030	495,555
2018	282,195	1.070	301,949
2019	1,800,402	1.260	2,268,507
Total	4,363,056	3	4,871,582

- (2) Exhibit 2, Sheet 4d, as of 12/31/19
- (3) Exhibit 3, Sheet 1
- (4) = (2) * (3)

Summary of TWIA Historical Paid Loss as of 12/31/19

Tier 1 -- Territory 8 (Galveston County)

Accident	Paid Loss Excluding	ng Expense	
Year	Non-Hurricane	Hurricane	Total
(1)	(2)	(3)	(4)
2010	1,264,721	0	1,264,721
2011	1,277,401	0	1,277,401
2012	10,634,874	0	10,634,874
2013	54,058,418	0	54,058,418
2014	520,624	0	520,624
2015	17,432,597	0	17,432,597
2016	10,965,754	0	10,965,754
2017	2,662,919	33,808,487	36,471,406
2018	2,271,239	0	2,271,239
2019	3,407,800	0	3,407,800
Total	104,496,347	33,808,487	138,304,834

Notes:

(2), (3) Source: TICO. Accident years ending 9/30/xx

Summary of TWIA Historical Paid Loss as of 12/31/19

Tier 1 -- Territory 9 (Nueces County)

Paid Loss Excluding Expense Accident										
Year	Non-Hurricane	Hurricane	Total							
(1)	(2)	(3)	(4)							
2010	3,445,556	187,854	3,633,410							
2011	19,199,535	0	19,199,535							
2012	20,626,638	0	20,626,638							
2013	6,175,709	0	6,175,709							
2014	1,617,725	0	1,617,725							
2015	9,413,903	0	9,413,903							
2016	9,521,301	0	9,521,301							
2017	7,629,476	240,658,023	248,287,499							
2018	1,103,506	0	1,103,506							
2019	655,541	0	655,541							
Total	79,388,890	240,845,877	320,234,767							

Notes:

(2), (3) Source: TICO. Accident years ending 9/30/xx

Summary of TWIA Historical Paid Loss as of 12/31/19 Tier 1 -- Territory 10 (Other Tier 1)

Paid Loss Excluding Expense Accident									
Year	Non-Hurricane	Hurricane	Total						
(1)	(2)	(3)	(4)						
2010	6,663,982	1,063,585	7,727,567						
2011	56,124,736	0	56,124,736						
2012	18,946,421	0	18,946,421						
2013	4,828,213	0	4,828,213						
2014	2,844,586	0	2,844,586						
2015	86,349,948	0	86,349,948						
2016	12,162,624	0	12,162,624						
2017	21,764,714	607,746,813	629,511,527						
2018	6,649,393	0	6,649,393						
2019	8,685,429	0	8,685,429						
Total	225,020,046	608,810,398	833,830,444						

Notes:

(2), (3) Source: TICO. Accident years ending 9/30/xx

Summary of TWIA Historical Paid Loss as of 12/31/19

Tier 2 -- (Territories 1 and 11)

Paid Loss Excluding Expense Accident										
Year	Non-Hurricane	Hurricane	Total							
(1)	(2)	(3)	(4)							
2010 2011	182,872 54,382		182,872 54,382							
2012	259,290	0	259,290							
2013	502,759	0	502,759							
2014	30,748	0	30,748							
2015	322,838	0	322,838							
2016	446,449	0	446,449							
2017	481,121	3,233,870	3,714,991							
2018	282,195	0	282,195							
2019	1,800,402	0	1,800,402							
Total	4,363,056	3,233,870	7,596,926							

Notes:

(2), (3) Source: TICO. Accident years ending 9/30/xx

Calculation of Net Trend Factors

	Average	•			
	Written prem	ium			
Year /	Per house ye	ar			
Quarter	At present rat	tes			
(1)	(2)	-			
		(3)	Current Avera	ge Earned Da	te
2011 / 4	1,640.91	(4)	Current Avera	ge Accident D	ate
2012 / 4	1,626.20	(5)	Prospective A	verage Earned	d / Accident Date
2013 / 4	1,640.94	. ,	Premium Tren	-	
2014 / 4	1,655.17	` '	Loss Trend Le	•	
2015 / 4	1,680.32	(8)	Selected Prem	nium Trend	
2016 / 4	1,686.41	(9)	Selected Loss	Trend	
2017 / 4	1,683.69	,			
2018 / 4	1,689.86				
2019 / 4	1,711.99				
	Current	Current	Prospective	Prospective	Net
Accident	Premium	Loss	Premium	Loss	Trend
'ear	Trend	Trend	Trend	Trend	Factor
(10)	(11)	(12)	(13)	(14)	(15)
010	1.043	1.189	1.003	1.047	1.191
011	1.043	1.183	1.003	1.047	1.185
012	1.053	1.159	1.003	1.047	1.150
2013	1.043	1.129	1.003	1.047	1.130
2014	1.034	1.093	1.003	1.047	1.104
.015	1.019	1.071	1.003	1.047	1.098
.016	1.015	1.073	1.003	1.047	1.104
2017	1.017	1.061	1.003	1.047	1.090
.018	1.013	1.029	1.003	1.047	1.061
				1.047	

- (2) Exhibit 3, Sheet 2 (6)
- (3) Latest Year / Quarter Ending Date 6 Months
- (4) Latest Accident Year Ending Date 6 Months
- (5) Rate Effective Date + 12 Months
- (6) = (5) (3)
- (7) = (5) (4)
- (8) Exhibit 3, Sheet 2
- (9) Exhibit 3, Sheet 3a
- (11) = (2) Indexed to 2019 / 4
- (12) Exhibit 3, Sheet 3a
- $(13) = [1 + (8)] ^ (6)$
- $(14) = [1 + (9)] ^ (7)$
- (15) = [(12) * (14)] / [(11) * (13)]

Paid Loss Development Factors

Statewide Industry Extended Coverage Dwelling Paid Loss (excluding Hurricane Losses)

	Months of De	evelopment (\$0	<u>00)</u>						
Accident	45	07	00	- 4	00	7.5	07	00	
Year	15	27	39	51	63		-		111
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2010	63,70	6 70,824	72,510	73,282	73,407	73,508	73,530	73,536	73,536
2011	137,269	9 154,006	156,583	157,456	157,929	157,995	158,032	158,046	158,071
2012	162,84	4 196,788	232,373	242,523	245,227	246,785	247,419	247,577	
2013	124,050	0 143,359	151,995	154,466	156,218	156,541	156,580		
2014	151,51	0 178,253	187,490	191,068	191,825	192,297			
2015	173,85	1 200,069	206,343	208,327	209,063				
2016	486,12	4 553,332	561,570	563,807	•				
2017	634,03	3 775,472	803,355	i					
2018	181,01	1 216,648	1						
2019	272,31	1							
Accident Year	Developmen 15 - 27	<u>t Factors</u> 27 - 39	39 - 51	51 - 63	63 - 75	75 - 87	87 - 99	99 - 111	111 - Ult
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2010	1.11:	2 1.024	1.011	1.002	1.001	1.000	1.000	1.000	
2010			_						
2011	1.12						1.000	1.000	
2012	1.20			-			1.001		
2013	1.150								
2014 2015	1.17 ⁻ 1.15 ⁻								
					•				
2016	1.13			,					
2017	1.22		1						
2018	1.19	1							
Average	4.40	F 4.050	1.040	1 000	4 000	4.004	4.000	1.000	
Average Avg 5 Year	1.16 1.17						1.000 1.000	1.000 1.000	
							1.000		1 000
•			1.021	1.012	1.004	1.001	1.000	1.000	1.000
Prior	1.16			1 007	1 000	1 004	4 000	1 000	1 000
•	1.16; 1.17 1.26	7 1.039	1.019				1.000 1.000	1.000 1.000	1.000 1.000

Notes:

Data provided by TICO. Accident years ending 9/30/xx

Premium Trend Analysis

TWIA Residential Earned Premium at Present Rates

Year /	Exposure	Written	On- Level	Written Premium	Average Written Premium at Present Rates	Average Written Premium at Present Rates	Exponential F	itted Trends		
Quarter	Written	Premium	Factors	at Present Rates	Quarterly	Four Quarter Ending	All-Year	5-Year	4-Year	3-Year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2010 / 2	72,174	82,603,320								
2010 / 3	80,037	91,866,506								
2010 / 4	50,797	58,863,267			•					
2011 / 1	49,776	59,951,748				1,617	1607.7			
2011 / 2	75,601	90,742,856				1,616	1609.4			
2011/3	82,435	99,110,457	1.340	132,817,491	1,611	1,615	1611.1			
2011 / 4	54,497	66,729,933	1.340	89,424,492	1,641	1,617	1612.8			
2012 / 1	54,769	68,658,174	1.276	87,627,162	1,600	1,614	1614.5			
2012 / 2	77,155	96,214,511	1.276	122,796,806		1,609	1616.2			
2012/3	89,431	112,131,482	1.276	143,111,343	1,600	1,606	1617.9			
2012 / 4	54,952	70,018,382	1.276	89,363,170	1,626	1,603	1619.6			
2013 / 1	54,742	71,740,155	1.216	87,200,607	1,593	1,602	1621.2			
2013 / 2	82,182	108,632,729	1.216	132,043,761	1,607	1,606	1622.9			
2013/3	83,114	111,540,208	1.216	135,577,820	1,631	1,615	1624.6			
2013 / 4	60,544	81,734,680	1.216	99,349,014	1,641	1,619	1626.3	i		
2014 / 1	55,592	77,867,785	1.158	90,141,695	1,621	1,624	1628.0	ı		
2014 / 2	79,155	111,616,003	1.158	129,209,475	1,632	1,632	1629.7			
2014/3	89,874	128,096,479				1,638	1631.5			
2014 / 4	60,646	86,711,448	1.158			1,641	1633.2			
2015 / 1	57,651	85,327,979	1.103	94,074,097		1,643	1634.9		5	
2015 / 2	82,158	122,581,230	1.103	135,145,806		1,646	1636.6		3	
2015/3	84,402	127,421,809				1,650	1638.3	1651.2	2	
2015 / 4	57,308	87,342,988				1,655	1640.0			
2016 / 1	54,113	84,557,230				1,657	1641.7			2
2016 / 2	79,991	125,845,764				1,659	1643.4			
2016/3	77,932	123,784,247				1,660	1645.2			
2016 / 4	51,030	81,959,449				1,661	1646.9			
2017 / 1	50,991	79,037,984				1,659	1648.6			
2017 / 2	73,614	114,547,681				1,654	1650.3			
2017/3	68,864	108,614,623				1,650	1652.1			
2017 / 4	45,960	73,697,340				1,648	1653.8			
2018 / 1	44,101	71,679,332				1,649	1655.5			
2018 / 2	63,851	104,163,394			•	1,649	1657.3			
2018 / 3	61,408	101,951,681				1,650	1659.0			
2018 / 4	40,418	68,300,637			•	1,650	1660.7			
2019 / 1	39,758	65,036,872				1,652	1662.5			
2019 / 1	60,805	99,948,528				1,656	1664.2			
2019 / 2	57,547	99,946,526				1,664	1665.9			
2019 / 3	38,375	65,697,652				1,668	1667.7			
2019/4	36,373	05,097,052	1.000	05,097,052	1,712	1,000	1007.7	1037.3	. 1655.	1659.1
	age Annual Ch						0.4%			
(13) Corre	elation Coefficie	ent					75.6%	11.3%	6 0.0%	% 26.4%
(14) Selec	cted Premium	Trend								0.1%

Notes:

(2) Provided by TWIA (3) Provided by TWIA

(4) Cumulative effect of annual rate changes

(5) = (3) * (4) Indexed to 2019 / 4 (6) = (5) / (2)

(7) annualized average written premium(8) - (11) = (6) fitted to an exponential distribution

(12) Fitted average annual change

(13) Evaluates the predictability of the fitted curve(14) Selected based on judgment

Loss Trend Analysis

Summary of Indices and Calculation of Prospective Loss Costs

Calendar Year Ending 9/30/xx	Statewide Boeckh	Coastal Boeckh	Modified CPI	Weighted Average				
(1)	(2)	(3)	(4)	(5)				
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	1.204 1.189 1.164 1.128 1.094 1.066 1.073 1.061 1.023	1.185 1.147	1.118 1.106 1.082 1.074 1.064 1.051 1.035 1.028 1.021	1.189 1.183 1.159 1.129 1.093 1.071 1.073 1.061 1.029 1.000				
Factors to Adjust For Prospective Loss Costs								
(6) Fitted Trend	1.7%	1.9%	1.1%	1.7%				
(7) Cost Factor	1.047	1.053	1.031	1.047				

- (2) = Exhibit 3, Sheet 3b
- (3) = Exhibit 3, Sheet 3c
- (4) = Exhibit 3, Sheet 3d
- (5) = 25% CPI and 75% Coastal Boeckh (most appropriate available by year)
- (6) = (2) (5) fitted to an exponential curve using 5 years' data
- $(7) = [1 + (6)] ^2.75$ (trended from 4/1/2019 to 1/1/2022)

Loss Trend Analysis

Boeckh Residential Construction Index Trend (Statewide)

	Texas	Fitted Trends							
Calendar Year	Statewide	All Years		5 Years		4 Years		3 Years	
Ending	Index	Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
()	(-)	(-)	(- /	(-)	(-)	(-)	(-)	(-)	(10)
3/31/2010	2047.26	2025.39	2031.85						
6/30/2010	2046.15	2036.74	2042.17						
9/30/2010	2050.53	2048.10	2052.55						
12/31/2010	2057.95	2059.45	2062.97						
3/31/2011	2065.10	2070.81	2073.45						
6/30/2011	2070.21	2082.16	2083.99						
9/30/2011	2075.77	2093.52	2094.57						
12/31/2011	2083.16	2104.88	2105.21						
3/31/2012	2092.69		2115.90						
6/30/2012	2103.68		2126.65						
9/30/2012	2121.46		2137.46						
12/31/2012	2139.97		2148.31						
3/31/2013	2155.46		2159.23						
6/30/2013	2172.56		2170.19						
9/30/2013	2188.33		2181.22						
12/31/2013	2202.66		2192.30						
3/31/2014	2219.67		2203.43						
6/30/2014	2239.01		2214.63						
9/30/2014	2257.42		2225.88						
12/31/2014	2275.56		2237.18						
3/31/2015	2293.59		2248.55						
6/30/2015	2307.55		2259.97						
9/30/2015 12/31/2015	2316.02 2319.90		2271.45 2282.99						
3/31/2016	2319.90		2202.99				2271.59	,	
6/30/2016	2316.44		2306.24						
9/30/2016	2300.41		2317.96						
12/31/2016	2296.54		2329.73						
3/31/2017	2299.40		2341.56						7 2298.43
6/30/2017	2309.77		2353.46						
9/30/2017	2326.30		2365.41	2365.50					
12/31/2017	2343.81		2377.43						
3/31/2018	2363.74		2389.51	2385.87					
6/30/2018	2386.99		2401.64						
9/30/2018	2413.52		2413.84						
12/31/2018	2441.12		2426.11	2416.42					
3/31/2019	2459.13		2438.43						
6/30/2019	2468.96		2450.82						
9/30/2019	2469.01		2463.26		7 2446.94	2462.71			
12/31/2019	2466.82		2475.78						
Annual Trend		1.8%	2.0%	1.7%	5 1.7%	2.2%	2.3%	2.9%	3.0%
R-Squared		0.967	2.0% 0.967						
n-squareu		0.967	0.967	0.800	0.808	0.695	0.890	0.961	0.901

^{(2) =} Average Index for Austin, Corpus Christi, Dallas, El Paso, Fort Worth, Houston, Odessa, and San Antonio

⁽³⁾ - (10) = (2) fitted to linear and exponential distributions

Loss Trend Analysis

Boeckh Residential Construction Index Trend (Coastal)

	Texas	Fitted Trends							_
Calendar Year	Coastal	All Years		5 Years		4 Years		3 Years	
Ending	Index	Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3/31/2010	2075.10	2028.38	2035.95						
6/30/2010	2073.10		2035.93						
9/30/2010	2070.98		2040.71						
12/31/2010	2070.90		2068.41						
3/31/2010	2070.61		2000.41						
6/30/2011	2073.42		2079.34						
9/30/2011	-		2090.34						
	2078.09								
12/31/2011	2083.46		2112.49						
3/31/2012	2089.96		2123.66						
6/30/2012	2099.33		2134.89						
9/30/2012	2118.82		2146.18						
12/31/2012	2139.88		2157.52						
3/31/2013	2157.74		2168.93						
6/30/2013	2175.63		2180.39						
9/30/2013	2189.62		2191.92						
12/31/2013	2203.37		2203.51						
3/31/2014	2227.71		2215.16						
6/30/2014	2252.63		2226.87						
9/30/2014	2275.00		2238.64						
12/31/2014	2296.77		2250.47						
3/31/2015	2310.58		2262.37						
6/30/2015	2322.52		2274.33						
9/30/2015	2330.38		2286.35						
12/31/2015	2333.26		2298.44						
3/31/2016	2328.65	_	2310.59						
6/30/2016	2320.80		2322.81						
9/30/2016	2313.59		2335.09						
12/31/2016	2308.17		2347.43						
3/31/2017	2311.24		2359.84						
6/30/2017	2323.79		2372.32						
9/30/2017	2340.80		2384.86						-
12/31/2017	2360.09		2397.46						
3/31/2018	2380.33		2410.14						
6/30/2018	2404.16	2421.69	2422.88	2420.6	5 2419.42	2418.08	3 2416.84	1 2409.48	2408.38
9/30/2018	2433.32	2433.60	2435.69	2432.17	7 2431.05	2433.91	2432.79	2430.22	2429.16
12/31/2018	2467.60	2445.52	2448.56	2443.70	2442.73	3 2449.74	2448.85	2450.97	2450.11
3/31/2019	2494.19		2461.51						_
6/30/2019	2508.16	2469.36	2474.52	2466.75	2466.27	2481.40	2481.28	3 2492.47	2492.57
9/30/2019	2510.44	2481.28	2487.60	2478.28	3 2478.12	2497.22	2497.66	2513.21	2514.07
12/31/2019	2504.07	2493.20	2500.75	2489.80	2490.03	3 2513.05	2514.14	2533.96	2535.76
Annual Trend		1.9%	2.1%	1.9%	ú 1.9%	2.5%	2.7%	3.3%	3.5%
R-Squared		0.955	0.957						
		0.000	0.557	0.73	. 0.790	, 0.030	. 0.090	, 0.500	0.500

^{(2) =} Average Index for Corpus Christi and Houston

^{(3) - (10) = (2)} fitted to linear and exponential distributions

Loss Trend Analysis

Modified Consumer Price Index - External Trend

Ending CPI (1) (2) 9/30/2009 179.3 12/31/2009 178.3 3/31/2010 178.6 6/30/2010 178.3 12/31/2010 178.3 12/31/2010 178.3 3/31/2011 179.9 9/30/2011 180.3 12/31/2011 181.3 3/31/2012 182.6 6/30/2012 183.3 9/30/2012 184.3 12/31/2012 185.3 3/31/2012 185.3 3/31/2013 185.3 6/30/2013 185.3 6/30/2013 185.3 12/31/2013 186.3 3/31/2014 186.4 6/30/2014 186.4 9/30/2014 186.4 9/30/2014 187.3 12/31/2015 189.3 6/30/2015 189.3 6/30/2015 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2017 194.3 3/31/2017 194.3 3/31/2017 194.3 3/31/2018 194.3 6/30/2018 195.3 9/30/2018 195.3 12/31/2018 196.3 3/31/2019 197.3 6/30/2019 199.3	ndar Voor	Modified	Fitted Trends All Years		5 Years		4 Years		3 Years	
(1) (2) 9/30/2009 179.3 12/31/2009 178.3 3/31/2010 178.6 6/30/2010 178.3 12/31/2010 178.3 12/31/2010 178.3 3/31/2011 178.3 6/30/2011 179.9 9/30/2011 180.3 12/31/2011 181.3 3/31/2012 182.3 6/30/2012 183.3 9/30/2012 184.3 12/31/2012 185.3 3/31/2013 185.3 6/30/2013 185.3 6/30/2013 185.3 12/31/2014 186.4 6/30/2014 186.4 9/30/2014 186.4 9/30/2014 187.3 12/31/2015 189.3 6/30/2015 189.3 9/30/2015 190.3 12/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2016 190.3 13/31/2017 194.3 13/31/2017 194.3 13/31/2017 194.3 13/31/2018 194.3 6/30/2018 195.3 12/31/2018 196.3 3/31/2019 197.3 6/30/2019 199.3			Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
12/31/2009 178.3/31/2010 178.6/30/2010 178.9/30/2010 178.3/31/2010 178.3/31/2010 178.3/31/2011 178.3/31/2011 179.9/30/2011 180.3/31/2011 181.3/31/2012 182.6/30/2012 183.3/31/2012 184.3/31/2012 185.3/31/2012 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2015 189.3/31/2015 189.3/31/2015 189.3/31/2015 189.3/31/2015 190.3/31/2016 190.3/31/2017 194.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2019 197.4/3/31/2019 197.4/3/31/2019 197.4/3/31/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019	0		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
12/31/2009 178.3/31/2010 178.6/30/2010 178.9/30/2010 178.3/31/2010 178.3/31/2010 178.3/31/2011 178.3/31/2011 179.9/30/2011 180.3/31/2011 181.3/31/2012 182.6/30/2012 183.3/31/2012 184.3/31/2012 185.3/31/2012 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2013 185.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2014 186.3/31/2015 189.3/31/2015 189.3/31/2015 189.3/31/2015 189.3/31/2015 190.3/31/2016 190.3/31/2017 194.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2019 197.4/3/31/2019 197.4/3/31/2019 197.4/3/31/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019	2009	179.30	177.20	177.41						
3/31/2010 178. 6/30/2010 178. 9/30/2010 178. 12/31/2010 178. 3/31/2011 178. 6/30/2011 179. 9/30/2011 180. 12/31/2012 182. 6/30/2012 183. 9/30/2012 184. 12/31/2012 185. 3/31/2013 185. 6/30/2013 185. 6/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2014 188. 3/31/2015 189. 6/30/2015 189. 9/30/2015 190. 12/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2017 194. 9/30/2017 194. 9/30/2017 194. 9/30/2018 195. 9/30/2018 195. 9/30/2019 199.		178.80		177.91						
9/30/2010 178. 12/31/2010 178. 3/31/2011 178. 6/30/2011 179. 9/30/2011 180. 12/31/2012 182. 6/30/2012 183. 9/30/2012 184. 12/31/2012 185. 3/31/2013 185. 6/30/2013 185. 6/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2015 189. 6/30/2015 189. 9/30/2015 190. 12/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2017 194. 9/30/2017 194. 9/30/2017 194. 3/31/2018 195. 9/30/2018 195. 9/30/2019 199.	2010	178.46		178.42						
12/31/2010 178. 3/31/2011 178. 6/30/2011 179. 9/30/2011 180. 12/31/2011 181. 3/31/2012 182. 6/30/2012 183. 9/30/2012 184. 12/31/2012 185. 3/31/2013 185. 6/30/2013 185. 6/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2015 189. 6/30/2015 189. 6/30/2015 190. 12/31/2016 190. 3/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2016 192. 9/30/2017 194. 9/30/2017 194. 3/31/2017 193. 6/30/2018 195. 9/30/2018 195. 9/30/2019 199.	2010	178.56		178.93						
3/31/2011 178. 6/30/2011 179. 9/30/2011 180. 12/31/2011 181. 3/31/2012 182. 6/30/2012 183. 9/30/2012 184. 12/31/2013 185. 3/31/2013 185. 6/30/2013 185. 6/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 6/30/2014 187. 12/31/2015 189. 6/30/2015 189. 9/30/2015 190. 12/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2016 192. 9/30/2017 194. 9/30/2017 194. 9/30/2017 194. 9/30/2018 195. 9/30/2018 195. 9/30/2019 199.		178.59		179.44						
6/30/2011 179.0 9/30/2011 180.0 12/31/2011 181.0 3/31/2012 182.0 6/30/2012 183.0 9/30/2012 184.0 12/31/2013 185.0 3/31/2013 185.0 6/30/2013 185.0 9/30/2013 185.0 12/31/2014 186.0 6/30/2014 186.0 9/30/2014 186.0 9/30/2014 187.0 12/31/2015 189.0 6/30/2015 189.0 6/30/2015 190.0 12/31/2016 190.0 13/31/2017 194.0 13/31/2018 195.0 13/31/2018 195.0 13/31/2018 195.0 13/31/2019 197.0 13/30/2019 198.0 19/30/2019 199.0	/2010	178.72		179.95						
6/30/2011 179.0 9/30/2011 180.0 12/31/2011 181.1 3/31/2012 182.0 6/30/2012 183.0 9/30/2012 184.0 12/31/2012 185.0 3/31/2013 185.0 6/30/2013 185.0 9/30/2013 185.0 12/31/2013 186.0 3/31/2014 186.0 6/30/2014 186.0 9/30/2014 187.0 12/31/2015 189.0 6/30/2015 189.0 6/30/2015 190.0 12/31/2015 190.0 12/31/2016 190.0 12/31/2016 190.0 6/30/2016 192.0 9/30/2016 192.0 12/31/2016 193.0 3/31/2016 193.0 3/31/2017 193.0 6/30/2017 194.0 9/30/2017 194.0 9/30/2017 194.0 9/30/2018 195.0 9/30/2018 195.0 9/30/2019 199.0	2011	178.97		180.47						
12/31/2011 181.3/31/2012 182.6/30/2012 183.39/30/2012 184.31/2012 185.3/31/2013 185.6/30/2013 185.39/30/2013 185.31/2013 186.3/31/2014 186.6/30/2014 186.6/30/2014 186.6/30/2014 187.31/2015 189.6/30/2015 189.9/30/2015 189.9/30/2015 190.3/31/2016 190.3/31/2017 194.3/31/2018 195.3/31/2017 194.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2019 197.6/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019	2011	179.61		180.98						
3/31/2012 182. 6/30/2012 183. 9/30/2012 184. 12/31/2012 185. 3/31/2013 185. 6/30/2013 185. 9/30/2013 185. 12/31/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2015 189. 6/30/2015 189. 6/30/2015 190. 12/31/2015 190. 3/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2016 192. 12/31/2017 193. 6/30/2017 194. 3/31/2017 194. 3/31/2018 195. 9/30/2018 195. 9/30/2019 199.	2011	180.52	181.49	181.50						
6/30/2012 183.4 9/30/2012 184.4 12/31/2012 185.4 3/31/2013 185.5 6/30/2013 185.5 9/30/2013 185.4 12/31/2014 186.4 6/30/2014 186.4 9/30/2014 187.4 12/31/2015 189.4 6/30/2015 189.4 9/30/2015 190.4 12/31/2015 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2016 190.4 12/31/2017 194.4 12/31/2017 194.4 12/31/2018 194.6 13/31/2018 195.6 12/31/2018 195.6 12/31/2019 197.6 1930/2019 199.6	/2011	181.55	182.03	182.01						
9/30/2012 184.3 12/31/2012 185.3 3/31/2013 185.3 6/30/2013 185.3 9/30/2013 185.3 12/31/2013 186.3 3/31/2014 186.4 6/30/2014 186.4 9/30/2014 187.3 12/31/2015 189.4 6/30/2015 190.3 12/31/2015 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 12/31/2016 190.3 13/31/2017 194.3 13/31/2017 194.3 12/31/2017 194.3 12/31/2018 195.3 12/31/2018 195.3 12/31/2018 195.3 12/31/2019 197.3 6/30/2019 199.3	2012	182.78		182.53						
12/31/2012 185.4 3/31/2013 185.5 6/30/2013 185.5 9/30/2013 185.5 12/31/2013 186.4 3/31/2014 186.4 6/30/2014 186.4 9/30/2014 187.4 12/31/2015 189.4 6/30/2015 190.4 12/31/2015 190.4 12/31/2016 190.4 3/31/2016 190.4 6/30/2016 192.4 9/30/2016 192.4 12/31/2016 193.4 3/31/2017 193.4 6/30/2017 194.4 12/31/2017 194.4 12/31/2018 195.5 9/30/2018 195.6 12/31/2018 196.6 3/31/2019 197.6 6/30/2019 199.6	2012	183.87	183.10	183.05						
3/31/2013 185. 6/30/2013 185. 9/30/2013 185. 9/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2015 189. 6/30/2015 189. 9/30/2015 190. 12/31/2016 190. 3/31/2016 190. 6/30/2016 192. 9/30/2016 192. 9/30/2017 194. 3/31/2017 193. 6/30/2017 194. 3/31/2018 194. 6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 199.	2012	184.57		183.58						
6/30/2013 185. 9/30/2013 185. 12/31/2013 186. 3/31/2014 186. 6/30/2014 186. 9/30/2014 187. 12/31/2015 189. 6/30/2015 189. 9/30/2015 190. 12/31/2016 190. 3/31/2016 190. 3/31/2016 192. 9/30/2016 192. 12/31/2016 193. 3/31/2017 193. 6/30/2017 194. 9/30/2017 194. 3/31/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 199.	/2012	185.03	184.17	184.10						
9/30/2013 185.3 12/31/2014 186.4 6/30/2014 186.4 9/30/2014 187.3 12/31/2015 189.4 6/30/2015 189.5 6/30/2015 190.3 12/31/2015 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 192.3 9/30/2016 192.3 12/31/2016 193.3 3/31/2017 193.3 6/30/2017 194.3 9/30/2017 194.3 1/2/31/2018 194.5 6/30/2018 195.3 9/30/2018 195.3 1/2/31/2018 196.3 3/31/2019 197.6 6/30/2019 198.3	2013	185.38	184.71	184.63						
9/30/2013 185.3 12/31/2014 186.4 6/30/2014 186.4 9/30/2014 187.3 12/31/2015 189.4 6/30/2015 189.5 6/30/2015 190.3 12/31/2015 190.3 3/31/2016 190.3 3/31/2016 190.3 3/31/2016 192.3 9/30/2016 192.3 12/31/2016 193.3 3/31/2017 193.3 6/30/2017 194.3 9/30/2017 194.3 1/2/31/2018 194.5 6/30/2018 195.3 9/30/2018 195.3 1/2/31/2018 196.3 3/31/2019 197.6 6/30/2019 198.3	2013	185.51		185.15						
3/31/2014 186.6/30/2014 186.9/30/2014 187.12/31/2014 188.3/31/2015 189.6/30/2015 190.12/31/2015 190.3/31/2016 190.3/31/2016 190.6/30/2016 192.9/30/2016 192.31/2016 193.3/31/2017 193.6/30/2017 194.3/31/2017 194.9/30/2017 194.9/30/2018 195.9/30/2018 195.12/31/2018 196.3/31/2019 197.6/30/2019 199.	2013	185.82		185.68						
6/30/2014 186.6 9/30/2014 187.1 12/31/2014 188.1 3/31/2015 189.6 6/30/2015 190.1 12/31/2015 190.3 3/31/2016 190.6 6/30/2016 192.9 9/30/2016 192.4 12/31/2016 193.3 3/31/2017 193.6 6/30/2017 194.9 12/31/2017 194.9 12/31/2018 194.6 12/31/2018 195.6 12/31/2018 195.6 12/31/2019 197.6 187.0 18	/2013	186.03		186.21						
6/30/2014 186.6 9/30/2014 187.1 12/31/2014 188.1 3/31/2015 189.6 6/30/2015 190.1 12/31/2015 190.3 3/31/2016 190.6 6/30/2016 192.9 9/30/2016 192.4 12/31/2016 193.3 3/31/2017 193.6 6/30/2017 194.9 12/31/2017 194.9 12/31/2018 194.6 12/31/2018 195.6 12/31/2018 195.6 12/31/2019 197.6 187.0 18		186.43		186.74						
9/30/2014 187.: 12/31/2014 188.9 3/31/2015 189.: 6/30/2015 190.: 12/31/2015 190.: 3/31/2016 190.: 6/30/2016 192.: 9/30/2016 192.: 12/31/2016 193.: 3/31/2017 193.: 6/30/2017 194.: 9/30/2017 194.: 12/31/2018 194.: 6/30/2018 195.: 9/30/2018 195.: 12/31/2018 196.: 3/31/2019 197.: 6/30/2019 199.:		186.87		187.27						
12/31/2014 188.4 3/31/2015 189.6 6/30/2015 189.9 9/30/2015 190.4 12/31/2015 190.3 3/31/2016 190.6 6/30/2016 192.9 9/30/2016 192.4 12/31/2016 193.3 3/31/2017 193.4 6/30/2017 194.4 9/30/2017 194.5 12/31/2018 195.6 12/31/2018 195.6 12/31/2018 195.6 12/31/2018 195.6 12/31/2019 197.6 12/30/2019 198.5 12/30/2019 199.6		187.59		187.81						
3/31/2015 189.6/30/2015 189.9/30/2015 190.12/31/2015 190.3/31/2016 190.6/30/2016 192.9/30/2016 192.31/2016 193.3/31/2017 193.6/30/2017 194.9/30/2017 194.9/30/2017 194.9/30/2018 195.9/30/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2018 195.3/31/2019 197.6/30/2019 198.3/30/2019 199.3/30/2019 199.3/30/2019 199.3/30/2019		188.62		188.34						
9/30/2015 190.0 12/31/2015 190.0 3/31/2016 190.0 6/30/2016 192.0 9/30/2016 192.0 12/31/2016 193.0 3/31/2017 193.0 6/30/2017 194.0 9/30/2017 194.0 12/31/2018 194.0 6/30/2018 195.0 9/30/2018 195.0 12/31/2018 196.0 3/31/2019 197.0 6/30/2019 199.0	2015	189.46		188.88		1 189.16	6			
12/31/2015 190.3 3/31/2016 190.5 6/30/2016 192.6 9/30/2016 192.6 12/31/2016 193.3 3/31/2017 193.6 6/30/2017 194.7 12/31/2017 194.7 3/31/2018 194.7 6/30/2018 195.7 12/31/2018 195.7 12/31/2018 195.7 12/31/2018 195.7 12/31/2018 196.7 3/31/2019 197.7 6/30/2019 198.7	2015	189.59	189.53	189.42	189.64	189.67	7			
3/31/2016 190.: 6/30/2016 192.: 9/30/2016 192.: 12/31/2016 193.: 3/31/2017 193.: 6/30/2017 194.: 9/30/2017 194.: 12/31/2018 194.: 6/30/2018 195.: 9/30/2018 195.: 12/31/2018 196.: 3/31/2019 197.: 6/30/2019 199.:	2015	190.03	190.07	189.96	190.17	7 190.19)			
3/31/2016 190.: 6/30/2016 192.: 9/30/2016 192.: 12/31/2016 193.: 3/31/2017 193.: 6/30/2017 194.: 9/30/2017 194.: 12/31/2018 194.: 6/30/2018 195.: 9/30/2018 195.: 12/31/2018 196.: 3/31/2019 197.: 6/30/2019 199.:	/2015	190.50		190.50						
9/30/2016 192.3 12/31/2016 193.3 3/31/2017 193.3 6/30/2017 194.3 9/30/2017 194.3 12/31/2018 194.3 6/30/2018 195.3 9/30/2018 195.3 12/31/2018 196.3 3/31/2019 197.3 6/30/2019 198.3	2016	190.95	191.14	191.05				191.24	4	
12/31/2016 193.3 3/31/2017 193.6 6/30/2017 194.9 9/30/2017 194.3 12/31/2017 194.3 3/31/2018 194.6 6/30/2018 195.3 9/30/2018 195.3 12/31/2018 196.3 3/31/2019 197.6 6/30/2019 198.3	2016	192.03	191.67	191.59			191.74	191.76	6	
3/31/2017 193.6/30/2017 194.9/30/2017 194.12/31/2017 194.3/31/2018 194.6/30/2018 195.9/30/2018 195.12/31/2018 196.3/31/2019 197.6/30/2019 198.9/30/2019 199.	2016	192.82	192.21	192.14						
6/30/2017 194.9/30/2017 194.12/31/2017 194.3/31/2018 194.6/30/2018 195.9/30/2018 195.12/31/2018 196.3/31/2019 197.6/30/2019 198.9/30/2019 199.	/2016	193.56	192.75	192.69	192.80	192.78	192.80	192.80	0	
9/30/2017 194. 12/31/2017 194. 3/31/2018 194. 6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 198. 9/30/2019 199.	2017	193.86	193.28	193.24						192.89
12/31/2017 194. 3/31/2018 194. 6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 199.	2017	194.07		193.79	193.86	5 193.83	193.85	193.8	5 193.45	5 193.47
3/31/2018 194. 6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 198. 9/30/2019 199.	2017	194.20	194.35	194.34	194.38	3 194.36	194.38	194.37	7 194.05	194.05
6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 198. 9/30/2019 199.	/2017	194.18	194.89	194.90	194.9	1 194.89	194.91			194.64
6/30/2018 195. 9/30/2018 195. 12/31/2018 196. 3/31/2019 197. 6/30/2019 198. 9/30/2019 199.	2018	194.71	195.42	195.45	195.44	195.42	195.44	195.42	2 195.23	3 195.23
12/31/2018 196.3 3/31/2019 197.4 6/30/2019 198.3 9/30/2019 199.4	2018	195.24	195.96	196.01	195.97	7 195.95	195.97	195.9	5 195.83	3 195.82
3/31/2019 197. 6/30/2019 198. 9/30/2019 199.	2018	195.63		196.57						
3/31/2019 197. 6/30/2019 198. 9/30/2019 199.		196.26		197.13						
6/30/2019 198.3 9/30/2019 199.4		197.08		197.69						
9/30/2019 199.0		198.20		198.26						
		199.66		198.82						
		200.38		199.39						
Annual Trend	al Trend		1.1%	1.1%	1.1%	6 1.1%	5 1.1%	1.1%	% 1.2%	5 1.2%
R-Squared			0.987	0.987						

^{(2) =} Weighted average of CPI for Lodging, Apparel, Furnishings, and Medical Care

⁽³⁾ - (10) = (2) fitted to linear and exponential distributions

Development of Non-hurricane LAE factor Using TWIA Commercial + Residential Experience

	B : 1	D.: I	D.:
Accident	Paid	Paid	Paid
Year	Loss (\$000)	ALAE (\$000)	ULAE (\$000)
(1)	(2)	(3)	(4)
2010	18,005	323	3,951
2011	96,089	725	14,386
2012	66,741	829	14,961
2013	70,811	901	12,922
2014	7,002	1,017	5,796
2015	138,583	2,679	37,109
2016	28,409	484	14,882
2017	1,338,484	6,905	249,300
2018	11,663	117	6,280
2019	12,936	7	7,053
Total (Excluding 2017)	450,239	7,082	117,340
Paid ALAE to Loss ratio			0.016
Paid ULAE to Loss ratio			0.261
Selected Non-Hurricane L	AE ratio		0.276

Notes:

 $Selected\ Non-Hurricane\ LAE\ ratio = ((3)Total+(4)Total)/(2)Total$

Excluded 2017 in Non-Hurricane LAE calculation as 2017 was a hurricane year (Harvey)

^{(2) =} Cumulative Loss Payments as of 12/31/19 from TWIA's 2019 Schedule P

^{(3) =} Cumulative DCC Payments as of 12/31/19 from TWIA's 2019 Schedule P

^{(4) =} Cumulative AAO Payments as of 12/31/19 from TWIA's 2019 Schedule P

Development of Hurricane LAE factor Using TWIA Commercial + Residential Experience

				LAE			
Hurricane (Year)	Loss	ALAE	ULAE	Ratio			
(1)	(2)	(3)	(4)	(5)			
Ike (2008)	1,950,833,975	186,293,648	127,269,430	16.1%			
Harvey (2017)	1,336,923,861	144,947,255	106,821,442	18.8%			
Tatal	2 207 757 222	224 240 002	224 000 070				
Total	3,287,757,836	331,240,903	234,090,872				
Paid ALAE to Loss ra	tio			0.101			
Paid ULAE to Loss ra	tio			0.071			
Selected Hurricane LAE ratio 0.17							

Notes:

(2) = Cumulative Loss Payments as of 06/30/2020; Ike Losses reflect TWIA's estimated Residential & Commercial Hurricane Ike litigation cost reduction of \$306,292,226 stemming from House Bill 3

^{(3) =} Cumulative ALAE Payments as of 06/30/2020

^{(4) =} Cumulative ALAE Payments as of 06/30/2020

^{(5) = ((3)+(4))/(2)}

Summary of Indicated Hurricane Loss & LAE Ratios

Basis for Hurricane Loss Ratio	Indicated Loss Ratio	LAE Factor	Indicated Loss & LAE Ratio	Selected Model Weight
(1)	(2)	(3)	(4)	(5)
Industry Experience	30.9%	6 0.172	36.2%	
Hurricane Models AIR Model RMS Model	48.5% 35.6%			
Weighted Average of Models	38.8%	6 0.172	45.5%	

- (2) Exhibit 6 Exhibit 8, Sheet 1
- (3) Exhibit 4, Sheet 2
- (4) = (2) * [1 + (3)]

Industry Experience -- Residential Extended Coverage 1966 - 2019 -- Hurricane Years Only

			:
	Earned Premium		
Accide		Incurred	
Year	TWIA Rate Level	Loss Ratio	
	(1) (2)	(3)	•
1968	33,975,804	32.9%	
1970	34,658,928	60.0%	
1971	34,539,514	65.8%	
1980	58,664,250	74.8%	
1983	75,333,571	430.2%	
1986	95,974,159	9.3%	
1989	109,248,693	7.0%	
1990	105,685,439	17.0%	
1999	184,177,966	8.5%	
2003	225,873,236	20.1%	
2005	248,665,748	111.6%	
2007	384,632,941	5.1%	
2008	477,636,241	419.9%	
2017	559,948,822	218.7%	-
(4)	Simple Average Loss Ratio for Hurricane Years	105.8%	
(5)	Selected Non-Hurricane Loss Ratio	9.1%	
(6)	Average Hurricane Loss Ratio for Hurricane Years	96.7%	
(7)	Historical Hurricane Frequency		
	(a) 54-Year (1/1/1966 - 12/31/2019)	0.241	(1 Hurricane year ever
	(a) 169-Year (1/1/1851 - 12/31/2019)	0.320	(1 Hurricane year ever
	Selected Frequency	0.320	(1 Hurricane every year
(8)	Indicated Hurricane Loss Ratio	30.9%	

- (2) Exhibit 6, Sheet 2.
- (3) Exhibit 6, Sheet 2.
- (4) = Average of (3) (5) Exhibit 6, Sheet 2
- (6) = (4) (5)(7) Exhibit 9
- (8) = (6) * (7) Selected

Industry Experience -- Residential Extended Coverage 1966 - 2019

Accident Year	Earned Premium	Earned Premium at CMR	Earned Premium at Current TWIA Rate Level	Incurred	Incurred Loss Ratio	Hurricane Indicator
(1)	(2)	(3)	(4)	(5)	(6)	(7)
966	, ,	13,011,528	34,051,169		3.5%	, ,
967		13,130,860				
968		12,982,730				Н
969		12,499,176				• •
970		13,243,763				Н
971	10,640,335	13,198,133				
972	12,302,040	13,902,740		2,242,093		
973	12,935,382				14.8%	
974	12,794,652	11,637,700		2,293,219	7.5%	
975	13,633,616	12,392,309	32,430,673	3,062,897	9.4%	
976	17,088,846	13,884,831	36,336,603	1,522,489	4.2%	
977	23,643,216	17,474,220	45,730,034	972,383	2.1%	
978	28,157,329	19,320,941	50,562,903	1,449,823	2.9%	
979	32,867,536	21,563,567		3,940,899		
980	32,179,994				74.8%	Н
981	30,817,037	29,693,419	· · · · · · · · · · · · · · · · · · ·		3.2%	
982	28,140,159	32,398,474			2.3%	
983	28,786,234		, ,		430.2%	Н
984	20,078,668	34,626,400			12.1%	
985	30,043,452				5.2%	
986	36,673,352		95,974,159		9.3%	Н
987	41,598,709		108,863,822		2.4%	
988	45,044,392		117,881,171		10.1%	
989	41,745,774		109,248,693		7.0%	
990	40,384,195		105,685,439		17.0%	Н
991	46,237,137		121,002,587		70.0%	
992	44,512,572		116,489,401 132,789,511		6.3% 10.3%	
993	50,741,120 57,584,585		150,698,860		4.9%	
994 995	60,740,049		158,956,709		6.8%	
996	71,865,572		188,072,203		3.5%	
997	79,154,547		207,147,450		4.3%	
998	80,238,260		209,983,525		19.2%	
999	71,026,552		184,177,966		8.5%	Н
000	75,114,174		179,188,154		5.3%	• •
001	74,726,401		150,433,000		7.4%	
002	86,289,350		173,710,570		17.2%	
003	112,200,741		225,873,236		20.1%	Н
004	123,050,217		236,207,042		1.7%	
005	135,380,924		248,665,748		111.6%	Н
006	154,699,767		283,468,384		2.0%	
007	219,914,305		384,632,941		5.1%	
800	289,558,186		477,636,241		419.9%	Н
009	327,305,758		490,534,995		1.9%	
010	355,219,215		499,964,244		3.8%	
011	370,875,863		509,107,482		18.5%	
012	406,981,851		532,077,164		13.7%	
013	440,952,159		549,111,155		17.2%	
014	477,983,216		567,000,312		2.3%	
015	517,579,765		584,847,630		24.2%	
016	541,982,800		583,476,869		8.6%	
017	533,284,592		559,948,822		218.7%	Н
018	516,732,311		529,931,693		3.5%	
019	509,619,292		509,619,292		5.4%	•
otal / Average	7,371,106,199	413,720,932	11,235,999,499		34.1%	
-	Hurricane Years	, , , , -	. , ,		9.1%	
elected					9.1%	

Notes: (2), (3) Source: TDI. Accident years ending 9/30/xx as of 12/31/2019

^{(4) 1983 - 2019:} Sum of Exhibit 6, Sheet 4 - Sheet 7, (4); 1966 - 1982: (3) * 2.6

⁽⁵⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2010

^{(6) 1983 - 2019:} Exhibit 6, Sheet 3; 1966 - 1981: (5) / (4)

^{(7) &}quot;H" indicates occurrence of hurricane(s) during the time period (years ending 9/30/xx)

Industry Experience -- Residential Extended Coverage

Accident					Weighted	Selected
⁄ear	Territory 8	Territory 9	Territory 10	Tier 2	Loss Ratio	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
983	1052.2%	6.2%		145.2%	430.2%	430.2%
984	3.2%	5.8%	20.8%	33.1%	12.1%	12.1%
985	1.7%	7.1%	6.9%	11.1%	5.2%	5.2%
986	1.0%	2.4%	18.2%	12.1%	9.3%	9.3%
987	0.5%	3.5%		6.3%	2.4%	
988	4.9%	6.0%		6.4%	10.1%	10.1%
989	5.5%	5.7%	8.3%	15.3%	7.0%	7.0%
990	28.9%	10.4%	10.6%	21.3%	17.0%	17.0%
991	58.5%	12.9%	103.5%	15.4%	70.0%	70.0%
992	1.2%	11.4%	7.7%	17.5%	6.3%	6.3%
993	12.5%	11.0%	8.0%	21.4%	10.3%	10.3%
994	2.3%	5.7%	6.4%	7.6%	4.9%	4.9%
995	2.8%	8.6%	8.6%	22.5%	6.8%	6.8%
996	1.3%	4.7%	4.4%	9.0%	3.5%	3.5%
997	1.7%	4.0%	6.3%	7.7%	4.3%	4.3%
998	17.6%	9.9%	24.4%	9.3%	19.2%	19.2%
999	2.0%	17.2%	9.8%	9.8%	8.5%	8.5%
000	0.9%	2.4%	9.7%	10.9%	5.3%	5.3%
001	5.4%	7.8%	7.9%	35.6%	7.4%	7.4%
002	24.4%	5.8%	16.5%	10.6%	17.2%	17.2%
003	5.1%	8.2%	36.5%	10.3%	20.1%	20.1%
004	1.3%	1.9%	1.9%	3.9%	1.7%	1.7%
005	51.1%	2.7%	203.6%	37.2%	111.6%	111.6%
006	1.0%	1.7%	2.8%	4.9%	2.0%	2.0%
007	2.7%	1.6%	8.3%	4.9%	5.1%	5.1%
008	694.6%	2.2%	382.2%	418.4%	419.9%	419.9%
009	2.9%	0.9%	1.3%	9.4%	1.9%	1.9%
010	1.2%	5.6%	4.8%	10.9%	3.8%	3.8%
011	1.0%	27.3%	28.4%	6.0%	18.5%	18.5%
012	8.3%	28.9%	9.5%	85.0%	13.7%	13.7%
013	40.7%	9.1%	2.8%	19.6%	17.2%	17.2%
014	0.5%	2.5%	3.1%	17.7%	2.3%	2.3%
015	12.7%	12.2%		35.1%	24.2%	
016	8.3%	12.7%	6.4%	35.8%	8.6%	8.6%
017	30.9%	339.8%		60.2%	218.7%	
018	2.4%	2.2%	4.6%	10.4%	3.5%	3.5%
019	4.1%	1.6%		26.8%	5.4%	

TWIA 2019 Written Premium by Territory / Tier

		Territory 8	Territory 9	Territory 10	Tier 2	Total	
(8) (9)	Amount % Share	108,030,247 34.4%	,,	-, ,	, ,	003 314,392,25 .4% 100.0%	

- (2) Exhibit 6, Sheet 4
- (3) Exhibit 6, Sheet 5
- (4) Exhibit 6, Sheet 6
- (5) Exhibit 6, Sheet 7
- (6) = Weighted average of (2) to (5), using (9)
- (7) = (6)
- (8) Provided by TWIA
- (9) = (8) / (8) Total

Industry Experience -- Residential Extended Coverage

Tier 1 -- Territory 8 (Galveston County)

		Footor		Carnad Dramium		
Accident	Earned	Factor to TWIA		Earned Premium at Current	Incurred	Incurred
	Premium	Rate Level		TWIA Rate Level	Loss	Loss Ratio
Year (1)	(2)	(3)		(4)	(5)	(6)
(1)	(2)	(3)		(4)	(5)	(0)
1983	4,317,605		2.617	11,299,172	118,889,570	1052.2%
1984	3,512,853		2.617	9,193,136	292,543	3.2%
1985	6,066,870		2.617	15,876,999	265,705	1.7%
1986	6,846,710		2.617	17,917,840	187,218	1.0%
1987	7,738,740		2.617	20,252,283	111,242	0.5%
1988	8,043,378		2.617	21,049,520	1,026,666	4.9%
1989	8,149,957		2.617	21,328,437	1,163,813	5.5%
1990	7,816,199		2.617	20,454,993	5,908,943	28.9%
1991	8,645,208		2.617	22,624,509	13,225,287	58.5%
1992	5,826,467		2.617	15,247,863	180,484	1.2%
1993	5,825,916		2.617	15,246,422	1,900,088	12.5%
1994	6,996,874		2.617	18,310,819	420,038	2.3%
1995	8,737,576		2.617	22,866,237	644,169	2.8%
1996	11,652,672		2.617	30,495,044	406,004	1.3%
1997	12,573,252		2.617	32,904,201	573,343	1.7%
1998	13,838,930		2.617	36,216,480	6,371,206	17.6%
1999	14,103,814		2.593	36,572,406	742,130	2.0%
2000	15,784,218		2.386	37,653,943	324,948	0.9%
2001	17,776,666		2.013	35,786,511	1,947,817	5.4%
2002	20,514,469		2.013	41,298,029	10,059,284	24.4%
2003	25,868,450		2.013	52,076,220	2,672,918	5.1%
2004	30,357,860		1.920	58,274,910	731,759	1.3%
2005	36,780,457		1.837	67,557,818	34,527,644	51.1%
2006	43,562,211		1.832	79,822,419	813,430	1.0%
2007	59,282,257		1.749	103,685,428	2,757,645	2.7%
2008	73,789,694		1.650	121,718,652	845,466,768	694.6%
2009	81,999,709		1.499	122,893,429	3,581,024	2.9%
2010	89,665,314		1.407	126,202,213	1,451,547	1.2%
2011	93,230,854		1.373	127,979,548	1,329,886	1.0%
2012	99,629,727		1.307	130,253,235	10,756,644	8.3%
2013	107,104,250		1.245	133,375,327	54,316,145	40.7%
2014	114,784,032		1.186	136,160,810	691,708	0.5%
2015	122,782,019		1.130	138,739,529	17,655,480	12.7%
2016	127,007,324		1.077	136,730,973	11,291,643	8.3%
2017	126,002,753		1.050	132,302,891	40,819,572	30.9%
2018	122,707,170		1.026	125,841,595	2,980,015	2.4%
2019	121,969,675		1.000	121,969,675	4,945,341	4.1%
Total	1,671,292,130			2,398,179,516	1,201,429,667	50.1%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2019

^{(3) 1998} and prior judgementally selected; 1999 - 2019 based on TWIA on-level factors

^{(4) = (2) * (3)}

⁽⁵⁾ Provided by TDI. Accident yrs ending 9/30/xx as of 12/31/2019; 2008 lke incurred loss was adjusted down by \$206,858,309

to incorporate the statutory limitations on litigation cost that House Bill 3 provides

^{(6) = (5) / (4)}

Industry Experience -- Residential Extended Coverage

Tier 1 -- Territory 9 (Nueces County)

		Factor		Earned Premium		
Accident	Earned	to TWIA		at Current	Incurred	Incurred
Year	Premium	Rate Level		TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)		(4)	(5)	(6)
1983	2,331,938	2	2.617	6,102,682	377,010	6.2%
1984	1,632,317	2	2.617	4,271,774	249,086	5.8%
1985	2,505,564	2	2.617	6,557,061	467,721	7.1%
1986	2,977,992	2	2.617	7,793,405	189,449	2.4%
1987	3,639,667	2	2.617	9,525,009	335,212	3.5%
1988	3,971,251	2	2.617	10,392,764	626,491	6.0%
1989	3,702,536	2	2.617	9,689,537	550,215	5.7%
1990	3,519,306	2	2.617	9,210,024	955,271	10.4%
1991	4,065,190	2	2.617	10,638,602	1,367,254	12.9%
1992	3,907,712	2	2.617	10,226,482	1,170,578	11.4%
1993	4,552,395	2	2.617	11,913,617	1,312,776	11.0%
1994	5,710,806		2.617	14,945,180	856,369	5.7%
1995	6,908,552	2	2.617	18,079,679	1,552,987	8.6%
1996	8,568,168	2	2.617	22,422,896	1,061,115	4.7%
1997	8,425,344	2	2.617	22,049,126	882,561	4.0%
1998	8,803,621	2	2.617	23,039,077	2,289,890	9.9%
1999	8,465,256	2	2.593	21,951,137	3,778,386	17.2%
2000	8,437,094	2	2.386	20,127,058	485,581	2.4%
2001	8,894,552	2	2.013	17,905,774	1,394,445	7.8%
2002	10,534,795	2	2.013	21,207,776	1,227,528	5.8%
2003	13,881,847	2	2.013	27,945,784	2,295,803	8.2%
2004	15,458,506	1	1.920	29,674,129	569,877	1.9%
2005	17,471,646	1	1.837	32,091,670	872,451	2.7%
2006	19,888,512	1	1.832	36,443,263	621,501	1.7%
2007	29,704,042	1	1.749	51,952,751	833,793	1.6%
2008	40,565,108	1	1.650	66,913,548	1,468,028	2.2%
2009	46,363,445	1	1.499	69,485,158	615,469	0.9%
2010	51,529,115	1	1.407	72,526,243	4,059,049	5.6%
2011	52,931,755	1	1.373	72,660,303	19,843,778	27.3%
2012	56,334,273	1	1.307	73,649,919	21,286,940	28.9%
2013	60,101,696	1	1.245	74,843,747	6,825,640	9.1%
2014	65,642,137	1	1.186	77,866,986	1,913,725	2.5%
2015	72,124,134	1	1.130	81,497,832	9,916,873	12.2%
2016	76,436,084		1.077	82,288,012	10,418,298	
2017	77,008,517		1.050	80,858,943	274,719,455	
2018	77,031,486		1.026	78,999,174	1,701,043	
2019	76,490,369		1.000	76,490,369	1,230,125	
Total	960,516,727			1,364,236,488	380,321,773	27.9%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2019

^{(3) 1998} and prior judgementally selected; 1999 - 2019 based on TWIA on-level factors

^{(4) = (2) * (3)}

⁽⁵⁾ Provided by TDI. Accident yrs ending 9/30/xx as of 12/31/2019

^{(6) = (5) / (4)}

Industry Experience -- Residential Extended Coverage

Tier 1 -- Territory 10 (Other Tier 1)

Accident	Earned	Factor to TWIA	Earned Premium at Current	Incurred	Incurred
Year	Premium	Rate Level	TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	5,888,781	2.617	7 15,410,940	21,953,626	142.5%
1984	3,924,651	2.617	7 10,270,812	2,135,063	20.8%
1985	5,808,825	2.617	7 15,201,695	1,055,065	6.9%
1986	6,993,722		, ,		
1987	7,677,374	2.617	20,091,688	634,637	3.2%
1988	8,284,768		, ,	3,434,130	
1989	7,733,295	2.617	20,238,033	1,670,422	8.3%
1990	7,568,146		, ,		10.6%
1991	8,287,605	2.617	21,688,663	22,444,044	103.5%
1992	8,059,407		, ,	1,625,108	
1993	8,448,603		,,	1,776,572	
1994	9,743,293		-,,		
1995	10,745,995		-, ,	2,416,675	
1996	13,294,968		- , - ,		
1997	15,708,220		,,		
1998	16,168,136		, ,		
1999	14,452,667		- , ,	, ,	
2000	14,453,385		, ,		
2001	15,173,521	2.013		2,426,814	
2002	17,843,905	2.013	35,921,871	5,925,066	16.5%
2003	23,423,208		, ,		
2004	27,306,202		- , -,	990,613	
2005	31,012,304		, ,		
2006	36,545,725		/ /	, ,	
2007	69,945,120		, ,		
2008	110,187,567		- ,, -		
2009	128,275,387		, ,		
2010	143,236,007		, ,		
2011	151,387,931	1.373	, ,	59,069,922	
2012	170,159,709		, - , -		
2013	183,495,510		, ,	6,488,552	
2014	197,640,983		- , -,		
2015	212,320,998		, ,		
2016	218,795,204			15,012,404	
2017	212,533,686		, ,	, ,	315.9%
2018	201,509,514		, ,		
2019	194,394,581	1.000	194,394,581	14,185,711	7.3%
Total	2,518,428,904		3,430,493,424	1,876,628,291	54.7%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2019

^{(3) 1998} and prior judgementally selected; 1999 - 2019 based on TWIA on-level factors

^{(4) = (2) * (3)}

⁽⁵⁾ Provided by TDI. Accident yrs ending 9/30/xx as of 12/31/2019

^{(6) = (5) / (4)}

Industry Experience -- Residential Extended Coverage

Tier 2 -- (Territories 1 and 11)

		Factor		Earned Premium		
Accident	Earned	to TWIA		at Current	Incurred	Incurred
Year	Premium	Rate Level		TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)		(4)	(5)	(6)
1983	16,247,909		2.617	42,520,778	61,752,490	145.2%
1984	11,008,847		2.617	28,810,153	9,535,536	33.1%
1985	15,662,193		2.617	40,987,959	4,532,749	11.1%
1986	19,854,927		2.617	51,960,344	6,306,903	12.1%
1987	22,542,928		2.617	58,994,843	3,739,010	6.3%
1988	24,744,994		2.617	64,757,649	4,139,098	6.4%
1989	22,159,987		2.617	57,992,686	8,884,751	15.3%
1990	21,480,544		2.617	56,214,584	11,997,188	21.3%
1991	25,239,134		2.617	66,050,814	10,178,608	15.4%
1992	26,718,987		2.617	69,923,589	12,221,034	17.5%
1993	31,914,206		2.617	83,519,477	17,910,197	21.4%
1994	35,133,612		2.617	91,944,663	6,968,697	7.6%
1995	34,347,927		2.617	89,888,525	20,240,594	22.5%
1996	38,349,764		2.617	100,361,331	9,046,495	
1997	42,447,731		2.617	111,085,711	8,514,675	7.7%
1998	41,427,572		2.617	108,415,956	10,127,907	9.3%
1999	34,004,815		2.593	88,177,413	8,680,187	9.8%
2000	36,439,477		2.386	86,927,970	9,518,422	10.9%
2001	32,881,662		2.013	66,194,638	23,547,404	35.6%
2002	37,396,181		2.013	75,282,893	7,950,367	10.6%
2003	49,027,236		2.013	98,697,570	10,177,909	10.3%
2004	49,927,649		1.920	95,841,052	3,738,542	3.9%
2005	50,116,517		1.837	92,053,303	34,201,898	37.2%
2006	54,703,319		1.832	100,237,135	4,909,932	4.9%
2007	60,982,886		1.749	106,659,850	5,242,698	4.9%
2008	65,015,817		1.650	107,245,838	448,708,416	418.4%
2009	70,667,217		1.499	105,909,359	9,952,501	9.4%
2010	70,788,779		1.407	99,633,851	10,829,031	10.9%
2011	73,325,323		1.373	100,654,894	5,992,356	6.0%
2012	80,858,142		1.307	105,711,768	89,891,814	85.0%
2013	90,250,703		1.245	112,387,856	22,062,101	19.6%
2014	99,916,064		1.186	118,523,910	20,950,951	17.7%
2015	110,352,614		1.130	124,694,722	43,749,835	35.1%
2016	119,744,188		1.077	128,911,773	46,199,850	35.8%
2017	117,739,636		1.050	123,626,618	74,392,945	60.2%
2018	115,484,141		1.026	118,434,062	12,269,364	10.4%
2019	116,764,667		1.000	116,764,667	31,309,739	26.8%
Total	1,965,668,294			3,296,000,203	1,130,372,194	34.3%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2019

^{(3) 1998} and prior judgementally selected; 1999 - 2019 based on TWIA on-level factors

^{(4) = (2) * (3)}

⁽⁵⁾ Provided by TDI. Accident yrs ending 9/30/xx as of 12/31/2019

^{(6) = (5) / (4)}

Hurricane Loss Ratio -- AIR Model

County	TWIA Insured Limits (000s) as of 11/30/19	Average Annual Modeled Loss	Modeled Loss Cost
(1)	(2)	(3)	(4)
Aransas Brazoria Calhoun Cameron Chambers Galveston Harris Jefferson Kenedy Kleberg Matagorda Nueces Refugio San Patricio	1,560,360 9,623,822 884,611 2,184,121 1,407,119 18,526,442 1,104,156 6,147,764 5,642 185,682 1,085,936 10,223,620 74,314 1,622,088	4,048,156 16,605,942 2,815,402 3,671,555 2,339,692 73,129,991 4,328,428 12,020,576 4,499 173,144 2,977,903 25,988,473 108,541 3,119,364	2.594 1.726 3.183 1.681 1.663 3.947 3.920 1.955 0.797 0.932 2.742 2.542 1.461 1.923
Willacy	76,748	170,637	2.223
Total	54,712,424	151,502,303	2.769
(F) Inforce Duese		10 at Duanant Datas	040.074.070

(5) Inforce-Premium as of Nov 30, 2019 at Present Rates

312,674,278

(6) Indicated Hurricane Loss Ratio

48.5%

- (2) Provided by TWIA and Geo-coded by Willis Towers Watson
- (3) Modeled by Willis Towers Watson (4) = (3) / (2)
- (5) Provided by TWIA (6) = (3) Total / (5)

Hurricane Loss Ratio -- RMS Model

Occupation	TWIA Insured Limits (000s)	Average Annual	Modeled
County	as of 11/30/19	Modeled Loss	Loss Cost
(1)	(2)	(3)	(4)
Aransas Brazoria Calhoun	1,560,360 9,623,822	3,174,998 14,972,854	2.035 1.556
	884,611	2,993,612	3.384
Cameron Chambers	2,184,121 1,407,119	3,818,134 2,083,698	1.748 1.481
Galveston	18,526,442	46,177,197	2.493
Harris	1,104,156	3,072,939	2.783
Jefferson	6,147,764	11,115,980	1.808
Kenedy	5,642	7,857	1.393
Kleberg	185,682	263,633	1.420
Matagorda	1,085,936	2,962,256	2.728
Nueces	10,223,620	17,497,220	1.711
Refugio	74,314	142,951	1.924
San Patricio	1,622,088	2,739,079	1.689
Willacy	76,748	213,332	2.780
Total	54,712,424	111,235,740	2.033
(5) Inforce-Premi(6) Indicated Hur	312,674,278 35.6%		

- (2) Provided by TWIA and Geo-coded by Willis Towers Watson
- (3) Modeled by Willis Towers Watson
- (4) = (3) / (2)
- (5) Provided by TWIA
- (6) = (3) Total / (5)

Texas Hurricanes 1850 - 2019

<u>Landfall</u>	Maria		Landfal	_	Name
Year Month (1)	Name (2)	_	Year	Month (1)	Name (2)
(1)	(2)			(1)	(2)
1851 Jun			1929	Jun	
1854 Jun			1932	Aug	"Freeport"
1854 Sep	"Matagorda"		1933	Aug	·
1865 Sep	"Sabine River-Lake Cald	casieu"	1933	•	
1866 Jul			1934	•	
1867 Oct	"Galveston"		1936	Jun	
1869 Aug	"Lower Texas Coast"		1940	Aug	
1875 Sep			1941	Sep	
1879 Aug			1942	Aug	
1880 Aug			1942	Aug	
1882 Sep			1943	Jul	
1886 Jun			1945	Aug	
1886 Aug	"Indianola"		1947	Aug	
1886 Sep			1949	Oct	
1886 Oct			1957	Jun	Audrey
1887 Sep			1959	Jul	Debra
1888 Jun			1961	Sep	Carla
1891 Jul			1963	Sep	Cindy
1895 Aug			1967	Sep	Beulah
1897 Sep			1970	Aug	Celia
1900 Sep	"Galveston"		1971	Sep	Fern
1909 Jun			1980	Aug	Allen
1909 Jul	"Velasco"		1983	Aug	Alicia
1909 Aug			1986	Jun	Bonnie
1910 Sep			1989	Aug	Chantal
1912 Oct			1989	Oct	Jerry
1913 Jun			1999	Aug	Bret
1915 Aug	"Galveston"		2003	Jul	Claudette
1916 Aug			2005	Sep	Rita
1919 Sep			2007	Sep	Humberto
1921 Jun			2008	Jul	Dolly
			2008	Sep	lke
			2017	Aug	Harvey
Frequency	Date Period	# of Hurricane Years	Period	Annual Fred	quency
		2			17
54-Year	1/1/1966 - 12/31/2019	13	54		0.241
169-Year	1/1/1851 - 12/31/2019	54	169		0.320

Notes:

(1), (2) from NOAA Technical Memorandum NWS NHC-6, updated with actual experience through 2019

Calculation of TWIA Earned Premium at Present Rate Level Tier 1 -- Territory 8 (Galveston County)

Year	(4)	TWIA Earned Premium			Earned Premium at Current Rate Level
	(1)	(2)	(3)		(4)
2010 2011 2012		88,599,807 92,287,441 98,605,959		1.407 1.373 1.307	124,702,532 126,684,509 128,914,788
2013		105,941,027	•	1.245	131,926,783
2014		113,521,698	3	1.186	134,663,386
2015		121,221,015	5	1.130	136,975,647
2016		123,942,872	2	1.077	133,431,908
2017		120,650,271		1.050	126,682,785
2018		112,717,188	3	1.026	115,596,430
2019		109,182,096		1.000	109,182,096
Total		1,086,669,374	ŀ		1,268,760,864

- (2) Provided by TDI
- (3) Provided by TWIA
- (4) = (2) * (3)

Calculation of TWIA Earned Premium at Present Rate Level Tier 1 -- Territory 9 (Nueces County)

Year	(1)	Factor TWIA to Curre Earned Premium Rate Lev		Earned Premiur at Current Rate Level	
	(1)	(2)	(3)		(4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019		49,048,919 50,547,302 53,841,760 57,427,564 62,828,148 68,716,114 71,234,774 69,126,281 63,899,693 59,870,593	2) 	1.407 1.373 1.307 1.245 1.186 1.130 1.077 1.050 1.026 1.000	69,035,414 69,387,124 70,391,274 71,513,690 74,528,934 77,646,885 76,688,491 72,582,595 65,531,943 59,870,593
Total		606,541,148	3		707,176,943

⁽²⁾ Provided by TDI

⁽³⁾ Provided by TWIA

^{(4) = (2) * (3)}

Calculation of TWIA Earned Premium at Present Rate Level Tier 1 -- Territory 10 (Other Tier 1)

Year	Earned Premium Rate Leve		Factor to Current Rate Level (3)	Earned Premium at Current Rate Level (4)	
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019		131,679,293 140,621,661 160,031,435 173,209,952 187,152,484 200,595,693 200,978,477 188,554,673 166,829,909 151,980,115	5 2 1 3 7	1.407 1.373 1.307 1.245 1.186 1.130 1.077 1.050 1.026 1.000	185,336,084 193,033,699 209,220,809 215,695,773 222,006,785 226,666,349 216,365,340 197,982,407 171,091,403 151,980,115
Total		1,701,633,692	!		1,989,378,764

- (2) Provided by TDI
- (3) Provided by TWIA
- (4) = (2) * (3)

Calculation of TWIA Earned Premium at Present Rate Level Tier 2 -- (Territories 1 and 11)

Year	(1)	TWIA Factor to Current Earned Premium Rate Level (2) (3)			Earned Premium at Current Rate Level (4)	
2010		2,562,327		1.407	3,606,426	
2011		2,825,372		1.373	3,878,435	
2012		3,294,072	!	1.307	4,306,581	
2013		3,672,814	,	1.245	4,573,701	
2014		3,920,276	;	1.186	4,650,368	
2015		4,202,726	i	1.130	4,748,938	
2016		4,436,708	}	1.077	4,776,381	
2017		4,435,808	}	1.050	4,657,598	
2018		4,301,050	1	1.026	4,410,916	
2019		4,296,061		1.000	4,296,061	
Total		37,947,214	ı		43,905,405	

- (2) Provided by TDI
- (3) Provided by TWIA
- (4) = (2) * (3)

Calculation of TWIA Earned Premium at Present Rate Level

			_	
		Earned Premium	Factor	Earned Premium
		at	to Current	at Current
Year		Manual Rates	Rate Level	Rate Level
	(1)	(2)	(3)	(4)
2010		273,154,916	1.407	384,460,314
2011		292,239,327	7 1.373	401,161,797
2012		323,323,869	1.307	422,704,960
2013		346,955,938	1.245	432,059,062
2014		372,022,089	1.186	441,305,539
2015		403,803,905	1.130	456,284,757
2016		405,934,590	1.077	437,012,842
2017		376,421,384	1.050	395,242,454
2018		341,468,875	1.026	350,191,338
2019		322,259,386	1.000	322,259,386
Total		3,457,584,279	•	4,042,682,448

- (2) Provided by TWIA
 (3) Based on historical rate changes
 (4) = (2) * (3)

Fixed Expenses and Variable Permissible Loss & LAE Ratios

Expe	ense Category	2017	2018	2019	Selected
(1) (2)	Direct Written Premium Direct Earned Premium	\$423,074,138 451,347,130	\$395,551,679 409,954,258		
(3)	Commission				
(-)	\$ Amount	67,661,211	63,280,811	59,474,929	
	% of DWP	16.0%	16.0%	16.0%	16.0%
(4)	Other Acquisition				
	\$ Amount	\$0	\$0	\$0	
	% of DWP	0.0%	0.0%	0.0%	0.0%
(5)	General Expense				
	Unadjusted \$ Amount	\$26,489,941	\$30,756,501	\$31,461,936	
	% of DWP	6.3%	7.8%	8.5%	8.5%
(6)	Taxes, Licenses & Fees				
	\$ Amount	\$0	\$0	\$0	
	% of DWP	0.0%	0.0%	0.0%	1.9%
(7)	Reinsurance Expense				10.3%
(0)	Outstanding Class 1 Public Security Pens	num ont			17.9%
(8)	Outstanding Class 1 Public Security Repa	aymem			17.9%
(9)	Total Fixed Expenses				36.7%
(10)	Total Variable Expenses				17.9%
(11)	Underwriting Contingency & Uncertainty F	Provision			5.0%
(12)	Permissible Loss & LAE Ratio				77.1%
(/					

- (1) (6) From TWIA's Statutory Annual Statements and Insurance Expense Exhibits
- (7) Exhibit 11, Sheet 2
- (8) Outstanding Class 1 Public Security issued in 2014, Security depleted due to Hurricane Harvey;
- 0.179= Annual principal and interest payment of \$68.9M / Earned premium at present rate of \$384.7M
- (9) = (5) + (7) + (8)
- (10) = (3) + (4) + (6)
- (11) Underwriting Contingency & Uncertainty Provision selected judgmentally
- (12) = 100% (10) (11)

Development of Reinsurer Expense Using Weighting of 50% AIR and 50% RMS Hurricane Models

		Net of Depop
(1)	2021 - 2022 Expected Reinsurance Premium	45,201,909
(2a)	Expected Average Annual Loss by Reinsurance Layer (AIR) 100% of \$921M xs \$2.1B	13,992,572
	Total	13,992,572
(2b)	Expected Average Annual Loss by Reinsurance Layer (RMS) 100% of \$921M xs \$2.1B	6,574,517
	Total	6,574,517
(2c)	Selected Total Average Annual Loss	10,283,545
(2d)	Selected Total Average Annual Loss+LAE	12,052,314
(3)	Expected Net Cost of Reinsurance	33,149,595
(4)	TWIA 2019 Earned Premium at Present Rates	322,259,386
(5)	Indicated Reinsurance Expense %	10.3%

- (1) Developed by Willis Towers Watson for prospective reinsurance contract effective 6/1/2021 through 5/31/2022, but doesn't consider impact of reinsurance market conditions.
- $\dot{}$ (2a) Developed by Willis Towers Watson, based on AIR model using TWIA exposures as of 11/30/2019
- (2b) Developed by Willis Towers Watson, based on RMS model using TWIA exposures as of 11/30/2019
- (2c) Selected based on a 50% RMS/50% AIR weighting
- (2d) = (2c) * 1.172; 1.172 is the selected loading for loss adjustment expenses
- (3) = (1) (2d)
- (4) = Exhibit 10, Sheet 2, calendar year ending 12/31/2019
- (5) = (3) / (4)

Reconciliation of Premium Data to Annual Statement

Calendar	TWIA Provided Written Premium		Annual Statement Gross		
Year	Commercial	Residential	Total	Written Premium	Difference
(1)	(2)	(3)	(4)	(5)	(6)
1995	12,865,905	19,259,265	32,125,170	32,419,287	(294,117)
1996	15,640,660	24,504,127	40,144,787	40,358,575	(213,788)
1997	16,536,186	25,783,455	42,319,641	42,462,844	(143,203)
1998	16,558,977	27,833,800	44,392,777	44,410,914	(18,137)
1999	17,394,142	27,168,992	44,563,134	44,581,218	(18,084)
2000	17,332,561	29,762,296	47,094,857	48,012,426	(917,569)
2001	17,544,251	36,220,623	53,764,874	54,630,727	(865,853)
2002	24,013,525	48,856,422	72,869,947	72,967,831	(97,884)
2003	29,220,514	58,573,191	87,793,705	87,987,279	(193,574)
2004	31,009,323	71,292,702	102,302,025	102,384,351	(82,326)
2005	35,740,174	78,094,458	113,834,632	113,927,701	(93,069)
2006	76,847,840	119,658,576	196,506,416	196,833,235	(326,819)
2007	110,951,718	203,561,196	314,512,914	315,139,307	(626,393)
2008	98,036,118	232,925,990	330,962,108	331,057,645	(95,537)
2009	111,269,573	269,535,059	380,804,632	382,342,402	(1,537,770)
2010	102,174,680	278,116,922	380,291,602	385,549,582	(5,257,980)
2011	100,017,021	307,494,236	407,511,257	403,748,164	3,763,093
2012	110,524,397	335,795,725	446,320,122	443,479,701	2,840,421
2013	112,904,624	360,838,081	473,742,705	472,739,474	1,003,231
2014	104,642,688	389,333,918	493,976,606	494,036,010	(59,404)
2015	98,715,934	407,969,846	506,685,780	503,824,316	2,861,464
2016	88,278,690	399,074,847	487,353,537	487,353,537	-
2017	70,749,081	352,368,052	423,117,133	423,074,138	42,995
2018	65,696,833	331,676,957	397,373,790	395,551,679	1,822,111
2019	59,123,729	314,907,159	374,030,888	372,016,601	2,014,287
Total	1,543,789,143	4,750,605,895	6,294,395,038	6,290,888,944	3,506,094

^{(2), (3)} Provided by TWIA, as of 12/31/2019

^{(4) = (2) + (3)}

⁽⁵⁾ Based on TWIA Annual Statements

^{(6) = (4) - (5)}